



Open Source Used In Crosswork Platform Infrastructure astack-infra- 6.0.0-dockerimages

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In your requests please include the following reference number 78EE117C99-1749639255

Contents

1.1 golang-protobuf 1.0.1

1.1.1 Available under license

1.2 ghodss-yaml 1.0.0

1.2.1 Available under license

1.3 go-humanize 1.0.0

1.3.1 Available under license

1.4 lib-pq 1.2.0

1.4.1 Available under license

1.5 msgp 1.1.0

1.5.1 Available under license

1.6 go-sql-driver-mysql 1.5.0

1.6.1 Available under license

1.7 mqtt-paho 1.2.0

1.7.1 Available under license

1.8 coreos-semver 0.3.0

1.8.1 Available under license

1.9 mitchellh-copystructure 1.0.0

1.9.1 Available under license

1.10 go-kit 0.10.0

1.10.1 Available under license

1.11 jpillora-backoff 1.0.0

1.11.1 Available under license

1.12 nuid 1.0.1

1.12.1 Available under license

1.13 bytebufferpool 1.0.0

1.13.1 Available under license

1.14 go-runewidth 0.0.9

1.14.1 Available under license

1.15 go-md2man 2.0.0

1.15.1 Available under license

1.16 tre 0.8.0

1.16.1 Available under license

1.17 go-runewidth 0.0.3

1.17.1 Available under license

1.18 nose 1.3.7

1.18.1 Available under license

1.19 benbjohnson-clock 1.1.0

1.19.1 Available under license

1.20 queue 1.1.0

1.20.1 Available under license

1.21 scram 0.0.0-20180814205039-7eeb5667e42c

1.21.1 Available under license

1.22 copystructure 1.0.0

1.22.1 Available under license

1.23 murmur 0.0.0-20180118202830-f09979ecbc72

1.23.1 Available under license

1.24 go-homedir 1.1.0

1.24.1 Available under license

1.25 go-spew 1.1.1

1.25.1 Available under license

1.26 pq 1.2.0

1.26.1 Available under license

1.27 go-shellquote 0.0.0-20180428030007-95032a82bc51

1.27.1 Available under license

1.28 gofork 1.0.0

1.28.1 Available under license

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

1.29.1 Available under license

1.30 go-cleanhttp 0.5.1

1.30.1 Available under license

1.31 bridgeutils 1.7-r0

1.31.1 Available under license

1.32 backoff 2.2.1+incompatible

1.32.1 Available under license

1.33 armon-go-metrics 0.3.6

- 1.33.1 Available under license
- 1.34 zap 1.16.0**
 - 1.34.1 Available under license
- 1.35 grpc-go 1.27.0**
 - 1.35.1 Available under license
- 1.36 go-units 0.4.0**
 - 1.36.1 Available under license
- 1.37 aws-sdk-go 1.38.3**
 - 1.37.1 Available under license
- 1.38 azure-sdk-for-go 52.5.0+incompatible**
 - 1.38.1 Available under license
- 1.39 bridgeutils 1.7.1**
 - 1.39.1 Available under license
- 1.40 gax-go 2.0.5**
 - 1.40.1 Available under license
- 1.41 x-time-rate 0.0.0-20210220033141-f8bda1e9f3ba**
 - 1.41.1 Available under license
- 1.42 inotify 0.2.10**
 - 1.42.1 Available under license
- 1.43 stack 1.8.0**
 - 1.43.1 Available under license
- 1.44 visual-studio-runtime 15.9.9(VC++ 2017)**
 - 1.44.1 Available under license
- 1.45 mpdecimal 2.5.1-r1**
 - 1.45.1 Available under license
- 1.46 opencensus 0.2.1**
 - 1.46.1 Available under license
- 1.47 kubernetes-api 0.21.0**
 - 1.47.1 Available under license
- 1.48 kubernetes-apimachinery 0.21.0**
 - 1.48.1 Available under license
- 1.49 jackc-chunkreader 2.0.1**
 - 1.49.1 Available under license
- 1.50 dlintw-goconf 0.0.0-20120228082610-dcc070983490**
 - 1.50.1 Available under license
- 1.51 jackc-pgpassfile 1.0.0**
 - 1.51.1 Available under license
- 1.52 blang-semver 3.5.1+incompatible**
 - 1.52.1 Available under license

1.53 jackc-pgio 1.0.0

1.53.1 Available under license

1.54 jcmtturner-gofork 1.0.0

1.54.1 Available under license

1.55 jackc-pgservicefile 0.0.0-20200714003250-2b9c44734f2b

1.55.1 Available under license

1.56 opencontainers-go-digest 1.0.0

1.56.1 Available under license

1.57 dimchansky-utfbom 1.1.0

1.57.1 Available under license

1.58 modern-go-reflect2 1.0.1

1.58.1 Available under license

1.59 modern-go-concurrent 0.0.0-20180306012644-bacd9c7ef1dd

1.59.1 Available under license

1.60 opencontainers-image-spec 1.0.1

1.60.1 Available under license

1.61 go-autorest-tracing 0.6.0

1.61.1 Available under license

1.62 go-autorest-to 0.4.0

1.62.1 Available under license

1.63 go-autorest-date 0.3.0

1.63.1 Available under license

1.64 gofrs-uuid 3.3.0+incompatible

1.64.1 Available under license

1.65 utils 0.0.0-20201110183641-67b214c5f920

1.65.1 Available under license

1.66 logr 0.4.0

1.66.1 Available under license

1.67 opencensus 0.23.0

1.67.1 Available under license

1.68 go-autorest-validation 0.3.1

1.68.1 Available under license

1.69 jcmtturner-rpc 2.0.3

1.69.1 Available under license

1.70 jcmtturner-aescts 2.0.0

1.70.1 Available under license

1.71 jcmtturner-dnsutils 2.0.0

1.71.1 Available under license

1.72 josharian-intern 1.0.0

- 1.72.1 Available under license
- 1.73 x-oauth2 0.0.0-20210514164344-f6687ab2804c**
 - 1.73.1 Available under license
- 1.74 go-zookeeper-zk 1.0.2**
 - 1.74.1 Available under license
- 1.75 go-systemd 22.3.2**
 - 1.75.1 Available under license
- 1.76 prometheus-procfs 0.6.0**
 - 1.76.1 Available under license
- 1.77 fsnotify-fsnotify 1.4.7**
 - 1.77.1 Available under license
- 1.78 json-iterator-go 1.1.11**
 - 1.78.1 Available under license
- 1.79 mwitkow-go-contrack 0.0.0-20190716064945-2f068394615f**
 - 1.79.1 Available under license
- 1.80 structured-merge-diff 4.1.0**
 - 1.80.1 Available under license
- 1.81 x-crypto 0.0.0-20210616213533-5ff15b29337e**
 - 1.81.1 Available under license
- 1.82 blackfriday 2.0.1**
 - 1.82.1 Available under license
- 1.83 zap 1.17.0**
 - 1.83.1 Available under license
- 1.84 xxhash 2.1.2**
 - 1.84.1 Available under license
- 1.85 go-hclog 0.14.1**
 - 1.85.1 Available under license
- 1.86 sanitized-anchor-name 1.0.0**
 - 1.86.1 Available under license
- 1.87 x-sync 0.0.0-20210220032951-036812b2e83c**
 - 1.87.1 Available under license
- 1.88 go-autorest-adal 0.9.13**
 - 1.88.1 Available under license
- 1.89 x-xerrors 0.0.0-20200804184101-5ec99f83aff1**
 - 1.89.1 Available under license
- 1.90 x-text 0.3.7**
 - 1.90.1 Available under license
- 1.91 klauspost-compress 1.13.6**
 - 1.91.1 Available under license

- 1.92 json-iterator-go 1.1.10**
 - 1.92.1 Available under license
- 1.93 evanphx-json-patch 4.9.0+incompatible**
 - 1.93.1 Available under license
- 1.94 alecthomas-kingpin 2.2.6**
 - 1.94.1 Available under license
- 1.95 prometheus-common 0.20.0**
 - 1.95.1 Available under license
- 1.96 miekg-dns 1.1.41**
 - 1.96.1 Available under license
- 1.97 googleapis-gnostic 0.4.1**
 - 1.97.1 Available under license
- 1.98 rcrowley-go-metrics 0.0.0-20201227073835-cf1acfcdf475**
 - 1.98.1 Available under license
- 1.99 kballard-go-shellquote 0.0.0-20180428030007-95032a82bc51**
 - 1.99.1 Available under license
- 1.100 kubernetes-client 0.21.0**
 - 1.100.1 Available under license
- 1.101 xdg-scam 0.0.0-20180814205039-7eeb5667e42c**
 - 1.101.1 Available under license
- 1.102 go.etcd.io-bbolt 1.3.5**
 - 1.102.1 Available under license
- 1.103 go-ieproxy 0.0.1**
 - 1.103.1 Available under license
- 1.104 go-autorest-cli 0.4.2**
 - 1.104.1 Available under license
- 1.105 sap-go-hdb 0.14.1**
 - 1.105.1 Available under license
- 1.106 urfave-cli 2.3.0**
 - 1.106.1 Available under license
- 1.107 gorhill-cronexpr 0.0.0-20180427100037-88b0669f7d75**
 - 1.107.1 Available under license
- 1.108 xdg-stringprep 1.0.0**
 - 1.108.1 Available under license
- 1.109 golang-sql-civil 0.0.0-20190719163853-cb61b32ac6fe**
 - 1.109.1 Available under license
- 1.110 azure-pipeline-go 0.2.3**
 - 1.110.1 Available under license
- 1.111 sergi-go-diff 1.0.0**

- 1.111.1 Available under license
- 1.112 errwrap 1.0.0**
 - 1.112.1 Available under license
- 1.113 docker 20.10.5+incompatible**
 - 1.113.1 Available under license
- 1.114 urfave-cli 1.20.0**
 - 1.114.1 Available under license
- 1.115 geo 0.0.0-20190916061304-5b978397cfec**
 - 1.115.1 Available under license
- 1.116 go-openapi-errors 0.19.9**
 - 1.116.1 Available under license
- 1.117 go-openapi-strfmt 0.20.0**
 - 1.117.1 Available under license
- 1.118 go-connections 0.4.0**
 - 1.118.1 Available under license
- 1.119 influxdata-kapacitor 1.5.8-rc0**
 - 1.119.1 Available under license
- 1.120 zap 1.19.1**
 - 1.120.1 Available under license
- 1.121 prometheus-procfs 0.7.3**
 - 1.121.1 Available under license
- 1.122 globalsign-mgo 0.0.0-20181015135952-eeefdec41b8**
 - 1.122.1 Available under license
- 1.123 influxdb 1.9.4**
 - 1.123.1 Available under license
- 1.124 mgo 0.0.0-20181015135952-eeefdec41b8**
 - 1.124.1 Available under license
- 1.125 profile 1.6.0**
 - 1.125.1 Available under license
- 1.126 uuid 1.3.0**
 - 1.126.1 Available under license
- 1.127 golang-snappy 0.0.4**
 - 1.127.1 Available under license
- 1.128 go.mongodb.org-mongo-driver 1.5.1**
 - 1.128.1 Available under license
- 1.129 pierrec-lz4 2.6.1+incompatible**
 - 1.129.1 Available under license
- 1.130 logfmt 0.5.0**
 - 1.130.1 Available under license

1.131 influxdata-line-protocol 0.0.0-20200327222509-2487e7298839

1.131.1 Available under license

1.132 lumberjack 2.0.0

1.132.1 Available under license

1.133 kubernetes-klog 2.8.0

1.133.1 Available under license

1.134 treeprint 1.0.0

1.134.1 Available under license

1.135 nkeys 0.3.0

1.135.1 Available under license

1.136 go-mssqldb 0.10.0

1.136.1 Available under license

1.137 cloud-google-com-go 0.82.0

1.137.1 Available under license

1.138 google-api-go-client 0.47.0

1.138.1 Available under license

1.139 x-term 0.0.0-20210927222741-03fcf44c2211

1.139.1 Available under license

1.140 sqlx 1.3.4

1.140.1 Available under license

1.141 golang 1.13.8

1.141.1 Available under license

1.142 btree 1.0.1

1.142.1 Available under license

1.143 pkg-browser 0.0.0-20210911075715-681adbf594b8

1.143.1 Available under license

1.144 azure-storage-blob-go 0.14.0

1.144.1 Available under license

1.145 klauspost-compress 1.13.6

1.145.1 Available under license

1.146 form3tech-oss-jwt-go 3.2.5+incompatible

1.146.1 Available under license

1.147 golang-set 1.7.1

1.147.1 Available under license

1.148 go-autorest-auth 0.5.3

1.148.1 Available under license

1.149 importlib-resources 5.4.0

1.149.1 Available under license

1.150 prometheus-common 0.32.1

- 1.150.1 Available under license
- 1.151 alpine-keys 2.4-r1**
 - 1.151.1 Available under license
- 1.152 gnostic 0.4.1**
 - 1.152.1 Available under license
- 1.153 clientmodel 0.2.0**
 - 1.153.1 Available under license
- 1.154 sigs-k8s-io-yaml 1.2.0**
 - 1.154.1 Available under license
- 1.155 hashicorp-golang-lru 0.5.4**
 - 1.155.1 Available under license
- 1.156 klog 2.8.0**
 - 1.156.1 Available under license
- 1.157 json iterator go 1.1.10**
 - 1.157.1 Available under license
- 1.158 semver 3.5.1+incompatible**
 - 1.158.1 Available under license
- 1.159 githubcommodernngorelect2 1.0.1**
 - 1.159.1 Available under license
- 1.160 x-time 0.0.0-20210220033141-f8bda1e9f3ba**
 - 1.160.1 Available under license
- 1.161 coreos-go-semver 0.3.0**
 - 1.161.1 Available under license
- 1.162 githubcommattngoisatty 0.0.12**
 - 1.162.1 Available under license
- 1.163 gounits 0.4.0**
 - 1.163.1 Available under license
- 1.164 google-golang-org-grpc 1.29.1**
 - 1.164.1 Available under license
- 1.165 image-spec 1.0.1**
 - 1.165.1 Available under license
- 1.166 github.com/dlintw/goconf 0.0.0-20120228082610-dcc070983490**
 - 1.166.1 Available under license
- 1.167 githubcommattngocolorable 0.1.8**
 - 1.167.1 Available under license
- 1.168 x-sys 0.0.0-20211216021012-1d35b9e2eb4e**
 - 1.168.1 Available under license
- 1.169 compress 1.13.6**
 - 1.169.1 Available under license

- 1.170 hashicorp-go-uuid 1.0.2**
 - 1.170.1 Available under license
- 1.171 github.com/jcmturner/gokrb5/v8 8.4.2**
 - 1.171.1 Available under license
- 1.172 jsonpatch 4.9.0+incompatible**
 - 1.172.1 Available under license
- 1.173 mysql 1.5.0**
 - 1.173.1 Available under license
- 1.174 serf 0.9.5**
 - 1.174.1 Available under license
- 1.175 grpc-ecosystem-grpc-gateway 1.16.0**
 - 1.175.1 Available under license
- 1.176 autorest 0.4.2**
 - 1.176.1 Available under license
- 1.177 cenkalti-backoff 2.2.1+incompatible**
 - 1.177.1 Available under license
- 1.178 github.com/golang-sql/civil 0.0.0-20190719163853-cb61b32ac6fe**
 - 1.178.1 Available under license
- 1.179 github.com/jackc/pgservicefile 0.0.0-20200714003250-2b9c44734f2b**
 - 1.179.1 Available under license
- 1.180 go-kit-kit 0.10.0**
 - 1.180.1 Available under license
- 1.181 go-etcd-io-bbolt 1.3.5**
 - 1.181.1 Available under license
- 1.182 utfbom 1.1.0**
 - 1.182.1 Available under license
- 1.183 github.com/antchfx/xpath 1.2.0**
 - 1.183.1 Available under license
- 1.184 aws-smithy-go 1.9.0**
 - 1.184.1 Available under license
- 1.185 antchfx-xpath 1.2.0**
 - 1.185.1 Available under license
- 1.186 githubcomgoopenapierrors 0.19.9**
 - 1.186.1 Available under license
- 1.187 githubcomgoopenapistrfmt 0.20.0**
 - 1.187.1 Available under license
- 1.188 github.com/golang-jwt/jwt 3.2.2+incompatible**
 - 1.188.1 Available under license
- 1.189 prometheus-client 1.10.0**

- 1.189.1 Available under license
- 1.190 github.com/benbjohnson/clock 1.1.0**
 - 1.190.1 Available under license
- 1.191 [supervisor](https://github.com/ahmetalpbalkan/supervisor) 4.2.4**
 - 1.191.1 Available under license
- 1.192 [deckarep-golang-set](https://github.com/ahmetalpbalkan/deckarep-golang-set) 1.7.1**
 - 1.192.1 Available under license
- 1.193 github.com/influxdata/influxdb-client-go/v2 2.3.1-0.20210518120617-5d1fff431040**
 - 1.193.1 Available under license
- 1.194 github.com/deepmap/oapi-codegen 1.6.0**
 - 1.194.1 Available under license
- 1.195 [go-diff](https://github.com/rogierlatour/go-diff) 1.0.0**
 - 1.195.1 Available under license
- 1.196 [cli](https://github.com/ahmetalpbalkan/cli) 2.3.0**
 - 1.196.1 Available under license
- 1.197 [deepmap-oapi-codegen](https://github.com/deepmap/oapi-codegen) 1.6.0**
 - 1.197.1 Available under license
- 1.198 [go-immutable-radix](https://github.com/ahmetalpbalkan/go-immutable-radix) 1.3.1**
 - 1.198.1 Available under license
- 1.199 [toml](https://github.com/pelletier/toml) 0.4.1**
 - 1.199.1 Available under license
- 1.200 [spaolacci-murmur3](https://github.com/spaolacci/murmur3) 0.0.0-20180118202830-f09979ecbc72**
 - 1.200.1 Available under license
- 1.201 [fwd](https://github.com/ahmetalpbalkan/fwd) 1.0.0**
 - 1.201.1 Available under license
- 1.202 [lib-pq](https://github.com/ahmetalpbalkan/lib-pq) 1.10.4**
 - 1.202.1 Available under license
- 1.203 [jedib0t-go-pretty](https://github.com/jedib0t/go-pretty) 4.3.0+incompatible**
 - 1.203.1 Available under license
- 1.204 [jackc-pgproto](https://github.com/jackc/pgproto) 2.2.0**
 - 1.204.1 Available under license
- 1.205 [grpc-go](https://github.com/ahmetalpbalkan/grpc-go) 1.44.0**
 - 1.205.1 Available under license
- 1.206 [importlib-metadata](https://github.com/importlib-metadata) 4.11.1**
 - 1.206.1 Available under license
- 1.207 gopkg.in/urfave/cli.v1 1.20.0**
 - 1.207.1 Available under license
- 1.208 [pq](https://github.com/ahmetalpbalkan/pq) 1.10.4**

- 1.208.1 Available under license
- 1.209 nats-go 1.13.1-0.20211018182449-f2416a8b1483**
 - 1.209.1 Available under license
- 1.210 github.com/gosnmp/gosnmp 1.31.0**
 - 1.210.1 Available under license
- 1.211 x-crypto 0.0.0-20220214200702-86341886e292**
 - 1.211.1 Available under license
- 1.212 github.com/influxdata/kapacitor 1.5.8-rc0**
 - 1.212.1 Available under license
- 1.213 etcd-client 3.5.2**
 - 1.213.1 Available under license
- 1.214 etcd-client-pkg 3.5.2**
 - 1.214.1 Available under license
- 1.215 etcd 3.5.2**
 - 1.215.1 Available under license
- 1.216 line-protocol 0.0.0-20200327222509-2487e7298839**
 - 1.216.1 Available under license
- 1.217 google-go-cmp 0.5.7**
 - 1.217.1 Available under license
- 1.218 github.com/go-zookeeper/zk 1.0.2**
 - 1.218.1 Available under license
- 1.219 github.com/antchfx/xmlquery 1.3.9**
 - 1.219.1 Available under license
- 1.220 googlecloudgobigquery 1.8.0**
 - 1.220.1 Available under license
- 1.221 antchfx-xmlquery 1.3.9**
 - 1.221.1 Available under license
- 1.222 go-bigquery 1.8.0**
 - 1.222.1 Available under license
- 1.223 github.com/aws/aws-sdk-go-v2/internal/endpoints/v2 2.0.0**
 - 1.223.1 Available under license
- 1.224 aws-sdk-go-v2 1.11.0**
 - 1.224.1 Available under license
- 1.225 github.com/aws/aws-sdk-go-v2/internal/configsources 1.1.0**
 - 1.225.1 Available under license
- 1.226 andybalholm-brotli 1.0.4**
 - 1.226.1 Available under license
- 1.227 gabriel-vasile-mimetype 1.4.0**
 - 1.227.1 Available under license

- 1.228 python-setuptools 8.8.0**
 - 1.228.1 Available under license
- 1.229 klauspost-compress 1.15.0**
 - 1.229.1 Available under license
- 1.230 github.com/jedib0t/go-pretty 4.3.0+incompatible**
 - 1.230.1 Available under license
- 1.231 paho.mqtt.golang 1.2.0**
 - 1.231.1 Available under license
- 1.232 py3-retrying 1.3.3-r3**
 - 1.232.1 Available under license
- 1.233 gdbm 1.23-r0**
 - 1.233.1 Available under license
- 1.234 klauspost-compress 1.15.0**
 - 1.234.1 Available under license
- 1.235 collectd 0.3.0**
 - 1.235.1 Available under license
- 1.236 github.com/k-sone/snmpgo 3.2.0+incompatible**
 - 1.236.1 Available under license
- 1.237 k-sone-snmpgo 3.2.0+incompatible**
 - 1.237.1 Available under license
- 1.238 reflectwalk 1.0.1**
 - 1.238.1 Available under license
- 1.239 xxhash 1.1.0**
 - 1.239.1 Available under license
- 1.240 jackc-pgtype 1.10.0**
 - 1.240.1 Available under license
- 1.241 jackc-pgx 4.15.0**
 - 1.241.1 Available under license
- 1.242 jackc-pgconn 1.11.0**
 - 1.242.1 Available under license
- 1.243 jinja2 3.1.2**
 - 1.243.1 Available under license
- 1.244 apache-arrow-go-arrow 0.0.0-20211112161151-bc219186db40**
 - 1.244.1 Available under license
- 1.245 retrying 1.3.3**
 - 1.245.1 Available under license
- 1.246 prometheus-client 1.12.1**
 - 1.246.1 Available under license
- 1.247 procfs 0.7.3**

- 1.247.1 Available under license
- 1.248 go-rootcerts 1.0.2**
 - 1.248.1 Available under license
- 1.249 blang-semver 3.5.1+incompatible**
 - 1.249.1 Available under license
- 1.250 logrus 1.8.1**
 - 1.250.1 Available under license
- 1.251 go-resiliency 1.2.0**
 - 1.251.1 Available under license
- 1.252 color 1.9.0**
 - 1.252.1 Available under license
- 1.253 groupcache 0.0.0-20200121045136-8c9f03a8e57e**
 - 1.253.1 Available under license
- 1.254 gojsonschema 1.2.0**
 - 1.254.1 Available under license
- 1.255 fsnotify 1.4.7**
 - 1.255.1 Available under license
- 1.256 gojsonpointer 0.0.0-20180127040702-4e3ac2762d5f**
 - 1.256.1 Available under license
- 1.257 go-colorable 0.1.8**
 - 1.257.1 Available under license
- 1.258 influxdb 1.9.6**
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1.2 ghodss-yaml 1.0.0

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1.5 msgp 1.1.0

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1.8 coreos-semver 0.3.0

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1.9 mitchellh-copystucture 1.0.0

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1.10 go-kit 0.10.0

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1.11 jpillora-backoff 1.0.0

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1.12 nuid 1.0.1

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1.13 bytearraypool 1.0.0

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1.14 go-runewidth 0.0.9

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1.15 go-md2man 2.0.0

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1.16 tre 0.8.0

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1.17 go-runewidth 0.0.3

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1.18 nose 1.3.7

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1.19 benbjohnson-clock 1.1.0

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1.20 queue 1.1.0

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1.21 scram 0.0.0-20180814205039-7eeb5667e42c

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1.23 murmur 0.0.0-20180118202830-f09979ecbc72

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1.26 pq 1.2.0

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

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1.33 armon-go-metrics 0.3.6

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1.34 zap 1.16.0

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1.35 grpc-go 1.27.0

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1.36 go-units 0.4.0

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1.37 aws-sdk-go 1.38.3

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1.40 gax-go 2.0.5

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1.43 stack 1.8.0

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1.44 visual-studio-runtime 15.9.9(VC++ 2017)

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version 1.2.11, January 15th, 2017

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Bit Twiddling Hacks

By Sean Eron Anderson
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version 1.2.11, January 15th, 2017

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Bit Twiddling Hacks

By Sean Eron Anderson
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```
<Project Sdk="Microsoft.NET.Sdk">
```

```
<PropertyGroup>
```

```
<OutputType>Exe</OutputType>
```

```
<ApplicationManifest>App.manifest</ApplicationManifest>
```

```
</PropertyGroup>
```

```
<ItemGroup>
```

```
<Compile Include="Program.cs" />
```

```
<Compile Include="..\..\ServerContracts/Server.CoClasses.cs" />
```

```
<Compile Include="..\..\ServerContracts/Server.Contracts.cs" />
```

```
<Compile Include="..\..\ServerContracts/ServerGuids.cs" />
```

```
</ItemGroup>
```

```
<ItemGroup>
```

```
<ProjectReference Include="..\..\NativeServer/CMakeLists.txt" />
```

```
<ProjectReference Include="$(TestSourceDir)Common/CoreCLRTestLibrary/CoreCLRTestLibrary.csproj" />
```

```
</ItemGroup>
```

```
</Project>
```

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1.57 dimchansky-utfbom 1.1.0

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1.74 go-zookeeper-zk 1.0.2

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

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1.77 fsnotify-fsnotify 1.4.7

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1.78 json-iterator-go 1.1.11

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1.79 mwitkow-go-contrack 0.0.0-20190716064945-2f068394615f

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1.80 structured-merge-diff 4.1.0

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1.81 x-crypto 0.0.0-20210616213533- 5ff15b29337e

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1.83 zap 1.17.0

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1.84 xxhash 2.1.2

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1.85 go-hclog 0.14.1

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1.86 sanitized-anchor-name 1.0.0

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1.87 x-sync 0.0.0-20210220032951-036812b2e83c

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1.88 go-autorest-adal 0.9.13

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1.89 x-xerrors 0.0.0-20200804184101- 5ec99f83aff1

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1.90 x-text 0.3.7

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1.91 klauspost-compress 1.13.6

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1.92 json-iterator-go 1.1.10

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1.93 evanphx-json-patch 4.9.0+incompatible

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1.94 alecthomas-kingpin 2.2.6

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1.95 prometheus-common 0.20.0

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1.96 miekg-dns 1.1.41

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1.97 googleapis-gnostic 0.4.1

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1.100 kubernetes-client 0.21.0

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1.101 xdg-scrum 0.0.0-20180814205039-7eeb5667e42c

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1.102 go.etcd.io-bbolt 1.3.5

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1.103 go-ieproxy 0.0.1

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1.104 go-autorest-cli 0.4.2

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1.105 sap-go-hdb 0.14.1

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1.108 xdg-stringprep 1.0.0

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1.109 golang-sql-civil 0.0.0-20190719163853-cb61b32ac6fe

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1.110 azure-pipeline-go 0.2.3

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1.111 sergi-go-diff 1.0.0

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

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Protocol Buffers for Go with Gadgets

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

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1.114 urfave-cli 1.20.0

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Found in path(s):

```
* /opt/cola/permits/1212966988_1633989798.74/0/cas-client-support-saml-3-4-1-sources-
jar/org/jasig/cas/client/validation/Saml11TicketValidationFilter.java
*
/opt/cola/permits/1212966988_1633989798.74/0/cas-client-support-saml-3-4-1-sources-
jar/org/jasig/cas/client/util/SamlUtils.java
* /opt/cola/permits/1212966988_1633989798.74/0/cas-client-support-saml-3-4-1-sources-
jar/org/jasig/cas/client/validation/Saml11TicketValidator.java
* /opt/cola/permits/1212966988_1633989798.74/0/cas-client-support-saml-3-4-1-sources-
jar/org/jasig/cas/client/authentication/Saml11AuthenticationFilter.java
```

1.115 geo 0.0.0-20190916061304-5b978397cfec

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1.116 go-openapi-errors 0.19.9

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1.117 go-openapi-strfmt 0.20.0

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1.118 go-connections 0.4.0

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1.119 influxdata-kapacitor 1.5.8-rc0

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```

package spec

```
// License information for the exposed API.  
//  
// For more information: http://goo.gl/8us55a#licenseObject  
type License struct {  
    Name string `json:"name,omitempty"`  
    URL string `json:"url,omitempty"`  
}  
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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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

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1.122 globalsign-mgo 0.0.0-20181015135952-eeefdecbb41b8

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1.123 influxdb 1.9.4

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1.124 mgo 0.0.0-20181015135952- eeefdec b41b8

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1.125 profile 1.6.0

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1.126 uuid 1.3.0

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1.127 golang-snappy 0.0.4

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1.128 go.mongodb.org-mongo-driver 1.5.1

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1.129 pierrec-lz4 2.6.1+incompatible

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1.130 logfmt 0.5.0

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1.131 influxdata-line-protocol 0.0.0-20200327222509-2487e7298839

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1.132 lumberjack 2.0.0

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1.133 kubernetes-klog 2.8.0

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1.134 treeprint 1.0.0

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1.135 nkeys 0.3.0

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1.136 go-mssqldb 0.10.0

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1.137 cloud-google-com-go 0.82.0

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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"  
  
    computepb "cloud.google.com/go/compute/apiv1/computepb"  
    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"  
    "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,
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    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: Connections are now pooled so this method does not always
// return the same resource.
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, "gapi", 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: This method always returns nil.
func (c *licensesRESTClient) Connection()
*grpc.ClientConn {
return nil
}

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

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

baseUrl.RawQuery = params.Encode()

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

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

```

```

httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
if err != nil {
    return err
}
httpReq = httpReq.WithContext(ctx)
httpReq.Header = headers

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

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

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

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

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

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
// who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {

```

```

return nil, err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

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

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

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

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

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

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

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

```

```

return resp, nil
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource
exists. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace
images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

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

    baseUrl.RawQuery = params.Encode()

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

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

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

```

```

defer httpRsp.Body.Close()

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

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

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

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

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

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

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

    baseUrl.RawQuery = params.Encode()

```

```

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

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

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

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

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

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

return
nil
}, opts...)
if e != nil {
return nil, e
}
op := &Operation{
&globalOperationsHandle{
c: c.operationClient,

```

```

    proto: resp,
    project: req.GetProject(),
  },
}
return op, nil
}

```

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

```

func (c *licensesRESTClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts
...gax.CallOption) *LicenseIterator {
  it := &LicenseIterator{}
  req = proto.Clone(req).(*computepb.ListLicensesRequest)
  unmarshalOptions := 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...)
    unmarshalOptions := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.Policy{}
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings)
error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path

```

```

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

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

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

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

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

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

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

    baseUrl, err := url.Parse(c.endpoint)

```

```

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

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

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

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

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

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

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

    return nil
}

```

```

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

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

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

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

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

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

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

```

```
}  
  
func (it *LicenseIterator) takeBuf() interface{} {  
    b := it.items  
    it.items = nil  
    return b  
}
```

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```

```
package compute
```

```
import (
```

```
    "bytes"
```

```
    "context"
```

```
    "fmt"
```

```
    "io/ioutil"
```

```

"net/http"
"net/url"

computepb "cloud.google.com/go/compute/apiv1/computepb"
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"
"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: Connections are now pooled so this method does not always
// return the same resource.
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, "gaptic", 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: This method always returns nil.
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 := unmarshal(buf, resp); err != nil {
    return maybeUnknownEnum(err)
}

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

```

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```

func (c *licenseCodesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetTestPermissionsRequestResource()
    jsonReq,
    err := m.Marshal(body)
    if err != nil {
        return nil, err
    }
}

```

```

baseUrl, err := url.Parse(c.endpoint)
if err != nil {

```

```

return nil, err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v/testIamPermissions",
req.GetProject(), req.GetResource())

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

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

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

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

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

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

return nil
}, opts...)

```

```
if e != nil {
    return nil, e
}
return resp, nil
}
```

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```

package compute_test

import (
    "context"

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

func ExampleNewLicensesRESTClient() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will
    require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c
}

func ExampleLicensesClient_Delete() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    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/cloud.google.com/go/compute/apiv1/computepb#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()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    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/cloud.google.com/go/compute/apiv1/compute#GetLicenseRequest.
    }
    resp,
    err := c.Get(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    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/cloud.google.com/go/compute/apiv1/compute#GetIamPolicyLicenseRequest.
}
resp, err := c.GetIamPolicy(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

```

```

func ExampleLicensesClient_Insert()
{
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    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/cloud.google.com/go/compute/apiv1/compute#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()
    // This snippet has been automatically generated and should be regarded as a code template
    // only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.

```

```

// - It may require specifying regional endpoints when creating the service client as shown in:
// https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &computepb.ListLicensesRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#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()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range
    values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    // https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.SetIamPolicyLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#SetIamPolicyLicenseRequest.
    }
    resp, err := c.SetIamPolicy(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
}

```

```

// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown
    // in:
    // https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    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/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseRequest.
    }
    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"
computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleNewLicenseCodesRESTClient() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    //
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c
}

func ExampleLicenseCodesClient_Get() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    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/cloud.google.com/go/compute/apiv1/computepb#GetLicenseCodeRequest.
    }
    resp, err := c.Get(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

```

```

}

func ExampleLicenseCodesClient_TestIamPermissions() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    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/cloud.google.com/go/compute/apiv1/compute#TestIamPermissionsLicenseCodeRequest.
    }
    resp,
    err := c.TestIamPermissions(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

```

1.138 google-api-go-client 0.47.0

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1.139 x-term 0.0.0-20210927222741-03fcf44c2211

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1.140 sqlx 1.3.4

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1.141 golang 1.13.8

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```
# This is the official list of people who can contribute
# (and typically have contributed) code to the Go repository.
# 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.
#
# Names should be added to this file only after verifying that
# the individual or the individual's organization has agreed to
# the appropriate Contributor License Agreement, found here:
#
# http://code.google.com/legal/individual-cla-v1.0.html
# http://code.google.com/legal/corporate-cla-v1.0.html
#
# The agreement for individuals can be filled out on the web.

# Names should be added to this file like so:
# Individual's name <submission email address>
# Individual's name <submission email address> <email2> <emailN>
#
# An entry with multiple email addresses specifies that the
# first address should be used in the submit logs and
# that the other addresses should be recognized
# as the
# same person when interacting with Gerrit.

# Please keep the list sorted.
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1.146 form3tech-oss-jwt-go

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1.147 golang-set 1.7.1

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1.148 go-autorest-auth 0.5.3

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1.149 importlib-resources 5.4.0

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1.150 prometheus-common 0.32.1

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1.151 alpine-keys 2.4-r1

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1.152 gnostic 0.4.1

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1.153 clientmodel 0.2.0

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1.156 klog 2.8.0

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1.158 semver 3.5.1+incompatible

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1.159 githubcommoderngorelect2 1.0.1

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1.160 x-time 0.0.0-20210220033141-f8bda1e9f3ba

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1.161 coreos-go-semver 0.3.0

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1.162 githubcommatngoisatty 0.0.12

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1.164 google-golang-org-grpc 1.29.1

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1.165 image-spec 1.0.1

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1.166 github.com/dlintw/goconf 0.0.0-20120228082610-dcc070983490

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1.167 github.com/mattn/gocolorable 0.1.8

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1.168 x-sys 0.0.0-20211216021012-1d35b9e2eb4e

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1.169 compress 1.13.6

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1.178 github.com/golang-sql/civil 0.0.0-20190719163853-cb61b32ac6fe

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1.179 github.com/jackc/pgservicefile 0.0.0-20200714003250-2b9c44734f2b

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1.180 go-kit-kit 0.10.0

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1.181 go-etcd-io-bbolt 1.3.5

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1.182 utfbom 1.1.0

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1.183 github.com/antchfx/xpath 1.2.0

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1.184 aws-smithy-go 1.9.0

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1.185 antchfx-xpath 1.2.0

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1.186 githubcomgoopenapierrors 0.19.9

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1.187 githubcomgoopenapistrfmt 0.20.0

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1.188 github.com/golang-jwt/jwt

3.2.2+incompatible

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1.189 prometheus-client 1.10.0

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1.190 github.com/benbjohnson/clock 1.1.0

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1.191 supervisor 4.2.4

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1.192 deckarep-golang-set 1.7.1

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1.193 github.com/influxdata/influxdb-client-go/v2 2.3.1-0.20210518120617-5d1fff431040

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1.194 github.com/deepmap/oapi-codegen

1.6.0

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1.195 go-diff 1.0.0

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1.196 cli 2.3.0

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1.197 deepmap-oapi-codegen 1.6.0

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1.198 go-immutable-radix 1.3.1

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1.199 toml 0.4.1

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1.200 spaolacci-murmur3 0.0.0-

20180118202830-f09979ecbc72

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1.201 fwd 1.0.0

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 */
```

Found in path(s):

```
* /opt/cola/permits/1256763098_1642736585.55/0/onos-app-fwd-1-0-0-sources-jar/org/onosproject/fwd/package-info.java
* /opt/cola/permits/1256763098_1642736585.55/0/onos-app-fwd-1-0-0-sources-jar/org/onosproject/fwd/ReactiveForwarding.java
```

1.202 lib-pq 1.10.4

1.202.1 Available under license :

```
//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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1.203 jedib0t-go-pretty 4.3.0+incompatible

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BSON library for Go

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mgo - MongoDB driver for Go

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1.204 jackc-pgproto 2.2.0

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1.205 grpc-go 1.44.0

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1.206 importlib-metadata 4.11.1

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1.207 gopkg.in/urfave/cli.v1 1.20.0

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1.208 pq 1.10.4

1.208.1 Available under license :

```
//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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1.209 nats-go 1.13.1-0.20211018182449-f2416a8b1483

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1.210 github.com/gosnmp/gosnmp 1.31.0

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1.211 x-crypto 0.0.0-20220214200702-86341886e292

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1.212 github.com/influxdata/kapacitor 1.5.8-rc0

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=====

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// License information for the exposed API.

//

// For more information: <http://goo.gl/8us55a#licenseObject>

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 Name string `json:"name,omitempty"`

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Go support for leveled logs, analogous to

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

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DNS library in

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

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1.213 etcd-client 3.5.2

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1.214 etcd-client-pkg 3.5.2

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1.216 line-protocol 0.0.0-20200327222509-2487e7298839

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1.217 google-go-cmp 0.5.7

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1.218 github.com/go-zookeeper/zk 1.0.2

1.218.1 Available under license :

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1.219 github.com/antchfx/xmlquery 1.3.9

1.219.1 Available under license :

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1.220 googlecloudgobigquery 1.8.0

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// limitations under the License.

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

package compute

import (
    "bytes"
    "context"
    "fmt"
    "io"
    "math"
    "net/http"
    "net/url"
    "time"

    computepb "cloud.google.com/go/compute/apiv1/computepb"
    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"
    "google.golang.org/grpc"
    "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{
gax.WithTimeout(600000 * time.Millisecond),
},
Get: []gax.CallOption{
gax.WithTimeout(600000 * time.Millisecond),
gax.WithRetry(func() gax.Retryer {
return gax.OnHTTPCodes(gax.Backoff{
Initial: 100 * time.Millisecond,
Max: 60000 * time.Millisecond,
Multiplier: 1.30,
}),
http.StatusGatewayTimeout,
http.StatusServiceUnavailable)
}),
},
GetIamPolicy:
[]gax.CallOption{
gax.WithTimeout(600000 * time.Millisecond),
gax.WithRetry(func() gax.Retryer {
return gax.OnHTTPCodes(gax.Backoff{
Initial: 100 * time.Millisecond,
Max: 60000 * time.Millisecond,
Multiplier: 1.30,
}),
http.StatusGatewayTimeout,
http.StatusServiceUnavailable)
}),
},
Insert: []gax.CallOption{
gax.WithTimeout(600000 * time.Millisecond),
},
List: []gax.CallOption{
gax.WithTimeout(600000 * time.Millisecond),
gax.WithRetry(func() gax.Retryer {
return gax.OnHTTPCodes(gax.Backoff{
Initial: 100 * time.Millisecond,
Max: 60000 * time.Millisecond,
Multiplier: 1.30,
}),
},
}

```

```

    http.StatusGatewayTimeout,
    http.StatusServiceUnavailable)
  }),
},
SetIamPolicy: []gax.CallOption{
  gax.WithTimeout(600000 * time.Millisecond),
},
TestIamPermissions: []gax.CallOption{
  gax.WithTimeout(600000
* time.Millisecond),
},
}
}

```

```

// 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: Connections are now pooled so this method does not always
// return the same resource.
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-* headers to be sent with each request.
    xGoogHeaders []string

    // 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", gax.GoVersion}, keyval...)
kv = append(kv, "gopic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
c.xGoogHeaders = []string{"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: This method always returns
// nil.
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.
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense()))}

    hds = append(c.xGoogHeaders, hds...)
    hds
    = append(hds, "Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    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 := io.ReadAll(httpRsp.Body)
    if err != nil {
        return err
    }

    if err := unmarshal(buf, resp); err != nil {
        return 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.
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense()))}

    hds = append(c.xGoogHeaders, hds...)
    hds = append(hds, "Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx,
hds...)
    opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
    unmarshalOptions := 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

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

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

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

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

```

    }

    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.
  hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
  url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

  hds
  = append(c.xGoogHeaders, hds...)
  hds = append(hds, "Content-Type", "application/json")
  headers := gax.BuildHeaders(ctx, hds...)
  opts =
  append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
  opts...)
  unmarshalOptions := 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 := io.ReadAll(httpRsp.Body)
if err != nil {
    return err
}

if err := unmarshal(buf, resp); err != nil {
    return 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 *compute.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.
hds := []string{"x-goog-request-params", fmt.Sprintf("s=%v",
"project", url.QueryEscape(req.GetProject()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &compute.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 := io.ReadAll(httpRsp.Body)
    if err != nil {
        return
    }
    err
}

if err := unm.Unmarshal(buf, resp); err != nil {
    return 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)
  unmarshalOptions := 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.
hds := append(c.xGoogHeaders, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
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 := io.ReadAll(httpRsp.Body)
    if err != nil {
        return
    }
err
}

if err := unm.Unmarshal(buf, resp); err != nil {
    return 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.
  hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

```



```

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

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

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

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

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

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

```

```

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

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

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

    hds = append(c.xGoogHeaders, hds...)
    hds = append(hds, "Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    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 := io.ReadAll(httpRsp.Body)
if err != nil {
    return err
}

if err := unmarshal(buf, resp); err != nil {
    return err
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}
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// limitations under the License.

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

package compute

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

```

```

computepb "cloud.google.com/go/compute/apiv1/computepb"
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"
"google.golang.org/grpc"
"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{
        gax.WithTimeout(600000 * time.Millisecond),
        gax.WithRetry(func() gax.Retryer {
            return gax.OnHTTPCodes(gax.Backoff{
                Initial: 100 * time.Millisecond,
                Max: 60000 * time.Millisecond,
                Multiplier: 1.30,
            },
                http.StatusGatewayTimeout,
                http.StatusServiceUnavailable)
        }),
    },
    TestIamPermissions: []gax.CallOption{
        gax.WithTimeout(600000 * time.Millisecond),
    },
}
}

// 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: Connections are now pooled so this method does not always
// return the same resource.
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-* headers to be sent with each request.
    xGoogHeaders []string

    // 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", gax.GoVersion}, keyval...)
kv = append(kv, "gpic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
c.xGoogHeaders = []string{"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: This method always returns nil.
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.
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license_code", url.QueryEscape(req.GetLicenseCode()))}

```

```

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
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 := io.ReadAll(httpRsp.Body)
    if err != nil {
        return err
    }

    if err := unm.Unmarshal(buf, resp); err != nil {
        return 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.
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

    hds = append(c.xGoogHeaders, hds...)
    hds = append(hds, "Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    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 := io.ReadAll(httpRsp.Body)
if err != nil {
    return err
}

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

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

```

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```
package compute_test
```

```
import (  
    "context"
```

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

```
func ExampleNewLicensesRESTClient() {
```

```
    ctx := context.Background()
```

```
    // This snippet has been automatically generated and should be regarded as a code template only.
```

```
    // It will
```

```

require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
// https://pkg.go.dev/cloud.google.com/go#hdr-Client\_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

// TODO: Use client.
_ = c
}

func ExampleLicensesClient_Delete() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    // https://pkg.go.dev/cloud.google.com/go#hdr-Client\_Options
    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/cloud.google.com/go/compute/apiv1/computepb#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()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.

```



```

// - It may require specifying regional endpoints when creating the service client as shown in:
// https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
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/cloud.google.com/go/compute/apiv1/compute#GetLicenseRequest.
}
resp,
err := c.Get(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    // https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    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/cloud.google.com/go/compute/apiv1/compute#GetIamPolicyLicenseRequest.
    }
    resp, err := c.GetIamPolicy(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicensesClient_Insert()

```

```

{
ctx := context.Background()
// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
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/cloud.google.com/go/compute/apiv1/computepb#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()
// This snippet has been automatically generated and should be regarded as a code template
only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
// TODO: Handle error.
}
defer c.Close()

req := &computepb.ListLicensesRequest{
// TODO: Fill request struct fields.
// See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#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()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range
    values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    // https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.SetIamPolicyLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#SetIamPolicyLicenseRequest.
    }
    resp, err := c.SetIamPolicy(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown
    in:
    // https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    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/cloud.google.com/go/compute/apiv1/compute#TestIamPermissionsLicenseRequest.
}
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"
computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleNewLicenseCodesRESTClient() {
ctx := context.Background()
// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications to work:
//
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
// https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options

```

```

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

// TODO: Use client.
_ = c
}

func ExampleLicenseCodesClient_Get() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.GetLicenseCodeRequest{
        // TODO: Fill request
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseCodeRequest.
    }
    resp, err := c.Get(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    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/cloud.google.com/go/compute/apiv1/compute#TestIamPermissionsLicenseCodeRequest.
}
resp,
err := c.TestIamPermissions(ctx, req)
if err != nil {
// TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

```

1.221 antchfx-xmlquery 1.3.9

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1.222 go-bigquery 1.8.0

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```

```
package cloud
```

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

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

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

```
    if ext := filepath.Ext(path);  
    ext != ".go" && ext != ".proto" {  
        return nil  
    }
```

```
    if strings.HasSuffix(path, ".pb.go") {  
        // .pb.go files are generated from the proto files.  
        // .proto files must have license headers.  
        return nil  
    }
```

```
    if path == "bigtable/cmd/cbt/cbt doc.go" {  
        // Automatically generated.  
        return nil  
    }
```

```
    if path == "cmd/go-cloud-debug-agent/internal/debug/elf/elf.go" {  
        // BSD license, which is compatible, is embedded in the file.  
        return nil  
    }
```

```

src, err := ioutil.ReadFile(path)
if err != nil {
    return nil
}
src = src[:300] // Ensure all of the sentinel values are at the top of the file.

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

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

```

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END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

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1.223 github.com/aws/aws-sdk-go-v2/internal/endpoints/v2 2.0.0

1.223.1 Available under license :

```
// Code generated by smithy-go-codegen DO NOT EDIT.
```

```
package licensemanager
```

```

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
    if params == nil {
        params = &ListReceivedLicensesInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*ListReceivedLicensesOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type ListReceivedLicensesInput struct {

    // Filters to scope the results. The following filters are supported:
    //
    //
    // *
    // ProductSKU
    //
    // * Status
    //
    // * Fingerprint
    //
    // * IssuerName
    //
    // * Beneficiary
    Filters []types.Filter

    // Amazon Resource Names (ARNs) of the licenses.
    LicenseArns []string

```

```

// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string

noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

// Received license details.
Licenses []types.GrantedLicense

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{ }, middleware.After)
if err != nil {
return
err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}

```

```

}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err !=
nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    SigningName: "license-manager",
    OperationName: "ListReceivedLicenses",
}
}
}

```

```

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
    if params == nil {
        params = &CheckoutBorrowLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CheckoutBorrowLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CheckoutBorrowLicenseInput struct {

    // Unique, case-sensitive identifier that you
    // provide to ensure the idempotency of
    // the request.
    //
    // This member is required.
    ClientToken *string

    // Digital signature method. The possible value is JSON Web Signature (JWS)
    // algorithm PS384. For more information, see RFC 7518 Digital Signature with
    // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5).
    //
    // This member is required.
    DigitalSignatureMethod types.DigitalSignatureMethod

    // License entitlements. Partial checkouts are not supported.

```



```

//
// This member is required.
Entitlements []types.EntitlementData

// Amazon Resource Name (ARN) of the license. The license must use the borrow
// consumption configuration.
//
// This member is required.
LicenseArn *string

// Information about constraints.
CheckoutMetadata []types.Metadata

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

// Information about constraints.
CheckoutMetadata []types.Metadata

// Allowed license entitlements.
EntitlementsAllowed
[]types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

```

```

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
}

```

```

if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err
= stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    SigningName: "license-manager",
    OperationName: "CheckoutBorrowLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
    if params == nil {

```

```

    params = &CheckInLicenseInput{ }
}

result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
if err != nil {
    return nil, err
}

out := result.(*CheckInLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type CheckInLicenseInput struct {

    // License consumption token.
    //
    // This member is required.
    LicenseConsumptionToken *string

    // License beneficiary.
    Beneficiary
    *string

    noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata

    noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {

```

```

return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack,
options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil

```

```

{
  return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
  return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    SigningName: "license-manager",
    OperationName: "CheckInLicense",
  }
}
name: License Scan

on: [pull_request]

jobs:
  licensescan:
    name: License Scan
    runs-on: ubuntu-latest
    strategy:
      matrix:
        python-version: [3.9]

    steps:
      - name: Checkout target
        uses: actions/checkout@v2
        with:
          path: sdkbase
          ref: ${ github.base_ref }
      - name: Checkout this ref
        uses: actions/checkout@v2
        with:
          path: new-ref
          fetch-depth: 0
      - name: Get Diff
        run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${ github.event.pull_request.base.sha }
        ${{ github.sha }} > refDiffFiles.txt
      - name: Get Target Files
        run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
      - name: Checkout scancode
        uses: actions/checkout@v2
        with:
          repository: nexB/scancode-toolkit
          path: scancode-toolkit

```

```

    fetch-depth: 1
  - name: Set up Python ${ { matrix.python-version } }
    uses: actions/setup-python@v2
    with:
      python-version: ${ { matrix.python-version } }
  # ScanCode
  - name: Self-configure scancode
    working-directory: ./scancode-toolkit
    run: ./scancode --help
  - name: Run Scan code on target
    run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
  - name: Run Scan code on pr ref
    run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
  # compare
  - name: License test
    run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

```

package licensemanager

```

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
    if params == nil {
        params = &CreateLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CreateLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

```

```

}

type CreateLicenseInput struct {

    // License beneficiary.
    //
    // This member is required.
    Beneficiary *string

    // Unique, case-sensitive identifier that you provide to ensure
    the idempotency of
    // the request.
    //
    // This member is required.
    ClientToken *string

    // Configuration for consumption of the license. Choose a provisional configuration
    // for workloads running with continuous connectivity. Choose a borrow
    // configuration for workloads with offline usage.
    //
    // This member is required.
    ConsumptionConfiguration *types.ConsumptionConfiguration

    // License entitlements.
    //
    // This member is required.
    Entitlements []types.Entitlement

    // Home Region for the license.
    //
    // This member is required.
    HomeRegion *string

    // License issuer.
    //
    // This member is required.
    Issuer *types.Issuer

    // License name.
    //
    // This member is required.
    LicenseName *string

    // Product name.
    //
    // This member is required.
    ProductName *string

```



```

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange

//
// Information about the license.
LicenseMetadata []types.Metadata

noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License status.
Status types.LicenseStatus

// License version.
Version *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
}

```

```

}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack);
err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
    return
err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}

```

```

    }
    return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:    region,
        ServiceID: ServiceID,
        SigningName: "license-manager",
        OperationName: "CreateLicense",
    }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/grafana/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
    if params == nil {
        params = &DisassociateLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*DisassociateLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type DisassociateLicenseInput struct {

    // The type of license to remove from the workspace.
    //
    // This

```

```

member is required.
LicenseType types.LicenseType

// The ID of the workspace to remove the Grafana Enterprise license from.
//
// This member is required.
WorkspaceId *string

noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

// A structure containing information about the workspace.
//
// This member is required.
Workspace *types.WorkspaceDescription

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {

```

```

return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region:    region,
ServiceID: ServiceID,
SigningName: "grafana",
}
}

```

```

    OperationName: "DisassociateLicense",
  }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
    if params == nil {
        params = &GetLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*GetLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type GetLicenseInput struct {

    // Amazon Resource Name (ARN) of the license.
    //
    // This member is required.
    LicenseArn *string

    // License version.
    Version
    *string

    noSmithyDocumentSerde
}

```

```

type GetLicenseOutput struct {

    // License details.
    License *types.License

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata

    noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if
    err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = addHTTPSignerV4Middleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
        return err
    }
    if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
        return err
    }
}

```

```

if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack,
options); err != nil {
    return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    SigningName: "license-manager",
    OperationName: "GetLicense",
}
}

```

AWS SDK for Go

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// Code generated by smithy-go-codegen DO NOT EDIT.

```
package licensemanager
```

```

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"

```



```

"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
    if params == nil {
        params = &CheckoutLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CheckoutLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CheckoutLicenseInput struct {

    // Checkout type.
    //
    // This member is required.
    CheckoutType types.CheckoutType

    // Unique, case-sensitive
    identifier that you provide to ensure the idempotency of
    // the request.
    //
    // This member is required.
    ClientToken *string

    // License entitlements.
    //
    // This member is required.
    Entitlements []types.EntitlementData

    // Key fingerprint identifying the license.
    //
    // This member is required.
    KeyFingerprint *string

    // Product SKU.

```

```

//
// This member is required.
ProductSKU *string

// License beneficiary.
Beneficiary *string

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

// Checkout type.
CheckoutType types.CheckoutType

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the checkout license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

//
// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{ }, middleware.After)

```

```

if err != nil {
    return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{ }, middleware.After)
if err != nil {
    return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err
!= nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),

```

```

middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return
nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    SigningName: "license-manager",
    OperationName: "CheckoutLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
    if params == nil {
        params = &ListLicensesInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
    if err != nil {

```

```

    return nil, err
}

out := result.(*ListLicensesOutput)
out.ResultMetadata = metadata
return out, nil
}

type ListLicensesInput struct {

    // Filters to scope the results. The following filters are supported:
    //
    // *
    // Beneficiary
    //
    // * ProductSKU
    //
    // * Fingerprint
    //
    //
    * Status
    Filters []types.Filter

    // Amazon Resource Names (ARNs) of the licenses.
    LicenseArns []string

    // Maximum number of results to return in a single call.
    MaxResults *int32

    // Token for the next set of results.
    NextToken *string

    noSmithyDocumentSerde
}

type ListLicensesOutput struct {

    // License details.
    Licenses []types.License

    // Token for the next set of results.
    NextToken *string

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata

    noSmithyDocumentSerde
}

```

```

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{ }, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
    err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = addHTTPSignerV4Middleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
        return err
    }
    if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
        return err
    }
    if err = addClientUserAgent(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
        return err
    }
    if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);

```

```

err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    SigningName: "license-manager",
    OperationName: "ListLicenses",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
    if params == nil {
        params = &DeleteLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
    if err != nil {
        return nil, err
    }
}

```

```

out := result.(*DeleteLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type DeleteLicenseInput struct {

    // Amazon Resource Name (ARN) of the license.
    //
    // This member is required.
    LicenseArn *string

    // Current version of the
    license.
    //
    // This member is required.
    SourceVersion *string

    noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

    // Date when the license is deleted.
    DeletionDate *string

    // License status.
    Status types.LicenseDeletionStatus

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata

    noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
}

```



```

if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack,
options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack);
err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
}

```

```
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}
```

```
func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:    region,
        ServiceID: ServiceID,
        SigningName: "license-manager",
        OperationName: "DeleteLicense",
    }
}
```

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```
package grafana
```

```
import (  
    "context"  
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"  
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"  
    "github.com/aws/aws-sdk-go-v2/service/grafana/types"  
    "github.com/aws/smithy-go/middleware"  
    smithyhttp "github.com/aws/smithy-go/transport/http"  
)  
  
// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana  
// Enterprise incurs additional fees. For more information, see Upgrade a workspace  
// to Grafana Enterprise  
// (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html).  
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))  
(*AssociateLicenseOutput, error) {  
    if params == nil {  
        params = &AssociateLicenseInput{}  
    }  
  
    result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,  
c.addOperationAssociateLicenseMiddlewares)  
    if err != nil {  
        return nil, err  
    }  
  
    out  
    := result.(*AssociateLicenseOutput)  
    out.ResultMetadata = metadata  
    return out, nil  
}  
  
type AssociateLicenseInput struct {
```

```

// The type of license to associate with the workspace.
//
// This member is required.
LicenseType types.LicenseType

// The ID of the workspace to associate the license with.
//
// This member is required.
WorkspaceId *string

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}

type AssociateLicenseOutput struct {

// A structure containing data about the workspace.
//
// This member is required.
Workspace *types.WorkspaceDescription

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

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}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{ }, middleware.After)
if
err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
}

```



```

}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
err != nil {
    return err
}
if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{

```

```
Region:    region,
ServiceID: ServiceID,
SigningName: "grafana",
OperationName: "AssociateLicense",
}
}
```

1.224 aws-sdk-go-v2 1.11.0

1.224.1 Available under license :

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1.225 github.com/aws/aws-sdk-go-v2/internal/configsources 1.1.0

1.225.1 Available under license :

```
// Code generated by smithy-go-codegen DO NOT EDIT.
```

```
package licensemanager
```

```
import (  
    "context"  
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
```

```

"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
    if params == nil {
        params = &ListReceivedLicensesInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*ListReceivedLicensesOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type ListReceivedLicensesInput struct {

    // Filters to scope the results. The following filters are supported:
    //
    //
    // *
    // ProductSKU
    //
    // * Status
    //
    // * Fingerprint
    //
    // * IssuerName
    //
    // * Beneficiary
    Filters []types.Filter

    // Amazon Resource Names (ARNs) of the licenses.
    LicenseArns []string

    // Maximum number of results to return in a single call.
    MaxResults *int32

    // Token for the next set of results.

```

```

NextToken *string

noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

// Received license details.
Licenses []types.GrantedLicense

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{ }, middleware.After)
if err != nil {
return
err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
}

```

```

if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err !=
nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    SigningName: "license-manager",
    OperationName: "ListReceivedLicenses",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

```

```

package licensemanager

```

```

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
    if params == nil {
        params = &CheckoutBorrowLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CheckoutBorrowLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CheckoutBorrowLicenseInput struct {

    // Unique, case-sensitive identifier that you
    // provide to ensure the idempotency of
    // the request.
    //
    // This member is required.
    ClientToken *string

    // Digital signature method. The possible value is JSON Web Signature (JWS)
    // algorithm PS384. For more information, see RFC 7518 Digital Signature with
    // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5).
    //
    // This member is required.
    DigitalSignatureMethod types.DigitalSignatureMethod

    // License entitlements. Partial checkouts are not supported.
    //
    // This member is required.
    Entitlements []types.EntitlementData

```

```

// Amazon Resource Name (ARN) of the license. The license must use the borrow
// consumption configuration.
//
// This member is required.
LicenseArn *string

// Information about constraints.
CheckoutMetadata []types.Metadata

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

// Information about constraints.
CheckoutMetadata []types.Metadata

// Allowed license entitlements.
EntitlementsAllowed
[]types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

```



```

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = addHTTPSignerV4Middleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
        return err
    }
    if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
        return err
    }
    if err = addClientUserAgent(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
        return err
    }
    if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {

```

```

    return err
}
if err
= stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    SigningName: "license-manager",
    OperationName: "CheckoutBorrowLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
    if params == nil {
        params = &CheckInLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,

```

```

c.addOperationCheckInLicenseMiddlewares)
if err != nil {
    return nil, err
}

out := result.(*CheckInLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type CheckInLicenseInput struct {

    // License consumption token.
    //
    // This member is required.
    LicenseConsumptionToken *string

    // License beneficiary.
    Beneficiary
    *string

    noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata

    noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
}

```

```

}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack,
options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil
{
    return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
return &awsmiddleware.RegisterServiceMetadata{
Region:    region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "CheckInLicense",
}
}
}

```

name: License Scan

on: [pull_request]

jobs:

licensescan:

name: License Scan

runs-on: ubuntu-latest

strategy:

matrix:

python-version: [3.9]

steps:

- name: Checkout target

uses: actions/checkout@v2

with:

path: sdkbase

ref: \${{ github.base_ref }}

- name: Checkout this ref

uses: actions/checkout@v2

with:

path: new-ref

fetch-depth: 0

- name: Get Diff

run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT \${{ github.event.pull_request.base.sha }}
\${{ github.sha }} > refDiffFiles.txt

- name: Get Target Files

run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt

- name: Checkout scancode

uses: actions/checkout@v2

with:

repository: nexB/scancode-toolkit

path: scancode-toolkit

fetch-depth: 1

- name: Set up Python \${{ matrix.python-version }}

uses: actions/setup-python@v2

with:

python-version: \${{ matrix.python-version }}

```

# ScanCode
- name: Self-configure scancode
  working-directory: ./scancode-toolkit
  run: ./scancode --help
- name: Run Scan code on target
  run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
- name: Run Scan code on pr ref
  run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
# compare
- name: License test
  run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

```

```
package licensemanager
```

```

import (
  "context"
  awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
  "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
  "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
  "github.com/aws/smithy-go/middleware"
  smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
  if params == nil {
    params = &CreateLicenseInput{}
  }

  result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
  if err != nil {
    return nil, err
  }

  out := result.(*CreateLicenseOutput)
  out.ResultMetadata = metadata
  return out, nil
}

type CreateLicenseInput struct {

  // License beneficiary.

```

```
//  
// This member is required.  
Beneficiary *string  
  
// Unique, case-sensitive identifier that you provide to ensure  
the idempotency of  
// the request.  
//  
// This member is required.  
ClientToken *string  
  
// Configuration for consumption of the license. Choose a provisional configuration  
// for workloads running with continuous connectivity. Choose a borrow  
// configuration for workloads with offline usage.  
//  
// This member is required.  
ConsumptionConfiguration *types.ConsumptionConfiguration  
  
// License entitlements.  
//  
// This member is required.  
Entitlements []types.Entitlement  
  
// Home Region for the license.  
//  
// This member is required.  
HomeRegion *string  
  
// License issuer.  
//  
// This member is required.  
Issuer *types.Issuer  
  
// License name.  
//  
// This member is required.  
LicenseName *string  
  
// Product name.  
//  
// This member is required.  
ProductName *string  
  
// Product SKU.  
//  
// This member is required.  
ProductSKU *string
```

```

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange

//
Information about the license.
LicenseMetadata []types.Metadata

noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License status.
Status types.LicenseStatus

// License version.
Version *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack);
err != nil {
return err
}
}

```



```

if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
    return
err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {

```

```

return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    SigningName: "license-manager",
    OperationName: "CreateLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/grafana/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
    ..func(*Options)) (*DisassociateLicenseOutput, error) {
    if params == nil {
        params = &DisassociateLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
    c.addOperationDisassociateLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*DisassociateLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type DisassociateLicenseInput struct {

    // The type of license to remove from the workspace.
    //
    // This
    member is required.
    LicenseType types.LicenseType

    // The ID of the workspace to remove the Grafana Enterprise license from.
    //

```

```

// This member is required.
WorkspaceId *string

noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

// A structure containing information about the workspace.
//
// This member is required.
Workspace *types.WorkspaceDescription

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
}

```

```

if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    SigningName: "grafana",
    OperationName: "DisassociateLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

```

```

package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
    if params == nil {
        params = &GetLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*GetLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type GetLicenseInput struct {

    // Amazon Resource Name (ARN) of the license.
    //
    // This member is required.
    LicenseArn *string

    // License version.
    Version
    *string

    noSmithyDocumentSerde
}

type GetLicenseOutput struct {

    // License details.
    License *types.License

```

```

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if
    err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = addHTTPSignerV4Middleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
        return err
    }
    if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
        return err
    }
    if err = addClientUserAgent(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
        return err
    }
}

```

```

}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack,
options); err != nil {
    return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:    region,
        ServiceID: ServiceID,
        SigningName: "license-manager",
        OperationName: "GetLicense",
    }
}

```

AWS SDK for Go

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// Code generated by smithy-go-codegen DO NOT EDIT.

```

package licensemanager

```

```

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

```

```

// Checks out the specified license.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
    if params == nil {
        params = &CheckoutLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CheckoutLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CheckoutLicenseInput struct {

    // Checkout type.
    //
    // This member is required.
    CheckoutType types.CheckoutType

    // Unique, case-sensitive
    identifier that you provide to ensure the idempotency of
    // the request.
    //
    // This member is required.
    ClientToken *string

    // License entitlements.
    //
    // This member is required.
    Entitlements []types.EntitlementData

    // Key fingerprint identifying the license.
    //
    // This member is required.
    KeyFingerprint *string

    // Product SKU.
    //
    // This member is required.
    ProductSKU *string

    // License beneficiary.

```



```

Beneficiary *string

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

// Checkout type.
CheckoutType types.CheckoutType

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the checkout license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

//
Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{ }, middleware.After)
if err != nil {

```

```

return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err
!= nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}

```

```

}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return
nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    SigningName: "license-manager",
    OperationName: "CheckoutLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
    if params == nil {
        params = &ListLicensesInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*ListLicensesOutput)
    out.ResultMetadata = metadata

```

```

return out, nil
}

type ListLicensesInput struct {

    // Filters to scope the results. The following filters are supported:
    //
    // *
    // Beneficiary
    //
    // * ProductSKU
    //
    // * Fingerprint
    //
    //
    * Status
    Filters []types.Filter

    // Amazon Resource Names (ARNs) of the licenses.
    LicenseArns []string

    // Maximum number of results to return in a single call.
    MaxResults *int32

    // Token for the next set of results.
    NextToken *string

    noSmithyDocumentSerde
}

type ListLicensesOutput struct {

    // License details.
    Licenses []types.License

    // Token for the next set of results.
    NextToken *string

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata

    noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{ }, middleware.After)
    if err != nil {
        return err
    }
}

```

```

}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{ }, middleware.After)
if err != nil {
    return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}

```

```

}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    SigningName: "license-manager",
    OperationName: "ListLicenses",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
    if params == nil {
        params = &DeleteLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*DeleteLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

```

```

type DeleteLicenseInput struct {

    // Amazon Resource Name (ARN) of the license.
    //
    // This member is required.
    LicenseArn *string

    // Current version of the
    license.
    //
    // This member is required.
    SourceVersion *string

    noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

    // Date when the license is deleted.
    DeletionDate *string

    // License status.
    Status types.LicenseDeletionStatus

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata

    noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
}

```

```

}
if err = addResolveEndpointMiddleware(stack,
options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack);
err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

```



```
func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    SigningName: "license-manager",
    OperationName: "DeleteLicense",
}
}
```

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// Code generated by smithy-go-codegen DO NOT EDIT.

```
package grafana
```

```
import (  
    "context"  
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"  
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"  
    "github.com/aws/aws-sdk-go-v2/service/grafana/types"  
    "github.com/aws/smithy-go/middleware"  
    smithyhttp "github.com/aws/smithy-go/transport/http"  
)  
  
// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana  
// Enterprise incurs additional fees. For more information, see Upgrade a workspace  
// to Grafana Enterprise  
// (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html).  
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))  
(*AssociateLicenseOutput, error) {  
    if params == nil {  
        params = &AssociateLicenseInput{}  
    }  
  
    result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,  
c.addOperationAssociateLicenseMiddlewares)  
    if err != nil {  
        return nil, err  
    }  
  
    out  
    := result.(*AssociateLicenseOutput)  
    out.ResultMetadata = metadata  
    return out, nil  
}  
  
type AssociateLicenseInput struct {  
  
    // The type of license to associate with the workspace.  
    //  
    // This member is required.  
    LicenseType types.LicenseType
```

```

// The ID of the workspace to associate the license with.
//
// This member is required.
WorkspaceId *string

noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

// A structure containing data about the workspace.
//
// This member is required.
Workspace *types.WorkspaceDescription

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{ }, middleware.After)
if
err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {

```

```

return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
err != nil {
return err
}
if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region:    region,
ServiceID: ServiceID,
SigningName: "grafana",
OperationName: "AssociateLicense",
}
}

```


}

1.226 andybalholm-brotli 1.0.4

1.226.1 Available under license :

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1.227 gabriel-vasile-mimetype 1.4.0

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1.228 python-setuptools 8.8.0

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A. HISTORY OF THE SOFTWARE

=====

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

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

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

Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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

Release from	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
2.3	2.2.2	2002-2003	PSF	yes

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

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1.230 github.com/jedib0t/go-pretty

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1.232 py3-retrying 1.3.3-r3

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1.243 jinja2 3.1.2

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Dynamic NDArray Developers list:

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* Continuum Analytics

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1.247 procs 0.7.3

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1.250 logrus 1.8.1

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1.254 gojsonschema 1.2.0

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1.255 fsnotify 1.4.7

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1.256 gojsonpointer 0.0.0-20180127040702-4e3ac2762d5f

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1.257 go-colorable 0.1.8

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1.258 influxdb 1.9.6

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1.259 golang-jwt 3.2.2+incompatible

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1.260 etcd-client-pkg 3.5.4

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1.261 etcd-client 3.5.4

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1.262 compress 1.15.0

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1.269 busybox 1.35.0

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1.271 survey 2.2.9

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1.272 golang-genproto 0.0.0-20210630183607-d20f26d13c79

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1.273 influxdata-cron 0.0.0-20201006132531-4bb0a200dcbe

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1.274 go-chi-chi 4.1.0+incompatible

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1.275 influxdata-gosnowflake 1.6.9

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1.276 bonitoo-io-go-sql-bigquery 0.3.4-1.4.0

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1.278 apache-arrow-go 7.0.0

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Dynamic NDArray Developers list:

- * Mark Wiebe
- * Continuum Analytics

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

package compute_test

import (

"context"

compute "cloud.google.com/go/compute/apiv1"

computepb "cloud.google.com/go/compute/apiv1/computepb"

"google.golang.org/api/iterator"

)

func ExampleNewLicensesRESTClient() {

ctx := context.Background()

// This snippet has been automatically generated and should be regarded as a code template only.

// It will

require modifications to work:

// - It may require correct/in-range values for request initialization.

// - It may require specifying regional endpoints when creating the service client as shown in:

// https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options

c, err := compute.NewLicensesRESTClient(ctx)

if err != nil {

// TODO: Handle error.

```

}
defer c.Close()

// TODO: Use client.
_ = c
}

func ExampleLicensesClient_Delete() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    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/cloud.google.com/go/compute/apiv1/compute#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()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    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/cloud.google.com/go/compute/apiv1/compute#GetLicenseRequest.
}
resp,
err := c.Get(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    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/cloud.google.com/go/compute/apiv1/compute#GetIamPolicyLicenseRequest.
    }
    resp, err := c.GetIamPolicy(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicensesClient_Insert()
{
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    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/cloud.google.com/go/compute/apiv1/computepb#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()
    // This snippet has been automatically generated and should be regarded as a code template
    // only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.ListLicensesRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#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()
// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range
values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
// https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
// TODO: Handle error.
}
defer c.Close()

req := &computepb.SetIamPolicyLicenseRequest{
// TODO: Fill request struct fields.
// See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#SetIamPolicyLicenseRequest.
}
resp, err := c.SetIamPolicy(ctx, req)
if err != nil {
// TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
ctx := context.Background()
// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown
in:
// https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
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/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseRequest.
}

```

```

resp, err := c.TestIamPermissions(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

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

    computepb "cloud.google.com/go/compute/apiv1/computepb"
    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"
    "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{
            gax.WithRetry(func() gax.Retryer {
                return gax.OnHTTPCodes(gax.Backoff{
                    Initial: 100 * time.Millisecond,
                    Max: 60000 * time.Millisecond,
                    Multiplier: 1.30,
                }),
            http.StatusGatewayTimeout,
            http.StatusServiceUnavailable)
        }),
        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: Connections are now pooled so this method does not always
// return the same resource.
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, "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 *licenseCodesRESTClient) Close() error {
    // Replace httpClient with nil to force cleanup.
    c.httpClient = nil
    return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
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...)
    unmarshalOptions := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown:
true}
    resp := &computepb.LicenseCode{}
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
        if err != nil {
            return err
        }
        httpReq = httpReq.WithContext(ctx)
        httpReq.Header = headers

```

```

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

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

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

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

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

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

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

    // Build HTTP headers from client and context metadata.

```

```

md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))

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

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

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

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

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

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

```

```

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// limitations under the License.

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

package compute_test

import (
    "context"

    compute "cloud.google.com/go/compute/apiv1"
    computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleNewLicenseCodesRESTClient() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    //
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    // https://pkg.go.dev/cloud.google.com/go#hdr-Client\_Options
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c
}

func ExampleLicenseCodesClient_Get() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    //
    // - It may require correct/in-range values for request initialization.

```

```

// - It may require specifying regional endpoints when creating the service client as shown in:
// https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
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/cloud.google.com/go/compute/apiv1/compute#GetLicenseCodeRequest.
}
resp, err := c.Get(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    // https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    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/cloud.google.com/go/compute/apiv1/compute#TestIamPermissionsLicenseCodeRequest.
    }
    resp,
    err := c.TestIamPermissions(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}
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//

```

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// WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
// See the License for the specific language governing permissions and
// limitations under the License.
```

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

```
package compute
```

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

    computepb "cloud.google.com/go/compute/apiv1/computepb"
    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"
    "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{
gax.WithRetry(func() gax.Retryer {
return gax.OnHTTPCodes(gax.Backoff{
Initial: 100 * time.Millisecond,
Max: 60000 * time.Millisecond,
Multiplier: 1.30,
}),
http.StatusGatewayTimeout,
http.StatusServiceUnavailable)
}),
},
GetIamPolicy:
[]gax.CallOption{
gax.WithRetry(func() gax.Retryer {
return gax.OnHTTPCodes(gax.Backoff{
Initial: 100 * time.Millisecond,
Max: 60000 * time.Millisecond,
Multiplier: 1.30,
}),
http.StatusGatewayTimeout,
http.StatusServiceUnavailable)
}),
},
Insert: []gax.CallOption{ },
List: []gax.CallOption{
gax.WithRetry(func() gax.Retryer {
return gax.OnHTTPCodes(gax.Backoff{
Initial: 100 * time.Millisecond,
Max: 60000 * time.Millisecond,
Multiplier: 1.30,
}),
http.StatusGatewayTimeout,
http.StatusServiceUnavailable)
}),
},
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: Connections are now pooled so this method does not always
// return the same resource.
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, "gapi", 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: This method always returns nil.
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

        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 maybeUnmarshal(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...)
    unmarshal := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.License{}
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {

```

```

if
settings.Path != "" {
    baseUrl.Path = settings.Path
}
httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
if err != nil {
    return err
}
httpReq = httpReq.WithContext(ctx)
httpReq.Header = headers

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

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

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

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

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

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption)
(*computepb.Policy, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),

```



```

req.GetResource())

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

baseUrl.RawQuery = params.Encode()

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

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

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

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

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

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

```

```

    }

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

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

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

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

  baseUrl.RawQuery = params.Encode()

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

  headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
  opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
  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("POST", baseUrl.String(), bytes.NewReader(jsonReq))

```

```

if err != nil {
    return err
}
httpReq = httpReq.WithContext(ctx)
httpReq.Header = headers

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

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

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

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

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

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

```

```

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

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

    baseUrl.RawQuery = params.Encode()

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

```

```

    return err
}
httpReq.Header = headers

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

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

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

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

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

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

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

return it
}

```

```

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

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

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

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

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

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

```

```

    return err
}

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

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

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

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

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

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

    headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
    opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)

```

```

unm := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true}
resp := &computepb.TestPermissionsResponse{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("POST",
baseUrl.String(), bytes.NewReader(jsonReq))
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

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

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

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

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

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

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

    // Response is the raw response for the current page.

```



```

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

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

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

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

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

func (it *LicenseIterator) takeBuf() interface{} {
b := it.items
it.items = nil
return b
}

```

1.280 go-unsnap-stream 0.0.0-20181221182339-f9677308dec2

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1.281 andreyvit-diff 0.0.0-20170406064948-c7f18ee00883

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1.282 data-dog-go-sqlmock 1.4.1

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1.283 mileusna-useragent 0.0.0-

20190129205925-3e331f0949a5

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1.284 influxdata-influxql 1.1.1- 0.20211004132434-7e7d61973256

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1.285 jsternberg-zap-logfmt 1.2.0

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1.286 benbjohnson-immutable 0.3.0

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1.287 vertica-vertica-sql-go 1.1.1

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1.288 google-flatbuffers 2.0.5+incompatible

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1.289 msgpack 1.0.4

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1.290 go-zookeeper 0.0.0-20201211165307-7117e9ea2414

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1.291 libc-utils 0.7.2-r3

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1.292 pam 1.5.2-r1

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1.293 python-requests 2.28.1

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Portions of the client are based on code at:

<https://github.com/google/go-github/>

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*/
```

```
/**
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```

```
package datatypes
```

```
// no documentation yet
type Legal_RegulatedWorkload struct {
    Entity

    // no documentation yet
    Account *Account `json:"account,omitempty" xmlrpc:"account,omitempty"`

    // no documentation yet
    AccountId *int `json:"accountId,omitempty" xmlrpc:"accountId,omitempty"`

    // no documentation yet
    EnabledFlag *bool `json:"enabledFlag,omitempty"
xmlrpc:"enabledFlag,omitempty"`

    // no documentation yet
    Id *int `json:"id,omitempty" xmlrpc:"id,omitempty"`

    // no documentation yet
    Type *Legal_RegulatedWorkload_Type `json:"type,omitempty" xmlrpc:"type,omitempty"`

    // no documentation yet
    WorkloadTypeId *int `json:"workloadTypeId,omitempty" xmlrpc:"workloadTypeId,omitempty"`
}

// no documentation yet
type Legal_RegulatedWorkload_Type struct {
    Entity

    // no documentation yet
    Id *int `json:"id,omitempty" xmlrpc:"id,omitempty"`

    // no documentation yet
    KeyName *string `json:"keyName,omitempty" xmlrpc:"keyName,omitempty"`
```

```
// no documentation yet
Name *string `json:"name,omitempty" xmlrpc:"name,omitempty"`
}
# People who can (and typically have) contributed to this repository.
#
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#
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```
%notice {
border-radius: $radius-small;
border-width: 1px;
}
%notice-success,
%notice-info,
%notice-highlight,
%notice-error,
%notice-warning {
@extend %notice;
}
%notice-success {
@extend %frame-green-500, %with-passing;
```

```

}
%notice-info {
  @extend %frame-blue-500, %with-passing; /* needs a better info button*/
}
%notice-highlight {
  @extend %frame-gray-800, %with-star;
}
%notice-warning {
  @extend %frame-yellow-500, %with-warning;
}
%notice-error {
  @extend %frame-red-500, %with-critical;
}
%notice-highlight::before {
  /* %with-star, bigger */
  width: 16px;
  height: 16px;
}
%notice-success::before {
  color: $color-success;
}
%notice-info::before {
  color: $color-action; /* change to info */
}
%notice-error::before {
  color: $color-failure;
}

```

Protocol Buffers for Go with Gadgets

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<http://github.com/gogo/protobuf>

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

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=====

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layout: api

page_title: License - Operator - HTTP API

sidebar_current: api-operator-license
description: |-
The /operator/license endpoints allow for setting and retrieving the Consul Enterprise License.

License - Operator HTTP API

~> ****Enterprise Only!**** This API endpoint and functionality only exists in Consul Enterprise. This is not present in the open source version of Consul.

The licensing functionality described here is available only in [Consul Enterprise](https://www.hashicorp.com/products/consul/) version 1.1.0 and later.

Getting the Consul License

This endpoint gets information about the current license.

Method	Path	Produces
GET	/operator/license	application/json

The table below shows this endpoint's support for [blocking queries](/api/features/blocking.html), [consistency modes](/api/features/consistency.html), [agent caching](/api/features/caching.html), and [required ACLs](/api/index.html#authentication).

Blocking Queries	Consistency Modes	Agent Caching	ACL Required
NO	all	none	none

Parameters

- dc (string: "") - Specifies the datacenter whose license should be retrieved. This will default to the datacenter of the agent serving the HTTP request. This is specified as a URL query parameter.

Sample Request

```
```text
$ curl \
 http://127.0.0.1:8500/v1/operator/license
```
```

Sample Response

```

```json
{
 "Valid": true,
 "License": {
 "license_id": "2afbf681-0d1a-0649-cb6c-333ec9f0989c",
 "customer_id": "0259271d-8ffc-e85e-0830-c0822c1f5f2b",
 "installation_id": "*",
 "issue_time": "2018-05-21T20:03:35.911567355Z",
 "start_time": "2018-05-21T04:00:00Z",
 "expiration_time":
"2019-05-22T03:59:59.999Z",
 "product": "consul",
 "flags": {
 "package": "premium"
 },
 "features": [
 "Automated Backups",
 "Automated Upgrades",
 "Enhanced Read Scalability",
 "Network Segments",
 "Redundancy Zone",
 "Advanced Network Federation"
],
 "temporary": false
 },
 "Warnings": []
}
```

```

Updating the Consul License

This endpoint updates the Consul license and returns some of the license contents as well as any warning messages regarding its validity.

| Method | Path | Produces |
|--------|-------------------|------------------|
| PUT | /operator/license | application/json |

The table below shows this endpoint's support for [blocking queries](/api/features/blocking.html), [consistency modes](/api/features/consistency.html), [agent caching](/api/features/caching.html), and [required ACLs](/api/index.html#authentication).

| Blocking Queries | Consistency Modes | Agent Caching | ACL Required |
|------------------|-------------------|---------------|----------------|
| NO | none | none | operator:write |

Parameters

- `dc` (string) - Specifies the datacenter whose license should be updated.
This will default to the datacenter of the agent serving the HTTP request.
This is specified as a URL query parameter.

Sample Payload

The payload is the raw license blob.

Sample Request

```
```text
$ curl \
 --request PUT \
 --data @consul.license \
 http://127.0.0.1:8500/v1/operator/license
```
```

Sample Response

```
```json
{
 "Valid": true,
 "License": {
 "license_id": "2afbf681-0d1a-0649-cb6c-333ec9f0989c",
 "customer_id": "0259271d-8ffc-e85e-0830-c0822c1f5f2b",
 "installation_id": "*",
 "issue_time": "2018-05-21T20:03:35.911567355Z",
 "start_time":
"2018-05-21T04:00:00Z",
 "expiration_time": "2019-05-22T03:59:59.999Z",
 "product": "consul",
 "flags": {
 "package": "premium"
 },
 "features": [
 "Automated Backups",
 "Automated Upgrades",
 "Enhanced Read Scalability",
 "Network Segments",
 "Redundancy Zone",
 "Advanced Network Federation"
],
 "temporary": false
 },
 "Warnings": []
}
```

}  
...

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```
%notice {
```

```
 position: relative;
 padding: 1em;
 padding-left: 45px;
 margin-bottom: 1em;
```

```
}
```

```
%notice::before {
```

```
 position: absolute;
 left: 20px;
 top: 18px;
 margin-top: 0;
```

```
}
```

```
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mgo - MongoDB driver for Go

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- >>> appengine-ca59ef35f409df61fa4a5f8290ff289b37eccfb8
- >>> aws\_aws-sdk-go\_aws-master
- >>> coreos\_etcd\_client-781196fa8746d6c34ace2a62898051af6dc46002
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>>> nlopes_slack-f243c7602fdf906248fc1f165284daa4e4d2d09e
>>> nsf_termbox-go-91bae1bb5fa9ee504905ecbe7043fa30e92feaa3
>>> opennota_urlesc-5fa9ff0392746aeae1c4b37fcc42c65afa7a9587
>>> pkg_profile-8a808a6967b79da66deacfe508b26d398a69518f
>>> puerkitobio_purell-d69616f51cdfcd7514d6a380847a152dfc2a749d
>>> racksec_srslog-a974ba6f7fb527d2ddc73ee9c05d3e2ccc0af0dc
>>> rs/cors-8dd4211afb5d08dbb39a533b9bb9e4b486351df6
>>> ryanuber_go-glob-256dc444b735e061061cf46c809487313d5b0065
>>> sirupsen_logrus-d26492970760ca5d33129d2d799e34be5c4782eb
>>> smartystreets_assertions-287b4346dc4e71a038c346375a9d572453bc469b
>>> smartystreets_assertions_internal_oglematchers-287b4346dc4e71a038c346375a9d572453bc469b
>>> smartystreets_assertions_internal_oglemock-287b4346dc4e71a038c346375a9d572453bc469b
>>> smartystreets_assertions_internal_ogletest-287b4346dc4e71a038c346375a9d572453bc469b
>>> smartystreets_assertions_internal_reqtrace-287b4346dc4e71a038c346375a9d572453bc469b
>>> stretchr_objx-1a9d0bb9f541897e62256577b352fdbc1fb4fd94
>>> tomb_v1-dd632973f1e7218eb1089048e0798ec9ae7dceb8
>>> tylerb/graceful.v1-4654dfbb6ad53cb5e27f37d99b02e16c1872fbbb
>>> tylerb_graceful-d7d7a205e779a4738d38eda0671fff8bfc965f14
>>> ugorji_go_codec-708a42d246822952f38190a8d8c4e6b16a0e600c
>>> urfave/negroni-ccc4a14984828dcb944e6f17fa4a967b18624f2b
>>> urfave_cli_v1-0bdeddeeb0f650497d603c4ad7b20cfe685682f6
>>> x_crypto_acme-728b753d0135da6801d45a38e6f43ff55779c5c2
>>> x_crypto_curve25519-728b753d0135da6801d45a38e6f43ff55779c5c2
>>> x_crypto_ed25519-728b753d0135da6801d45a38e6f43ff55779c5c2
>>> x_crypto_nacl_secretbox-728b753d0135da6801d45a38e6f43ff55779c5c2
>>> x_crypto_poly1305-728b753d0135da6801d45a38e6f43ff55779c5c2
>>> x_crypto_salsa20_salsa-728b753d0135da6801d45a38e6f43ff55779c5c2
>>> x_crypto_ssh-728b753d0135da6801d45a38e6f43ff55779c5c2
>>> x_net_context-a6577fac2d73be281a500b310739095313165611
>>> x_net_http2-a6577fac2d73be281a500b310739095313165611
>>> x_net_idna-a6577fac2d73be281a500b310739095313165611
>>> x_net_internal_timeseries-a6577fac2d73be281a500b310739095313165611
>>> x_net_lex_httplex-a6577fac2d73be281a500b310739095313165611
>>> x_net_proxy-a6577fac2d73be281a500b310739095313165611
```

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>>> x_net_trace-a6577fac2d73be281a500b310739095313165611
>>> x_net_websocket-a6577fac2d73be281a500b310739095313165611
>>> x_oauth2-1611bb46e67abc64a71ecc5c3ae67f1cbbc2b921
>>> x_sync_singleflight-5a06fca2c336a4b2b2fcb45702e8c47621b2aa2c
>>> x_sys_unix-99f16d856c9836c42d24e7ab64ea72916925fa97
>>> x_sys_windows-99f16d856c9836c42d24e7ab64ea72916925fa97
>>> x_text_internal-f28f36722d5ef2f9655ad3de1f248e3e52ad5ebd
>>> x_text_language-f28f36722d5ef2f9655ad3de1f248e3e52ad5ebd
>>> x_text_message-f28f36722d5ef2f9655ad3de1f248e3e52ad5ebd
>>> x_tools_go_ast_astutil-381149a2d6e5d8f319ccf04bfefc71e03a78b868
>>> x_tools_go_buildutil-381149a2d6e5d8f319ccf04bfefc71e03a78b868
>>> x_tools_go_gcexportdata-381149a2d6e5d8f319ccf04bfefc71e03a78b868
>>> x_tools_go_gcimporter15-381149a2d6e5d8f319ccf04bfefc71e03a78b868
>>> x_tools_go_loader-381149a2d6e5d8f319ccf04bfefc71e03a78b868
>>> x_tools_imports-381149a2d6e5d8f319ccf04bfefc71e03a78b868
>>> zenazn/goji-c05078ca81941f8e801bba3ddc0e6b86b7fdc893
```

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```
>>> d2g_dhcp4client-master
>>> hashicorp_go-cleanhttp-875fb671b3ddc66f8e2f0acc33829c8cb989a38d
>>> hashicorp_memberlist-cef12ad58224d55cf26caa9e3d239c2fcb3432a2
```

## PART 2. VIRTUAL APPLIANCE: OPERATING SYSTEM LAYER

### SECTION 1: Academic Free License, V2.1

```
>>> dbus-1.11.12-1.ph2
```

### SECTION 2: Apache License, V2.0

```
>>> photon-release-2.0-2.ph2
```

### SECTION 3: BSD-STYLE, MIT-STYLE, OR SIMILAR STYLE LICENSES

```
>>> bzip2-1.0.6-8.ph2
>>> curl-7.59.0-4.ph2
>>> expat-2.2.4-1.ph2
>>> iputils-20151218-4.ph2
>>> krb5-1.16-2.ph2
>>> libarchive-3.3.1-2.ph2
>>> libcap-2.25-7.ph2
>>> libdb-5.3.28-1.ph2
```

>>> libffi-3.2.1-5.ph2  
>>> libsolv-0.6.26-3.ph2  
>>> libssh2-1.8.0-1.ph2  
>>> libtirpc-1.0.1-8.ph2  
>>> linux-pam-1.3.0-1.ph2  
>>> lsof-4.89-2.ph2  
>>> ncurses-6.0-14.ph2  
>>> openssh-7.5p1-11.ph2  
>>> openssl-1.0.2q-1.ph2  
>>> pcre-8.41-1.ph2  
>>> popt-1.16-5.ph2  
>>> shadow-4.2.1-16.ph2  
>>> sqlite-3.22.0-3.ph2  
>>> sudo-1.8.20p2-5.ph2  
>>> vim-8.0.0533-6.ph2  
>>> xz-5.2.3-2.ph2  
>>> zlib-1.2.11-1.ph2

#### SECTION 4: GNU General Public License, V2.0

>>> e2fsprogs-1.43.4-2.ph2  
>>> gcc-6.3.0-7.ph2  
>>> iproute2-4.10.0-3.ph2  
>>> iptables-1.6.1-4.ph2  
>>> linux-esx-4.9.154-1.ph2  
>>> logrotate-3.11.0-3.ph2  
>>> mingetty-1.08-2.ph2  
>>> net-tools-1.60-11.ph2  
>>> procps-ng-3.3.15-2.ph2  
>>> rpm-4.13.0.2-1.ph2  
>>> tdnf-1.2.3-6.ph2  
>>> util-linux-2.32-1.ph2

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>>> bash-4.4.12-3.ph2  
>>> coreutils-8.27-3.ph2  
>>> elfutils-0.169-3.ph2  
>>> grep-3.0-4.ph2  
>>> gzip-1.8-1.ph2  
>>> haveged-1.9.1-4.ph2  
>>> readline-7.0-2.ph2

#### SECTION 6: GNU Lesser General Public License, V2.1

>>> cracklib-2.9.6-8.ph2  
>>> glibc-2.26-13.ph2  
>>> hawkey-2017.1-6.ph2  
>>> kmod-24-3.ph2  
>>> libgcrypt-1.8.1-2.ph2  
>>> libgpg-error-1.27-1.ph2  
>>> systemd-233-18.ph2

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>>> gmp-6.1.2-2.ph2

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>>> glib-2.52.1-3.ph2

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>>> ca-certificates-20180919-1.ph2  
>>> nspr-4.15-1.ph2  
>>> nss-3.31.1-1.ph2

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instrumentation library for Go applications

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>>> go-openapi\_jsonreference-36d33bfe519efae5632669801b180bf1a245da3b

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3b13ebb46790d871d74a6c2450fa4b1280f90854\middleware\negotiate_test.go
```

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```

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```

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>>> go-openapi\_strfmt-0cb3db44c13bad3b3f567b762a66751972a310cc

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Go support for leveled logs, analogous to <https://code.google.com/p/google-glog/>

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>>> armon\_go-metrics-f303b03b91d770a11a39677f1d3b55da4002bbcb

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>>> armon\_go-radix-4239b77079c7b5d1243b7b4736304ce8ddb6f0f2

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>>> asaskevich\_govalidator-9699ab6b38bee2e02cd3fe8b99ecf67665395c96

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>>> azure\_go-ansiterm-70b2c90b260171e829f1ebd7c17f600c11858dbe

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>>> boltddb\_bolt-b514920f8f2e0a68f857e5a12c774f385a59aef9

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>>> cenkalti\_backoff-b02f2bbce11d7ea6b97f282ef1771b0fe2f65ef3

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>>> client9\_misspell-9a1fc2456ac9e8c9b4cbe9d005b6e7adac0d357f

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```
>>> codegangsta/inject-33e0aa1cb7c019ccc3fbe049a8262a6403d30504
```

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```
>>> codegangsta_cli-master
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>>> cpuguy83\_go-md2man\_md2man-a65d4d2de4d5f7c74868dfa9b202a3c8be315aaa

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>>> d2g\_dhcp4-f0e4d29ff0231dce36e250b2ed9ff08412584bca

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>>> dustin\_go-humanize-259d2a102b871d17f30e3cd9881a642961a1e486

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>>> gemnasium\_logrus-airbrake-hook\_v2-31e6fd4bd5a98d8ee7673d24bc54ec73c31810dd

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>>> gizak\_termui-798ffb9cbbe4073ef1f88e6069ca4a2c6aa6676b

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>>> go-check\_check-20d25e2804050c1cd24a7eea1e7a6447dd0e74ec

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```
>>> go-martini/martini-22fa46961aabd2665cf3f1343b146d20028f5071
```

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>>> gogo\_protobuf\_gogoproto-6a92c871a8f5333cf106b2cdf937567208dbb2b7

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```

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```
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```

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>>> microsoft_hcsshim-d327ca738085de7d617aa1df16d98fe7a64c2455
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>>> tomb\_v1-dd632973f1e7218eb1089048e0798ec9ae7dceb8

tomb - support for clean goroutine termination in Go.

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>>> ugorji_go_codec-708a42d246822952f38190a8d8c4e6b16a0e600c
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See <http://libtom.org/?page=features&newsitems=5&whatfile=crypt>.

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It was heavily inspired by the go blowfish package.

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```
>>> x_crypto_poly1305-728b753d0135da6801d45a38e6f43ff55779c5c2
```

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>>> x\_crypto\_salsa20\_salsa-728b753d0135da6801d45a38e6f43ff55779c5c2

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```

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a6577fac2d73be281a500b310739095313165611.tar\nnet-
a6577fac2d73be281a500b310739095313165611/html/testdata/webkit/README
```

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```
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>>> x_oauth2-1611bb46e67abc64a71ecc5c3ae67f1cbbc2b921
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>>> x\_sync\_singleflight-5a06fca2c336a4b2b2fcb45702e8c47621b2aa2c

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>>> x\_sys\_unix-99f16d856c9836c42d24e7ab64ea72916925fa97

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>>> x\_sys\_windows-99f16d856c9836c42d24e7ab64ea72916925fa97

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>>> x\_text\_internal-f28f36722d5ef2f9655ad3de1f248e3e52ad5ebd

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>>> x\_tools\_go\_ast\_astutil-381149a2d6e5d8f319ccf04bfefc71e03a78b868

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381149a2d6e5d8f319ccf04bfefc71e03a78b868.tar\tools-
381149a2d6e5d8f319ccf04bfefc71e03a78b868\third_party\typescript\typescript.js
```

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```
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```

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```
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```

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```

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```

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381149a2d6e5d8f319ccf04bfefc71e03a78b868\godoc\short\short.go
```

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+build appengine

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interface at /s and shortened urls from /s/key.

It is designed to run only on the instance of godoc  
that serves golang.org.  
package short

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in "src/lib/gssapi", including the following files:

lib/gssapi/generic/gssapi\_err\_generic.et  
lib/gssapi/mechglue/g\_accept\_sec\_context.c  
lib/gssapi/mechglue/g\_acquire\_cred.c  
lib/gssapi/mechglue/g\_canon\_name.c  
lib/gssapi/mechglue/g\_compare\_name.c  
lib/gssapi/mechglue/g\_context\_time.c  
lib/gssapi/mechglue/g\_delete\_sec\_context.c  
lib/gssapi/mechglue/g\_dsp\_name.c  
lib/gssapi/mechglue/g\_dsp\_status.c  
lib/gssapi/mechglue/g\_dup\_name.c  
lib/gssapi/mechglue/g\_exp\_sec\_context.c  
lib/gssapi/mechglue/g\_export\_name.c  
lib/gssapi/mechglue/g\_glue.c  
lib/gssapi/mechglue/g\_imp\_name.c  
lib/gssapi/mechglue/g\_imp\_sec\_context.c  
lib/gssapi/mechglue/g\_init\_sec\_context.c  
lib/gssapi/mechglue/g\_initialize.c  
lib/gssapi/mechglue/g\_inquire\_context.c  
lib/gssapi/mechglue/g\_inquire\_cred.c  
lib/gssapi/mechglue/g\_inquire\_names.c  
lib/gssapi/mechglue/g\_process\_context.c  
lib/gssapi/mechglue/g\_rel\_buffer.c  
lib/gssapi/mechglue/g\_rel\_cred.c  
lib/gssapi/mechglue/g\_rel\_name.c  
lib/gssapi/mechglue/g\_rel\_oid\_set.c  
lib/gssapi/mechglue/g\_seal.c  
lib/gssapi/mechglue/g\_sign.c  
lib/gssapi/mechglue/g\_store\_cred.c  
lib/gssapi/mechglue/g\_unseal.c  
lib/gssapi/mechglue/g\_userok.c  
lib/gssapi/mechglue/g\_utils.c  
lib/gssapi/mechglue/g\_verify.c  
lib/gssapi/mechglue/gssd\_pname\_to\_uid.c

lib/gssapi/mechglue/mglueP.h  
lib/gssapi/mechglue/oid\_ops.c  
lib/gssapi/spnego/gssapiP\_spnego.h  
lib/gssapi/spnego/spnego\_mech.c

and

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

include/ipropr\_hdr.h  
kadmin/server/ipropr\_svc.c  
lib/kdb/ipropr.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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rijndael-alg-fst.c

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Optimised ANSI C code for the Rijndael cipher (now AES)

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>  
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SHA-1 in C

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

```
>>> openssh-7.5p1-11.ph2
```

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@version 3.0 (December 2000)

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@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>  
@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>  
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## THE BASIC LIBRARY FUNCTIONS

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Written by: Philip Hazel

Email local part: ph10

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TH su 1 "18 August 1999" "GNU Shell Utilities 20"

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Written

by Eric Sandeen <sandeen@redhat.com>

cvtnum routine taken from xfsprogs,

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mkinstalldirs --- make directory hierarchy

Author: Noah Friedman <friedman@prep.ai.mit.edu>

Created: 1993-05-16

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Based on mcheck.c by Mike Haertel.

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This C header file is part of the SoftFloat IEC/IEEE Floating-point

Arithmetic Package, Release 2.

Written by John R. Hauser. This work was made possible in part by the International Computer Science Institute, located at Suite 600, 1947 Center Street, Berkeley, California 94704. Funding was partially provided by the National Science Foundation under grant MIP-9311980. The original version of this code was written as part of a project to build a fixed-point vector processor in collaboration with the University of California at Berkeley, overseen by Profs. Nelson Morgan and John Wawrzynek. More information is available through the Web page <http://www.jhauser.us/arithmetic/SoftFloat-2b/SoftFloat-source.txt>

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Written by Andrew Lutomirski, 2011-2014.

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Version: \$Id: ax25\_gr.c,v 1.4 1999/01/05 20:53:21 philip Exp \$

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mkinstalldirs --- make directory hierarchy

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line - read one line

Gunnar Ritter, Freiburg i. Br., Germany, December 2000.

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uidparse.c --- Interpret uuid encoded information. This program violates the UUID abstraction barrier by reaching into the guts of a UUID.

Based on libuuid/src/uuid\_time.c  
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From Simon Josefsson  
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setpwnam.c -- edit an entry in a password database.

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Edited 11/10/96 (DD/MM/YY ;- ) by Nicolai Langfeldt (janl@math.uio.no) to read /etc/passwd directly so that passwd, chsh and chfn can work on machines that run NIS (previously YP). Changes will not be made to usernames starting with +.

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Usage:

1) get a struct passwd from getpwnam().

You should assume a struct passwd has an infinite number of fields, so you should not try to create one from scratch.

2) edit the fields you want to edit.

3) call setpwnam() with the edited struct passwd.

A `_normal user_` program should never directly manipulate `etc/passwd` but /use `getpwnam()` and `(family, as well as) setpwnam()`.

But, `setpwnam` was

made to `_edit_` the password file. For use by `chfn`, `chsh` and `passwd`. `_I_ _HAVE_` to read and write `/etc/passwd` directly. Let those who say nay be forever silent and think about how `getpwnam` (and `family`) works on a machine running YP.

Added checks for failure of `malloc()` and removed error reporting to `stderr`, this is a library function and should not print on the screen, but return appropriate error codes.

27-Jan-97 - poe@daimi.aau.dk

Thanks to "two guys named Ian".

\$Author: poer \$

\$Revision: 1.13 \$

\$Date: 1997/06/23 08:26:29 \$

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Python bindings for the libmount library.

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Written by Ondrej Oprala and Karel Zak

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Bison implementation for Yacc-like parsers in C

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error.c --

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Bison interface for Yacc-like parsers in C

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(Mostly) portable public-domain implementation -- D A Gwyn

This implementation of the PWB library `alloca` function, which is used to allocate space off the run-time stack so that it is automatically reclaimed upon procedure exit, was inspired by discussions with J. Q. Johnson of Cornell. J. Otto Tennant <jot@cray.com> contributed the Cray support.

There are some preprocessor constants that can be defined when compiling for your specific system, for improved efficiency; however, the defaults should be okay.

The general concept of this implementation is to keep track of all `alloca`-allocated blocks, and reclaim any that are found to be deeper in the stack than the current invocation. This heuristic does not reclaim storage as soon as it becomes invalid, but it will do so eventually.

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alloca.c -- allocate automatically reclaimed memory  
(Mostly) portable public-domain implementation -- D A Gwyn

This implementation of the PWB library alloca function, which is used to allocate space off the run-time stack so that it is automatically reclaimed upon procedure exit, was inspired by discussions with J. Q. Johnson of Cornell.  
J.Otto

Tennant <jot@cray.com> contributed the Cray support.

There are some preprocessor constants that can be defined when compiling for your specific system, for improved efficiency; however, the defaults should be okay.

The general concept of this implementation is to keep track of all alloca-allocated blocks, and reclaim any that are found to be deeper in the stack than the current

invocation. This heuristic does not reclaim storage as soon as it becomes invalid, but it will do so eventually.

As a special case, `alloca(0)` reclaims storage without allocating any. It is a good idea to use `alloca(0)` in your main control loop, etc. to force garbage collection.

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DRBG: Deterministic Random Bits Generator

Based on NIST Recommended DRBG from NIST SP800-90A with the following properties:

CTR

DRBG with DF with AES-128, AES-192, AES-256 cores

Hash DRBG with DF with SHA-1, SHA-256, SHA-384, SHA-512 cores

HMAC DRBG with DF with SHA-1, SHA-256, SHA-384, SHA-512 cores

with and without prediction resistance

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Test

Socket Type

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c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

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Version 2, June 1991

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

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Most GNU software, including some libraries, is covered by the ordinary

GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

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

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

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

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

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

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

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

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline



functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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Version 3, 29 June 2007

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The object code form of an Application may incorporate material from a header file that is part of the Library. You may convey such object code under terms of your choice, provided that, if the incorporated material is not limited to numerical parameters, data structure layouts and accessors, or small macros, inline functions and templates (ten or fewer lines in length), you do both of the following:

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----- SECTION 21: SIL Open Font License, V1.1 -----

SIL OPEN FONT LICENSE

Version 1.1 - 26 February 2007

PREAMBLE

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efforts of academic and linguistic communities, and to provide a free and  
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LPPL Version 1.3c 2008-05-04

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The

Work has the status `maintained' if there is a Current Maintainer who has indicated in the Work that they are willing to receive error reports for the Work (for example, by supplying a valid e-mail address). It is not required for the Current Maintainer to acknowledge or act upon these error reports.

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files pig.dtx and pig.ins  
and the derived file pig.sty.

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

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@import './skin';
```

```
@import './layout';
```

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 @extend %notice-warning;
}
.notice.info {
 @extend %notice-info;
}
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```

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```

```
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```

```
Damian Gryski <dgryski@gmail.com>
```

```
Jan Mercl <0xjnm1@gmail.com>
```



Kai Backman <kaib@golang.org>  
Marc-Antoine Ruel <maruel@chromium.org>  
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```

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package compute

import (
 "bytes"
 "context"
 "fmt"
 "io"
 "math"
 "net/http"
 "net/url"
 "time"

 computepb "cloud.google.com/go/compute/apiv1/computepb"
 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"
 "google.golang.org/grpc"
 "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{
 gax.WithTimeout(600000 * time.Millisecond),
 },
 },
}

```

```

Get: []gax.CallOption{
 gax.WithTimeout(600000 * time.Millisecond),
 gax.WithRetry(func() gax.Retryer {
 return gax.OnHTTPCodes(gax.Backoff{
 Initial: 100 * time.Millisecond,
 Max: 60000 * time.Millisecond,
 Multiplier: 1.30,
 }),
 http.StatusGatewayTimeout,
 http.StatusServiceUnavailable)
 }),
},
GetIamPolicy:
[]gax.CallOption{
 gax.WithTimeout(600000 * time.Millisecond),
 gax.WithRetry(func() gax.Retryer {
 return gax.OnHTTPCodes(gax.Backoff{
 Initial: 100 * time.Millisecond,
 Max: 60000 * time.Millisecond,
 Multiplier: 1.30,
 }),
 http.StatusGatewayTimeout,
 http.StatusServiceUnavailable)
 }),
},
Insert: []gax.CallOption{
 gax.WithTimeout(600000 * time.Millisecond),
},
List: []gax.CallOption{
 gax.WithTimeout(600000 * time.Millisecond),
 gax.WithRetry(func() gax.Retryer {
 return gax.OnHTTPCodes(gax.Backoff{
 Initial: 100 * time.Millisecond,
 Max: 60000 * time.Millisecond,
 Multiplier: 1.30,
 }),
 http.StatusGatewayTimeout,
 http.StatusServiceUnavailable)
 }),
},
SetIamPolicy: []gax.CallOption{
 gax.WithTimeout(600000 * time.Millisecond),
},
TestIamPermissions: []gax.CallOption{
 gax.WithTimeout(600000
* time.Millisecond),
},
}

```

```

}

// 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: Connections are now pooled so this method does not always
// return the same resource.
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-* headers to be sent with each request.
 xGoogHeaders []string

 // 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", gax.GoVersion}, keyval...)
 kv = append(kv, "gapi", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogHeaders = []string{"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: This method always returns
nil.
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.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense()))}

 hds = append(c.xGoogHeaders, hds...)
 hds
 = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 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 := io.ReadAll(httpRsp.Body)
if err != nil {
 return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
 return 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.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
 url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense()))}

```

```

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx,
hds...)
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 := io.ReadAll(httpRsp.Body)
 if err != nil {
 return err
 }

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

```
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}
```

```
hds
```

```
= append(c.xGoogHeaders, hds...)
```

```
hds = append(hds, "Content-Type", "application/json")
```

```
headers := gax.BuildHeaders(ctx, hds...)
```

```
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 := io.ReadAll(httpRsp.Body)
if err != nil {
 return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
 return 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.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v",

```

```

"project", url.QueryEscape(req.GetProject()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &compute.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 := io.ReadAll(httpRsp.Body)
 if err != nil {
 return
 }
 err
}

if err := unm.Unmarshal(buf, resp); err != nil {
 return 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)
 unmarshalOptions := 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.
hds := append(c.xGoogHeaders, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
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 := io.ReadAll(httpRsp.Body)
 if err != nil {
 return
 }
 err

 if err := unm.Unmarshal(buf, resp); err != nil {
 return 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.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 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

 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 := io.ReadAll(httpRsp.Body)
 if err != nil {
 return err
 }

 if err := unmarshal(buf, resp); err != nil {
 return err
 }

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

```

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```

func (c *licensesRESTClient) TestIamPermissions(ctx
context.Context, req *computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
 return nil, err
 }
}

```

```

}

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

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

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

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

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

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

```

```

if err := unmarshal(buf, resp); err != nil {
 return err
}

return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}
// Copyright 2023 Google LLC
//
// Licensed under the Apache License, Version 2.0 (the "License");
// you may not use this file except in compliance with the License.
// You may obtain a copy of the License at
//
// https://www.apache.org/licenses/LICENSE-2.0
//
// Unless required by applicable law or agreed to in writing, software
// distributed under the License is distributed on an "AS IS" BASIS,
// WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
// See the License for the specific language governing permissions and
// limitations under the License.

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

package compute

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

 computepb "cloud.google.com/go/compute/apiv1/computepb"
 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"
 "google.golang.org/grpc"
 "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{
 gax.WithTimeout(600000 * time.Millisecond),
 gax.WithRetry(func() gax.Retryer {
 return gax.OnHTTPCodes(gax.Backoff{
 Initial: 100 * time.Millisecond,
 Max: 60000 * time.Millisecond,
 Multiplier: 1.30,
 },
 http.StatusGatewayTimeout,
 http.StatusServiceUnavailable)
 }),
 },
 TestIamPermissions: []gax.CallOption{
 gax.WithTimeout(600000 * time.Millisecond),
 },
}
}

// 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: Connections are now pooled so this method does not always
// return the same resource.
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-* headers to be sent with each request.
 xGoogHeaders []string

 // 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", gax.GoVersion}, keyval...)
 kv = append(kv, "gapi", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogHeaders = []string{"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: This method always returns nil.
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.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license_code", url.QueryEscape(req.GetLicenseCode()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
 unmarshalOptions := 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 := io.ReadAll(httpRsp.Body)
 if err != nil {
 return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
 return 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.
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

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

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

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

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

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

```

```
}

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

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// Code generated by protoc-gen-go\_gapic. DO NOT EDIT.

package compute\_test

import (

"context"

compute "cloud.google.com/go/compute/apiv1"

computepb "cloud.google.com/go/compute/apiv1/computepb"

"google.golang.org/api/iterator"

)

func ExampleNewLicensesRESTClient() {

ctx := context.Background()

// This snippet has been automatically generated and should be regarded as a code template only.

// It will

require modifications to work:

// - It may require correct/in-range values for request initialization.

// - It may require specifying regional endpoints when creating the service client as shown in:

// [https://pkg.go.dev/cloud.google.com/go#hdr-Client\\_Options](https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options)

c, err := compute.NewLicensesRESTClient(ctx)

if err != nil {

// TODO: Handle error.

}

defer c.Close()

// TODO: Use client.



```

_ = c
}

func ExampleLicensesClient_Delete() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 // https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 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/cloud.google.com/go/compute/apiv1/compute#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()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 // https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 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/cloud.google.com/go/compute/apiv1/compute#GetLicenseRequest.

```

```

}
resp,
err := c.Get(ctx, req)
if err != nil {
 // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 // https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 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/cloud.google.com/go/compute/apiv1/compute#GetIamPolicyLicenseRequest.
 }
 resp, err := c.GetIamPolicy(ctx, req)
 if err != nil {
 // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_Insert()
{
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 // https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 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/cloud.google.com/go/compute/apiv1/compute#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()
 // This snippet has been automatically generated and should be regarded as a code template
 // only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 // https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
 // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.ListLicensesRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#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()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range
 values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 // https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
 // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.SetIamPolicyLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#SetIamPolicyLicenseRequest.
 }
 resp, err := c.SetIamPolicy(ctx, req)
 if err != nil {
 // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown
 in:
 // https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 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/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseRequest.
 }
 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"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleNewLicenseCodesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 //
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 // https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
 // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicenseCodesClient_Get() {
 ctx := context.Background()

```

```

// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
// https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
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/cloud.google.com/go/compute/apiv1/computepb#GetLicenseCodeRequest.
}
resp, err := c.Get(ctx, req)
if err != nil {
 // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 // https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 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/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseCodeRequest.
 }
 resp,
 err := c.TestIamPermissions(ctx, req)
 if err != nil {
 // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

```

}

# 1.297 pierrec-lz4 4.1.14

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# 1.298 robot-telemetry\_proto 0.0.0-

## 20220324224147-68d8e0b155a0

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Version 2.0, January 2004

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

jnxLicenseMIB MODULE-IDENTITY  
LAST-UPDATED "201906170000Z"  
ORGANIZATION "Juniper Networks, Inc."  
CONTACT-INFO  
"Juniper Technical Assistance Center  
Juniper Networks, Inc.  
1133 Innovation Way  
Sunnyvale, CA 94089  
E-mail: support@juniper.net"

DESCRIPTION

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

REVISION "201007090000Z" -- Jul 09, 2010

DESCRIPTION

"Initial version."

REVISION "201612150000Z" -- Dec 15, 2016

DESCRIPTION

"Added OID jnxLicenseKeyType and Trap jnxLicenseExpired"

REVISION "201906170000Z" -- Jun 17, 2019

DESCRIPTION

"Deprecated jnxLicenseKeys."

```

 ::= { jnxLicenseMibRoot 1 }

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

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

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

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

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

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

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

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

```

"License Version information"  
::= { jnxLicenseInstallEntry 2 }

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

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

jnxLicenseKeys OBJECT-TYPE  
SYNTAX OCTET STRING  
MAX-ACCESS read-only  
STATUS deprecated  
DESCRIPTION "\*\*\*\*\* THIS OBJECT IS DEPRECATED \*\*\*\*\*"  
This object is deprecated,  
it displays all the license keys  
in the system."  
  
::= { jnxLicenseInstallEntry 5 }

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

-- Feature Listing Table

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

jnxLicenseFeatureListEntry OBJECT-TYPE  
SYNTAX JnxLicenseFeatureListEntry  
MAX-ACCESS not-accessible

STATUS current  
DESCRIPTION "A row of licensed features."  
INDEX { jnxLicenseFeatureId }  
::= { jnxLicenseFeatureListTable 1 }

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

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

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

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

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

jnxLicenseFeatureLicenseUsed OBJECT-TYPE  
SYNTAX INTEGER  
MAX-ACCESS read-only

STATUS current  
DESCRIPTION "Licenses Used"  
::= { jnxLicenseFeatureListEntry 5 }

jnxLicenseFeatureLicenseInstalled OBJECT-TYPE

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

jnxLicenseFeatureLicenseNeeded OBJECT-TYPE

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

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

jnxLicenseRenewBeforeExpiration

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

jnxLicenseRenewInterval OBJECT-TYPE

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

jnxLicenseAutoUpdate OBJECT-TYPE

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



```

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

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

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

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

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

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

```

```

 ::= { jnxLicenseNotifications 5 }

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

```

```

END

```

```

/*

```

```

* Generated by 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 with in a stack), then value of `clmgmtLicenseStore` is ignored and the licenses will be installed in default license stores of the respective devices.

#### 2. Clearing a license

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

- a. `clmgmtLicenseActionEntPhysicalIndex`
- b. `clmgmtLicenseActionLicenseIndex`

- c. clmgmtLicenseStore
- d. clmgmtLicenseAction

### 3. Revoking a license

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

- a. clmgmtLicenseActionTransferProtocol
- b. clmgmtLicenseServerAddressType
- c. clmgmtLicenseServerAddress
- d. clmgmtLicenseServerUsername
- e. clmgmtLicenseServerPassword
- f. clmgmtLicensePermissionTicketFile
- g. clmgmtLicenseRehostTicketFile
- h. clmgmtLicenseStopOnFailure
- i. clmgmtLicenseAction

### 4. Regenerate last rehost ticket

The following

MIB objects need to be set for regenerating last rehost ticket

- a. clmgmtLicenseActionTransferProtocol
- b. clmgmtLicenseServerAddressType
- c. clmgmtLicenseServerAddress
- d. clmgmtLicenseServerUsername
- e. clmgmtLicenseServerPassword
- f. clmgmtLicensePermissionTicketFile
- g. clmgmtLicenseRehostTicketFile
- h. clmgmtLicenseStopOnFailure
- i. clmgmtLicenseAction

### 5. Save all licenses to a backup storage

The following MIB objects need to be set for storing all licenses to a backup store

- a. clmgmtLicenseActionEntPhysicalIndex
- b. clmgmtLicenseActionTransferProtocol
- c. clmgmtLicenseServerAddressType
- d. clmgmtLicenseServerAddress
- e. clmgmtLicenseServerUsername
- f. clmgmtLicenseServerPassword
- g.

clmgmtLicenseBackupFile

- h. clmgmtLicenseAction

### 6. Generate and export EULA if the licenses need EULA to be accepted for installing.

The following MIB objects need to be set exporting required EULAs

- a. clmgmtLicenseActionTransferProtocol
- b. clmgmtLicenseServerAddressType
- c. clmgmtLicenseServerAddress
- d. clmgmtLicenseServerUsername
- e. clmgmtLicenseServerPassword
- f. clmgmtLicenseFile
- g. clmgmtLicenseEULAFile
- h. clmgmtLicenseAction

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

- a. clmgmtLicenseServerAddressType
- b. clmgmtLicenseServerAddress
- c. clmgmtLicenseServerUsername
- d. clmgmtLicenseServerPassword

Entry can be deleted

except when clmgmtLicenseAction is set

to pending(2). All entries are volatile and are cleared on agent reset.";

smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1";

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

```
leaf clmgmtLicenseActionEntPhysicalIndex
```

```
{
 type entity-mib:PhysicalIndexOrZero;
 description
 "This object represents the entPhysicalIndex of the device
 where the action is being executed. This object is mainly
 used in devices where one device is acting as a master and
 rest of the devices as slaves. The master device is
 responsible for SNMP communication with the management
```

application. Examples include stackable switches, devices with route processor and line card configuration. If this object is not set, the license action will be executed on the master device. Note: This object need not be set if there is a stand alone device";

```
smiv2:defval "0";
smiv2:max-access "read-write";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.2";
}
```

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

Note: This object need not be set if the all the files required for the action are in device's local file system.";

```
smiv2:defval "none";
smiv2:max-access "read-write";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.3";
}
```

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

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

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

The format of this address depends on the value of the `clmgmtLicenseServerAddressType` object";

```
smiv2:defval "";
smiv2:max-access "read-write";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.5";
}
```

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

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

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

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

```
leaf clmgmtLicenseFile {
 type snmp-framework:SnmpAdminString {
 length "0..255";
 }
}
```

```

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

```

```

leaf clmgmtLicenseStore {
type uint32;
description
of the
"This object represents the clmgmtLicenseStoreIndex
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:default "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 the permission

ticket and generates and  
exports rehost ticket.

regenerateLastRehostTicket(5) Generates and exports the

last generated rehost  
ticket.

backup(6)

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

generateEULA(7)

Checks whether the licenses  
in the license file need EULA  
acceptance and uploads the  
needed EULA contents to a file.;

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

```
leaf clmgmtLicenseActionState {
```

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

```
leaf clmgmtLicenseJobQPosition {
```

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

```
 defer its license back up action to a later time. This
 object will return a value of 0 if the action is not in
 pending(2) state.";
```

```

smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.17";
}

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

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

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

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

leaf clmgmtLicenseAcceptEULA {
 type boolean;
 description

```

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

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

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

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

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

```
list clmgmtLicenseActionResultEntry {
 key "clmgmtLicenseActionIndex clmgmtLicenseNumber";
 description
 "An entry in clmgmtLicenseActionResultTable. Each entry
 contains result of the action for a single license.
 These entries are created immediately after action
 execution when the action involves multiple licenses.
```

These entries get automatically deleted when the corresponding entry in clmgmtLicenseActionTable is deleted.";

smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.3.1";

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

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

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

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

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

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

```

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

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

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

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

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

```

```

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

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

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

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

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

```



```

}

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

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

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

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

 leaf clmgmtLicenseStoreUsed {
 type uint32 {
 range "1..4294967295";
 }
 }
}

```

```

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

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

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

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

leaf clmgmtLicenseType {
 type enumeration {
 enum "demo" {
 value "1";
 }
 }
}

```

```

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

```

description

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

defined in terms of calendar dates.

demo(1) - demo(evaluation license) license.  
 extension(2) - Extension(expiring) license.  
 gracePeriod(3) - Grace period license.  
 permanent(4) - permanent license, the license has no expiry date.  
 paidSubscription(5) - Paid subscription licenses are the licenses

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

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

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

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

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

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

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

the product.

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

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

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

```
leaf clmgmtLicenseValidityPeriod {
 type uint32;
 units "seconds";
 description
 "This object indicates the time period the license is valid for.
 This object is applicable only if clmgmtLicenseType is demo(1),
 or extension(2) or gracePeriod(3) or evalRightToUse(8). The
 object will return
```

0 for other license types.";

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

```

smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.7";
}

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

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

leaf clmgmtLicenseMaxUsageCount {
 type uint32;
 description
 "This object indicates the maximum number of entities that
 can use this license. This object is applicable only if
 clmgmtLicenseCounted is true(1). The entity that is being
 counted can be anything and it depends on the licensable
 feature.";
 smiv2:max-access "read-only";
 smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.10";
}

leaf clmgmtLicenseUsageCountRemaining {
 type uint32;
 description
 "This object indicates the number of entities that can
 still

```

```
use this license. This object is applicable only
 if clmgmtLicenseCounted is true(1).";
smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.11";
}
```

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

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

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

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

```

 value "6";
 }
}
description
"This object represents status of the license.

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

```

```

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

```

```

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

```

```

leaf clmgmtLicenseEndDate {
 type snmpv2-tc:DateAndTime;
 description
 "This object indicates the end date for a subscription license.
 This object is applicable only when clmgmtLicenseType is
 paidSubscription(5), evaluationSubscription(6) or
 extensionSubscription (7). The object will contain an octet

```

```

 string of length 0 when it is not applicable.";
 smiv2:max-access "read-only";
 smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.16";
}

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

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

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

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

 leaf clmgmtFeatureIndex {
 type uint32 {

```



```

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

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

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

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

 The object will contain 0 if
other types of license is used
 or if the feature does not use any license. If the
 feature is using multiple licenses, this period will

```

```
 represent the cumulative period remaining from all the
 licenses used by this feature.";
 smiv2:max-access "read-only";
 smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4.1.4";
}
```

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

```
leaf clmgmtFeatureStartDate {

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

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

```

}

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

```

```

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

```

Once the request completes, the management application should retrieve the values of the objects of interest, and then

```

delete the entry. In order to prevent old entries from
clogging the table, entries will be aged out, but an entry
will never be deleted within 5 minutes of completion.";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2";

```

```

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

```

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

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

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

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

Management application sets clmgmtDevCredExportActionStatus to createAndWait(5) to create an entry. Management application can set all other required objects to valid values in more than one SNMP SET request. If SET request

for any of the objects fails, management application can set just only that object. Once all the required objects are set to valid values, management application triggers action execution by setting `clmgmtDevCredExportActionStatus` to `active(1)`.

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

The status of action execution can be known by querying

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

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

```
smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1";
```

```
leaf clmgmtDevCredExportActionIndex {
 type uint32 {
 range "1..4294967295";
 }
 description
 "This object uniquely identifies a row in
 clmgmtDevCredExportActionTable. The management application
 chooses this value by reading
 clmgmtNextFreeDevCredExportActionIndex while creating an
 entry in this table.
```

If an entry already exists with this

```
index, the creation of the entry will not continue and
error will be returned. The management application should
read the value of clmgmtNextFreeDevCredExportActionIndex
again and retry with the new value for this object.";
```

```
smiv2:max-access "not-accessible";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.1";
}
```

```
leaf clmgmtDevCredEntPhysicalIndex {
 type entity-mib:PhysicalIndexOrZero;
 description
 "This object represents the entPhysicalIndex of the device
 for which the device credentials are being retrieved. This
 object is mainly used in devices where one device is acting
```

as a master and rest of the devices as slaves. The master device is responsible for SNMP communication with the manager. Examples include stackable switches, devices with router processor and line cards.

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

```
smiv2:defval "0";
smiv2:max-access "read-write";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.2";
}
```

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

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

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

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

The format of this address depends on the value of the clmgmtDevCredServerAddressType object";

```
smiv2:defval "";
smiv2:max-access "read-write";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.5";
}
```

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

description

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

```
smiv2:defval "";
smiv2:max-access "read-write";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.6";
}
```

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

description

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

```
smiv2: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"
 }
}

```

```

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

```

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

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

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

operation is

```

 performed
transferProtocolNotSupported(3) - clmgmtDevCredTransferProtocol
 given is not supported.
fileServerNotReachable(4) - file server is not reachable.
unrecognizedEntPhysicalIndex(5) - entPhysicalIndex is not
 valid
invalidFile(6) - The target file specified is not valid.";
smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.11";
}

```

```

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

```

```

leaf clmgmtDevCredRowStatus {

```



```

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

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

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

container object-1 {

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

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

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

```

```

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

container object-2 {

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

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

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

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

 container object-1 {

 leaf entPhysicalIndex {

```

```

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

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

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

container object-2 {

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

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

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

```

```

}

container object-3 {

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

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

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

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

 container object-1 {

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

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

```

```

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

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

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

container object-2 {

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

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

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

```

```

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

```

```

container object-3 {

```

```

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

```

```

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

```

```

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

```

```

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

```

```

container object-4 {

```

```

 leaf entPhysicalIndex {
 type leafref {

```

```

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

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

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

container object-5 {

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

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

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

 leaf clmgmtLicenseComments {

```

```

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

```

```

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

```

```

container object-1 {

```

```

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

```

```

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

```

```

 leaf clmgmtLicenseIndex {
 type leafref {

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

```

```

 leaf clmgmtLicenseFeatureName {
 type leafref {

```



```

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

```

```

container object-2 {

```

```

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

```

```

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

```

```

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

```

```

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

```

```

container object-3 {

```

```

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

```

```

 }
 }

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

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

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

container object-4 {

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

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

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

```

```

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

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

container object-5 {

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

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

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

container object-6 {

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

```

```

}

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

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

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

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

 container object-1 {

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

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

```

```

mib:clmgmtLicenseStoreUsed";
 }
}

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

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

container object-2 {

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

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

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

leaf clmgmtLicenseFeatureVersion {
 type leafref {

```

```

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

```

```

container object-3 {

```

```

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

```

```

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

```

```

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

```

```

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

```

```

container
object-4 {

```

```

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

```

```

mib:entPhysicalIndex";
 }
}

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

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

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

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

 container object-1 {

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

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

```

```

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

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

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

container object-2 {

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

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

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

```



```

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

```

```

container object-3 {

```

```

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

```

```

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

```

```

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

```

```

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

```

```

container object-4 {

```

```

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

```

```

mib:entPhysicalIndex";
 }
}

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

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

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

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

 container object-1 {

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

 leaf clmgmtLicenseStoreUsed {
 type leafref {

```

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

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

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

```
container object-2 {
```

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

```
 leaf clmgmtLicenseStoreUsed {
```

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

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

```

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

```

```

container object-3 {

```

```

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

```

```

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

```

```

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

```

```

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

```

```

container object-4 {

```

```

 leaf entPhysicalIndex {
 type leafref {

```

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

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

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

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

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

```
 container object-1 {
```

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

```
 leaf clmgmtFeatureIndex {
```

```

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

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

container object-2 {

 leaf entPhysicalIndex {

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

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

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

notification clmgmtLicenseNotEnforced {
 description
 "This notification is sent when a license does not
 exist for a feature, but the feature is a mandatory

```

```

feature and it should run. This notification will be
sent out periodically
to indicate that there is no
license installed for this feature and it needs to
be done as soon as possible.";
smiv2:oid "1.3.6.1.4.1.9.9.543.0.9";

container object-1 {

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

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

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

container object-2 {

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

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

```

```

 }
 }

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

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

 container object-1 {

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

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

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

```



```

}

container object-2 {

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

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

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

container object-3 {

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

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

 leaf clmgmtFeatureEndDate {

```

```

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

```

```

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

```

```

container object-1 {

```

```

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

```

```

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

```

```

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

```

```

container object-2 {

```

```

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

```

```

mib:entPhysicalIndex";
 }
}

leaf clmgmtFeatureIndex {
 type leafref {

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

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

container object-3 {

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

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

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

```

```

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

 container object-1 {

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

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

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

 container object-2 {

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

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

```

```

 }
 }

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

 container object-3 {

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

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

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

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

```

```

container object-1 {

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

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

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

container object-2 {

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

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

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

```

```

 }
 }
}

container object-3 {

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

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

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

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

 container object-1 {

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

 leaf clmgmtFeatureIndex {

```

```

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

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

container object-2 {

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

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

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

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

smiv2:alias "ciscoLicenseMgmtMIBNotifs" {

```



```

 smiv2:oid "1.3.6.1.4.1.9.9.543.0";
}

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

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

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

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

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

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

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

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

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

```

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

## IMPORTS

```
OBJECT-TYPE,
MODULE-IDENTITY,
Unsigned32,
NOTIFICATION-TYPE
 FROM SNMPv2-SMI
MODULE-COMPLIANCE,
OBJECT-GROUP,
NOTIFICATION-GROUP
 FROM SNMPv2-CONF
TEXTUAL-CONVENTION,
TruthValue
 FROM SNMPv2-TC
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 advipservicesk9 license.
- The next boot level is set to advipservicesk9.
- The device will run advsecurityk9 feature until the next reboot. After reboot the device will run advipservicesk9 features.

Scenario 2:

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

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

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

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

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

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

entPhysicalIndex imported from ENTITY-MIB is used to identify the device uniquely."  
REVISION "20071016000Z"  
DESCRIPTION  
"Initial version of this MIB module."  
::= { ciscoMgmt 640 }

ciscoImageLicenseMgmtMIBNotifs OBJECT IDENTIFIER  
::= { ciscoImageLicenseMgmtMIB 0 }

ciscoImageLicenseMgmtMIBObjects OBJECT IDENTIFIER  
::= { ciscoImageLicenseMgmtMIB 1 }

ciscoImageLicenseMgmtMIBConform OBJECT IDENTIFIER  
::= { ciscoImageLicenseMgmtMIB 2 }

BootImageLevel ::= TEXTUAL-CONVENTION  
STATUS current  
DESCRIPTION  
"This textual convention is used to define the image level.  
  
If the device is running at advipservices image level, then the boot image level will be 'advipservices'.  
SYNTAX OCTET STRING (SIZE (0..255))

LicenseNameList ::= TEXTUAL-CONVENTION  
STATUS current  
DESCRIPTION  
"This textual convention is used to define the list of license names.  
If multiple licenses are present then this string will contain all the licenses seperated by the ',' character.  
  
If the license required to run a device at advipservices image level is advipservices and advsecurity, then the license name list will be 'advipservices,advsecurity'.  
SYNTAX OCTET STRING (SIZE (0..255))  
-- Table for executing license management actions.

cilmBootImageLevelTable OBJECT-TYPE  
SYNTAX SEQUENCE OF CilmBootImageLevelEntry  
MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

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

::= { ciscoImageLicenseMgmtMIBObjects 1 }

cilmBootImageLevelEntry

OBJECT-TYPE

SYNTAX CilmBootImageLevelEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

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

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

INDEX {  
    entPhysicalIndex,  
    cilmModuleName  
}

::= { cilmBootImageLevelTable 1 }

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

cilmModuleName OBJECT-TYPE

SYNTAX SnmpAdminString

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

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

For example, in a wireless image there can be two modules - a base image module and a wireless module."

::= { cilmBootImageLevelEntry 1 }

cilmCurrentImageLevel OBJECT-TYPE

SYNTAX BootImageLevel

MAX-ACCESS read-only

STATUS

current

DESCRIPTION

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

::= { cilmBootImageLevelEntry 2 }

cilmConfiguredBootImageLevel OBJECT-TYPE

SYNTAX BootImageLevel

MAX-ACCESS read-write

STATUS current

DESCRIPTION

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

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

::= { cilmBootImageLevelEntry 3 }

cilmNextBootImageLevel OBJECT-TYPE

SYNTAX BootImageLevel

MAX-ACCESS read-only

STATUS current

DESCRIPTION

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

image level is determined based

on the availability of required license."

::= { cilmBootImageLevelEntry 4 }

cilmCurrentLicenseStoreIndex OBJECT-TYPE

SYNTAX Unsigned32  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION

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

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

::= { cilmBootImageLevelEntry 5 }

#### cilmCurrentLicenseIndex OBJECT-TYPE

SYNTAX Unsigned32  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION

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

uniquely identifies an entry in clmgmtLicenseInfoTable in CISCO-LICENSE-MGMT-MIB.

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

::= { cilmBootImageLevelEntry 6 }

#### cilmNextBootLicenseStoreIndex OBJECT-TYPE

SYNTAX Unsigned32  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION

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

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

::= { cilmBootImageLevelEntry 7 }

#### cilmNextBootLicenseIndex OBJECT-TYPE

SYNTAX Unsigned32  
MAX-ACCESS read-only  
STATUS current

## DESCRIPTION

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

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

::= { cilmBootImageLevelEntry 8 }

## cilmImageLevelToLicenseMapTable OBJECT-TYPE

SYNTAX SEQUENCE OF CilmImageLevelToLicenseMapEntry

MAX-ACCESS not-accessible

STATUS current

## DESCRIPTION

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

::= { ciscoImageLicenseMgmtMIBObjects 2 }

## cilmImageLevelToLicenseMapEntry OBJECT-TYPE

SYNTAX CilmImageLevelToLicenseMapEntry

MAX-ACCESS not-accessible

STATUS current

## DESCRIPTION

"An entry in the table containing the following information.

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

INDEX {  
    entPhysicalIndex,  
    cilmModuleName,  
    cilmImageLicenseMapIndex  
}

::= { cilmImageLevelToLicenseMapTable 1 }

CilmImageLevelToLicenseMapEntry ::= SEQUENCE {

    cilmImageLicenseMapIndex Unsigned32,  
    cilmImageLicenseImageLevel BootImageLevel,  
    cilmImageLicenseName LicenseNameList,



```
cilmImageLicensePriority Unsigned32
}
```

**cilmImageLicenseMapIndex OBJECT-TYPE**

SYNTAX Unsigned32

MAX-ACCESS not-accessible

STATUS current

**DESCRIPTION**

"This is a running  
index used to identify an entry  
of this table."

::= { cilmImageLevelToLicenseMapEntry 1 }

**cilmImageLicenseImageLevel OBJECT-TYPE**

SYNTAX BootImageLevel

MAX-ACCESS read-only

STATUS current

**DESCRIPTION**

"This object indicates the image level at which  
a module can be run. A module can be run at  
different image levels. An entry will be created  
in this table for every module and image level  
combination."

::= { cilmImageLevelToLicenseMapEntry 2 }

**cilmImageLicenseName OBJECT-TYPE**

SYNTAX LicenseNameList

MAX-ACCESS read-only

STATUS current

**DESCRIPTION**

"This object indicates the list of licenses needed to  
be installed for the module to run at the image level  
mentioned by cilmImageLicenseImageLevel object of this  
entry."

::= { cilmImageLevelToLicenseMapEntry 3 }

**cilmImageLicensePriority OBJECT-TYPE**

SYNTAX Unsigned32

(1..255)

MAX-ACCESS read-only

STATUS current

**DESCRIPTION**

"This object indicates the priority of the image level  
mentioned by cilmImageLicenseImageLevel object of this  
entry. The image level with the highest priority license  
will be considered as the default level in the absence of  
next boot image level configuration. For example if there  
are three licenses I1, I2 and I3 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."

```
::= { 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  
SnmAdminString  
    FROM SNMP-FRAMEWORK-MIB  
entPhysicalIndex,  
PhysicalIndexOrZero  
    FROM ENTITY-MIB  
InetAddressType,  
InetAddress  
    FROM INET-ADDRESS-MIB  
ciscoMgmt  
    FROM CISCO-SMI;

ciscoLicenseMgmtMIB MODULE-IDENTITY

LAST-UPDATED "201204190000Z"  
ORGANIZATION "Cisco Systems Inc."  
CONTACT-INFO

"Cisco Systems  
Customer Service

Postal: 170 W Tasman Drive

San Jose, CA 95134

USA

Tel: +1 800 553 -NETS

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

DESCRIPTION

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

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

#### UDI

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

#### NODE LOCKED LICENSE:

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

#### NON-NODE LOCKED LICENSE:

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

#### METERED LICENSE:

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

#### EULA:

End User License Agreement.

#### EVALUATION LICENSE:

Evaluation licenses are non-node locked metered licenses which are valid only for a limited period. They are used only when there are no permanent, extension or grace period licenses for a feature.  
User

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

#### RIGHT TO USE (RTU) LICENSE:

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

locked, usage information is recorded on the device.

#### EXTENSION LICENSE:

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

EULA as part of installation of extension license.

#### GRACE PERIOD LICENSE:

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

#### PERMANENT LICENSE:

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

#### COUNTED LICENSE:

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

#### UNCOUNTED LICENSE:

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

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

#### IMAGE LEVEL LICENSING:

A universal image that contains all levels of software packages is loaded on to the device. At boot

time, the device determines the highest level of license and brings up the appropriate software features or subsystems.

#### FEATURE LEVEL LICENSING:

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

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

#### LICENSE LINE:

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

#### LICENSE FILE:

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

#### DEVICE CREDENTIALS:

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

#### REHOST:

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

#### PERMISSION TICKET:

Permission ticket is a document generated by Cisco licensing portal that allows



a device to rehost its licenses.

#### REHOST TICKET:

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

#### LICENSING PORTAL:

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

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

#### STEPS TO INSTALL A LICENSE:

To install a license, the management application

1. Retrieves device credentials of the device.
2. Communicates with Cisco's licensing portal to get the license file, uses device credentials to identify the device
3. Executes the license install action.

#### STEPS TO CLEAR A LICENSE:

To clear a license, the management application

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

#### STEPS TO REHOST A LICENSE:

To rehost a license, the management application

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

the new device to identify the device, gets license file.

6. Executes the license install action on the new

device.

#### STEPS TO REGENERATE LAST REHOST TICKET:

To regenerate last rehost ticket, the management application

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

#### STEPS TO BACKUP ALL LICENSES:

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

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

#### STEPS TO GENERATE & EXPORT EULA:

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

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

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

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

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

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

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

entPhysicalIndex imported from ENTITY-MIB is used to identify the device uniquely. It is specified as the index

or one of the index for tables in this MIB as needed."

REVISION "201204190000Z"

DESCRIPTION

"This version of the MIB adds support for Permanent Right to use (RTU) licensing. The revisions are:

- o Updated clmgmtLicenseType object to support the following new types of license:  
permanentRightToUse

The new module compliance is ciscoLicenseMgmtComplianceRev1."

REVISION "201104190000Z"

DESCRIPTION

"This version of the MIB adds support for Right to use (RTU) licensing. The revisions are:

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

The new module compliance is ciscoLicenseMgmtComplianceRev1."

REVISION "200811210000Z"

DESCRIPTION

"This version of the MIB adds support for subscription licensing. Subscription licenses provide software enforcement for a licensed feature for a fixed calendar period. The revisions are:

- o Updated clmgmtLicenseType object to support the following three new types of licenses:
  - paidSubscription
  - evaluationSubscription
  - extensionSubscription
- o Added following objects to clmgmtLicenseInfoTable
  - clmgmtLicenseStartDate
  - clmgmtLicenseEndDate
- o Added following objects to clmgmtLicensableFeatureTable
  - clmgmtFeatureStartDate
  - clmgmtFeatureEndDate
- o Added the following notifications
  - clmgmtLicenseSubscriptionExpiryWarning
  - clmgmtLicenseSubscriptionExtExpiryWarning
  - clmgmtLicenseSubscriptionExpired
- o Added the following conformance groups
  - clmgmtLicenseSubscriptionGroup
  - clmgmtLicenseSubscriptionUsageNotifGroup

The new module compliance is ciscoLicenseMgmtComplianceRev1."

REVISION "200610030000Z"

DESCRIPTION

"Initial version of this MIB module."

::= { ciscoMgmt 543 }

ciscoLicenseMgmtMIBNotifs OBJECT IDENTIFIER

::= { ciscoLicenseMgmtMIB 0 }

ciscoLicenseMgmtMIBObjects OBJECT IDENTIFIER

::= { ciscoLicenseMgmtMIB 1 }

ciscoLicenseMgmtMIBConform OBJECT IDENTIFIER

::= { ciscoLicenseMgmtMIB 2 }

clmgmtLicenseConfiguration OBJECT IDENTIFIER

::= { ciscoLicenseMgmtMIBObjects 1 }

clmgmtLicenseInformation

OBJECT IDENTIFIER

::= { ciscoLicenseMgmtMIBObjects 2 }

clmgmtLicenseDeviceInformation OBJECT IDENTIFIER

::= { ciscoLicenseMgmtMIBObjects 3 }

clmgmtLicenseNotifObjects OBJECT IDENTIFIER

::= { ciscoLicenseMgmtMIBObjects 4 }

ClmgmtLicenseIndex ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"A unique value, for each license in the managed system.

It is not necessary to have values assigned contiguously.

The value for each license must remain constant

at least from one re-initialization of the entity's

network management system to the next re-initialization"

SYNTAX Unsigned32 (1..4294967295)

ClmgmtLicenseIndexOrZero ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"This textual convention is an extension of the ClmgmtLicenseIndex

convention. The latter defines a greater than zero value

used to identify a license in the managed system.

This

extension permits the additional value of zero. The value

zero is object-specific and must therefore be defined as

part of the description of any object which uses this

syntax. Examples of the usage of zero might include

situations where license was not present or unknown."

SYNTAX Unsigned32

ClmgmtLicenseTransferProtocol ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"The transfer protocol that should be used for copying files

when performing license management. When the protocol is

set to local(2), local file system (flash or disk) is used.

Different agents may support different transfer protocols

and the management application is expected to some how determine

which protocol is supported and use."

SYNTAX INTEGER {

none(1),

local(2),

tftp(3),

ftp(4),

rcp(5),

http(6),

scp(7),

sftp(8)

}

ClmgmtLicenseActionState ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"The state of license action execution.

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

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

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

successful(4) - action has completed successfully.

partiallySuccessful(5) - action has completed, but was partially successful. Management application can query additional MIB

objects to know what is successful and what has failed. These additional objects are listed in the description of the corresponding action tables.

failed(6) - action has failed."

SYNTAX INTEGER {

none(1),

pending(2),

inProgress(3),

successful(4),

partiallySuccessful(5),

failed(6)

}

ClmgmtLicenseActionFailCause ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

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

none(1) - action execution has not started yet. If the action is

completed and the action

is successful, then also  
none(1) is returned to  
indicate that there are no  
errors.

generalFailure(2) - General licensing failure.

This will be used for resource  
unavailability failures.

Ex: Lack of memory.

transferProtocolNotSupported(3) - protocol selected is not  
supported.

fileServerNotReachable(4) - file server is not reachable.

unrecognizedEntPhysicalIndex(5) - entPhysicalIndex is not  
valid

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

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

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

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

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

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

invalidLicensePeriod(12) - Validity period is invalid for  
this expiring license.

licenseInUse(13) - License file is in use by a  
feature/image.

invalidLicenseStore(14) - License store is not valid.

licenseStorageFull(15) - There is  
no more space in the

license storage.

invalidPermissionTicketFile(16) - The permission ticket file  
path is not accessible.

invalidPermissionTicket(17) - The permission ticket file  
contents are not valid.

invalidRehostTicketFile(18) - The rehost ticket file path is  
not accessible.

invalidRehostTicket(19) - The rehost ticket file contents  
are not valid.

invalidLicenseBackupFile(20) - License backup store path  
is not accessible.

licenseClearInProgress(21) - When license clear action is

in progress, license backup  
action is not permitted to  
avoid race conditions. This

error code is sent back in  
response to a license backup  
action when a license clear  
action is in progress or in  
pending state. Try again in few  
seconds.

invalidLicenseEULAFile(22) - EULA file path is not accessible."

```
SYNTAX INTEGER {
 none(1),
 generalFailure(2),
 transferProtocolNotSupported(3),
 fileServerNotReachable(4),
 unrecognizedEntPhysicalIndex(5),
 invalidLicenseFilePath(6),
 invalidLicenseFile(7),
 invalidLicenseLine(8),
 licenseAlreadyExists(9),
 licenseNotValidForDevice(10),
 invalidLicenseCount(11),

 invalidLicensePeriod(12),
 licenseInUse(13),
 invalidLicenseStore(14),
 licenseStorageFull(15),
 invalidPermissionTicketFile(16),
 invalidPermissionTicket(17),
 invalidRehostTicketFile(18),
 invalidRehostTicket(19),
 invalidLicenseBackupFile(20),
 licenseClearInProgress(21),
 invalidLicenseEULAFile(22)
}
```

clmgmtNextFreeLicenseActionIndex OBJECT-TYPE

SYNTAX Unsigned32 (1..4294967295)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object contains appropriate value for  
clmgmtLicenseActionIndex that can be used to create  
an entry in clmgmtLicenseActionTable. The management application  
should read this object first and then use this as the  
value



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

```
::= { clmgmtLicenseConfiguration 1 }
```

-- Table for executing license management actions.

clmgmtLicenseActionTable OBJECT-TYPE

SYNTAX SEQUENCE OF ClmgmtLicenseActionEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A table for invoking license management actions. Management application must create a row

in this table to trigger any of

the license management actions. The following are different actions that can be executed using this table.

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

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

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

```
::= { clmgmtLicenseConfiguration 2 }
```

clmgmtLicenseActionEntry OBJECT-TYPE

SYNTAX ClmgmtLicenseActionEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An

entry for each action that is being executed or was

executed recently. The management application executes an action

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

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

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

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

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

just only that object. Once all the required objects are set to valid values, management application triggers action execution by setting `clmgmtLicenseActionRowStatus` to `active(1)`.

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

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

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

#### 1. Installing a license

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

- a. `clmgmtLicenseActionTransferProtocol`
- b. `clmgmtLicenseServerAddressType`

- c. clmgmtLicenseServerAddress
- d. clmgmtLicenseServerUsername
- e. clmgmtLicenseServerPassword
- f. clmgmtLicenseFile
- g. clmgmtLicenseStore
- h. clmgmtLicenseStopOnFailure
- i. clmgmtLicenseAcceptEULA
- j. clmgmtLicenseAction

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

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

## 2. Clearing a license

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

- a. clmgmtLicenseActionEntPhysicalIndex
- b. clmgmtLicenseActionLicenseIndex
- c. clmgmtLicenseStore
- d. clmgmtLicenseAction

## 3. Revoking a license

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

- a. clmgmtLicenseActionTransferProtocol
- b. clmgmtLicenseServerAddressType
- c. clmgmtLicenseServerAddress
- d. clmgmtLicenseServerUsername
- e. clmgmtLicenseServerPassword
- f. clmgmtLicensePermissionTicketFile
- g. clmgmtLicenseRehostTicketFile
- h. clmgmtLicenseStopOnFailure
- i. clmgmtLicenseAction

## 4. Regenerate last rehost ticket

The following MIB objects need to be set for regenerating last rehost ticket

- a. clmgmtLicenseActionTransferProtocol
- b. clmgmtLicenseServerAddressType

- c. clmgmtLicenseServerAddress
- d. clmgmtLicenseServerUsername
- e. clmgmtLicenseServerPassword
- f. clmgmtLicensePermissionTicketFile
- g. clmgmtLicenseRehostTicketFile
- h. clmgmtLicenseStopOnFailure
- i. clmgmtLicenseAction

5. Save all licenses to a backup storage

The following MIB objects need to be set for storing all licenses to a backup store

- a. clmgmtLicenseActionEntPhysicalIndex
- b. clmgmtLicenseActionTransferProtocol
- c. clmgmtLicenseServerAddressType
- d. clmgmtLicenseServerAddress
- e. clmgmtLicenseServerUsername
- f. clmgmtLicenseServerPassword
- g. clmgmtLicenseBackupFile
- h. clmgmtLicenseAction

6. Generate and export EULA if the licenses need EULA to be accepted for installing.

The following MIB objects need to be set exporting required EULAs

- a. clmgmtLicenseActionTransferProtocol
- b. clmgmtLicenseServerAddressType
- c. clmgmtLicenseServerAddress
- d. clmgmtLicenseServerUsername
- e. clmgmtLicenseServerPassword
- f. clmgmtLicenseFile
- g. clmgmtLicenseEULAFile
- h. clmgmtLicenseAction

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

- a. clmgmtLicenseServerAddressType
  
- b. clmgmtLicenseServerAddress
- c. clmgmtLicenseServerUsername
- d. clmgmtLicenseServerPassword

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

```
INDEX { clmgmtLicenseActionIndex }
 ::= { clmgmtLicenseActionTable 1 }
```

```

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

```

clmgmtLicenseActionIndex OBJECT-TYPE

SYNTAX Unsigned32 (1..4294967295)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This object uniquely identifies a row in  
clmgmtLicenseActionTable.

The management application should choose

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

::= { clmgmtLicenseActionEntry 1 }

clmgmtLicenseActionEntPhysicalIndex OBJECT-TYPE

SYNTAX PhysicalIndexOrZero

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object represents the entPhysicalIndex of the device

where the action is being executed. This object is mainly used in devices where one device is acting as a master and rest of the devices as slaves. The master device is responsible for SNMP communication with the management application. Examples

include stackable switches, devices

with route processor and line card configuration. If this object is not set, the license action will be executed on the master device. Note: This object need not be set if there is a stand alone device"

```
DEFVAL { 0 }
::= { clmgmtLicenseActionEntry 2 }
```

clmgmtLicenseActionTransferProtocol OBJECT-TYPE

```
SYNTAX ClmgmtLicenseTransferProtocol
```

```
MAX-ACCESS read-create
```

```
STATUS current
```

DESCRIPTION

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

1. clmgmtLicenseFile
2. clmgmtLicensePermissionTicketFile
3. clmgmtLicenseRehostTicketFile
4. clmgmtLicenseBackupFile

Note: This object need not be set if the all the files required for the action are in device's local file system."

```
DEFVAL { none }
::= { clmgmtLicenseActionEntry 3 }
```

clmgmtLicenseServerAddressType

OBJECT-TYPE

```
SYNTAX InetAddressType
```

```
MAX-ACCESS read-create
```

```
STATUS current
```

DESCRIPTION

"This object indicates the transport type of the address contained in clmgmtLicenseServerAddress object. This must be set when clmgmtLicenseActionTransferProtocol is not none(1) or local(2)."

```
DEFVAL { unknown }
::= { clmgmtLicenseActionEntry 4 }
```

clmgmtLicenseServerAddress OBJECT-TYPE

```
SYNTAX InetAddress
```

```
MAX-ACCESS read-create
```

```
STATUS current
```

DESCRIPTION

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

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

The format of this address depends on the value of the clmgmtLicenseServerAddressType object"

DEFVAL

{ "" }

::= { clmgmtLicenseActionEntry 5 }

clmgmtLicenseServerUsername OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..96))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the remote user name for accessing files via ftp, rcp, sftp or scp protocols. This object must be set when the clmgmtLicenseActionTransferProtocol is ftp(4), rcp(5), scp(7) or sftp(8). If 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 nscs --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";
}
```

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

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

```
leaf jnxLicenseType {
 type enumeration {
 enum "invalid" {
 value "0";
 }
 enum "count-down" {
 value "1";
 }
 enum "date-based" {
 value "2";
 }
 enum "permanent" {
 value "3";
 }
 }
 description
 "License type information";
 smiv2:max-access "read-only";
 smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.1.1.4";
}
```

```
leaf jnxLicenseKeys {
```

```

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

leaf jnxLicenseKeyType {
 type enumeration
{
 enum "commercial" {
 value "1";
 }
 enum "trial" {
 value "2";
 }
 enum "demo" {
 value "3";
 }
 enum "emergency" {
 value "4";
 }
 enum "lab" {
 value "5";
 }
 enum "education" {
 value "6";
 }
}
 description
 "License key type";
 smiv2:max-access "read-only";
 smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.1.1.6";
}
}
}

```

```

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

```

```

 list jnxLicenseFeatureListEntry {
 key "jnxLicenseFeatureId";

```



```

description
 "A row of licensed features.";
smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.2.1";

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

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

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

leaf jnxLicenseFeatureLicenseId {
 type snmpv2-tc:DisplayString;
 description
 "Feature License Id";
 smiv2:max-access "read-only";
 smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.2.1.4";
}

leaf jnxLicenseFeatureLicenseUsed {
 type int32;
 description

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

leaf jnxLicenseFeatureLicenseInstalled {
 type int32;
 description

```

```

 "Licenses Installed";
 smiv2:max-access "read-only";
 smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.2.1.6";
}

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

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

 container object-1 {

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

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

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

 container object-1 {

```

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

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

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

```
container object-1 {
```

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

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

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

```

container object-1 {

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

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

```

```

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

```

```

container object-1 {

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

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

```

```

notification jnxLicenseKeyExpired {
 description
 "The SNMP trap that is generated when the license for feature
 identified by jnxLicenseFeatureName is not valid i.e. either expired or

```

```

not available.";
smiv2:oid "1.3.6.1.4.1.2636.3.63.1.0.6";

container object-1 {

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

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

container object-2 {

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

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

container object-3
{

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

 leaf jnxLicenseKeyType {

```

```

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

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

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

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

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

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

}

module openconfig-license {

 yang-version "1";

 namespace "http://openconfig.net/yang/license";

 prefix "oc-license";

 import openconfig-extensions { prefix oc-ext; }

 organization "OpenConfig working group";

 contact
 "OpenConfig working group
 www.openconfig.net";

 description
 "This module defines configuration and operational
 state data for licenses.";
}

```

```

oc-ext:openconfig-version "0.2.0";

revision "2020-04-22" {
 description
 "Make license-data a union of a string or binary.";
 reference "0.2.0";
}

revision "2020-01-07" {
 description
 "Initial revision";
 reference "0.1.0";
}

// OpenConfig specific extensions for module metadata.
oc-ext:regexp-posix;
oc-ext:catalog-organization "openconfig";
oc-ext:origin "openconfig";

grouping license-config {
 description
 "Configuration data for license";

 leaf license-id {
 type string;
 description
 "License ID. A string that 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 nsc --mib2yang-std
 * Source: MIB_SOURCES_POST_PROCESSED/CISCO-IMAGE-LICENSE-MGMT-MIB.mib
 */
/*
 * This YANG module has been generated by smidump 0.5.0:
 *
 * smidump -f yang CISCO-IMAGE-LICENSE-MGMT-MIB
 *
 * Do not edit. Edit the source file instead!
 */

module CISCO-IMAGE-LICENSE-MGMT-MIB {

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

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

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

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

 organization
 "Cisco Systems Inc.";

```

contact

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

description

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

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

The image level licensing mechanism works as follows -

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

Scenario 1:

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

that are part of the

base advsecurity license.

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

Scenario 2:

- Customer selects advipservicesk9 based image.
- Manufacturing installs advipservices and advsecurity license on the device.
- This device will run all features that are part of the

base advipservices license.

- No upgrades available for advipservices license.

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

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

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

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

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

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

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

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

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

```
typedef LicenseNameList
{
 type binary {
 length "0..255";
```

```

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

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

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

 container ciscoImageLicenseMgmtMIBObjects {
 smiv2:oid "1.3.6.1.4.1.9.9.640.1";

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

 container cilmNotifCntl {
 smiv2:oid "1.3.6.1.4.1.9.9.640.1.4";

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

 If set to TRUE, cilmBootImageLevelChanged notification
 will be generated. It is the responsibility of the
 management entity to ensure that the SNMP administrative

```

```

 model is configured in such a way as to allow the
 notification to be delivered.";
reference
 "See also RFC3413 for explanation that notifications
 are under the ultimate control of the MIB module in
 this document.";
smiv2:defval "false";
smiv2:max-access "read-write";
smiv2:oid "1.3.6.1.4.1.9.9.640.1.4.1";
}
}

container cilmBootImageLevelTable {
description
 "A table that contains the configuration information of
 current and next boot image level. This table contains
 entries for each software module running in an image
 loaded in the device. The software module is identified by
 cilmModuleName and the device is identified by
 entPhysicalIndex.";
smiv2:oid "1.3.6.1.4.1.9.9.640.1.1";

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

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

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

leaf cilmModuleName {
 type snmp-framework:SnmpAdminString;

```

```

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

```

```

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

```

```

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

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

```

```

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

```

```

leaf cilmCurrentLicenseStoreIndex {
 type uint32;
}

```

description

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

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

smiv2:max-access "read-only";

smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1.5";

}

leaf cilmCurrentLicenseIndex {

type uint32;

description

"This object indicates the license index of the currently used license. This object has the same value as clmgmtLicenseIndex and uniquely identifies an entry in clmgmtLicenseInfoTable in CISCO-LICENSE-MGMT-MIB.

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

smiv2:max-access "read-only";

smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1.6";

}

leaf cilmNextBootLicenseStoreIndex {

type uint32;

description

"This object indicates the license store index where the next boot license is stored. This object has the same value as clmgmtLicenseStoreIndex object and uniquely identifies an entry in clmgmtLicenseStoreInfoTable in

CISCO-LICENSE-MGMT-MIB.

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

smiv2:max-access "read-only";

smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1.7";

}

leaf cilmNextBootLicenseIndex {

type uint32;

description

"This object indicates the license index of the next boot



license. This object has the same value as clmgmtLicenseIndex and uniquely identifies an entry in clmgmtLicenseInfoTable in CISCO-LICENSE-MGMT-MIB.

```
Note: The license index can be '0' if no license is
installed for the next boot.";
smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1.8";
}
}
}
```

```
container cilmImageLevelToLicenseMapTable {
description
"This table contains the mapping between different
image levels of each modules in the
image and the
license required to run the modules at a particular
image level. This table can be used to identify the
different image levels and the appropriate licenses
required for each.";
smiv2:oid "1.3.6.1.4.1.9.9.640.1.2";
```

```
list cilmImageLevelToLicenseMapEntry {
key "entPhysicalIndex cilmModuleName cilmImageLicenseMapIndex";
description
"An entry in the table containing the following
information.
- The image levels at the which the modules can be run.
- The license required to the run a module at a
particular image level.
- The priority of the license.";
smiv2:oid "1.3.6.1.4.1.9.9.640.1.2.1";
```

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

```
leaf cilmModuleName {
type leafref {

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

```

}

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

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

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

leaf cilmImageLicensePriority {
 type uint32 {
 range "1..255";
 }
 description
 "This object indicates the priority of the image level
 mentioned by cilmImageLicenseImageLevel object of this
 entry. The image level with the highest priority license
 will be considered as the default level in the absense of
 next boot image level configuration. For example if there
 are three licenses l1, l2 and l3 in the ascending order of

 priority, then by default l1 will be the level at which the
 module will be running. If the next boot level is configured

```

```

 then the configuration will override the priority. The highest
 priority license supports a feature set which is a super set of
 all other licenses.";
 smiv2:max-access "read-only";
 smiv2:oid "1.3.6.1.4.1.9.9.640.1.2.1.4";
 }
 }
 }
}

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

 container object-1 {

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

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

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

 container object-2 {

 leaf entPhysicalIndex {
 type leafref {

```

```

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

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

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

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

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

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

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

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

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

smiv2:alias "cilmModuleGroups" {

```

```

 smiv2:oid "1.3.6.1.4.1.9.9.640.2.2";
}

}

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

Paul Borman <borman@google.com>
Andrew Fort <afort@arista.com>
Rob Shakir <robjs@google.com>
--
-- Juniper Enterprise Specific MIB: License MIB
--
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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
-- *****
```

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

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

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

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

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

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

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

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

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

END

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## 1.299 google-cloud-go 0.65.0

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

package compute

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

 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/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
}

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

```

```

(*computepb.TestPermissionsResponse, error)
}

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

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

// Wrapper methods routed to the internal client.

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

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

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

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

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is

```

```

intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

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

 // The http client.
 httpClient *http.Client

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

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

 c := &licenseCodesRESTClient{
 endpoint: endpoint,
 httpClient: httpClient,
 }
 c.setGoogleClientInfo()

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

func defaultLicenseCodesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
 internaloption.WithDefaultEndpoint("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, "gopic", versionClient, "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

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

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

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
// License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
// Marketplace images.
func (c *licenseCodesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption) (*computepb.LicenseCode, error) {
 baseUrl, _ := url.Parse(c.endpoint)
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v", req.GetProject(),
req.GetLicenseCode())

 httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
 if err != nil {
 return nil, err
 }
 httpReq = httpReq.WithContext(ctx)
 // Set the headers
 for k, v := range c.xGoogMetadata {
 httpReq.Header[k] = v
 }
 httpReq.Header["Content-Type"] = []string{"application/json"}

 httpRsp,

```

```

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

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

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

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.LicenseCode{ }

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

 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
 return nil, err
 }
 httpReq = httpReq.WithContext(ctx)
 // Set the headers
 for k, v := range c.xGoogMetadata {

```



```

 httpReq.Header[k] = v
}
httpReq.Header["Content-Type"] = []string{"application/json"}

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

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

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

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.TestPermissionsResponse{}

if err := unm.Unmarshal(buf, rsp); err != nil {
 return nil, maybeUnknownEnum(err)
}
return
rsp, nil
}
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// limitations under the License.

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

package compute

import (
 "bytes"

```

```

"context"
"fmt"
"io/ioutil"
"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
}

// 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

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

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

c := &licensesRESTClient{
endpoint: endpoint,
httpClient: httpClient,
}
c.setGoogleClientInfo()

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

func defaultLicensesRESTClientOptions() []option.ClientOption {
return []option.ClientOption{
internaloption.WithDefaultEndpoint("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, "gpic", versionClient, "gax", gax.Version, "rest", "UNKNOWN")

```

```

c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

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

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

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

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

 baseUrl.RawQuery = params.Encode()

 httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
 if err != nil {
 return nil, err
 }
 httpReq = httpReq.WithContext(ctx)
 // Set the headers
 for k, v := range c.xGoogMetadata {
 httpReq.Header[k] = v
 }
 httpReq.Header["Content-Type"] = []string{"application/json"}

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

```

```

defer httpRsp.Body.Close()

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

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

unm := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true }
rsp := &compute.Operation{ }

if err := unm.Unmarshal(buf, rsp); err != nil {
 return nil, maybeUnknownEnum(err)
}
op := &Operation{ proto: rsp }
return op, err
}

// 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 *compute.GetLicenseRequest, opts ...gax.CallOption)
(*compute.License, error) {
 baseUrl, _ := url.Parse(c.endpoint)
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
 if err != nil {
 return nil, err
 }
 httpReq = httpReq.WithContext(ctx)
 // Set the headers
 for
 k, v := range c.xGoogMetadata {
 httpReq.Header[k] = v
 }
 httpReq.Header["Content-Type"] = []string{"application/json"}

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

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

```

```

return nil, err
}

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

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.License{}

if err := unm.Unmarshal(buf, rsp); err != nil {
return nil, maybeUnknownEnum(err)
}
return rsp, 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,
_ := url.Parse(c.endpoint)
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

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

baseUrl.RawQuery = params.Encode()

httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
if err != nil {
return nil, err
}
httpReq = httpReq.WithContext(ctx)
// Set the headers
for k, v := range c.xGoogMetadata {
httpReq.Header[k] = v
}
httpReq.Header["Content-Type"] = []string{"application/json"}

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

```



```

defer httpRsp.Body.Close()

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

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

unm := protojson.UnmarshalOptions{AllowPartial: true,
DiscardUnknown: true}
rsp := &computepb.Policy{}

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

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

 baseUrl.RawQuery = params.Encode()

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

```

```

// Set the headers
for k, v := range c.xGoogMetadata {
 httpReq.Header[k] = v
}
httpReq.Header["Content-Type"] = []string{"application/json"}

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

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

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

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.Operation{}

if err := unm.Unmarshal(buf, rsp); err != nil {
 return nil, maybeUnknownEnum(err)
}
op := &Operation{proto: rsp}
return op, err
}

// 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, _ := url.Parse(c.endpoint)
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses",
req.GetProject())

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

baseUrl.RawQuery = params.Encode()

httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
if err != nil {
return nil, "", err
}

// Set the headers
for k, v := range c.xGoogMetadata {
httpReq.Header[k] = v
}

httpReq.Header["Content-Type"] = []string{"application/json"}
httpRsp, err := c.httpClient.Do(httpReq)
if
err != nil {
return nil, "", err
}
defer httpRsp.Body.Close()

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

```

```

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

unm.Unmarshal(buf, resp)
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, _ := url.Parse(c.endpoint)
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

```

```

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

```

```

// Set the headers
for k, v := range c.xGoogMetadata {
 httpReq.Header[k] = v
}
httpReq.Header["Content-Type"] = []string{"application/json"}

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

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

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

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.Policy{}

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

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

 baseUrl, _ := url.Parse(c.endpoint)
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))

```

```

if err != nil {
 return nil, err
}
httpReq = httpReq.WithContext(ctx)
// Set the headers
for k, v := range c.xGoogMetadata {
 httpReq.Header[k] = v
}
httpReq.Header["Content-Type"] = []string{"application/json"}

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

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

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

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.TestPermissionsResponse{}

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

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

```
)
```

```
func ExampleNewLicensesRESTClient() {
```

```
 ctx := context.Background()
```

```
 c, err := compute.NewLicensesRESTClient(ctx)
```

```
 if err != nil {
```

```
 // TODO: Handle error.
```

```

}
defer
c.Close()

// TODO: Use client.
_ = c
}

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

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

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

req := &computepb.GetLicenseRequest{
// TODO: Fill request struct fields.
// 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.
 }
 resp, err := c.Insert(ctx, req)
 if err != nil {
 // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

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

```



```

defer c.Close()

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

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

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

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

```

```

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

```

# 1.300 robot-oam-grpc 0.0.0-20210923091523-4e2f9f7191f9

## 1.300.1 Available under license :

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```

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```

Found in path(s):

```

* /opt/cola/permits/1212165166_1681933120.379923/0/oam-grpc-4e2f9f7191f92f92679b0d6728f479cb6cfc776a-
zip/oam-grpc-4e2f9f7191f92f92679b0d6728f479cb6cfc776a/goprotogen/telemetry.pb.go

```

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

```

/* -----
* Crosswork CDG Output format - protobuf definitions
*
* September 2019
*
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```

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\* limitations under the License.  
\* -----  
\*/

Found in path(s):

\*/opt/cola/permits/1212165166\_1681933120.379923/0/oam-grpc-4e2f9f7191f92f92679b0d6728f479cb6cfc776a-  
zip/oam-grpc-4e2f9f7191f92f92679b0d6728f479cb6cfc776a/proto/commands/telemetry.proto

## 1.301 lib-pq 1.10.5

### 1.301.1 Available under license :

```
//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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# 1.302 go-immutable-radix 1.3.0

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## 1.303 [github.com/aws/aws-sdk-go-v2/aws/protocol/eventstream](https://github.com/aws/aws-sdk-go-v2/aws/protocol/eventstream) 1.0.0

### 1.303.1 Available under license :

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
 params = &ListReceivedLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListReceivedLicensesInput struct {
```

```

// Filters to scope the results. The following filters are supported:
//
//
// *
// ProductSKU
//
// * Status
//
// * Fingerprint
//
// * IssuerName
//
// * Beneficiary
Filters []types.Filter

// Amazon Resource Names (ARNs) of the licenses.
LicenseArns []string

// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string

noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

// Received license details.
Licenses []types.GrantedLicense

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{ }, middleware.After)

```

```

if err != nil {
 return
err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err !=
nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
}

```

```

if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "ListReceivedLicenses",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
 params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

```



```

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier that you
 // provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see RFC 7518 Digital Signature with
 // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5).
 //
 // This member is required.
 DigitalSignatureMethod types.DigitalSignatureMethod

 // License entitlements. Partial checkouts are not supported.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Amazon Resource Name (ARN) of the license. The license must use the borrow
 // consumption configuration.
 //
 // This member is required.
 LicenseArn *string

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

```

```

type CheckoutBorrowLicenseOutput struct {

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Allowed license entitlements.
 EntitlementsAllowed
 []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string
}

```

```

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
}

```

```

if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err
= stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CheckoutBorrowLicense",
}
}

```

```

}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
 params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary
 *string

 noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.

```

ResultMetadata middleware.Metadata

```
noSmithyDocumentSerde
}
```

```
func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack,
options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
}
```

```

if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil
{
 return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CheckInLicense",
 }
}
name: License Scan

on: [pull_request]

jobs:
 licensescan:
 name: License Scan
 runs-on: ubuntu-latest
 strategy:
 matrix:
 python-version: [3.9]

 steps:
 - name: Checkout target
 uses: actions/checkout@v2
 with:

```

```

 path: sdkbase
 ref: ${{ github.base_ref }}
- name: Checkout this ref
 uses: actions/checkout@v2
 with:
 path: new-ref
 fetch-depth: 0
- name: Get Diff
 run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}
${{ github.sha }} > refDiffFiles.txt
- name: Get Target Files
 run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
- name: Checkout scancode
 uses: actions/checkout@v2
 with:
 repository: nexB/scancode-toolkit
 path: scancode-toolkit
 fetch-depth: 1
- name: Set up Python ${{ matrix.python-version }}
 uses: actions/setup-python@v2
 with:
 python-version: ${{ matrix.python-version }}
ScanCode
- name: Self-configure scancode
 working-directory: ./scancode-toolkit
 run: ./scancode --help
- name: Run Scan code on target
 run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
- name: Run Scan code on pr ref
 run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
compare
- name: License test
 run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

```

```
package licensemanager
```

```

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

```

```

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
 params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide to ensure
 the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Configuration for consumption of the license. Choose a provisional configuration
 // for workloads running with continuous connectivity. Choose a borrow
 // configuration for workloads with offline usage.
 //
 // This member is required.
 ConsumptionConfiguration *types.ConsumptionConfiguration

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.Entitlement

 // Home Region for the license.
 //
 // This member is required.

```



```

HomeRegion *string

// License issuer.
//
// This member is required.
Issuer *types.Issuer

// License name.
//
// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange

//
// Information about the license.
LicenseMetadata []types.Metadata

noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License status.
Status types.LicenseStatus

// License version.
Version *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

```

```
noSmithyDocumentSerde
```

```
}
```

```
func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack);
 err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
}
```

```

}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
 return
err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CreateLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
"context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/grafana/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
if params == nil {
 params = &DisassociateLicenseInput{}
}
}

```

```

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //
 // This
 member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

 // A structure containing information about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{ }, middleware.After)

```

```

if err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {

```

```

 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "grafana",
 OperationName: "DisassociateLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
 params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata

```

```

return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version
 *string

 noSmithyDocumentSerde
}

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
}

```

```

}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if
err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack,
options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{

```



```

Region: region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "GetLicense",
}
}
AWS SDK for Go
Copyright 2015 Amazon.com, Inc. or its affiliates. All Rights Reserved.
Copyright 2014-2015 Stripe, Inc.
// Code generated by smithy-go-codegen DO NOT EDIT.

```

```
package licensemanager
```

```

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
 params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutLicenseInput struct {

 // Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive

```

```

identifier that you provide to ensure the idempotency of
// the request.
//
// This member is required.
ClientToken *string

// License entitlements.
//
// This member is required.
Entitlements []types.EntitlementData

// Key fingerprint identifying the license.
//
// This member is required.
KeyFingerprint *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// License beneficiary.
Beneficiary *string

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

// Checkout type.
CheckoutType types.CheckoutType

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the checkout license.
LicenseArn *string

// License consumption token.

```

```

LicenseConsumptionToken *string

// Node ID.
NodeId *string

//
Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err
 != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
}

```

```

}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return
nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CheckoutLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"

```

```

awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
 params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 // *
 // Beneficiary
 //
 // * ProductSKU
 //
 // * Fingerprint
 //
 //
 // * Status
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

```

```

noSmithyDocumentSerde
}

type ListLicensesOutput struct {

// License details.
Licenses []types.License

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}

```

```

}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "ListLicenses",
 }
}

```

// Code generated by smithy-go-codegen DO NOT EDIT.

```
package licensemanager
```

```
import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"

```

```

"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
 params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version of the
 license.
 //
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

 // Date when the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus

 // Metadata pertaining to the operation's result.

```



ResultMetadata middleware.Metadata

```
noSmithyDocumentSerde
}
```

```
func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack,
options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
}
```

```

if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack);
err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "DeleteLicense",
}
}

```

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// Code generated by smithy-go-codegen DO NOT EDIT.

```
package grafana
```

```
import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)
```

```
// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
```

```
// Enterprise incurs additional fees. For more information, see Upgrade a workspace
```

```
// to Grafana Enterprise
```

```
// (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html).
```

```
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
```

```
(*AssociateLicenseOutput, error) {
```

```

if params == nil {
 params = &AssociateLicenseInput{}
}

result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
if err != nil {
 return nil, err
}

out
:= result.(*AssociateLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

 // A structure containing data about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{ }, middleware.After)
 if err != nil {
 return err
 }
}

```



```

}
err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{ }, middleware.After)
if
err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
err != nil {
return err
}
if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {

```

```

return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region: region,
ServiceID: ServiceID,
SigningName: "grafana",
OperationName: "AssociateLicense",
}
}

```

## 1.304 urllib3 1.26.12

### 1.304.1 Available under license :

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## 1.305 go.uber.org/atomi 1.10.0

### 1.305.1 Available under license :

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## 1.306 webencodings 0.5.1

### 1.306.1 Available under license :

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python-webencodings

=====

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

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

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

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

Found in path(s):

```
* /opt/cola/permits/1401468445_1661617535.3616152/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/README.rst
```

No license file was found, but licenses were detected in source scan.

```
from setuptools import setup, find_packages
import io
from os import path
import re
```

```
VERSION = re.search("VERSION = '([^\s]+)'", io.open(
 path.join(path.dirname(__file__), 'webencodings', '__init__.py'),
 encoding='utf-8'
).read().strip()).group(1)
```

```
LONG_DESCRIPTION = io.open(
 path.join(path.dirname(__file__), 'README.rst'),
 encoding='utf-8'
).read()
```

```
setup(
 name='webencodings',
 version=VERSION,
 url='https://github.com/SimonSapin/python-webencodings',
 license='BSD',
 author='Simon Sapin',
 author_email='simon.sapin@exyr.org',
 maintainer='Geoffrey Sneddon',
 maintainer_email='me@gsnedders.com',
 description='Character encoding aliases for legacy web content',
 long_description=LONG_DESCRIPTION,
 classifiers=[
```

```

'Development Status :: 4 - Beta',
'Intended Audience :: Developers',
'License :: OSI Approved :: BSD License',
'Programming Language
:: Python',
'Programming Language :: Python :: 2',
'Programming Language :: Python :: 2.6',
'Programming Language :: Python :: 2.7',
'Programming Language :: Python :: 3',
'Programming Language :: Python :: 3.3',
'Programming Language :: Python :: 3.4',
'Programming Language :: Python :: 3.5',
'Programming Language :: Python :: 3.6',
'Programming Language :: Python :: Implementation :: CPython',
'Programming Language :: Python :: Implementation :: PyPy',
'Topic :: Internet :: WWW/HTTP',
],
packages=find_packages(),
)

```

Found in path(s):

```
* /opt/cola/permits/1401468445_1661617535.3616152/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/setup.py
```

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"""

```
webencodings.mklabels
```

```
~~~~~
```

Regenerate the webencodings.labels module.

```
:copyright: Copyright 2012 by Simon Sapin
```

```
:license: BSD, see LICENSE for details.
```

"""

```
import json
```

```
try:
```

```
    from urllib import urlopen
```

```
except ImportError:
```

```
    from urllib.request import urlopen
```

```
def assert_lower(string):
```

```
    assert string == string.lower()
```

```
    return string
```

```

def generate(url):
    parts = ["\
"""

webencodings.labels
~~~~~

Map encoding labels to their name.

:copyright: Copyright 2012 by Simon Sapin
:license: BSD, see LICENSE for details.

"""

XXX Do not edit!
This file is automatically generated by mklabels.py

LABELS = {
 ""
 labels = [
 (repr(assert_lower(label)).lstrip('u'),
 repr(encoding['name']).lstrip('u'))
 for category in json.loads(urlopen(url).read().decode('ascii'))
 for encoding in category['encodings']
 for label in encoding['labels']]
 max_len = max(len(label) for label, name in labels)
 parts.extend(
 ' %s:%s %s,\n' % (label, ' ' * (max_len - len(label)), name)
 for label, name in labels)
 parts.append('}')
 return ".join(parts)

if __name__ == '__main__':
 print(generate('http://encoding.spec.whatwg.org/encodings.json'))

Found in path(s):
* /opt/cola/permits/1401468445_1661617535.3616152/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/mklabels.py
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Found in path(s):
* /opt/cola/permits/1401468445_1661617535.3616152/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/labels.py
* /opt/cola/permits/1401468445_1661617535.3616152/0/webencodings-0-5-1-1-tar-gz/webencodings-

```

0.5.1/webencodings/\_\_\_init\_\_\_py

\* /opt/cola/permits/1401468445\_1661617535.3616152/0/webencodings-0-5-1-1-tar-gz/webencodings-

0.5.1/webencodings/tests.py

\* /opt/cola/permits/1401468445\_1661617535.3616152/0/webencodings-0-5-1-1-tar-gz/webencodings-

0.5.1/webencodings/x\_user\_defined.py

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Metadata-Version: 1.1

Name: webencodings

Version: 0.5.1

Summary: Character encoding aliases for legacy web content

Home-page: <https://github.com/SimonSapin/python-webencodings>

Author: Geoffrey Sneddon

Author-email: [me@gsnedders.com](mailto:me@gsnedders.com)

License: BSD

Description: python-webencodings

=====

This is a Python implementation of the `WHATWG Encoding standard`  
<<http://encoding.spec.whatwg.org/>>`\_.

\* Latest documentation: <http://packages.python.org/webencodings/>

\* Source code and issue tracker:

<https://github.com/gsnedders/python-webencodings>

\* PyPI releases: <http://pypi.python.org/pypi/webencodings>

\* License: BSD

\* Python 2.6+ and 3.3+

In order to be compatible with legacy web content

when interpreting something like ``Content-Type: text/html; charset=latin1``,

tools need to use a particular set

of aliases for encoding labels

as well as some overriding rules.

For example, ``US-ASCII`` and ``iso-8859-1`` on the web are actually

aliases for ``windows-1252``, and an UTF-8 or UTF-16 BOM takes precedence

over any other encoding declaration.

The Encoding standard defines all such details so that implementations do

not have to reverse-engineer each other.

This module has encoding labels and BOM detection,

but the actual implementation for encoders and decoders is Python's.

Platform: UNKNOWN

Classifier: Development Status :: 4 - Beta

Classifier: Intended Audience :: Developers

Classifier: License :: OSI Approved :: BSD License

Classifier: Programming Language :: Python

Classifier: Programming Language :: Python :: 2

Classifier: Programming Language :: Python :: 2.6  
Classifier: Programming Language :: Python :: 2.7  
Classifier: Programming Language :: Python :: 3  
Classifier: Programming Language :: Python  
:: 3.3  
Classifier: Programming Language :: Python :: 3.4  
Classifier: Programming Language :: Python :: 3.5  
Classifier: Programming Language :: Python :: 3.6  
Classifier: Programming Language :: Python :: Implementation :: CPython  
Classifier: Programming Language :: Python :: Implementation :: PyPy  
Classifier: Topic :: Internet :: WWW/HTTP

Found in path(s):

\* /opt/cola/permits/1401468445\_1661617535.3616152/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings.egg-info/PKG-INFO

\* /opt/cola/permits/1401468445\_1661617535.3616152/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/PKG-INFO

# 1.307 packaging 21.3

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## 1.308 pyparsing 3.0.9

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## 1.312 chardet 5.0.0

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## 1.314 importlib-resources 5.9.0

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# 1.318 x-crypto 0.0.0-20220926161630- eccd6366d1be

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# 1.319 nats.go 1.13.1-0.20211018182449-f2416a8b1483

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## 1.320 aws-aws-sdk-go-v2 1.6.1

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```
package licensemanager
```

```
import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
```

```

)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
 params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
addOperationDeleteLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version of the license.
 //
 //
 // This member is required.
 SourceVersion *string
}

type DeleteLicenseOutput struct {

 // Date on which the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata
}

func addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense {}, middleware.After)

```

```

if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{ }, middleware.After)
if err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if
err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),

```

```

middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack);
err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "DeleteLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
 params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns, addOperationGetLicenseMiddlewares)
 if err != nil {
 return nil, err
 }
}

```

```

out := result.(*GetLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version
 *string
}

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata
}

func addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
}

```



```

if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil
{
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opGetLicense(region
string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,

```

```

ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "GetLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
"context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
if params == nil {
params = &ListLicensesInput{}
}

result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
addOperationListLicensesMiddlewares)
if err != nil {
return nil, err
}

out := result.(*ListLicensesOutput)
out.ResultMetadata = metadata
return out, nil
}

type ListLicensesInput struct {

// Filters to scope the results. The following filters are supported:
//
// *
// Beneficiary
//
// * ProductSKU
//
// * KeyFingerprint
//
//

```

```

* Status
Filters []types.Filter

// Amazon Resource Names (ARNs) of the licenses.
LicenseArns []string

// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string
}

type ListLicensesOutput struct {

// License details.
Licenses []types.License

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata
}

func addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if
err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {

```

```

return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack);
err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region: region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "ListLicenses",
}
}

```

```

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
 params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
addOperationCheckoutLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutLicenseInput struct {

 // Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive
 identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // License entitlements.
 //
 // This member is required.

```

```

Entitlements []types.EntitlementData

// Key fingerprint identifying the license.
//
// This member is required.
KeyFingerprint *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// License beneficiary.
Beneficiary *string

// Node ID.
NodeId *string
}

type CheckoutLicenseOutput struct {

// Checkout type.
CheckoutType types.CheckoutType

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata
middleware.Metadata
}

func addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {

```

```

err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{ }, middleware.After)
if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{ }, middleware.After)
if err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack);
err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
 return err
}
}

```

```

if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
return &awsmiddleware.RegisterServiceMetadata{
 Region:
 region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CheckoutLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
 params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
addOperationCreateLicenseMiddlewares)

```



```

if err != nil {
 return nil, err
}

out := result.(*CreateLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide to ensure
 the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Configuration for consumption of the license. Choose a provisional configuration
 // for workloads running with continuous connectivity. Choose a borrow
 // configuration for workloads with offline usage.
 //
 // This member is required.
 ConsumptionConfiguration *types.ConsumptionConfiguration

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.Entitlement

 // Home Region for the license.
 //
 // This member is required.
 HomeRegion *string

 // License issuer.
 //
 // This member is required.
 Issuer *types.Issuer

 // License name.
 //
 // This member is required.

```

```

LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange

//
// Information about the license.
LicenseMetadata []types.Metadata
}

type CreateLicenseOutput struct {

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License status.
Status types.LicenseStatus

// License version.
Version *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata
}

func addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
}

```

```

}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack,
options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err
!= nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}

```

```

}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CreateLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
 params = &ListReceivedLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
addOperationListReceivedLicensesMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListReceivedLicensesInput struct {

```

```

// Filters to scope the results. The following filters are supported:
//
//
// *
// ProductSKU
//
// * Status
//
// * KeyFingerprint
//
// * Issuer
Filters []types.Filter

// Amazon Resource Names (ARNs) of the licenses.
LicenseArns []string

// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string
}

type ListReceivedLicensesOutput struct {

// Received license details.
Licenses []types.GrantedLicense

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata
}

func addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return
err
}
}

```

```

if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

```

```
func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region: region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "ListReceivedLicenses",
}
}
```

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```
package licensemanager
```

```
import (
```

```
 "context"
```

```
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
```

```
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
```

```
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
```

```
 "github.com/aws/smithy-go/middleware"
```

```
 smithyhttp "github.com/aws/smithy-go/transport/http"
```

```
)
```

```
// Checks out the specified license for offline use.
```

```
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
```

```
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
```

```
 if params == nil {
```

```
 params = &CheckoutBorrowLicenseInput{}
```

```
 }
```

```
 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
```

```
 addOperationCheckoutBorrowLicenseMiddlewares)
```

```
 if err != nil {
```

```
 return nil, err
```

```
 }
```

```
 out := result.(*CheckoutBorrowLicenseOutput)
```

```
 out.ResultMetadata = metadata
```

```
 return out, nil
```

```
}
```

```
type CheckoutBorrowLicenseInput struct {
```

```
 // Unique, case-sensitive identifier that you
```

```
 // provide to ensure the idempotency of
```

```
 // the request.
```

```
 //
```

```
 // This member is required.
```

```
 ClientToken *string
```

```

// Digital signature method. The possible value is JSON Web Signature (JWS)
// algorithm PS384. For more information, see RFC 7518 Digital Signature with
// RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5).
//
// This member is required.
DigitalSignatureMethod types.DigitalSignatureMethod

// License entitlements. Partial checkouts are not supported.
//
// This member is required.
Entitlements []types.EntitlementData

// Amazon Resource Name (ARN) of the license. The license must use the borrow
// consumption configuration.
//
// This member is required.
LicenseArn *string

// Information about constraints.
CheckoutMetadata []types.Metadata

// Node ID.
NodeId *string
}

type CheckoutBorrowLicenseOutput struct {

// Information about constraints.
CheckoutMetadata []types.Metadata

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

//
// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string
}

```

```

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata
}

func addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if
 err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack); err != nil {
 return err
 }
}

```

```

if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CheckoutBorrowLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))

```

```

(*CheckInLicenseOutput, error) {
 if params == nil {
 params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
addOperationCheckInLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary
 *string
}

type CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata
}

func addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
}

```



```

if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err =
addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil

```

```
}

func newServiceMetadataMiddleware_opCheckInLicense(region
string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region: region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "CheckInLicense",
}
}
}
```

## 1.322 influxdata-influxdb-client-go 2.3.1- 0.20210518120617-5d1fff431040

### 1.322.1 Available under license :

MIT License

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## 1.323 aws-aws-sdk-go-v2-internal-endpoints 2.0.0

## 1.323.1 Available under license :

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
 params = &ListReceivedLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 //
 // *
 // ProductSKU
 //
 // * Status
 //
 // * Fingerprint
 //
 // * IssuerName
 //
 // * Beneficiary
 Filters []types.Filter
}
```

```

// Amazon Resource Names (ARNs) of the licenses.
LicenseArns []string

// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string

noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

// Received license details.
Licenses []types.GrantedLicense

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{ }, middleware.After)
if err != nil {
return
err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {

```

```

return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err !=
nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region: region,
ServiceID: ServiceID,
}
}

```

```

 SigningName: "license-manager",
 OperationName: "ListReceivedLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
 params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier that you
 // provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see RFC 7518 Digital Signature with
 // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5).
 //

```

```

// This member is required.
DigitalSignatureMethod types.DigitalSignatureMethod

// License entitlements. Partial checkouts are not supported.
//
// This member is required.
Entitlements []types.EntitlementData

// Amazon Resource Name (ARN) of the license. The license must use the borrow
// consumption configuration.
//
// This member is required.
LicenseArn *string

// Information about constraints.
CheckoutMetadata []types.Metadata

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

// Information about constraints.
CheckoutMetadata []types.Metadata

// Allowed license entitlements.
EntitlementsAllowed
[]types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.

```

```

SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack); err != nil {
 return err
 }
}

```



```

}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err
= stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)

```

```

*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CheckoutBorrowLicense",
}
}

```

```

// Code generated by smithy-go-codegen DO NOT EDIT.

```

```

package licensemanager

```

```

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

```

```

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
 params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary
 *string

 noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{ }, middleware.After)
 if err != nil {
 return err
 }
}

```

```

if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack,
options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {

```

```

return err
}
if err = addRequestResponseLogging(stack, options); err != nil
{
return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
return &awsmiddleware.RegisterServiceMetadata{
Region: region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "CheckInLicense",
}
}
name: License Scan

on: [pull_request]

jobs:
licensescan:
name: License Scan
runs-on: ubuntu-latest
strategy:
matrix:
python-version: [3.9]

steps:
- name: Checkout target
uses: actions/checkout@v2
with:
path: sdkbase
ref: ${{ github.base_ref }}
- name: Checkout this ref
uses: actions/checkout@v2
with:
path: new-ref
fetch-depth: 0
- name: Get Diff
run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}
${{ github.sha }} > refDiffFiles.txt
- name: Get Target Files
run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
- name: Checkout scancode
uses: actions/checkout@v2

```

```

with:
 repository: nexB/scancode-toolkit
 path: scancode-toolkit
 fetch-depth: 1
- name: Set up Python ${{ matrix.python-version }}
 uses: actions/setup-python@v2
 with:
 python-version: ${{ matrix.python-version }}
ScanCode
- name: Self-configure scancode
 working-directory: ./scancode-toolkit
 run: ./scancode --help
- name: Run Scan code on target
 run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
- name: Run Scan code on pr ref
 run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
compare
- name: License test
 run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

```

package licensemanager

```

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
 params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
 return nil, err
 }
}

```

```

out := result.(*CreateLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type CreateLicenseInput struct {

// License beneficiary.
//
// This member is required.
Beneficiary *string

// Unique, case-sensitive identifier that you provide to ensure
the idempotency of
// the request.
//
// This member is required.
ClientToken *string

// Configuration for consumption of the license. Choose a provisional configuration
// for workloads running with continuous connectivity. Choose a borrow
// configuration for workloads with offline usage.
//
// This member is required.
ConsumptionConfiguration *types.ConsumptionConfiguration

// License entitlements.
//
// This member is required.
Entitlements []types.Entitlement

// Home Region for the license.
//
// This member is required.
HomeRegion *string

// License issuer.
//
// This member is required.
Issuer *types.Issuer

// License name.
//
// This member is required.
LicenseName *string

// Product name.
//

```

```

// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange

//
// Information about the license.
LicenseMetadata []types.Metadata

noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License status.
Status types.LicenseStatus

// License version.
Version *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
}

```

```

}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack);
err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
 return
err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}

```



```

}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CreateLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
 if params == nil {
 params = &DisassociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DisassociateLicenseInput struct {

```

```

// The type of license to remove from the workspace.
//
// This
member is required.
LicenseType types.LicenseType

// The ID of the workspace to remove the Grafana Enterprise license from.
//
// This member is required.
WorkspaceId *string

noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

// A structure containing information about the workspace.
//
// This member is required.
Workspace *types.WorkspaceDescription

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {

```

```

return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{

```

```

Region: region,
ServiceID: ServiceID,
SigningName: "grafana",
OperationName: "DisassociateLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
 params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version
 *string

```

```

noSmithyDocumentSerde
}

type GetLicenseOutput struct {

// License details.
License *types.License

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if
err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
}

```

```

if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack,
options); err != nil {
 return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "GetLicense",
 }
}

```

AWS SDK for Go

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// Code generated by smithy-go-codegen DO NOT EDIT.

```
package licensemanager
```

```
import (
```

```

"context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
 params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutLicenseInput struct {

 // Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive
 identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Key fingerprint identifying the license.
 //
 // This member is required.

```

```

KeyFingerprint *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// License beneficiary.
Beneficiary *string

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

// Checkout type.
CheckoutType types.CheckoutType

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the checkout license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

//
Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

```



```

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err
 != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {

```

```

 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return
nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CheckoutLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
 params = &ListLicensesInput{}
 }
}

```

```

result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
if err != nil {
 return nil, err
}

out := result.(*ListLicensesOutput)
out.ResultMetadata = metadata
return out, nil
}

```

```

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 // *
 // Beneficiary
 //
 // * ProductSKU
 //
 // * Fingerprint
 //
 //
 * Status
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

```

```

type ListLicensesOutput struct {

 // License details.
 Licenses []types.License

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata
}

```

```
noSmithyDocumentSerde
```

```
}
```

```
func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
```

```

 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "ListLicenses",
}
}

```

// Code generated by smithy-go-codegen DO NOT EDIT.

```
package licensemanager
```

```

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

```

// Deletes the specified license.

```

func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
 params = &DeleteLicenseInput{}
 }

```

```

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)

```

```

if err != nil {
 return nil, err
}

out := result.(*DeleteLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version of the
 license.
 //
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

 // Date when the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{ }, middleware.After)
 if err != nil {
 return err
 }
}

```

```

if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack,
options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack);
err != nil {
 return err
}
}

```

```
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}
```

```
func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "DeleteLicense",
 }
}
```

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// Code generated by smithy-go-codegen DO NOT EDIT.

```
package grafana
```

```
import (
```

```
 "context"
```

```
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
```

```
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
```

```
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
```

```
 "github.com/aws/smithy-go/middleware"
```

```
 smithyhttp "github.com/aws/smithy-go/transport/http"
```

```
)
```

```
// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
```

```
// Enterprise incurs additional fees. For more information, see Upgrade a workspace
```

```
// to Grafana Enterprise
```

```
// (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html).
```

```
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
```

```
(*AssociateLicenseOutput, error) {
```

```
 if params == nil {
```

```
 params = &AssociateLicenseInput{}
```

```
 }
```

```
 result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
```

```
 c.addOperationAssociateLicenseMiddlewares)
```

```
 if err != nil {
```

```
 return nil, err
```

```
 }
```

```
 out
```

```
 := result.(*AssociateLicenseOutput)
```

```
 out.ResultMetadata = metadata
```

```
 return out, nil
```

```

}

type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

 // A structure containing data about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{ }, middleware.After)
 if
 err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
}

```

```

}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
err != nil {
 return err
}
if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region: region,
ServiceID: ServiceID,
SigningName: "grafana",
OperationName: "AssociateLicense",
}
}

```

## 1.324 aws-aws-sdk-go-v2-internal-configsources 1.1.0

### 1.324.1 Available under license :

// Code generated by smithy-go-codegen DO NOT EDIT.

```

package licensemanager

import (
"context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
if params == nil {
params = &ListReceivedLicensesInput{}
}

result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
if err != nil {
return nil, err
}

out := result.(*ListReceivedLicensesOutput)
out.ResultMetadata = metadata
return out, nil
}

type ListReceivedLicensesInput struct {

```



```

// Filters to scope the results. The following filters are supported:
//
//
// *
// ProductSKU
//
// * Status
//
// * Fingerprint
//
// * IssuerName
//
// * Beneficiary
Filters []types.Filter

// Amazon Resource Names (ARNs) of the licenses.
LicenseArns []string

// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string

noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

// Received license details.
Licenses []types.GrantedLicense

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{ }, middleware.After)
if err != nil {
return err
}
}

```

```

err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{ }, middleware.After)
if err != nil {
 return
 err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err !=
nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}

```

```

}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "ListReceivedLicenses",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
 params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

```

```

}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier that you
 // provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see RFC 7518 Digital Signature with
 // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5).
 //
 // This member is required.
 DigitalSignatureMethod types.DigitalSignatureMethod

 // License entitlements. Partial checkouts are not supported.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Amazon Resource Name (ARN) of the license. The license must use the borrow
 // consumption configuration.
 //
 // This member is required.
 LicenseArn *string

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

```

```

type CheckoutBorrowLicenseOutput struct {

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Allowed license entitlements.
 EntitlementsAllowed
 []types.EntitlementData

 // Date and time at which the license checkout expires.

```

```

Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
}

```

```

}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err
= stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
}
}

```

```

 OperationName: "CheckoutBorrowLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
 params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary
 *string

 noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {

```

```

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack,
options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
}

```



```

}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil
{
 return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CheckInLicense",
 }
}
name: License Scan

on: [pull_request]

jobs:
 licensescan:
 name: License Scan
 runs-on: ubuntu-latest
 strategy:
 matrix:
 python-version: [3.9]

 steps:
 - name: Checkout target
 uses: actions/checkout@v2

```

```

with:
 path: sdkbase
 ref: ${ { github.base_ref } }
- name: Checkout this ref
 uses: actions/checkout@v2
with:
 path: new-ref
 fetch-depth: 0
- name: Get Diff
 run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${ { github.event.pull_request.base.sha } }
${ { github.sha } } > refDiffFiles.txt
- name: Get Target Files
 run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
- name: Checkout scancode
 uses: actions/checkout@v2
with:
 repository: nexB/scancode-toolkit
 path: scancode-toolkit
 fetch-depth: 1
- name: Set up Python ${ { matrix.python-version } }
 uses: actions/setup-python@v2
with:
 python-version: ${ { matrix.python-version } }
ScanCode
- name: Self-configure scancode
 working-directory: ./scancode-toolkit
 run: ./scancode --help
- name: Run Scan code on target
 run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
- name: Run Scan code on pr ref
 run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
compare
- name: License test
 run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

```

```
package licensemanager
```

```

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"

```

```

)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
 params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide to ensure
 the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Configuration for consumption of the license. Choose a provisional configuration
 // for workloads running with continuous connectivity. Choose a borrow
 // configuration for workloads with offline usage.
 //
 // This member is required.
 ConsumptionConfiguration *types.ConsumptionConfiguration

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.Entitlement

 // Home Region for the license.
 //

```

```

// This member is required.
HomeRegion *string

// License issuer.
//
// This member is required.
Issuer *types.Issuer

// License name.
//
// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange

//
Information about the license.
LicenseMetadata []types.Metadata

noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License status.
Status types.LicenseStatus

// License version.
Version *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

```

```
noSmithyDocumentSerde
```

```
}
```

```
func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack);
 err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
```

```

 return err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
 return
err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CreateLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
 if params == nil {
 params = &DisassociateLicenseInput{}
 }
}

```

```

}

result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
if err != nil {
 return nil, err
}

out := result.(*DisassociateLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //
 // This
 member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

 // A structure containing information about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{ }, middleware.After)
 if err != nil {
 return err
 }
}

```

```

err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{ }, middleware.After)
if err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
 return err
}

```



```

if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "grafana",
 OperationName: "DisassociateLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
 params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*GetLicenseOutput)

```

```

out.ResultMetadata = metadata
return out, nil
}

type GetLicenseInput struct {

// Amazon Resource Name (ARN) of the license.
//
// This member is required.
LicenseArn *string

// License version.
Version
*string

noSmithyDocumentSerde
}

type GetLicenseOutput struct {

// License details.
License *types.License

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {

```

```

return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if
err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack,
options); err != nil {
return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {

```

```

return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "GetLicense",
}
}
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// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
 params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutLicenseInput struct {

 // Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

```

```

// Unique, case-sensitive
identifier that you provide to ensure the idempotency of
// the request.
//
// This member is required.
ClientToken *string

// License entitlements.
//
// This member is required.
Entitlements []types.EntitlementData

// Key fingerprint identifying the license.
//
// This member is required.
KeyFingerprint *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// License beneficiary.
Beneficiary *string

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

// Checkout type.
CheckoutType types.CheckoutType

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the checkout license.
LicenseArn *string

```

```

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

//
Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err
 != nil {
 return err
 }
 if err = addHTTPSSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {

```

```

 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return
nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CheckoutLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (

```

```

"context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
 params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 // *
 // Beneficiary
 //
 // * ProductSKU
 //
 // * Fingerprint
 //
 //
 // * Status
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.

```



```

NextToken *string

noSmithyDocumentSerde
}

type ListLicensesOutput struct {

// License details.
Licenses []types.License

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {

```

```

return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region: region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "ListLicenses",
}
}

```

// Code generated by smithy-go-codegen DO NOT EDIT.

```
package licensemanager
```

```
import (
"context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"

```

```

"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
 params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version of the
 license.
 //
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

 // Date when the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus

```

```

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack,
options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
}

```

```

}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack);
err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "DeleteLicense",
 }
}

```

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// Code generated by smithy-go-codegen DO NOT EDIT.

```
package grafana
```

```
import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)
```

```
// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a workspace
// to Grafana Enterprise
// (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html).
```

```

func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
 if params == nil {
 params = &AssociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out
 := result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

 // A structure containing data about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{ }, middleware.After)

```

```

if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{ }, middleware.After)
if
err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
err != nil {
 return err
}
if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
 return err
}
}

```

```

if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "grafana",
 OperationName: "AssociateLicense",
}
}

```

# 1.325 aws-aws-sdk-go 1.11.0

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# 1.326 uber-go-tally 3.3.17+incompatible

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# 1.332 github.com/beego/beego/v2 2.0.5

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/\* zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.2.13, October 13th, 2022

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jloup@gzip.org      madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://tools.ietf.org/html/rfc1950>

(zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).

\*/

# 1.334 apk-tools 2.12.10-r1

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```

```
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```

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```
*/
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## 1.335 go-autorest-logging 0.2.1

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## 1.336 expat 2.5.0-r0

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## 1.337 colorama 0.4.6

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## 1.338 aws-aws-sdk-go-v2-service-internal-s3shared 1.9.0

## 1.338.1 Available under license :

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
 params = &ListReceivedLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 //
 // *
 // ProductSKU
 //
 // * Status
 //
 // * Fingerprint
 //
 // * IssuerName
 //
 // * Beneficiary
 Filters []types.Filter
}
```

```

// Amazon Resource Names (ARNs) of the licenses.
LicenseArns []string

// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string

noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

// Received license details.
Licenses []types.GrantedLicense

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{ }, middleware.After)
if err != nil {
return
err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {

```

```

return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err !=
nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region: region,
ServiceID: ServiceID,
}
}

```

```

 SigningName: "license-manager",
 OperationName: "ListReceivedLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
 params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier that you
 // provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see RFC 7518 Digital Signature with
 // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5).
 //

```

```

// This member is required.
DigitalSignatureMethod types.DigitalSignatureMethod

// License entitlements. Partial checkouts are not supported.
//
// This member is required.
Entitlements []types.EntitlementData

// Amazon Resource Name (ARN) of the license. The license must use the borrow
// consumption configuration.
//
// This member is required.
LicenseArn *string

// Information about constraints.
CheckoutMetadata []types.Metadata

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

// Information about constraints.
CheckoutMetadata []types.Metadata

// Allowed license entitlements.
EntitlementsAllowed
[]types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.

```

```

SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack); err != nil {
 return err
 }
}

```

```

}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err
= stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)

```

```

*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CheckoutBorrowLicense",
}
}

```

```

// Code generated by smithy-go-codegen DO NOT EDIT.

```

```

package licensemanager

```

```

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

```



```

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
 params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary
 *string

 noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{ }, middleware.After)
 if err != nil {
 return err
 }
}

```

```

if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack,
options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {

```

```

return err
}
if err = addRequestResponseLogging(stack, options); err != nil
{
return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
return &awsmiddleware.RegisterServiceMetadata{
Region: region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "CheckInLicense",
}
}
name: License Scan

on: [pull_request]

jobs:
licensescan:
name: License Scan
runs-on: ubuntu-latest
strategy:
matrix:
python-version: [3.9]

steps:
- name: Checkout target
uses: actions/checkout@v2
with:
path: sdkbase
ref: ${{ github.base_ref }}
- name: Checkout this ref
uses: actions/checkout@v2
with:
path: new-ref
fetch-depth: 0
- name: Get Diff
run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}
${{ github.sha }} > refDiffFiles.txt
- name: Get Target Files
run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
- name: Checkout scancode
uses: actions/checkout@v2

```

```

with:
 repository: nexB/scancode-toolkit
 path: scancode-toolkit
 fetch-depth: 1
- name: Set up Python ${{ matrix.python-version }}
 uses: actions/setup-python@v2
 with:
 python-version: ${{ matrix.python-version }}
ScanCode
- name: Self-configure scancode
 working-directory: ./scancode-toolkit
 run: ./scancode --help
- name: Run Scan code on target
 run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
- name: Run Scan code on pr ref
 run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
compare
- name: License test
 run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

```

package licensemanager

```

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
 params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
 return nil, err
 }
}

```

```

out := result.(*CreateLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type CreateLicenseInput struct {

// License beneficiary.
//
// This member is required.
Beneficiary *string

// Unique, case-sensitive identifier that you provide to ensure
the idempotency of
// the request.
//
// This member is required.
ClientToken *string

// Configuration for consumption of the license. Choose a provisional configuration
// for workloads running with continuous connectivity. Choose a borrow
// configuration for workloads with offline usage.
//
// This member is required.
ConsumptionConfiguration *types.ConsumptionConfiguration

// License entitlements.
//
// This member is required.
Entitlements []types.Entitlement

// Home Region for the license.
//
// This member is required.
HomeRegion *string

// License issuer.
//
// This member is required.
Issuer *types.Issuer

// License name.
//
// This member is required.
LicenseName *string

// Product name.
//

```

```

// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange

//
// Information about the license.
LicenseMetadata []types.Metadata

noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License status.
Status types.LicenseStatus

// License version.
Version *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
}

```

```

}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack);
err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
 return
err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}

```

```

}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CreateLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
 if params == nil {
 params = &DisassociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DisassociateLicenseInput struct {

```



```

// The type of license to remove from the workspace.
//
// This
member is required.
LicenseType types.LicenseType

// The ID of the workspace to remove the Grafana Enterprise license from.
//
// This member is required.
WorkspaceId *string

noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

// A structure containing information about the workspace.
//
// This member is required.
Workspace *types.WorkspaceDescription

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {

```

```

return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{

```

```

Region: region,
ServiceID: ServiceID,
SigningName: "grafana",
OperationName: "DisassociateLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
 params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version
 *string

```

```

noSmithyDocumentSerde
}

type GetLicenseOutput struct {

// License details.
License *types.License

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if
err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
}

```

```

if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack,
options); err != nil {
 return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "GetLicense",
 }
}

```

AWS SDK for Go

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// Code generated by smithy-go-codegen DO NOT EDIT.

```
package licensemanager
```

```
import (
```

```

"context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
 params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutLicenseInput struct {

 // Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive
 identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Key fingerprint identifying the license.
 //
 // This member is required.

```

```

KeyFingerprint *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// License beneficiary.
Beneficiary *string

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

// Checkout type.
CheckoutType types.CheckoutType

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the checkout license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

//
Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

```

```

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err
 != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {

```



```

 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return
nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CheckoutLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
 params = &ListLicensesInput{}
 }
}

```

```

result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
if err != nil {
 return nil, err
}

out := result.(*ListLicensesOutput)
out.ResultMetadata = metadata
return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 // *
 // Beneficiary
 //
 // * ProductSKU
 //
 // * Fingerprint
 //
 //
 * Status
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListLicensesOutput struct {

 // License details.
 Licenses []types.License

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

```

```
noSmithyDocumentSerde
```

```
}
```

```
func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
```

```

 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "ListLicenses",
}
}

```

// Code generated by smithy-go-codegen DO NOT EDIT.

```
package licensemanager
```

```

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

```

// Deletes the specified license.

```

func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
 params = &DeleteLicenseInput{}
 }

```

```

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)

```

```

if err != nil {
 return nil, err
}

out := result.(*DeleteLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version of the
 license.
 //
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

 // Date when the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{ }, middleware.After)
 if err != nil {
 return err
 }
}

```

```

if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack,
options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack);
err != nil {
 return err
}
}

```

```
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}
```

```
func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "DeleteLicense",
 }
}
```

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// Code generated by smithy-go-codegen DO NOT EDIT.

```
package grafana
```

```
import (
```

```
 "context"
```

```
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
```

```
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
```

```
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
```

```
 "github.com/aws/smithy-go/middleware"
```

```
 smithyhttp "github.com/aws/smithy-go/transport/http"
```

```
)
```

```
// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
```

```
// Enterprise incurs additional fees. For more information, see Upgrade a workspace
```

```
// to Grafana Enterprise
```

```
// (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html).
```

```
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
```

```
(*AssociateLicenseOutput, error) {
```

```
 if params == nil {
```

```
 params = &AssociateLicenseInput{}
```

```
 }
```

```
 result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
```

```
 c.addOperationAssociateLicenseMiddlewares)
```

```
 if err != nil {
```

```
 return nil, err
```

```
 }
```

```
 out
```

```
 := result.(*AssociateLicenseOutput)
```

```
 out.ResultMetadata = metadata
```

```
 return out, nil
```

```

}

type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

 // A structure containing data about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{ }, middleware.After)
 if
 err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
}

```

```

}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
err != nil {
 return err
}
if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region: region,
ServiceID: ServiceID,
SigningName: "grafana",
OperationName: "AssociateLicense",
}
}

```

## 1.339 aws-aws-sdk-go-v2-service-s3 1.19.0

### 1.339.1 Available under license :

// Code generated by smithy-go-codegen DO NOT EDIT.

```

package licensemanager

import (
"context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
if params == nil {
params = &ListReceivedLicensesInput{}
}

result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
if err != nil {
return nil, err
}

out := result.(*ListReceivedLicensesOutput)
out.ResultMetadata = metadata
return out, nil
}

type ListReceivedLicensesInput struct {

// Filters to scope the results. The following filters are supported:

```

```

//
//
*
// ProductSKU
//
// * Status
//
// * Fingerprint
//
// * IssuerName
//
// * Beneficiary
Filters []types.Filter

// Amazon Resource Names (ARNs) of the licenses.
LicenseArns []string

// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string

noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

// Received license details.
Licenses []types.GrantedLicense

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{ }, middleware.After)
if err != nil {

```



```

return
err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err !=
nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {

```

```

 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "ListReceivedLicenses",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
 params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

```

```

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier that you
 // provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see RFC 7518 Digital Signature with
 // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5).
 //
 // This member is required.
 DigitalSignatureMethod types.DigitalSignatureMethod

 // License entitlements. Partial checkouts are not supported.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Amazon Resource Name (ARN) of the license. The license must use the borrow
 // consumption configuration.
 //
 // This member is required.
 LicenseArn *string

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

```

```

type CheckoutBorrowLicenseOutput struct {

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Allowed license entitlements.
 EntitlementsAllowed
 []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string
}

```

```

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {

```

```

return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
return err
}
if err
= stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region: region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "CheckoutBorrowLicense",
}
}

```

```

}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
 params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary
 *string

 noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

```

```

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack,
options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {

```

```

 return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil
{
 return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CheckInLicense",
 }
}
name: License Scan

on: [pull_request]

jobs:
 licensescan:
 name: License Scan
 runs-on: ubuntu-latest
 strategy:
 matrix:
 python-version: [3.9]

 steps:
 - name: Checkout target
 uses: actions/checkout@v2
 with:
 path: sdkbase

```



```

 ref: ${ { github.base_ref } }
- name: Checkout this ref
 uses: actions/checkout@v2
 with:
 path: new-ref
 fetch-depth: 0
- name: Get Diff
 run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${ { github.event.pull_request.base.sha } }
${ { github.sha } } > refDiffFiles.txt
- name: Get Target Files
 run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
- name: Checkout scancode
 uses: actions/checkout@v2
 with:
 repository: nexB/scancode-toolkit
 path: scancode-toolkit
 fetch-depth: 1
- name: Set up Python ${ { matrix.python-version } }
 uses: actions/setup-python@v2
 with:
 python-version: ${ { matrix.python-version } }
ScanCode
- name: Self-configure scancode
 working-directory: ./scancode-toolkit
 run: ./scancode --help
- name: Run Scan code on target
 run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
- name: Run Scan code on pr ref
 run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
compare
- name: License test
 run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

```

```
package licensemanager
```

```

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

```

```

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
 params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide to ensure
 the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Configuration for consumption of the license. Choose a provisional configuration
 // for workloads running with continuous connectivity. Choose a borrow
 // configuration for workloads with offline usage.
 //
 // This member is required.
 ConsumptionConfiguration *types.ConsumptionConfiguration

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.Entitlement

 // Home Region for the license.
 //
 // This member is required.
 HomeRegion *string

```

```

// License issuer.
//
// This member is required.
Issuer *types.Issuer

// License name.
//
// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange

//
// Information about the license.
LicenseMetadata []types.Metadata

noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License status.
Status types.LicenseStatus

// License version.
Version *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde

```

```

}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack);
 err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
}

```

```

if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
 return
err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CreateLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
if params == nil {
 params = &DisassociateLicenseInput{}
}
}

```

```

result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
if err != nil {
 return nil, err
}

out := result.(*DisassociateLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //
 // This
 member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

 // A structure containing information about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{ }, middleware.After)
 if err != nil {

```

```

return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}

```

```

}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "grafana",
 OperationName: "DisassociateLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
 params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

```



```

}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version
 *string

 noSmithyDocumentSerde
}

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
}

```

```

if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if
err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack,
options); err != nil {
 return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
}
}

```

```

ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "GetLicense",
}
}
AWS SDK for Go
Copyright 2015 Amazon.com, Inc. or its affiliates. All Rights Reserved.
Copyright 2014-2015 Stripe, Inc.
// Code generated by smithy-go-codegen DO NOT EDIT.

```

```

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
 params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutLicenseInput struct {

 // Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive

```

```

identifier that you provide to ensure the idempotency of
// the request.
//
// This member is required.
ClientToken *string

// License entitlements.
//
// This member is required.
Entitlements []types.EntitlementData

// Key fingerprint identifying the license.
//
// This member is required.
KeyFingerprint *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// License beneficiary.
Beneficiary *string

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

// Checkout type.
CheckoutType types.CheckoutType

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the checkout license.
LicenseArn *string

// License consumption token.

```

```

LicenseConsumptionToken *string

// Node ID.
NodeId *string

//
Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err
 != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
}

```

```

}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return
nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CheckoutLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"

```

```

awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
 params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 // *
 // Beneficiary
 //
 // * ProductSKU
 //
 // * Fingerprint
 //
 //
 // * Status
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

```

```

noSmithyDocumentSerde
}

type ListLicensesOutput struct {

// License details.
Licenses []types.License

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}

```



```

}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "ListLicenses",
 }
}

```

// Code generated by smithy-go-codegen DO NOT EDIT.

```
package licensemanager
```

```
import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"

```

```

"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
 params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version of the
 license.
 //
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

 // Date when the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus

 // Metadata pertaining to the operation's result.

```

ResultMetadata middleware.Metadata

```
noSmithyDocumentSerde
}
```

```
func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack,
options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
}
```

```

if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack);
err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "DeleteLicense",
}
}

```

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// Code generated by smithy-go-codegen DO NOT EDIT.

```
package grafana
```

```
import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)
```

```
// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
```

```
// Enterprise incurs additional fees. For more information, see Upgrade a workspace
```

```
// to Grafana Enterprise
```

```
// (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html).
```

```
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
```

```
(*AssociateLicenseOutput, error) {
```

```

if params == nil {
 params = &AssociateLicenseInput{}
}

result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
if err != nil {
 return nil, err
}

out
:= result.(*AssociateLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type AssociateLicenseInput struct {

// The type of license to associate with the workspace.
//
// This member is required.
LicenseType types.LicenseType

// The ID of the workspace to associate the license with.
//
// This member is required.
WorkspaceId *string

noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

// A structure containing data about the workspace.
//
// This member is required.
Workspace *types.WorkspaceDescription

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{ }, middleware.After)
if err != nil {
 return err
}
}

```

```

}
err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{ }, middleware.After)
if
err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
err != nil {
return err
}
if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {

```

```

 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "grafana",
 OperationName: "AssociateLicense",
}
}

```

## 1.340 aws-aws-sdk-go-v2-aws-protocol-eventstream 1.0.0

### 1.340.1 Available under license :

// Code generated by smithy-go-codegen DO NOT EDIT.

```
package licensemanager
```

```
import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

```

// Lists received licenses.

```
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
 params = &ListReceivedLicensesInput{}
 }
}

```

```

}

result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
if err != nil {
 return nil, err
}

out := result.(*ListReceivedLicensesOutput)
out.ResultMetadata = metadata
return out, nil
}

```

```

type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 //
 // *
 // ProductSKU
 //
 // * Status
 //
 // * Fingerprint
 //
 // * IssuerName
 //
 // * Beneficiary
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

```

```

type ListReceivedLicensesOutput struct {

 // Received license details.
 Licenses []types.GrantedLicense

 // Token for the next set of results.

```

```

NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{ }, middleware.After)
 if err != nil {
 return
 }
 err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}

```

```

}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err !=
nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "ListReceivedLicenses",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns

```

```

...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
if params == nil {
params = &CheckoutBorrowLicenseInput{}
}

result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
if err != nil {
return nil, err
}

out := result.(*CheckoutBorrowLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

```

```

type CheckoutBorrowLicenseInput struct {

```

```

// Unique, case-sensitive identifier that you
provide to ensure the idempotency of
// the request.

```

```

//

```

```

// This member is required.

```

```

ClientToken *string

```

```

// Digital signature method. The possible value is JSON Web Signature (JWS)

```

```

// algorithm PS384. For more information, see RFC 7518 Digital Signature with

```

```

// RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5).

```

```

//

```

```

// This member is required.

```

```

DigitalSignatureMethod types.DigitalSignatureMethod

```

```

// License entitlements. Partial checkouts are not supported.

```

```

//

```

```

// This member is required.

```

```

Entitlements []types.EntitlementData

```

```

// Amazon Resource Name (ARN) of the license. The license must use the borrow

```

```

// consumption configuration.

```

```

//

```

```

// This member is required.

```

```

LicenseArn *string

```

```

// Information about constraints.

```

```

CheckoutMetadata []types.Metadata

```

```

// Node ID.

```

```

NodeId *string

```



```

noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

// Information about constraints.
CheckoutMetadata []types.Metadata

// Allowed license entitlements.
EntitlementsAllowed
[]types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {

```

```

return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
return err
}
if err
= stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {

```

```

 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CheckoutBorrowLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
 params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckInLicenseInput struct {

```

```

// License consumption token.
//
// This member is required.
LicenseConsumptionToken *string

// License beneficiary.
Beneficiary
*string

noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack,
options); err != nil {
return err
}
}

```

```

if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil
{
 return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CheckInLicense",
}
}

```

name: License Scan

on: [pull\_request]

jobs:

licensescan:

name: License Scan

runs-on: ubuntu-latest

strategy:

matrix:

python-version: [3.9]

steps:

- name: Checkout target
  - uses: actions/checkout@v2
  - with:
    - path: sdkbase
    - ref: \${{ github.base\_ref }}
- name: Checkout this ref
  - uses: actions/checkout@v2
  - with:
    - path: new-ref
    - fetch-depth: 0
- name: Get Diff
  - run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT \${{ github.event.pull\_request.base.sha }} \${{ github.sha }} > refDiffFiles.txt
- name: Get Target Files
  - run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
- name: Checkout scancode
  - uses: actions/checkout@v2
  - with:
    - repository: nexB/scancode-toolkit
    - path: scancode-toolkit
    - fetch-depth: 1
- name: Set up Python \${{ matrix.python-version }}
  - uses: actions/setup-python@v2
  - with:
    - python-version: \${{ matrix.python-version }}

# ScanCode

- name: Self-configure scancode
  - working-directory: ./scancode-toolkit
  - run: ./scancode --help
- name: Run Scan code on target
  - run: cat targetFiles.txt | while read filename; do echo ./sdkbase/\$filename; done | xargs ./scancode-toolkit/scancode -l -n 30 --json-pp - | grep short\_name | sort | uniq >> old-licenses.txt
- name: Run Scan code on pr ref
  - run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/\$filename; done | xargs ./scancode-toolkit/scancode -l -n 30 --json-pp - | grep short\_name | sort | uniq >> new-licenses.txt

```

compare
- name: License test
 run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

```

```
package licensemanager
```

```
import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

```

```
// Creates a license.
```

```
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
 params = &CreateLicenseInput{}
 }

```

```
 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

```

```
 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

```

```
type CreateLicenseInput struct {

```

```
 // License beneficiary.
```

```
 //
```

```
 // This member is required.
```

```
 Beneficiary *string

```

```
 // Unique, case-sensitive identifier that you provide to ensure
the idempotency of
// the request.
//

```

```
 //
```

```
 // This member is required.
```

```
 ClientToken *string

```

```
// Configuration for consumption of the license. Choose a provisional configuration
// for workloads running with continuous connectivity. Choose a borrow
// configuration for workloads with offline usage.
//
// This member is required.
ConsumptionConfiguration *types.ConsumptionConfiguration

// License entitlements.
//
// This member is required.
Entitlements []types.Entitlement

// Home Region for the license.
//
// This member is required.
HomeRegion *string

// License issuer.
//
// This member is required.
Issuer *types.Issuer

// License name.
//
// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange

//
Information about the license.
LicenseMetadata []types.Metadata

noSmithyDocumentSerde
```



```

}

type CreateLicenseOutput struct {

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License status.
 Status types.LicenseStatus

 // License version.
 Version *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack);
 err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {

```

```

return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
return
err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region: region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "CreateLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

```

```

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
 ..func(*Options)) (*DisassociateLicenseOutput, error) {
 if params == nil {
 params = &DisassociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
 c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //
 // This
 member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

 // A structure containing information about the workspace.
 //

```

```

// This member is required.
Workspace *types.WorkspaceDescription

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack); err != nil {

```

```

return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opDisassociateLicense(region string)

```

```

*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region: region,
ServiceID: ServiceID,
SigningName: "grafana",
OperationName: "DisassociateLicense",
}
}

```

```

// Code generated by smithy-go-codegen DO NOT EDIT.

```

```

package licensemanager

```

```

import (
"context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

```

```

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
 params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version
 *string

 noSmithyDocumentSerde
}

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{ }, middleware.After)
 if err != nil {
 return err
 }
}

```

```

}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{ }, middleware.After)
if err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if
err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
 return err
}

```

```

}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack,
options); err != nil {
 return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "GetLicense",
}
}

```

AWS SDK for Go

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// Code generated by smithy-go-codegen DO NOT EDIT.

```
package licensemanager
```

```

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

```

// Checks out the specified license.

```

func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
 params = &CheckoutLicenseInput{}
 }

```

```

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {

```



```

 return nil, err
}

out := result.(*CheckoutLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type CheckoutLicenseInput struct {

 // Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive
 // identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Key fingerprint identifying the license.
 //
 // This member is required.
 KeyFingerprint *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // License beneficiary.
 Beneficiary *string

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

```

```

// Checkout type.
CheckoutType types.CheckoutType

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the checkout license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

//
Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
}

```

```

}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err
!= nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return
nil
}

```

```

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
return &awsmiddleware.RegisterServiceMetadata{
Region: region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "CheckoutLicense",
}
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

```

```

package licensemanager

```

```

import (
"context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
if params == nil {
params = &ListLicensesInput{}
}

result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
if err != nil {
return nil, err
}

out := result.(*ListLicensesOutput)
out.ResultMetadata = metadata
return out, nil
}

type ListLicensesInput struct {

// Filters to scope the results. The following filters are supported:
//
// *
// Beneficiary
//

```

```

// * ProductSKU
//
// * Fingerprint
//
//
* Status
Filters []types.Filter

// Amazon Resource Names (ARNs) of the licenses.
LicenseArns []string

// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string

noSmithyDocumentSerde
}

type ListLicensesOutput struct {

// License details.
Licenses []types.License

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);

```

```

err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "ListLicenses",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

```

```

package licensemanager

```

```

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

```

```

// Deletes the specified license.

```

```

func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
 params = &DeleteLicenseInput{}
 }

```

```

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

```

```

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

```

```

type DeleteLicenseInput struct {

```

```

 // Amazon Resource Name (ARN) of the license.

```

```

 //

```

```

 // This member is required.

```

```

 LicenseArn *string

```

```

 // Current version of the

```

```

license.
//
// This member is required.
SourceVersion *string

noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

// Date when the license is deleted.
DeletionDate *string

// License status.
Status types.LicenseDeletionStatus

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack,
options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {

```



```

return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack);
err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region: region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "DeleteLicense",
}
}

```

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// Code generated by smithy-go-codegen DO NOT EDIT.

```

package grafana

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a workspace
// to Grafana Enterprise
// (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html).
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
 if params == nil {
 params = &AssociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out
 := result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

```

```

type AssociateLicenseOutput struct {

 // A structure containing data about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{ }, middleware.After)
 if
 err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {

```



```

 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
err != nil {
 return err
}
if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "grafana",
 OperationName: "AssociateLicense",
}
}

```

## 1.341 aws-aws-sdk-go-v2-feature-s3-manager

### 1.7.1

## 1.341.1 Available under license :

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
 params = &ListReceivedLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 //
 // *
 // ProductSKU
 //
 // * Status
 //
 // * Fingerprint
 //
 // * IssuerName
 //
 // * Beneficiary
 Filters []types.Filter
}
```

```

// Amazon Resource Names (ARNs) of the licenses.
LicenseArns []string

// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string

noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

// Received license details.
Licenses []types.GrantedLicense

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{ }, middleware.After)
if err != nil {
return
err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {

```

```

 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err !=
nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
}
}

```

```

 SigningName: "license-manager",
 OperationName: "ListReceivedLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
 params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier that you
 // provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see RFC 7518 Digital Signature with
 // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5).
 //

```

```

// This member is required.
DigitalSignatureMethod types.DigitalSignatureMethod

// License entitlements. Partial checkouts are not supported.
//
// This member is required.
Entitlements []types.EntitlementData

// Amazon Resource Name (ARN) of the license. The license must use the borrow
// consumption configuration.
//
// This member is required.
LicenseArn *string

// Information about constraints.
CheckoutMetadata []types.Metadata

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

// Information about constraints.
CheckoutMetadata []types.Metadata

// Allowed license entitlements.
EntitlementsAllowed
[]types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.

```

```

SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack); err != nil {
 return err
 }
}

```

```

}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err
= stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CheckoutBorrowLicense",
}
}

```

// Code generated by smithy-go-codegen DO NOT EDIT.

```
package licensemanager
```

```

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

```



```

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
 params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary
 *string

 noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{ }, middleware.After)
 if err != nil {
 return err
 }
}

```

```

if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack,
options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {

```

```

return err
}
if err = addRequestResponseLogging(stack, options); err != nil
{
return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
return &awsmiddleware.RegisterServiceMetadata{
Region: region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "CheckInLicense",
}
}
name: License Scan

on: [pull_request]

jobs:
licensescan:
name: License Scan
runs-on: ubuntu-latest
strategy:
matrix:
python-version: [3.9]

steps:
- name: Checkout target
uses: actions/checkout@v2
with:
path: sdkbase
ref: ${{ github.base_ref }}
- name: Checkout this ref
uses: actions/checkout@v2
with:
path: new-ref
fetch-depth: 0
- name: Get Diff
run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}
${{ github.sha }} > refDiffFiles.txt
- name: Get Target Files
run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
- name: Checkout scancode
uses: actions/checkout@v2

```

```

with:
 repository: nexB/scancode-toolkit
 path: scancode-toolkit
 fetch-depth: 1
- name: Set up Python ${{ matrix.python-version }}
 uses: actions/setup-python@v2
 with:
 python-version: ${{ matrix.python-version }}
ScanCode
- name: Self-configure scancode
 working-directory: ./scancode-toolkit
 run: ./scancode --help
- name: Run Scan code on target
 run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
- name: Run Scan code on pr ref
 run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
compare
- name: License test
 run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

```

package licensemanager

```

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
 params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
 return nil, err
 }
}

```

```

out := result.(*CreateLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type CreateLicenseInput struct {

// License beneficiary.
//
// This member is required.
Beneficiary *string

// Unique, case-sensitive identifier that you provide to ensure
the idempotency of
// the request.
//
// This member is required.
ClientToken *string

// Configuration for consumption of the license. Choose a provisional configuration
// for workloads running with continuous connectivity. Choose a borrow
// configuration for workloads with offline usage.
//
// This member is required.
ConsumptionConfiguration *types.ConsumptionConfiguration

// License entitlements.
//
// This member is required.
Entitlements []types.Entitlement

// Home Region for the license.
//
// This member is required.
HomeRegion *string

// License issuer.
//
// This member is required.
Issuer *types.Issuer

// License name.
//
// This member is required.
LicenseName *string

// Product name.
//

```

```

// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange

//
// Information about the license.
LicenseMetadata []types.Metadata

noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License status.
Status types.LicenseStatus

// License version.
Version *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
}

```

```

}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack);
err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
 return
err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}

```

```

}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CreateLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
 if params == nil {
 params = &DisassociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DisassociateLicenseInput struct {

```



```

// The type of license to remove from the workspace.
//
// This
member is required.
LicenseType types.LicenseType

// The ID of the workspace to remove the Grafana Enterprise license from.
//
// This member is required.
WorkspaceId *string

noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

// A structure containing information about the workspace.
//
// This member is required.
Workspace *types.WorkspaceDescription

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {

```

```

return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{

```

```

 Region: region,
 ServiceID: ServiceID,
 SigningName: "grafana",
 OperationName: "DisassociateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
 params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version
 *string

```

```

noSmithyDocumentSerde
}

type GetLicenseOutput struct {

// License details.
License *types.License

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if
err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
}

```

```

if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack,
options); err != nil {
 return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "GetLicense",
 }
}

```

AWS SDK for Go

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// Code generated by smithy-go-codegen DO NOT EDIT.

```
package licensemanager
```

```
import (
```

```

"context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
 params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutLicenseInput struct {

 // Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive
 identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Key fingerprint identifying the license.
 //
 // This member is required.

```

```

KeyFingerprint *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// License beneficiary.
Beneficiary *string

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

// Checkout type.
CheckoutType types.CheckoutType

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the checkout license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

//
Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

```

```

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err
 != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {

```



```

 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return
nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CheckoutLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
 params = &ListLicensesInput{}
 }
}

```

```

result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
if err != nil {
 return nil, err
}

out := result.(*ListLicensesOutput)
out.ResultMetadata = metadata
return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 // *
 // Beneficiary
 //
 // * ProductSKU
 //
 // * Fingerprint
 //
 //
 * Status
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListLicensesOutput struct {

 // License details.
 Licenses []types.License

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

```

```
noSmithyDocumentSerde
```

```
}
```

```
func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
```

```

 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "ListLicenses",
}
}

```

// Code generated by smithy-go-codegen DO NOT EDIT.

```
package licensemanager
```

```

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

```

// Deletes the specified license.

```

func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
 params = &DeleteLicenseInput{}
 }

```

```

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)

```

```

if err != nil {
 return nil, err
}

out := result.(*DeleteLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version of the
 license.
 //
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

 // Date when the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{ }, middleware.After)
 if err != nil {
 return err
 }
}

```

```

if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack,
options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack);
err != nil {
 return err
}
}

```

```
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}
```

```
func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "DeleteLicense",
 }
}
```

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// Code generated by smithy-go-codegen DO NOT EDIT.

```
package grafana
```

```
import (
```

```
 "context"
```

```
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
```

```
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
```

```
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
```

```
 "github.com/aws/smithy-go/middleware"
```

```
 smithyhttp "github.com/aws/smithy-go/transport/http"
```

```
)
```

```
// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
```

```
// Enterprise incurs additional fees. For more information, see Upgrade a workspace
```

```
// to Grafana Enterprise
```

```
// (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html).
```

```
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
```

```
(*AssociateLicenseOutput, error) {
```

```
 if params == nil {
```

```
 params = &AssociateLicenseInput{}
```

```
 }
```

```
 result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
```

```
 c.addOperationAssociateLicenseMiddlewares)
```

```
 if err != nil {
```

```
 return nil, err
```

```
 }
```

```
 out
```

```
 := result.(*AssociateLicenseOutput)
```

```
 out.ResultMetadata = metadata
```

```
 return out, nil
```

```

}

type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

 // A structure containing data about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{ }, middleware.After)
 if
 err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
}

```

```

}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
err != nil {
 return err
}
if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

```

```
func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region: region,
ServiceID: ServiceID,
SigningName: "grafana",
OperationName: "AssociateLicense",
}
}
```

## 1.342 importlib-metadata 5.9.0

### 1.342.1 Available under license :

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## 1.343 python-pip 22.3.1

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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

\$ \$Revision: 1.80 \$ \$Date: 2011/11/03 15:11:58 \$

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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.

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| Release | Derived | Year | Owner | GPL- |
|---------|---------|------|-------|------|
|---------|---------|------|-------|------|

|                | from      |           |            | compatible? (1) |
|----------------|-----------|-----------|------------|-----------------|
| 0.9.0 thru 1.2 |           | 1991-1995 | CWI        | yes             |
| 1.3 thru 1.5.2 | 1.2       | 1995-1999 | CNRI       | yes             |
| 1.6            | 1.5.2     | 2000      | CNRI       | no              |
| 2.0            | 1.6       | 2000      | BeOpen.com | no              |
| 1.6.1          | 1.6       | 2001      | CNRI       | yes (2)         |
| 2.1            | 2.0+1.6.1 | 2001      | PSF        | no              |
| 2.0.1          | 2.0+1.6.1 | 2001      | PSF        | yes             |
| 2.1.1          | 2.1+2.0.1 | 2001      | PSF        | yes             |
| 2.2            | 2.1.1     | 2001      | PSF        | yes             |
| 2.1.2          | 2.1.1     | 2002      | PSF        | yes             |
| 2.1.3          |           |           |            |                 |
| 2.1.2          | 2002      | PSF       |            | yes             |
| 2.2.1          | 2.2       | 2002      | PSF        | yes             |
| 2.2.2          | 2.2.1     | 2002      | PSF        | yes             |
| 2.2.3          | 2.2.2     | 2003      | PSF        | yes             |
| 2.3            | 2.2.2     | 2002-2003 | PSF        | yes             |
| 2.3.1          | 2.3       | 2002-2003 | PSF        | yes             |
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| 2.3.3          | 2.3.2     | 2002-2003 | PSF        | yes             |
| 2.3.4          | 2.3.3     | 2004      | PSF        | yes             |
| 2.3.5          | 2.3.4     | 2005      | PSF        | yes             |
| 2.4            | 2.3       | 2004      | PSF        | yes             |
| 2.4.1          | 2.4       | 2005      | PSF        | yes             |
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| 2.4.3          | 2.4.2     | 2006      | PSF        | yes             |
| 2.4.4          | 2.4.3     | 2006      | PSF        | yes             |
| 2.5            | 2.4       | 2006      | PSF        | yes             |
| 2.5.1          | 2.5       | 2007      | PSF        | yes             |
| 2.5.2          | 2.5.1     | 2008      | PSF        | yes             |
| 2.5.3          | 2.5.2     | 2008      | PSF        | yes             |
| 2.6            | 2.5       | 2008      | PSF        | yes             |
| 2.6.1          | 2.6       | 2008      | PSF        | yes             |
| 2.6.2          | 2.6.1     | 2009      | PSF        | yes             |
| 2.6.3          | 2.6.2     | 2009      | PSF        | yes             |
| 2.6.4          | 2.6.3     | 2009      | PSF        | yes             |
| 2.6.5          | 2.6.4     | 2010      | PSF        | yes             |
| 3.0            | 2.6       | 2008      | PSF        | yes             |
| 3.0.1          | 3.0       | 2009      | PSF        | yes             |
| 3.1            | 3.0.1     | 2009      | PSF        | yes             |
| 3.1.1          | 3.1       | 2009      | PSF        | yes             |
| 3.1.2          | 3.1       | 2010      | PSF        | yes             |
| 3.2            | 3.1       | 2010      | PSF        | yes             |

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| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                 |
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |

|               |       |          |     |     |
|---------------|-------|----------|-----|-----|
| 2.1.2         | 2.1.1 | 2002     | PSF | yes |
| 2.1.3         | 2.1.2 | 2002     | PSF | yes |
| 2.2 and above | 2.1.1 | 2001-now |     |     |
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## 1.346 popt 1.19-r0

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# 1.349 libunistring 1.1-r0

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## 1.350 py3-parsing 3.0.9-r0

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@end enumerate

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@heading Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the ``copyright" line and a pointer to where the full notice is found.

@smallexample

@var{one line to give the program's name  
and a brief idea of what it does.}

Copyright (C) @var{yyyy} @var{name of author}

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@end smallexample

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
@smallexample
Gnomovision version
69, Copyright (C) @var{year} @var{name of author}
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
@end smallexample
```

The hypothetical commands `@samp{show w}` and `@samp{show c}` should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `@samp{show w}` and `@samp{show c}`; they could even be mouse-clicks or menu items---whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a ``copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

```
@example
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

```
@var{signature of Ty Coon}, 1 April 1989
Ty Coon, President of Vice
@end example
```

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The gettext-runtime package is partially under the LGPL and partially under the GPL.

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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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- the \_programs\_ gettext, ngettext, envsubst,
- the documentation.

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Version 2.1, February 1999

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The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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Thus, it is not the intent of this section to claim rights or contest

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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include/bsd/stdlib.h  
include/bsd/sys/param.h  
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include/bsd/sys/queue.h  
include/bsd/sys/time.h  
include/bsd/timeconv.h  
include/bsd/vis.h  
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  
src/merge.c  
src/nlist.c  
src/pwcache.c  
src/radixsort.c  
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src/strmode.c  
src/strnstr.c  
src/strtoi.c  
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src/unvis.c

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man/setproctitle.3bsd

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man/fmtcheck.3bsd

man/humanize\_number.3bsd

man/stringlist.3bsd

man/timeval.3bsd  
src/fmtcheck.c  
src/humanize\_number.c  
src/stringlist.c  
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man/pidfile.3bsd  
src/expand\_number.c  
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man/readpassphrase.3bsd

man/strncpy.3bsd

man/strtonum.3bsd

src/arc4random.c

src/arc4random\_linux.h

src/arc4random\_uniform.c

src/arc4random\_unix.h

src/arc4random\_win.h

src/closefrom.c

src/freezero.c

src/getentropy\_aix.c

src/getentropy\_bsd.c

src/getentropy\_hpux.c

src/getentropy\_hurd.c

src/getentropy\_linux.c

src/getentropy\_osx.c

src/getentropy\_solaris.c

src/getentropy\_win.c

src/readpassphrase.c

src/reallocarray.c

src/reallocarray.c  
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```
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```

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```
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`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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## 1.355 gettext 0.21.1-r1



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These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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```
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@var{one line to give the library's name and an idea of what it does.}
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```

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```
@end
smallexample
```

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```

```
@var{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice
@end smallexample
```

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@var{signature of Ty Coon}, 1 April 1989

Ty Coon, President of Vice

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Julian Seward, [jseward@bzip.org](mailto:jseward@bzip.org)  
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## 1.358 brotli 1.0.9-r9

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## 1.360 distlib 0.3.6

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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                 |
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| 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                 |
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| 2.5.1          | 2.5          | 2007      | PSF        | yes                 |
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| 2.5.3          | 2.5.2        | 2008      | PSF        | yes                 |
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|       |       |      |     |     |
|-------|-------|------|-----|-----|
| 2.6.1 | 2.6   | 2008 | PSF | yes |
| 2.6.2 | 2.6.1 | 2009 | PSF | yes |
| 2.6.3 | 2.6.2 | 2009 | PSF | yes |
| 2.6.4 | 2.6.3 | 2009 | PSF | yes |
| 2.6.5 | 2.6.4 | 2010 | PSF | yes |
| 3.0   | 2.6   | 2008 | PSF | yes |
| 3.0.1 | 3.0   | 2009 | PSF | yes |
| 3.1   | 3.0.1 | 2009 | PSF | yes |
| 3.1.1 | 3.1   | 2009 | PSF | yes |
| 3.1.2 | 3.1   | 2010 | PSF | yes |
| 3.2   | 3.1   | 2010 | PSF | yes |

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distlib has started off using some of the code from distutil2.

If you're making a patch, please add your name below in alphabetical order, and welcome into the Fellowship of the Packaging!

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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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@(#) \$RCSfile: certdata.txt,v

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## 1.364 zap-logfmt 1.2.0

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## 1.365 futures 3.4.0

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## 1.366 nghttp2 1.51.0-r0

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```
set yrange [0:]
set terminal pngcairo font 'Sans, 8' lw 1 size 1400,1024
set xtics rotate by -45
set style histogram errorbars gap 2 lw 1
set style fill solid border -1
```

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## 1.367 bzip2 1.0.8-r4

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bzip2/libbzip2 version 1.0.8 of 13 July 2019

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## 1.368 python-setuptools 65.6.0

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# 1.369 alpine-baselayout 3.4.0-r0

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pkgname=perl-software-license
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pkgrel=0
pkgdesc="packages that provide templated software licenses"
url="http://search.cpan.org/dist/Software-License/"
arch="noarch"
license="GPL PerlArtistic"
cpandepends="perl-text-template perl-data-section perl-sub-install"
cpanmakedepends=" "
depends="$cpandepends"
makedepends="perl-dev $cpanmakedepends"
subpackages="$pkgname-doc"
source="http://search.cpan.org/CPAN/authors/id/R/RJ/RJBS/${_pkgreal}-${pkgver}.tar.gz"

_builddir="$srcdir/${_pkgreal}-${pkgver}"

prepare() {
 cd "$_builddir"
 export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}`
 PERL_MM_USE_DEFAULT=1 perl Makefile.PL INSTALLDIRS=vendor
}

build() {
 cd "$_builddir"
 export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}`
 make && make test
}

package() {
 cd "$_builddir"
 make
 DESTDIR="$pkgdir" install || return 1
 find "$pkgdir" \(-name perllocal.pod -o -name .packlist \) -delete
```

}

md5sums="0c5fd53d93818566234578b27d667b35 Software-License-0.103004.tar.gz"

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Automatically generated by apkbuild-cpan, template 1
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Maintainer: Valery Kartel <valery.kartel@gmail.com>
pkgname=perl-bsd-resource
_pkgreal=BSD-Resource
pkgver=1.2909
pkgrel=0
```

```

pkgdesc="Perl extension implements the BSD process resource limit functions"
url="http://search.cpan.org/dist/BSD-Resource/"
arch="all"
license="GPL PerlArtistic"
cpandepends=""
cpanmakedepends=""
depends="$cpandepends"
makedepends="perl-dev $cpanmakedepends"
subpackages="$pkgname-doc"
source="http://search.cpan.org/CPAN/authors/id/J/JH/JHI/${_pkgreal}-${pkgver}.tar.gz"

_builddir="$srcdir/${_pkgreal}-${pkgver}"

prepare() {
 cd "$_builddir"
 export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}'`
 PERL_MM_USE_DEFAULT=1 perl Makefile.PL INSTALLDIRS=vendor
}

build() {
 cd "$_builddir"
 export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}'`
 make && make test || return 1
}

package() {
 cd "$_builddir"
 make DESTDIR="$pkgdir" install || return 1
 find "$pkgdir"
 \(-name perllocal.pod -o -name .packlist\) -delete
}

md5sums="3c6dd2fa953088aa87e263f40818d012 BSD-Resource-1.2909.tar.gz"
sha256sums="c47d460e2bd00d8d049f6ff4a0f1f61957e289e8de45af5fc79e851e2e855e06 BSD-Resource-1.2909.tar.gz"
sha512sums="5f489eaac5089e82081b7cf51d62638750e443751b49415407354da96b17771819b5e6e85529faa41ddd85743363750157943c7f7700276cce2bd40a429fa430 BSD-Resource-1.2909.tar.gz"
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# Contributor: Fabian Affolter <fabian@affolter-engineering.ch>

# Maintainer: Fabian Affolter <fabian@affolter-engineering.ch>

pkgname=py-flake8-copyright

```

_pkgname=flake8-copyright
pkgver=0.1
pkgrel=1
pkgdesc="Extension for flake8 which checks for copyrights"
url="https://github.com/savoirfairelinux/flake8-copyright"
arch="noarch"
license="MIT"
depends="python flake8"
depends_dev=""
makedepends="python-dev py-setuptools"
install=""
subpackages=""
source="http://pypi.python.org/packages/source/${_pkgname:0:1}/${_pkgname}/${_pkgname}-${pkgver}.tar.gz"

_builddir="$srcdir"/${_pkgname}-${pkgver}
prepare() {
 local i
 cd "$_builddir"
 for i in $source; do
 case $i in
 *.patch) msg $i; patch -p1 -i "$srcdir"/$i || return 1;;
 esac
 done
 }

 build() {
 cd "$_builddir"
 python setup.py build || return 1
 }

 package() {
 cd "$_builddir"
 python setup.py install --prefix=/usr --root="$pkgdir" || return 1
 }

md5sums="8fab17d27f0b417c44ea0bebf579d71b flake8-copyright-0.1.tar.gz"
sha256sums="34cba5411ef3f677b7ba8d7b063493c9ed5af9985b2da77807be94bf9e65823b
flake8-copyright-0.1.tar.gz"
sha512sums="c1ef4b8ad4bd422b629ec481074256d33ca4c8e8f10c7a7da6619b01c18ccf6f8a86bf6c7ce4d73f29a93e
0f23797c1a356abcf242e9f556b979b75e3a8bfe46 flake8-copyright-0.1.tar.gz"
GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

```

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# Maintainer: Natanael Copa <ncopa@alpinelinux.org>

pkgname=libart-1gpl

pkgver=2.3.21

pkgrel=5

pkgdesc="A library for high-performance 2D graphics"

url="http://www.levien.com/libart/"

arch="all"

license="LGPL"

depends=

makedepends=

subpackages="\$pkgname-dev"

source="http://ftp.gnome.org/pub/GNOME/sources/libart\_1gpl/2.3/libart\_1gpl-\$pkgver.tar.bz2"

"

\_builddir="\$srcdir"/libart\_1gpl-\$pkgver

prepare() {

cd "\$\_builddir"

```

update_config_sub || return 1
}
build() {
cd "$_builddir"
./configure \
--build=$CBUILD \
--host=$CHOST \
--prefix=/usr \
|| return 1
make || return 1
}

package() {
cd "$_builddir"
make DESTDIR="$pkgdir" install || return 1
}

md5sums="08559ff3c67fd95d57b0c5e91a6b4302 libart_lgpl-2.3.21.tar.bz2"

```

## 1.370 alpine-baselayout-data 3.4.0-r0

### 1.370.1 Available under license :

```

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pkgname=perl-software-license
_pkgreal=Software-License
pkgver=0.103004
pkgrel=0
pkgdesc="packages that provide templated software licenses"
url="http://search.cpan.org/dist/Software-License/"
arch="noarch"
license="GPL PerlArtistic"
cpandepends="perl-text-template perl-data-section perl-sub-install"
cpanmakedepends=" "
depends="$cpandepends"
makedepends="perl-dev $cpanmakedepends"
subpackages="$pkgname-doc"
source="http://search.cpan.org/CPAN/authors/id/R/RJ/RJBS/$_pkgreal-$pkgver.tar.gz"

_buildddir="$srcdir/$_pkgreal-$pkgver"

prepare() {
cd "$_builddir"
export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}`
PERL_MM_USE_DEFAULT=1 perl Makefile.PL INSTALLDIRS=vendor
}

```

```
build() {
 cd "$_builddir"
 export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}'`
 make && make test
}
```

```
package() {
 cd "$_builddir"
 make
 DESTDIR="$pkgdir" install || return 1
 find "$pkgdir" \(-name perllocal.pod -o -name .packlist \) -delete
}
```

md5sums="0c5fd53d93818566234578b27d667b35 Software-License-0.103004.tar.gz"

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95052.

```
Automatically generated by apkbuild-cpan, template 1
Contributor: Valery Kartel <valery.kartel@gmail.com>
Maintainer: Valery Kartel <valery.kartel@gmail.com>
pkgname=perl-bsd-resource
_pkgreal=BSD-Resource
pkgver=1.2909
pkgrel=0
pkgdesc="Perl extension implements the BSD process resource limit functions"
url="http://search.cpan.org/dist/BSD-Resource/"
arch="all"
license="GPL PerlArtistic"
cpandepends=""
cpanmakedepends=""
depends="$cpandepends"
makedepends="perl-dev $cpanmakedepends"
subpackages="$pkgname-doc"
source="http://search.cpan.org/CPAN/authors/id/J/JH/JHI/${_pkgreal}-${pkgver}.tar.gz"

_builddir="$srcdir/${_pkgreal}-${pkgver}"

prepare() {
 cd "$_builddir"
 export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}'`
 PERL_MM_USE_DEFAULT=1 perl Makefile.PL INSTALLDIRS=vendor
}

build() {
 cd "$_builddir"
 export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}'`
 make && make test || return 1
}

package() {
 cd "$_builddir"
 make DESTDIR="$pkgdir" install || return 1
 find "$pkgdir"
 \(-name perllocal.pod -o -name .packlist\) -delete
}

md5sums="3c6dd2fa953088aa87e263f40818d012 BSD-Resource-1.2909.tar.gz"
sha256sums="c47d460e2bd00d8d049f6ff4a0f1f61957e289e8de45af5fc79e851e2e855e06 BSD-Resource-1.2909.tar.gz"
sha512sums="5f489eaac5089e82081b7cf51d62638750e443751b49415407354da96b17771819b5e6e85529faa41ddd85743363750157943c7f7700276cce2bd40a429fa430 BSD-Resource-1.2909.tar.gz"
```

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```
/*
 * Create mount directories in fstab
 *
 * Copyright(c) 2008 Natanael Copa <natanael.copa@gmail.com>
 * May be distributed under the terms of GPL-2
 *
 * usage: mkmntdirs [fstab]
 *
 */
Contributor: Fabian Affolter <fabian@affolter-engineering.ch>
Maintainer: Fabian Affolter <fabian@affolter-engineering.ch>
pkgname=py-flake8-copyright
_pkgname=flake8-copyright
pkgver=0.1
pkgrel=1
pkgdesc="Extension for flake8 which checks for copyrights"
url="https://github.com/savoirfairelinux/flake8-copyright"
arch="noarch"
license="MIT"
depends="python flake8"
depends_dev=""
makedepends="python-dev py-setuptools"
install=""
subpackages=""
source="http://pypi.python.org/packages/source/${_pkgname:0:1}/${_pkgname}/${_pkgname}-${pkgver}.tar.gz"

_builddir="$srcdir"/${_pkgname}-${pkgver}
prepare() {
 local i
 cd "$_builddir"
 for i in $source; do
 case $i in
 *.patch) msg $i; patch -p1 -i "$srcdir"/$i || return 1;;
 esac
 done
 }

build() {
 cd "$_builddir"
 python setup.py build || return 1
}
```

```
}

package() {
 cd "$_builddir"
 python setup.py install --prefix=/usr --root="$pkgdir" || return 1
}

md5sums="8fab17d27f0b417c44ea0bebf579d71b flake8-copyright-0.1.tar.gz"
sha256sums="34cba5411ef3f677b7ba8d7b063493c9ed5af9985b2da77807be94bf9e65823b
flake8-copyright-0.1.tar.gz"
sha512sums="c1ef4b8ad4bd422b629ec481074256d33ca4c8e8f10c7a7da6619b01c18ccf6f8a86bf6c7ce4d73f29a93e
0f23797c1a356abcf242e9f556b979b75e3a8bfe46 flake8-copyright-0.1.tar.gz"
GNU GENERAL PUBLIC LICENSE
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```

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# Maintainer: Natanael Copa <ncopa@alpinelinux.org>

pkgname=libart-igpl

pkgver=2.3.21

pkgrel=5

pkgdesc="A library for high-performance 2D graphics"

url="http://www.levien.com/libart/"

arch="all"

license="LGPL"

depends=

makedepends=

subpackages="\$pkgname-dev"

source="http://ftp.gnome.org/pub/GNOME/sources/libart\_igpl/2.3/libart\_igpl-\$pkgver.tar.bz2"

"

\_builddir="\$srcdir"/libart\_igpl-\$pkgver

prepare() {

cd "\$\_builddir"

update\_config\_sub || return 1

}

build() {

cd "\$\_builddir"

./configure \

--build=\$CBUILD \

--host=\$CHOST \

--prefix=/usr \

|| return 1

make || return 1

}

package() {

cd "\$\_builddir"

make DESTDIR="\$pkgdir" install || return 1

}

md5sums="08559ff3c67fd95d57b0c5e91a6b4302 libart\_igpl-2.3.21.tar.bz2"

## 1.371 busybox 1.35.0-r29

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Julian Seward, Cambridge, UK.

[jseward@bzip.org](mailto:jseward@bzip.org)

bzip2/libbzip2 version 1.0.4 of 20 December 2006

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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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-- vile:txtmode fc=72  
-- \$Id: COPYING,v 1.10 2021/01/01 09:54:30 tom Exp \$  
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# 1.374 py3-pip 22.3.1-r1

## 1.374.1 Available under license :

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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

\$ \$Revision: 1.80 \$ \$Date: 2011/11/03 15:11:58 \$

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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                  |
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| 2.1.2          | 2.1.1        | 2002      | PSF        | yes                 |
| 2.1.3          |              |           |            |                     |
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|       |       |      |     |     |
|-------|-------|------|-----|-----|
| 2.3.5 | 2.3.4 | 2005 | PSF | yes |
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| 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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| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                 |
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
| 2.1.2          | 2.1.1        | 2002      | PSF        | yes                 |
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## 1.375 zlib 1.2.13-r1

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# 1.376 golang-genproto 0.0.0-20221114212237-e4508ebdbee1

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pkgver=0.104001
pkgrel=0
pkgdesc="Perl module for generating prefilled license text"
url="https://metacpan.org/pod/Software::License"
arch="noarch"
license="Artistic-1.0-Perl OR GPL-1.0+"
depends="perl perl-data-section perl-text-template perl-try-tiny"
makedepends="perl-dev"
subpackages="$pkgname-doc"
source="https://cpan.metacpan.org/authors/id/${_a}/${_au}/${_author}/${_pkgreal}-${pkgver}.tar.gz"
builddir="$srcdir/${_pkgreal}-${pkgver}"

build() {
 PERL_MM_USE_DEFAULT=1 perl Makefile.PL INSTALLDIRS=vendor
 make
}

check() {
 make test
}

package() {
 make DESTDIR="$pkgdir" install
 find "$pkgdir" \(-name perllocal.pod -o -name .packlist \) -delete
}

sha512sums="4ba5e11e8aa34a4f59ad4028e8e4547e22d5d56e04836cf280a0fb52a2fb64c8cf5347f6f6e2c368506c35
eeb7e189527e4339d11541aac34c2c28737717e34e
 Software-License-0.104001.tar.gz"
Maintainer: Adelle Platform Group <adelle-devel@lists.adelielinux.org>
pkgname=bsd-compat-headers
pkgver=0.7.1
pkgrel=1
pkgdesc="Compatibility files for building BSD software"
url=" "
arch="noarch"

```

```
options="!check" # Just header files.
license="BSD-2-Clause AND BSD-3-Clause"
depends=""
makedepends=""
subpackages=""
source="sys-cdefs.h
sys-queue.h
sys-tree.h
"
```

```
package() {
 mkdir -p "$pkgdir"
 case "$CLIBC" in
 musl)
 install -D "$srcdir"/sys-cdefs.h "$pkgdir"/usr/include/sys/cdefs.h
 install -D "$srcdir"/sys-queue.h "$pkgdir"/usr/include/sys/queue.h
 install -D "$srcdir"/sys-tree.h "$pkgdir"/usr/include/sys/tree.h
 ;;
 esac
}
```

```
sha512sums="8c3fddd73b696a38e633953715c79c47703739be27ee085fc6c960a57b6746ca05bf6406f7e6126cc1a13
204254fd5830afb566624e1f298f4d6b58216013c28 sys-cdefs.h
2f0d5e6e4dc3350285cf17009265dddcbe12431c111868eea39bc8cb038ab7c1f2acacbb21735c4e9d4a1fd106a8fc0f86
11ea33987d4faba37dde5ce6da0750 sys-queue.h
07cb70f2f0ddb31e23dd913c6f561fc9885667c5803fdf3a559676c99d08834b4104589bacb5d17b4a0b379c68c81a1cf
3173832b3da33a7b936fa7b93706844
sys-tree.h"
```

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Upstream-Name: FIXME

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```
Files: src/pluma-plugins-1.26.0/ABOUT-NLS
src/pluma-plugins-1.26.0/ChangeLog
src/pluma-plugins-1.26.0/Makefile.am
src/pluma-plugins-1.26.0/Makefile.in
src/pluma-plugins-1.26.0/NEWS
src/pluma-plugins-1.26.0/autogen.sh
src/pluma-plugins-1.26.0/config.h.in
src/pluma-plugins-1.26.0/configure.ac
src/pluma-plugins-1.26.0/help/C/bookmarks.page
src/pluma-plugins-1.26.0/help/C/bracketcompletion.page
src/pluma-plugins-1.26.0/help/C/codecomment.page
src/pluma-plugins-1.26.0/help/C/index.page
src/pluma-plugins-1.26.0/help/C/legal-plugins.xml
src/pluma-plugins-1.26.0/help/C/synctex.page
```

src/pluma-plugins-1.26.0/help/C/terminal.page  
src/pluma-plugins-1.26.0/help/C/wordcompletion.page  
src/pluma-plugins-1.26.0/help/Makefile.am  
src/pluma-plugins-1.26.0/help/Makefile.in  
src/pluma-plugins-1.26.0/help/af/af.po  
src/pluma-plugins-1.26.0/help/af/bookmarks.page  
src/pluma-plugins-1.26.0/help/af/bracketcompletion.page  
src/pluma-plugins-1.26.0/help/af/codecomment.page  
src/pluma-plugins-1.26.0/help/af/index.page  
src/pluma-plugins-1.26.0/help/af/legal-plugins.xml  
src/pluma-plugins-1.26.0/help/af/synctex.page  
src/pluma-plugins-1.26.0/help/af/terminal.page  
src/pluma-plugins-1.26.0/help/af/wordcompletion.page  
src/pluma-plugins-1.26.0/help/am/am.po  
src/pluma-plugins-1.26.0/help/am/bookmarks.page  
src/pluma-plugins-1.26.0/help/am/bracketcompletion.page  
src/pluma-plugins-1.26.0/help/am/codecomment.page  
src/pluma-plugins-1.26.0/help/am/index.page  
src/pluma-plugins-1.26.0/help/am/legal-plugins.xml  
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2014, Igor Gnatenko <i.gnatenko.brain@gmail.com> -->  
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FIXME

Files: src/pluma-plugins-1.26.0/po/af.po

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src/pluma-plugins-1.26.0/po/ps.po  
src/pluma-plugins-1.26.0/po/pt.po  
src/pluma-plugins-1.26.0/po/pt\_BR.po  
src/pluma-plugins-1.26.0/po/ro.po  
src/pluma-plugins-1.26.0/po/ru.po  
src/pluma-plugins-1.26.0/po/rw.po  
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src/pluma-plugins-1.26.0/po/wa.po  
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src/pluma-plugins-1.26.0/po/zh\_CN.po  
src/pluma-plugins-1.26.0/po/zh\_HK.po  
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src/pluma-plugins-1.26.0/plugins/synctex/synctex/atril\_dbus.py  
src/pluma-plugins-1.26.0/plugins/synctex/synctex/synctex.py  
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de lignes

es pour les botes de texte seront employes pour le terminal (

faut de l'arriere-plan du terminalCouleur par dfaut du texte dans le terminalTerminal IntgrPoliceSi vrai, presser une  
touche fait dfilet le terminal jusqu'en bas.Si vrai, les lignes pour le dfilement sont toujours conservees. Comme  
l'historique de dfilement est stock temporairement sur le disque, il se pourrait que le systme se retrouve  
moire pour le dfilementPalette pour les applications texteTerminalLe terminal a une palette de 16 couleurs que les  
applications texte peuvent utiliser. Cette palette est represente par une liste de couleurs (en valeurs hexadecimales  
comme

pares par des deux-points ":".Apparence du curseurIndique si un nombre illimit de lignes doit tre gard en mmoire  
pour le dfilementIndique si le curseur doit clignoterIndique s'il faut se rendre en bas du terminal lors de l'appui sur  
une toucheIndique s'il faut rendre le terminal silencieuxIndique s'il faut utiliser les couleurs du thme pour  
le terminalIndique s'il faut utiliser la police systme

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schma tmy pre textov polia namiesto farieb zadanch povateom.Poet riadkov uchovvanej historiePaleta pre programy  
v terminliTerminlTerminly pouvaj 16-farebn paletu, ktor mu poui programy v terminli. Toto je t paleta, zadan ako  
dvojbodkami oddelen zoznam mien farieb. Farby by mali by v hexadecimlnom formte, napr. #FF00FFVzhad  
kurzoraUruje, i sa m uchova neobmedzen poet riadkov v uchovvanej histriiUruje, i m kurzor blikaUruje, i sa m  
posun dolu pri stlaen klvesuUruje, i m by terminlov zvonek potichuUruje, i poui farby z tmy pre prvok  
terminluUruje, i pouva systmov psmo

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Copyright: metowe couleur di fond pol terminPrmetowe couleur pol tecse do terminFonteSi metou, tchk so ene tape fwait aler l' taire li xhuflet do terminEst k'

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Copyright: r alaprtelmezett szneA terminl szvegnnek alaprtelmezett szneBetkszletHa be van lltva, gombnyomsra a grdtsv aljra ugrik.Ha igazra van lltva, akkor a visszagrgetsi sorok soha nem lesznek eldobva. A visszagrgetsi elzmnnyek ideiglenesen a lemezen lesznek trolva, gy emiatt a rendszeren elfogyhat a szabad hely, ha tl sok a kimenet a terminlon.Ha be van lltva, a tma szvegbeviteli dobozokra hasznlt sznsmjrt hasznlja a terminlra a felhasznál ltal

megadottak helyett. A visszagrgetend sorok száma Paletta a terminál alkalmazsokhoz Terminál A terminálnak van egy 16 színes palettja, amit az alkalmazsok a terminálnál használhatnak. Ez az a paletta, színek vevszével elvlasztott listja formájában. A színek hexa alakban kell legyenek, például #FF00FF kurzor megjelenése Vgtelen számú sor töltése a visszagrgetéshez Villogjon-e

a kurzor Billentyűkre gressen-e a terminál aljra Elmentés-e a terminálcsengő Használja-e a terminálemelést tmjnak színeit Használja-e a rendszer betűszétet

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tien d'usase la fonte del sistema.

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Files: src/pluma-plugins-1.26.0/po/gl.gmo

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se o cursor pestanexaIndica se se despraza ao final ao premer unha teclaIndica se se silencia a camp do terminalIndica se se usan as cores do tema no trebello do terminalIndica se se usa o tipo de letra do sistema

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Copyright: vez <toni.estevez@gmail.com>, 2020

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Files: src/pluma-plugins-1.26.0/po/pa.gmo

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Files: src/pluma-plugins-1.26.0/help/pa/bookmarks.page

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Files: src/pluma-plugins-1.26.0/plugins/sourcecodebrowser/sourcecodebrowser/icons/source-namespace.png

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Files: src/pluma-plugins-1.26.0/po/ja.gmo

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Files: src/pluma-plugins-1.26.0/help/ja/wordcompletion.page

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Files: src/pluma-plugins-1.26.0/help/ja/legal-plugins.xml

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Files: src/pluma-plugins-1.26.0/help/ja/codecomment.page

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Copyright: <guiseq><gui style="menu"></gui><gui style="menuitem"></gui><gui></gui></guiseq></p>

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# Contributor: Sle Ekaterin Liszka <sheila@vulpine.house>

# Maintainer: Sle Ekaterin Liszka <sheila@vulpine.house>

pkgname=perl-string-copyright

\_pkgreal=String-Copyright

\_author=JONASS

\_au=\${\_author%%"\${\_author#??"}}}

\_a=\${\_author%"\${\_author#?}"}

pkgver=0.003013

pkgrel=0

pkgdesc="Perl module for normalizing copyright text"

url="https://metacpan.org/pod/String::Copyright"

arch="noarch"

license="AGPL-3.0+"

depends="perl perl-exporter-tiny perl-set-intspan"

checkdepends="perl-test-without-module perl-test2-suite"

makedepends="perl-dev"

subpackages="\$pkgname-doc"

source="https://cpan.metacpan.org/authors/id/\${\_a}/\${\_au}/\${\_author}/\${\_pkgreal}-\${pkgver}.tar.gz"

builddir="\$srcdir/\${\_pkgreal}-\${pkgver}"

build() {

PERL\_MM\_USE\_DEFAULT=1 perl Makefile.PL INSTALLDIRS=vendor

make

}

check() {

make test

}

```
package() {
 make DESTDIR="$pkgdir" install
 find "$pkgdir" \(-name perllocal.pod -o -name .packlist \) -delete
}
```

```
sha512sums="c7e585d53cfeed5f45b471adfb1f36975e6cac8f43b27664a72cc95d27e779bf1e4e796e0237f2ff997f47f
b34f71d4e65dc27ba9da44e00315270f0ecf9ae54
```

```
String-Copyright-0.003013.tar.gz"
```

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6200 Maple Cove Lane  
Charlotte, NC 28269  
USA

A template copyright release is available in PDF or HTML. You can use this release to make future changes.

see <http://www.sqlite.org/copyright.html>

# Maintainer:

pkgname=libart-igpl

pkgver=2.3.21

pkgrel=6

pkgdesc="Library for high-performance 2D graphics"

url="https://www.levien.com/libart/"

arch="all"

options="!check" # No test suite.

license="LGPL-2.0+"

depends=""

makedepends=""

subpackages="\$pkgname-dev"

source="https://download.gnome.org/sources/libart\_igpl/2.3/libart\_igpl-\$pkgver.tar.bz2"

builddir="\$srcdir"/libart\_igpl-\$pkgver

```
prepare() {
 default_prepare
 update_config_sub
}
```

```
build() {
 ./configure \
 --build=$CBUILD \
 --host=$CHOST \
 --prefix=/usr
 make
}
```

```
package() {
 make DESTDIR="$pkgdir" install
}
```

sha512sums="8a632a6a4da59e5e8c02ec2f5a57e36d182b325b46513765425e5f171ff9ae326af1b133725beba28f7e7  
6654309e001aee9bace727b5b4c8589405256a3c020 libart\_lgpl-2.3.21.tar.bz2"

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# Contributor: Sle Ekaterin Liszka <sheila@vulpine.house>

# Maintainer: Sle Ekaterin Liszka <sheila@vulpine.house>

pkgname=perl-regexp-pattern-license

\_pkgreal=Regexp-Pattern-License

\_author=JONASS

\_au=\${\_author%%"\${\_author#?}"}

\_a=\${\_author% "\${\_author#?}"}

pkgver=3.9.4

pkgrel=0

pkgdesc="Perl module for regex-matching legal licenses"

url="https://metacpan.org/pod/Regexp::Pattern::License"

arch="noarch"

```

license="GPL-3.0+"
depends="perl perl-re-engine-re2 perl-regexp-pattern perl-strictures
perl-test-regexp-pattern perl-try-tiny"
checkdepends="perl-test-requires perl-test2-suite perl-test-without-module"
makedepends="perl-dev"
subpackages="$pkgname-doc"
source="https://cpan.metacpan.org/authors/id/$_a/$_au/$_author/$_pkgreal-v$pkgver.tar.gz"
builddir="$srcdir/$_pkgreal-v$pkgver"

build() {
 PERL_MM_USE_DEFAULT=1 perl Makefile.PL INSTALLDIRS=vendor
 make
}

check() {
 make test
}

package() {
 make DESTDIR="$pkgdir" install
 find "$pkgdir" \(-name perllocal.pod -o -name .packlist \) -delete
}

sha512sums="54ada9a5806a88a3bdc621c8c546898bb44e6392e37415335d5a426000936734611b608b89caed8835a
0eb64a996f6a4f3465866a702e8e0dc943a6d4ed6e3de
Regexp-Pattern-License-v3.9.4.tar.gz"

```

# 1.378 log-rotate 3.20.1-r3

## 1.378.1 Available under license :

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Version 2, June 1991

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```
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under certain conditions; type `show c' for details.
```

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```
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`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

<signature of Ty Coon>, 1 April 1989

Ty Coon, President of Vice

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# 1.379 wget 1.21.3-r2

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Version 3, 29 June 2007

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```

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## 1.391 ca-certificates 20220614-r4

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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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## 1.393 sqlite 3.40.1-r0

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## 1.394 prometheus-client 0.2.0

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# 1.396 scanelf 1.3.5-r1

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#
certdata.txt
#
This file contains the object definitions for the certs and other
information "built into" NSS.
#
Object definitions:
#
Certificates
#
-- Attribute -- -- type -- -- value --
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 (varies)
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT DER+base64 (varies)
CKA_ID byte array (varies)
#
CKA_ISSUER DER+base64 (varies)
CKA_SERIAL_NUMBER DER+base64 (varies)
CKA_VALUE DER+base64 (varies)
CKA_NSS_EMAIL ASCII7 (unused here)
CKA_NSS_SERVER_DISTRUST_AFTER DER+base64 (varies)
CKA_NSS_EMAIL_DISTRUST_AFTER DER+base64 (varies)
#
Trust
#
-- Attribute -- -- type -- -- value --
CKA_CLASS CK_OBJECT_CLASS CKO_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 (varies)
CKA_ISSUER DER+base64 (varies)
CKA_SERIAL_NUMBER DER+base64 (varies)
CKA_CERT_HASH binary+base64 (varies)
CKA_EXPIRES CK_DATE
(not used here)
CKA_TRUST_DIGITAL_SIGNATURE CK_TRUST (varies)
CKA_TRUST_NON_REPUDIATION CK_TRUST (varies)
CKA_TRUST_KEY_ENCIPHERMENT CK_TRUST (varies)

```



```

CKA_TRUST_DATA_ENCIPHERMENT CK_TRUST (varies)
CKA_TRUST_KEY_AGREEMENT CK_TRUST (varies)
CKA_TRUST_KEY_CERT_SIGN CK_TRUST (varies)
CKA_TRUST_CRL_SIGN CK_TRUST (varies)
CKA_TRUST_SERVER_AUTH CK_TRUST (varies)
CKA_TRUST_CLIENT_AUTH CK_TRUST (varies)
CKA_TRUST_CODE_SIGNING CK_TRUST (varies)
CKA_TRUST_EMAIL_PROTECTION CK_TRUST (varies)
CKA_TRUST_IPSEC_END_SYSTEM CK_TRUST (varies)
CKA_TRUST_IPSEC_TUNNEL CK_TRUST (varies)
CKA_TRUST_IPSEC_USER CK_TRUST (varies)
CKA_TRUST_TIME_STAMPING CK_TRUST (varies)
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL (varies)
(other
 trust attributes can be defined)
#

#
The object to tell NSS that this is a root list and we don't
have to go looking for others.
#
BEGINDATA
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_BUILTIN_ROOT_LIST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Mozilla Builtin Roots"

#
Certificate "GlobalSign Root CA"
#
Issuer: CN=GlobalSign Root CA,OU=Root CA,O=GlobalSign nv-sa,C=BE
Serial Number:04:00:00:00:00:01:15:4b:5a:c3:94
Subject: CN=GlobalSign Root CA,OU=Root CA,O=GlobalSign nv-sa,C=BE
Not Valid Before: Tue Sep 01 12:00:00 1998
Not Valid After : Fri Jan 28 12:00:00 2028
Fingerprint (SHA-256):
EB:D4:10:40:E4:BB:3E:C7:42:C9:E3:81:D3:1E:F2:A4:1A:48:B6:68:5C:96:E7:CE:F3:C1:DF:6C:D4:33:1C:99
Fingerprint (SHA1): B1:BC:96:8B:D4:F4:9D:62:2A:A8:9A:81:F2:15:01:52:A4:1D:82:9C
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign
 Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\127\061\013\060\011\006\003\125\004\006\023\002\102\105\061

```

\031\060\027\006\003\125\004\012\023\020\107\154\157\142\141\154  
\123\151\147\156\040\156\166\055\163\141\061\020\060\016\006\003  
\125\004\013\023\007\122\157\157\164\040\103\101\061\033\060\031  
\006\003\125\004\003\023\022\107\154\157\142\141\154\123\151\147  
\156\040\122\157\157\164\040\103\101

END

CKA\_ID UTF8 "0"

CKA\_ISSUER MULTILINE\_OCTAL

\060\127\061\013\060\011\006\003\125\004\006\023\002\102\105\061  
\031\060\027\006\003\125\004\012\023\020\107\154\157\142\141\154  
\123\151\147\156\040\156\166\055\163\141\061\020\060\016\006\003  
\125\004\013\023\007\122\157\157\164\040\103\101\061\033\060\031  
\006\003\125\004\003\023\022\107\154\157\142\141\154\123\151\147  
\156\040\122\157\157\164\040\103\101

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

\002\013\004\000\000\000\000\001\025\113\132\303\224

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\003\165\060\202\002\135\240\003\002\001\002\002\013\004  
\000\000\000\000\001\025\113\132\303\224\060\015\006\011\052\206  
\110\206\367\015\001\001\005\005\000\060\127\061\013\060\011\006  
\003\125\004\006\023\002\102\105\061\031\060\027\006\003\125\004  
\012\023\020\107\154\157\142\141\154\123\151\147\156\040\156\166  
\055\163\141\061\020\060\016\006\003\125\004\013\023\007\122\157  
\157\164\040\103\101\061\033\060\031\006\003\125\004\003\023\022  
\107\154\157\142\141\154\123\151\147\156\040\122\157\157\164\040  
\103\101\060\036\027\015\071\070\060\071\060\061\061\062\060\060  
\060\060\132\027\015\062\070\060\061\062\070\061\062\060\060\060  
\060\132\060\127\061\013\060\011\006\003\125\004\006\023\002\102  
\105\061\031\060\027\006\003\125\004\012\023\020\107\154\157\142  
\141\154\123\151\147\156\040\156\166\055\163\141\061\020\060\016  
\006\003\125\004\013\023\007\122\157\157\164\040\103\101\061\033  
\060\031\006\003\125\004\003\023\022\107\154\157\142\141\154\123  
\151\147\156\040\122\157\157\164\040\103\101\060\202\001\042\060  
\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003\202  
\001\017\000\060\202\001\012\002\202\001\001\000\332\016\346\231  
\215\316\243\343\117\212\176\373\361\213\203\045\153\352\110\037  
\361\052\260\271\225\021\004\275\360\143\321\342\147\146\317\034  
\335\317\033\110\053\356\215\211\216\232\257\051\200\145\253\351  
\307\055\022\313\253\034\114\160\007\241\075\012\060\315\025\215  
\117\370\335\324\214\120\025\034\357\120\356\304\056\367\374\351  
\122\362\221\175\340\155\325\065\060\216\136\103\163\362\101\351  
\325\152\343\262\211\072\126\071\070\157\006\074\210\151\133\052  
\115\305\247\124\270\154\211\314\233\371\074\312\345\375\211\365  
\022\074\222\170\226\326\334\164\156\223\104\141\321\215\307\106  
\262\165\016\206\350\031\212\325\155\154\325\170\026\225\242\351  
\310\012\070\353\362\044\023\117\163\124\223\023\205\072\033\274

```
\036\064\265\213\005\214\271\167\213\261\333\037\040\221\253\011
\123\156\220\316\173\067\164\271\160\107\221\042\121\143\026\171
\256\261\256\101\046\010\310\031\053\321\106\252\110\326\144\052
\327\203\064\377\054\052\301\154\031\103\112\007\205\347\323\174
\366\041\150\357\352\362\122\237\177\223\220\317\002\003\001\000
\001\243\102\060\100\060\016\006\003\125\035\017\001\001\377\004
\004\003\002\001\006\060\017\006\003\125\035\023\001\001\377\004
\005\060\003\001\001\377\060\035\006\003\125\035\016\004\026\004
\024\140\173\146\032\105\015\227\312\211\120\057\175\004\315\064
\250\377\374\375\113\060\015\006\011\052\206\110\206\367\015\001
\001\005\005\000\003\202\001\001\000\326\163\347\174\117\166\320
\215\277\354\272\242\276\064\305\050\062\265\174\374\154\234\054
\053\275\011\236\123\277\153\136\252\021\110\266\345\010\243\263
\312\075\141\115\323\106\011\263\076\303\240\343\143\125\033\362
\272\357\255\071\341\103\271\070\243\346\057\212\046\073\357\240
\120\126\371\306\012\375\070\315\304\013\160\121\224\227\230\004
\337\303\137\224\325\025\311\024\101\234\304\135\165\144\025\015
\377\125\060\354\206\217\377\015\357\054\271\143\106\366\252\374
\337\274\151\375\056\022\110\144\232\340\225\360\246\357\051\217
\001\261\025\265\014\035\245\376\151\054\151\044\170\036\263\247
\034\161\142\356\312\310\227\254\027\135\212\302\370\107\206\156
\052\304\126\061\225\320\147\211\205\053\371\154\246\135\106\235
\014\252\202\344\231\121\335\160\267\333\126\075\141\344\152\341
\134\326\366\376\075\336\101\314\007\256\143\122\277\123\123\364
\053\351\307\375\266\367\202\137\205\322\101\030\333\201\263\004
\034\305\037\244\200\157\025\040\311\336\014\210\012\035\326\146
\125\342\374\110\311\051\046\151\340
```

END

CKA\_NSS\_MOZILLA\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "GlobalSign Root CA"

# Issuer: CN=GlobalSign Root CA,OU=Root CA,O=GlobalSign nv-sa,C=BE

# Serial Number:04:00:00:00:01:15:4b:5a:c3:94

# Subject: CN=GlobalSign Root CA,OU=Root CA,O=GlobalSign nv-sa,C=BE

# Not Valid Before: Tue Sep 01 12:00:00 1998

#

Not Valid After : Fri Jan 28 12:00:00 2028

# Fingerprint (SHA-256):

EB:D4:10:40:E4:BB:3E:C7:42:C9:E3:81:D3:1E:F2:A4:1A:48:B6:68:5C:96:E7:CE:F3:C1:DF:6C:D4:33:1C:99

# Fingerprint (SHA1): B1:BC:96:8B:D4:F4:9D:62:2A:A8:9A:81:F2:15:01:52:A4:1D:82:9C

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "GlobalSign Root CA"

```

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\261\274\226\213\324\364\235\142\052\250\232\201\362\025\001\122
\244\035\202\234
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\076\105\122\025\011\121\222\341\267\135\067\237\261\207\051\212
END
CKA_ISSUER MULTILINE_OCTAL
\060\127\061\013\060\011\006\003\125\004\006\023\002\102\105\061
\031\060\027\006\003\125\004\012\023\020\107\154\157\142\141\154
\123\151\147\156\040\156\166\055\163\141\061\020\060\016\006\003
\125\004\013\023\007\122\157\157\164\040\103\101\061\033\060\031
\006\003\125\004\003\023\022\107\154\157\142\141\154\123\151\147
\156\040\122\157\157\164\040\103\101
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\013\004\000\000\000\000\001\025\113\132\303\224
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Verisign Class 1 Public Primary Certification Authority - G3"
#
Issuer: CN=VeriSign Class 1 Public Primary Certification Authority - G3,OU="(c) 1999 VeriSign, Inc. - For
authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US
Serial Number:00:8b:5b:75:56:84:54:85:0b:00:cf:af:38:48:ce:b1:a4
Subject: CN=VeriSign Class 1 Public Primary Certification Authority - G3,OU="(c) 1999 VeriSign, Inc. - For
authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US
Not Valid Before: Fri Oct 01 00:00:00 1999
Not Valid After : Wed Jul 16 23:59:59 2036
Fingerprint (SHA-256):
CB:B5:AF:18:5E:94:2A:24:02:F9:EA:CB:C0:ED:5B:B8:76:EE:A3:C1:22:36:23:D0:04:47:E4:F3:BA:55:4B:65
#
Fingerprint (SHA1): 20:42:85:DC:F7:EB:76:41:95:57:8E:13:6B:D4:B7:D1:E9:8E:46:A5
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Verisign Class 1 Public Primary Certification Authority - G3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\312\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\027\060\025\006\003\125\004\012\023\016\126\145\162\151\123
\151\147\156\054\040\111\156\143\056\061\037\060\035\006\003\125

```

```
\004\013\023\026\126\145\162\151\123\151\147\156\040\124\162\165
\163\164\040\116\145\164\167\157\162\153\061\072\060\070\006\003
\125\004\013\023\061\050\143\051\040\061\071\071\071\040\126\145
\162\151\123\151\147\156\054\040\111\156\143\056\040\055\040\106
\157\162\040\141\165\164\150\157\162\151\172\145\144\040\165\163
\145\040\157\156\154\171\061\105\060\103\006\003\125\004\003\023
\074\126\145\162\151\123\151\147\156\040\103\154\141\163\163\040
\061\040\120\165\142\154\151\143\040\120\162\151\155\141\162\171
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171\040\055\040\107\063
```

END

CKA\_ID

UTF8 "0"

CKA\_ISSUER MULTILINE\_OCTAL

```
\060\201\312\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\027\060\025\006\003\125\004\012\023\016\126\145\162\151\123
\151\147\156\054\040\111\156\143\056\061\037\060\035\006\003\125
\004\013\023\026\126\145\162\151\123\151\147\156\040\124\162\165
\163\164\040\116\145\164\167\157\162\153\061\072\060\070\006\003
\125\004\013\023\061\050\143\051\040\061\071\071\071\040\126\145
\162\151\123\151\147\156\054\040\111\156\143\056\040\055\040\106
\157\162\040\141\165\164\150\157\162\151\172\145\144\040\165\163
\145\040\157\156\154\171\061\105\060\103\006\003\125\004\003\023
\074\126\145\162\151\123\151\147\156\040\103\154\141\163\163\040
\061\040\120\165\142\154\151\143\040\120\162\151\155\141\162\171
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171\040\055\040\107\063
```

END

CKA\_SERIAL\_NUMBER

MULTILINE\_OCTAL

```
\002\021\000\213\133\165\126\204\124\205\013\000\317\257\070\110
\316\261\244
```

END

CKA\_VALUE MULTILINE\_OCTAL

```
\060\202\004\032\060\202\003\002\002\021\000\213\133\165\126\204
\124\205\013\000\317\257\070\110\316\261\244\060\015\006\011\052
\206\110\206\367\015\001\001\005\005\000\060\201\312\061\013\060
\011\006\003\125\004\006\023\002\125\123\061\027\060\025\006\003
\125\004\012\023\016\126\145\162\151\123\151\147\156\054\040\111
\156\143\056\061\037\060\035\006\003\125\004\013\023\026\126\145
\162\151\123\151\147\156\040\124\162\165\163\164\040\116\145\164
\167\157\162\153\061\072\060\070\006\003\125\004\013\023\061\050
\143\051\040\061\071\071\071\040\126\145\162\151\123\151\147\156
\054\040\111\156\143\056\040\055\040\106\157\162\040\141\165\164
\150\157\162\151\172\145\144\040\165\163\145\040\157\156\154\171
\061\105\060\103\006\003\125\004\003\023\074\126\145\162\151\123
\151\147\156\040\103\154\141\163\163\040\061\040\120\165\142\154
\151\143\040\120\162\151\155\141\162\171\040\103\145\162\164\151
```

\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151  
\164\171\040\055\040\107\063\060\036\027\015\071\071\061\060\060  
\061\060\060\060\060\060\060\132\027\015\063\066\060\067\061\066  
\062\063\065\071\065\071\132\060\201\312\061\013\060\011\006\003  
\125\004\006\023\002\125\123\061\027\060\025\006\003\125\004\012  
\023\016\126\145\162\151\123\151\147\156\054\040\111\156\143\056  
\061\037\060\035\006\003\125\004\013\023\026\126\145\162\151\123  
\151\147\156\040\124\162\165\163\164\040\116\145\164\167\157\162  
\153\061\072\060\070\006\003\125\004\013\023\061\050\143\051\040  
\061\071\071\071\040\126\145\162\151\123\151\147\156\054\040\111  
\156\143\056\040\055\040\106\157\162\040\141\165\164\150\157\162  
\151\172\145\144\040\165\163\145\040\157\156\154\171\061\105\060  
\103\006\003\125\004\003\023\074\126\145\162\151\123\151\147\156  
\040\103\154\141\163\163\040\061\040\120\165\142\154\151\143\040  
\120\162\151\155\141\162\171\040\103\145\162\164\151\146\151\143  
\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171\040  
\055\040\107\063\060\202\001\042\060\015\006\011\052\206\110\206  
\367\015\001\001\001\005\000\003\202\001\017\000\060\202\001\012  
\002\202\001\001\000\335\204\324\271\264\371\247\330\363\004\170  
\234\336\075\334\154\023\026\331\172\335\044\121\146\300\307\046  
\131\015\254\006\010\302\224\321\063\037\360\203\065\037\156\033  
\310\336\252\156\025\116\124\047\357\304\155\032\354\013\343\016  
\360\104\245\127\307\100\130\036\243\107\037\161\354\140\366\155  
\224\310\030\071\355\376\102\030\126\337\344\114\111\020\170\116  
\001\166\065\143\022\066\335\146\274\001\004\066\243\125\150\325  
\242\066\011\254\253\041\046\124\006\255\077\312\024\340\254\312  
\255\006\035\225\342\370\235\361\340\140\377\302\177\165\053\114  
\314\332\376\207\231\041\352\272\376\076\124\327\322\131\170\333  
\074\156\317\240\023\000\032\270\047\241\344\276\147\226\312\240  
\305\263\234\335\311\165\236\353\060\232\137\243\315\331\256\170  
\031\077\043\351\134\333\051\275\255\125\310\033\124\214\143\366  
\350\246\352\307\067\022\134\243\051\036\002\331\333\037\073\264  
\327\017\126\107\201\025\004\112\257\203\047\321\305\130\210\301  
\335\366\252\247\243\030\332\150\252\155\021\121\341\277\145\153  
\237\226\166\321\075\002\003\001\000\001\060\015\006\011\052\206  
\110\206\367\015\001\001\005\005\000\003\202\001\001\000\253\146  
\215\327\263\272\307\232\266\346\125\320\005\361\237\061\215\132  
\252\331\252\106\046\017\161\355\245\255\123\126\142\001\107\052  
\104\351\376\077\164\013\023\233\271\364\115\033\262\321\137\262  
\266\322\210\134\263\237\315\313\324\247\331\140\225\204\072\370  
\301\067\035\141\312\347\260\305\345\221\332\124\246\254\061\201  
\256\227\336\315\010\254\270\300\227\200\177\156\162\244\347\151  
\023\225\145\037\304\223\074\375\171\217\004\324\076\117\352\367  
\236\316\315\147\174\117\145\002\377\221\205\124\163\307\377\066  
\367\206\055\354\320\136\117\377\021\237\162\006\326\270\032\361  
\114\015\046\145\342\104\200\036\307\237\343\335\350\012\332\354  
\245\040\200\151\150\241\117\176\341\153\317\007\101\372\203\216  
\274\070\335\260\056\021\261\153\262\102\314\232\274\371\110\042

```
\171\112\031\017\262\034\076\040\164\331\152\303\276\362\050\170
\023\126\171\117\155\120\352\033\260\265\127\261\067\146\130\043
\363\334\017\337\012\207\304\357\206\005\325\070\024\140\231\243
\113\336\006\226\161\054\362\333\266\037\244\357\077\356
```

END

CKA\_NSS\_MOZILLA\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# For Email Distrust After: Wed Aug 31 00:00:00 2022

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER MULTILINE\_OCTAL

\062\062\060\070\063\061\060\060\060\060\060\060\132

END

# Trust for "Verisign Class 1 Public Primary Certification Authority - G3"

# Issuer: CN=VeriSign Class 1 Public Primary Certification Authority - G3,OU="(c) 1999 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US

# Serial Number:00:8b:5b:75:56:84:54:85:0b:00:cf:af:38:48:ce:b1:a4

# Subject: CN=VeriSign Class 1 Public Primary Certification Authority - G3,OU="(c) 1999 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US

# Not Valid Before: Fri Oct 01 00:00:00 1999

# Not Valid After : Wed Jul 16 23:59:59 2036

# Fingerprint (SHA-256):

CB:B5:AF:18:5E:94:2A:24:02:F9:EA:CB:C0:ED:5B:B8:76:EE:A3:C1:22:36:23:D0:04:47:E4:F3:BA:55:4B:65

# Fingerprint (SHA1): 20:42:85:DC:F7:EB:76:41:95:57:8E:13:6B:D4:B7:D1:E9:8E:46:A5

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "Verisign Class 1 Public Primary Certification Authority - G3"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

\040\102\205\334\367\353\166\101\225\127\216\023\153\324\267\321
\351\216\106\245

END

CKA\_CERT\_MD5\_HASH MULTILINE\_OCTAL

\261\107\274\030\127\321\030\240\170\055\354\161\350\052\225\163

END

CKA\_ISSUER

MULTILINE\_OCTAL

\060\201\312\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\027\060\025\006\003\125\004\012\023\016\126\145\162\151\123
\151\147\156\054\040\111\156\143\056\061\037\060\035\006\003\125
\004\013\023\026\126\145\162\151\123\151\147\156\040\124\162\165
\163\164\040\116\145\164\167\157\162\153\061\072\060\070\006\003
\125\004\013\023\061\050\143\051\040\061\071\071\071\040\126\145
\162\151\123\151\147\156\054\040\111\156\143\056\040\055\040\106
\157\162\040\141\165\164\150\157\162\151\172\145\144\040\165\163
\145\040\157\156\154\171\061\105\060\103\006\003\125\004\003\023
\074\126\145\162\151\123\151\147\156\040\103\154\141\163\163\040

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\061\040\120\165\142\154\151\143\040\120\162\151\155\141\162\171
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171\040\055\040\107\063
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END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

```
\002\021\000\213\133\165\126\204\124\205\013\000\317\257\070\110
\316\261\244
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END

CKA\_TRUST\_SERVER\_AUTH

CK\_TRUST CKT\_NSS\_MUST\_VERIFY\_TRUST

CKA\_TRUST\_EMAIL\_PROTECTION CK\_TRUST CKT\_NSS\_TRUSTED\_DELEGATOR

CKA\_TRUST\_CODE\_SIGNING CK\_TRUST CKT\_NSS\_MUST\_VERIFY\_TRUST

CKA\_TRUST\_STEP\_UP\_APPROVED CK\_BBOOL CK\_FALSE

#

# Certificate "Verisign Class 2 Public Primary Certification Authority - G3"

#

# Issuer: CN=VeriSign Class 2 Public Primary Certification Authority - G3,OU="(c) 1999 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US

# Serial Number:61:70:cb:49:8c:5f:98:45:29:e7:b0:a6:d9:50:5b:7a

# Subject: CN=VeriSign Class 2 Public Primary Certification Authority - G3,OU="(c) 1999 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US

# Not Valid Before: Fri Oct 01 00:00:00 1999

# Not Valid After : Wed Jul 16 23:59:59 2036

# Fingerprint (SHA-256):

92:A9:D9:83:3F:E1:94:4D:B3:66:E8:BF:AE:7A:95:B6:48:0C:2D:6C:6C:2A:1B:E6:5D:42:36:B6:08:FC:A1:BB

# Fingerprint (SHA1): 61:EF:43:D7:7F:CA:D4:61:51:BC:98:E0:C3:59:12:AF:9F:EB:63:11

CKA\_CLASS

CK\_OBJECT\_CLASS CKO\_CERTIFICATE

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "Verisign Class 2 Public Primary Certification Authority - G3"

CKA\_CERTIFICATE\_TYPE CK\_CERTIFICATE\_TYPE CKC\_X\_509

CKA\_SUBJECT MULTILINE\_OCTAL

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\060\201\312\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\027\060\025\006\003\125\004\012\023\016\126\145\162\151\123
\151\147\156\054\040\111\156\143\056\061\037\060\035\006\003\125
\004\013\023\026\126\145\162\151\123\151\147\156\040\124\162\165
\163\164\040\116\145\164\167\157\162\153\061\072\060\070\006\003
\125\004\013\023\061\050\143\051\040\061\071\071\071\040\126\145
\162\151\123\151\147\156\054\040\111\156\143\056\040\055\040\106
\157\162\040\141\165\164\150\157\162\151\172\145\144\040\165\163
\145\040\157\156\154\171\061\105\060\103\006\003\125\004\003\023
\074\126\145\162\151\123\151\147\156\040\103\154\141\163\163\040
\062\040\120\165\142\154\151\143\040\120\162\151\155\141\162\171
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171\040\055\040\107\063
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END

CKA\_ID

UTF8 "0"

CKA\_ISSUER MULTILINE\_OCTAL

\060\201\312\061\013\060\011\006\003\125\004\006\023\002\125\123  
\061\027\060\025\006\003\125\004\012\023\016\126\145\162\151\123  
\151\147\156\054\040\111\156\143\056\061\037\060\035\006\003\125  
\004\013\023\026\126\145\162\151\123\151\147\156\040\124\162\165  
\163\164\040\116\145\164\167\157\162\153\061\072\060\070\006\003  
\125\004\013\023\061\050\143\051\040\061\071\071\071\040\126\145  
\162\151\123\151\147\156\054\040\111\156\143\056\040\055\040\106  
\157\162\040\141\165\164\150\157\162\151\172\145\144\040\165\163  
\145\040\157\156\154\171\061\105\060\103\006\003\125\004\003\023  
\074\126\145\162\151\123\151\147\156\040\103\154\141\163\163\040  
\062\040\120\165\142\154\151\143\040\120\162\151\155\141\162\171  
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101  
\165\164\150\157\162\151\164\171\040\055\040\107\063

END

CKA\_SERIAL\_NUMBER

MULTILINE\_OCTAL

\002\020\141\160\313\111\214\137\230\105\051\347\260\246\331\120  
\133\172

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\004\031\060\202\003\001\002\020\141\160\313\111\214\137  
\230\105\051\347\260\246\331\120\133\172\060\015\006\011\052\206  
\110\206\367\015\001\001\005\005\000\060\201\312\061\013\060\011  
\006\003\125\004\006\023\002\125\123\061\027\060\025\006\003\125  
\004\012\023\016\126\145\162\151\123\151\147\156\054\040\111\156  
\143\056\061\037\060\035\006\003\125\004\013\023\026\126\145\162  
\151\123\151\147\156\040\124\162\165\163\164\040\116\145\164\167  
\157\162\153\061\072\060\070\006\003\125\004\013\023\061\050\143  
\051\040\061\071\071\071\040\126\145\162\151\123\151\147\156\054  
\040\111\156\143\056\040\055\040\106\157\162\040\141\165\164\150  
\157\162\151\172\145\144\040\165\163\145\040\157\156\154\171\061  
\105\060\103\006\003\125\004\003\023\074\126\145\162\151\123\151  
\147\156\040\103\154\141\163\163\040\062\040\120\165\142\154\151  
\143\040\120\162\151\155\141\162\171\040\103\145\162\164\151\146  
\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164  
\171\040\055\040\107\063\060\036\027\015\071\071\061\060\060\061  
\060\060\060\060\060\060\132\027\015\063\066\060\067\061\066\062  
\063\065\071\065\071\132\060\201\312\061\013\060\011\006\003\125  
\004\006\023\002\125\123\061\027\060\025\006\003\125\004\012\023  
\016\126\145\162\151\123\151\147\156\054\040\111\156\143\056\061  
\037\060\035\006\003\125\004\013\023\026\126\145\162\151\123\151  
\147\156\040\124\162\165\163\164\040\116\145\164\167\157\162\153  
\061\072\060\070\006\003\125\004\013\023\061\050\143\051\040\061  
\071\071\071\040\126\145\162\151\123\151\147\156\054\040\111\156

\143\056\040\055\040\106\157\162\040\141\165\164\150\157\162\151  
\172\145\144\040\165\163\145\040\157\156\154\171\061\105\060\103  
\006\003\125\004\003\023\074\126\145\162\151\123\151\147\156\040  
\103\154\141\163\163\040\062\040\120\165\142\154\151\143\040\120  
\162\151\155\141\162\171\040\103\145\162\164\151\146\151\143\141  
\164\151\157\156\040\101\165\164\150\157\162\151\164\171\040\055  
\040\107\063\060\202\001\042\060\015\006\011\052\206\110\206\367  
\015\001\001\001\005\000\003\202\001\017\000\060\202\001\012\002  
\202\001\001\000\257\012\015\302\325\054\333\147\271\055\345\224  
\047\335\245\276\340\260\115\217\263\141\126\074\326\174\303\364  
\315\076\206\313\242\210\342\341\330\244\151\305\265\342\277\301  
\246\107\120\136\106\071\213\325\226\272\265\157\024\277\020\316  
\047\023\236\005\107\233\061\172\023\330\037\331\323\002\067\213  
\255\054\107\360\216\201\006\247\015\060\014\353\367\074\017\040  
\035\334\162\106\356\245\002\310\133\303\311\126\151\114\305\030  
\301\221\173\013\325\023\000\233\274\357\303\110\076\106\140\040  
\205\052\325\220\266\315\213\240\314\062\335\267\375\100\125\262  
\120\034\126\256\314\215\167\115\307\040\115\247\061\166\357\150  
\222\212\220\036\010\201\126\262\255\151\243\122\320\313\034\304  
\043\075\037\231\376\114\350\026\143\216\306\010\216\366\061\366  
\322\372\345\166\335\265\034\222\243\111\315\315\001\315\150\315  
\251\151\272\243\353\035\015\234\244\040\246\301\240\305\321\106  
\114\027\155\322\254\146\077\226\214\340\204\324\066\377\042\131  
\305\371\021\140\250\137\004\175\362\032\366\045\102\141\017\304  
\112\270\076\211\002\003\001\000\001\060\015\006\011\052\206\110  
\206\367\015\001\001\005\005\000\003\202\001\001\000\064\046\025  
\074\300\215\115\103\111\035\275\351\041\222\327\146\234\267\336  
\305\270\320\344\135\137\166\042\300\046\371\204\072\072\371\214  
\265\373\354\140\361\350\316\004\260\310\335\247\003\217\060\363  
\230\337\244\346\244\061\337\323\034\013\106\334\162\040\077\256  
\356\005\074\244\063\077\013\071\254\160\170\163\113\231\053\337  
\060\302\124\260\250\073\125\241\376\026\050\315\102\275\164\156  
\200\333\047\104\247\316\104\135\324\033\220\230\015\036\102\224  
\261\000\054\004\320\164\243\002\005\042\143\143\315\203\265\373  
\301\155\142\153\151\165\375\135\160\101\271\365\277\174\337\276  
\301\062\163\042\041\213\130\201\173\025\221\172\272\343\144\110  
\260\177\373\066\045\332\225\320\361\044\024\027\335\030\200\153  
\106\043\071\124\365\216\142\011\004\035\224\220\246\233\346\045  
\342\102\105\252\270\220\255\276\010\217\251\013\102\030\224\317  
\162\071\341\261\103\340\050\317\267\347\132\154\023\153\111\263  
\377\343\030\174\211\213\063\135\254\063\327\247\371\332\072\125  
\311\130\020\371\252\357\132\266\317\113\113\337\052

END

CKA\_NSS\_MOZILLA\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# For Email Distrust After: Wed Aug 31 00:00:00 2022

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER MULTILINE\_OCTAL

\062\062\060\070\063\061\060\060\060\060\060\060\132

END

# Trust for "Verisign Class 2 Public Primary Certification Authority - G3"

# Issuer: CN=VeriSign Class 2 Public Primary Certification Authority - G3,OU="(c) 1999 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US

# Serial Number:61:70:cb:49:8c:5f:98:45:29:e7:b0:a6:d9:50:5b:7a

#

Subject: CN=VeriSign Class 2 Public Primary Certification Authority - G3,OU="(c) 1999 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US

# Not Valid Before: Fri Oct 01 00:00:00 1999

# Not Valid After : Wed Jul 16 23:59:59 2036

# Fingerprint (SHA-256):

92:A9:D9:83:3F:E1:94:4D:B3:66:E8:BF:AE:7A:95:B6:48:0C:2D:6C:6C:2A:1B:E6:5D:42:36:B6:08:FC:A1:BB

# Fingerprint (SHA1): 61:EF:43:D7:7F:CA:D4:61:51:BC:98:E0:C3:59:12:AF:9F:EB:63:11

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "Verisign Class 2 Public Primary Certification Authority - G3"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

\141\357\103\327\177\312\324\141\121\274\230\340\303\131\022\257

\237\353\143\021

END

CKA\_CERT\_MD5\_HASH MULTILINE\_OCTAL

\370\276\304\143\042\311\250\106\164\213\270\035\036\112\053\366

END

CKA\_ISSUER MULTILINE\_OCTAL

\060\201\312\061\013\060\011\006\003\125\004\006\023\002\125\123

\061\027\060\025\006\003\125\004\012\023\016\126\145\162\151\123

\151\147\156\054\040\111\156\143\056\061\037\060\035\006\003\125

\004\013\023\026\126\145\162\151\123\151\147\156\040\124\162\165

\163\164\040\116\145\164\167\157\162\153\061\072\060\070\006\003

\125\004\013\023\061\050\143\051\040\061\071\071\071\040\126\145

\162\151\123\151\147\156\054\040\111\156\143\056\040\055\040\106

\157\162\040\141\165\164\150\157\162\151\172\145\144\040\165\163

\145\040\157\156\154\171\061\105\060\103\006\003\125\004\003\023

\074\126\145\162\151\123\151\147\156\040\103\154\141\163\163\040

\062\040\120\165\142\154\151\143\040\120\162\151\155\141\162\171

\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101

\165\164\150\157\162\151\164\171\040\055\040\107\063

END

CKA\_SERIAL\_NUMBER

MULTILINE\_OCTAL

\002\020\141\160\313\111\214\137\230\105\051\347\260\246\331\120

\133\172

END

CKA\_TRUST\_SERVER\_AUTH CK\_TRUST CKT\_NSS\_MUST\_VERIFY\_TRUST

```

CKA_TRUST_EMAIL_PROTECTION
CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Entrust.net Premium 2048 Secure Server CA"
#
Issuer: CN=Entrust.net Certification Authority (2048),OU=(c) 1999 Entrust.net
Limited,OU=www.entrust.net/CPS_2048 incorp. by ref. (limits liab.),O=Entrust.net
Serial Number: 946069240 (0x3863def8)
Subject: CN=Entrust.net Certification Authority (2048),OU=(c) 1999 Entrust.net
Limited,OU=www.entrust.net/CPS_2048 incorp. by ref. (limits liab.),O=Entrust.net
Not Valid Before: Fri Dec 24 17:50:51 1999
Not Valid After : Tue Jul 24 14:15:12 2029
Fingerprint (SHA-256):
6D:C4:71:72:E0:1C:BC:B0:BF:62:58:0D:89:5F:E2:B8:AC:9A:D4:F8:73:80:1E:0C:10:B9:C8:37:D2:1E:B1:77
Fingerprint (SHA1): 50:30:06:09:1D:97:D4:F5:AE:39:F7:CB:E7:92:7D:7D:65:2D:34:31
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL
UTF8 "Entrust.net Premium 2048 Secure Server CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\264\061\024\060\022\006\003\125\004\012\023\013\105\156
\164\162\165\163\164\056\156\145\164\061\100\060\076\006\003\125
\004\013\024\067\167\167\167\056\145\156\164\162\165\163\164\056
\156\145\164\057\103\120\123\137\062\060\064\070\040\151\156\143
\157\162\160\056\040\142\171\040\162\145\146\056\040\050\154\151
\155\151\164\163\040\154\151\141\142\056\051\061\045\060\043\006
\003\125\004\013\023\034\050\143\051\040\061\071\071\071\040\105
\156\164\162\165\163\164\056\156\145\164\040\114\151\155\151\164
\145\144\061\063\060\061\006\003\125\004\003\023\052\105\156\164
\162\165\163\164\056\156\145\164\040\103\145\162\164\151\146\151
\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171
\040\050\062\060\064\070\051
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CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
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\164\162\165\163\164\056\156\145\164\061\100\060\076\006\003\125
\004\013\024\067\167\167\167\056\145\156\164\162\165\163\164\056
\156\145\164\057\103\120\123\137\062\060\064\070\040\151\156\143
\157\162\160\056\040\142\171\040\162\145\146\056\040\050\154\151
\155\151\164\163\040\154\151\141\142\056\051\061\045\060\043\006
\003\125\004\013\023\034\050\143\051\040\061\071\071\071\040\105

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\156\164\162\165\163\164\056\156\145\164\040\114\151\155\151\164  
\145\144\061\063\060\061\006\003\125\004\003\023\052\105\156\164  
\162\165\163\164\056\156\145\164\040\103\145\162\164\151\146\151  
\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171  
\040\050\062\060\064\070\051

END

CKA\_SERIAL\_NUMBER

MULTILINE\_OCTAL

\002\004\070\143\336\370

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\004\052\060\202\003\022\240\003\002\001\002\002\004\070  
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\105\156\164\162\165\163\164\056\156\145\164\061\100\060\076\006  
\003\125\004\013\024\067\167\167\167\056\145\156\164\162\165\163  
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\156\143\157\162\160\056\040\142\171\040\162\145\146\056\040\050  
\154\151\155\151\164\163\040\154\151\141\142\056\051\061\045\060  
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\151\164\145\144\061\063\060\061\006\003\125\004\003\023\052\105  
\156\164\162\165\163\164\056\156\145\164\040\103\145\162\164\151  
\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151  
\164\171\040\050\062\060\064\070\051\060\036\027\015\071\071\061  
\062\062\064\061\067\065\060\065\061\132\027\015\062\071\060\067  
\062\064\061\064\061\065\061\062\132\060\201\264\061\024\060\022  
\006\003\125\004\012\023\013\105\156\164\162\165\163\164\056\156  
\145\164\061\100\060\076\006\003\125\004\013\024\067\167\167\167  
\056\145\156\164\162\165\163\164\056\156\145\164\057\103\120\123  
\137\062\060\064\070\040\151\156\143\157\162\160\056\040\142\171  
\040\162\145\146\056\040\050\154\151\155\151\164\163\040\154\151  
\141\142\056\051\061\045\060\043\006\003\125\004\013\023\034\050  
\143\051\040\061\071\071\071\040\105\156\164\162\165\163\164\056  
\156\145\164\040\114\151\155\151\164\145\144\061\063\060\061\006  
\003\125\004\003\023\052\105\156\164\162\165\163\164\056\156\145  
\164\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040  
\101\165\164\150\157\162\151\164\171\040\050\062\060\064\070\051  
\060\202\001\042\060\015\006\011\052\206\110\206\367\015\001\001  
\001\005\000\003\202\001\017\000\060\202\001\012\002\202\001\001  
\000\255\115\113\251\022\206\262\352\243\040\007\025\026\144\052  
\053\113\321\277\013\112\115\216\355\200\166\245\147\267\170\100  
\300\163\102\310\150\300\333\123\053\335\136\270\166\230\065\223  
\213\032\235\174\023\072\016\037\133\267\036\317\345\044\024\036  
\261\201\251\215\175\270\314\153\113\003\361\002\014\334\253\245  
\100\044\000\177\164\224\241\235\010\051\263\210\013\365\207\167  
\235\125\315\344\303\176\327\152\144\253\205\024\206\225\133\227  
\062\120\157\075\310\272\146\014\343\374\275\270\111\301\166\211

\111\031\375\300\250\275\211\243\147\057\306\237\274\161\031\140  
\270\055\351\054\311\220\166\146\173\224\342\257\170\326\145\123  
\135\074\326\234\262\317\051\003\371\057\244\120\262\324\110\316  
\005\062\125\212\375\262\144\114\016\344\230\007\165\333\177\337  
\271\010\125\140\205\060\051\371\173\110\244\151\206\343\065\077  
\036\206\135\172\172\025\275\357\000\216\025\042\124\027\000\220  
\046\223\274\016\111\150\221\277\370\107\323\235\225\102\301\016  
\115\337\157\046\317\303\030\041\142\146\103\160\326\325\300\007  
\341\002\003\001\000\001\243\102\060\100\060\016\006\003\125\035  
\017\001\001\377\004\004\003\002\001\006\060\017\006\003\125\035  
\023\001\001\377\004\005\060\003\001\001\377\060\035\006\003\125  
\035\016\004\026\004\024\125\344\201\321\021\200\276\330\211\271  
\010\243\061\371\241\044\011\026\271\160\060\015\006\011\052\206  
\110\206\367\015\001\001\005\005\000\003\202\001\001\000\073\233  
\217\126\233\060\347\123\231\174\172\171\247\115\227\327\031\225  
\220\373\006\037\312\063\174\106\143\217\226\146\044\372\100\033  
\041\047\312\346\162\163\362\117\376\061\231\375\310\014\114\150  
\123\306\200\202\023\230\372\266\255\332\135\075\361\316\156\366  
\025\021\224\202\014\356\077\225\257\021\253\017\327\057\336\037  
\003\217\127\054\036\311\273\232\032\104\225\353\030\117\246\037  
\315\175\127\020\057\233\004\011\132\204\265\156\330\035\072\341  
\326\236\321\154\171\136\171\034\024\305\343\320\114\223\073\145  
\074\355\337\075\276\246\345\225\032\303\265\031\303\275\136\133  
\273\377\043\357\150\031\313\022\223\047\134\003\055\157\060\320  
\036\266\032\254\336\132\367\321\252\250\047\246\376\171\201\304  
\171\231\063\127\272\022\260\251\340\102\154\223\312\126\336\376  
\155\204\013\010\213\176\215\352\327\230\041\306\363\347\074\171  
\057\136\234\321\114\025\215\341\354\042\067\314\232\103\013\227  
\334\200\220\215\263\147\233\157\110\010\025\126\317\277\361\053  
\174\136\232\166\351\131\220\305\174\203\065\021\145\121

END

CKA\_NSS\_MOZILLA\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "Entrust.net Premium 2048 Secure Server CA"

# Issuer: CN=Entrust.net Certification Authority (2048),OU=(c) 1999 Entrust.net  
Limited,OU=www.entrust.net/CPS\_2048 incorp. by ref. (limits liab.),O=Entrust.net

# Serial Number: 946069240 (0x3863def8)

# Subject: CN=Entrust.net Certification Authority (2048),OU=(c) 1999 Entrust.net  
Limited,OU=www.entrust.net/CPS\_2048 incorp. by ref. (limits liab.),O=Entrust.net

# Not Valid Before: Fri Dec 24 17:50:51 1999

# Not Valid After : Tue Jul 24 14:15:12 2029

# Fingerprint (SHA-256):

6D:C4:71:72:E0:1C:BC:B0:BF:62:58:0D:89:5F:E2:B8:AC:9A:D4:F8:73:80:1E:0C:10:B9:C8:37:D2:1E:B1:77

# Fingerprint (SHA1): 50:30:06:09:1D:97:D4:F5:AE:39:F7:CB:E7:92:7D:7D:65:2D:34:31

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

```

CKA_TOKEN
CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Entrust.net Premium 2048 Secure Server CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\120\060\006\011\035\227\324\365\256\071\367\313\347\222\175\175
\145\055\064\061
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\356\051\061\274\062\176\232\346\350\265\367\121\264\064\161\220
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\264\061\024\060\022\006\003\125\004\012\023\013\105\156
\164\162\165\163\164\056\156\145\164\061\100\060\076\006\003\125
\004\013\024\067\167\167\167\056\145\156\164\162\165\163\164\056
\156\145\164\057\103\120\123\137\062\060\064\070\040\151\156\143
\157\162\160\056\040\142\171\040\162\145\146\056\040\050\154\151
\155\151\164\163\040\154\151\141\142\056\051\061\045\060\043\006
\003\125\004\013\023\034\050\143\051\040\061\071\071\071\040\105
\156\164\162\165\163\164\056\156\145\164\040\114\151\155\151\164
\145\144\061\063\060\061\006\003\125\004\003\023\052\105\156\164
\162\165\163\164\056\156\145\164\040\103\145\162\164\151\146\151
\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171
\040\050\062\060\064\070\051
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\004\070\143\336\370
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Baltimore CyberTrust Root"
#
Issuer: CN=Baltimore CyberTrust Root,OU=CyberTrust,O=Baltimore,C=IE
Serial Number: 33554617 (0x20000b9)
Subject: CN=Baltimore CyberTrust Root,OU=CyberTrust,O=Baltimore,C=IE
Not Valid Before: Fri May 12 18:46:00 2000
Not Valid After : Mon May 12 23:59:00 2025
Fingerprint (SHA-256):
16:AF:57:A9:F6:76:B0:AB:12:60:95:AA:5E:BA:DE:F2:2A:B3:11:19:D6:44:AC:95:CD:4B:93:DB:F3:F2:6A:EB
Fingerprint (SHA1): D4:DE:20:D0:5E:66:FC:53:FE:1A:50:88:2C:78:DB:28:52:CA:E4:74
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN

```

```
CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Baltimore CyberTrust Root"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\132\061\013\060\011\006\003\125\004\006\023\002\111\105\061
\022\060\020\006\003\125\004\012\023\011\102\141\154\164\151\155
\157\162\145\061\023\060\021\006\003\125\004\013\023\012\103\171
\142\145\162\124\162\165\163\164\061\042\060\040\006\003\125\004
\003\023\031\102\141\154\164\151\155\157\162\145\040\103\171\142
\145\162\124\162\165\163\164\040\122\157\157\164
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\132\061\013\060\011\006\003\125\004\006\023\002\111\105\061
\022\060\020\006\003\125\004\012\023\011\102\141\154\164\151\155
\157\162\145\061\023\060\021\006\003\125\004\013\023\012\103\171
\142\145\162\124\162\165\163\164\061\042\060\040\006\003\125\004
\003\023\031\102\141\154\164\151\155\157\162\145\040\103\171\142
\145\162\124\162\165\163\164\040\122\157\157\164
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\004\002\000\000\271
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\167\060\202\002\137\240\003\002\001\002\002\004\002
\000\000\271\060\015\006\011\052\206\110\206\367\015\001\001\005
\005\000\060\132\061\013\060\011\006\003\125\004\006\023\002\111
\105\061\022\060\020\006\003\125\004\012\023\011\102\141\154\164
\151\155\157\162\145\061\023\060\021\006\003\125\004\013\023\012
\103\171\142\145\162\124\162\165\163\164\061\042\060\040\006\003
\125\004\003\023\031\102\141\154\164\151\155\157\162\145\040\103
\171\142\145\162\124\162\165\163\164\040\122\157\157\164\060\036
\027\015\060\060\060\065\061\062\061\070\064\066\060\060\132\027
\015\062\065\060\065\061\062\062\063\065\071\060\060\132\060\132
\061\013\060\011\006\003\125\004\006\023\002\111\105\061\022\060
\020\006\003\125\004\012\023\011\102\141\154\164\151\155\157\162
\145\061\023\060\021\006\003\125\004\013\023\012\103\171\142\145
\162\124\162\165\163\164\061\042\060\040\006\003\125\004\003\023
\031\102\141\154\164\151\155\157\162\145\040\103\171\142\145\162
\124\162\165\163\164\040\122\157\157\164\060\202\001\042\060\015
\006\011\052\206\110\206\367\015\001\001\001\005\000\003\202\001
\017\000\060\202\001\012\002\202\001\001\000\243\004\273\042\253
\230\075\127\350\046\162\232\265\171\324\051\342\341\350\225\200
\261\260\343\133\216\053\051\232\144\337\241\135\355\260\011\005
\155\333\050\056\316\142\242\142\376\264\210\332\022\353\070\353
```



\041\235\300\101\053\001\122\173\210\167\323\034\217\307\272\271  
\210\265\152\011\347\163\350\021\100\247\321\314\312\142\215\055  
\345\217\013\246\120\322\250\120\303\050\352\365\253\045\207\212  
\232\226\034\251\147\270\077\014\325\367\371\122\023\057\302\033  
\325\160\160\360\217\300\022\312\006\313\232\341\331\312\063\172  
\167\326\370\354\271\361\150\104\102\110\023\322\300\302\244\256  
\136\140\376\266\246\005\374\264\335\007\131\002\324\131\030\230  
\143\365\245\143\340\220\014\175\135\262\006\172\363\205\352\353  
\324\003\256\136\204\076\137\377\025\355\151\274\371\071\066\162  
\165\317\167\122\115\363\311\220\054\271\075\345\311\043\123\077  
\037\044\230\041\134\007\231\051\275\306\072\354\347\156\206\072  
\153\227\164\143\063\275\150\030\061\360\170\215\166\277\374\236  
\216\135\052\206\247\115\220\334\047\032\071\002\003\001\000\001  
\243\105\060\103\060\035\006\003\125\035\016\004\026\004\024\345  
\235\131\060\202\107\130\314\254\372\010\124\066\206\173\072\265  
\004\115\360\060\022\006\003\125\035\023\001\001\377\004\010\060  
\006\001\001\377\002\001\003\060\016\006\003\125\035\017\001\001  
\377\004\004\003\002\001\006\060\015\006\011\052\206\110\206\367  
\015\001\001\005\005\000\003\202\001\001\000\205\014\135\216\344  
\157\121\150\102\005\240\335\273\117\047\045\204\003\275\367\144  
\375\055\327\060\343\244\020\027\353\332\051\051\266\171\077\166  
\366\031\023\043\270\020\012\371\130\244\324\141\160\275\004\141  
\152\022\212\027\325\012\275\305\274\060\174\326\351\014\045\215  
\206\100\117\354\314\243\176\070\306\067\021\117\355\335\150\061  
\216\114\322\263\001\164\356\276\165\136\007\110\032\177\160\377  
\026\134\204\300\171\205\270\005\375\177\276\145\021\243\017\300  
\002\264\370\122\067\071\004\325\251\061\172\030\277\240\052\364  
\022\231\367\243\105\202\343\074\136\365\235\236\265\310\236\174  
\056\310\244\236\116\010\024\113\155\375\160\155\153\032\143\275  
\144\346\037\267\316\360\362\237\056\273\033\267\362\120\210\163  
\222\302\342\343\026\215\232\062\002\253\216\030\335\351\020\021  
\356\176\065\253\220\257\076\060\224\172\320\063\075\247\145\017  
\365\374\216\236\142\317\107\104\054\001\135\273\035\265\062\322  
\107\322\070\056\320\376\201\334\062\152\036\265\356\074\325\374  
\347\201\035\031\303\044\102\352\143\071\251

END

CKA\_NSS\_Mozilla\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "Baltimore CyberTrust Root"

# Issuer: CN=Baltimore CyberTrust Root,OU=CyberTrust,O=Baltimore,C=IE

# Serial Number: 33554617

(0x20000b9)

# Subject: CN=Baltimore CyberTrust Root,OU=CyberTrust,O=Baltimore,C=IE

# Not Valid Before: Fri May 12 18:46:00 2000

# Not Valid After : Mon May 12 23:59:00 2025

```

Fingerprint (SHA-256):
16:AF:57:A9:F6:76:B0:AB:12:60:95:AA:5E:BA:DE:F2:2A:B3:11:19:D6:44:AC:95:CD:4B:93:DB:F3:F2:6A:EB
Fingerprint (SHA1): D4:DE:20:D0:5E:66:FC:53:FE:1A:50:88:2C:78:DB:28:52:CA:E4:74
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Baltimore CyberTrust Root"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\324\336\040\320\136\146\374\123\376\032\120\210\054\170\333\050
\122\312\344\164
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\254\266\224\245\234\027\340\327\221\122\233\261\227\006\246\344
END
CKA_ISSUER MULTILINE_OCTAL
\060\132\061\013\060\011\006\003\125\004\006\023\002\111\105\061
\022\060\020\006\003\125\004\012\023\011\102\141\154\164\151\155
\157\162\145\061\023\060\021\006\003\125\004\013\023\012\103\171
\142\145\162\124\162\165\163\164\061\042\060\040\006\003\125\004
\003\023\031\102\141\154\164\151\155\157\162\145\040\103\171\142
\145\162\124\162\165\163\164\040\122\157\157\164
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\004\002\000\000\271
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Entrust Root Certification Authority"
#
Issuer: CN=Entrust Root Certification Authority,OU="(c) 2006 Entrust, Inc.",OU=www.entrust.net/CPS is
incorporated by reference,O="Entrust, Inc.",C=US
Serial Number: 1164660820 (0x456b5054)
Subject: CN=Entrust Root Certification Authority,OU="(c) 2006 Entrust, Inc.",OU=www.entrust.net/CPS is
incorporated by reference,O="Entrust, Inc.",C=US
Not Valid Before: Mon Nov 27 20:23:42 2006
Not Valid After : Fri Nov 27 20:53:42 2026
Fingerprint (SHA-256):
73:C1:76:43:4F:1B:C6:D5:AD:F4:5B:0E:76:E7:27:28:7C:8D:E5:76:16:C1:E6:E6:14:1A:2B:2C:BC:7D:8E:4C
#
Fingerprint (SHA1): B3:1E:B1:B7:40:E3:6C:84:02:DA:DC:37:D4:4D:F5:D4:67:49:52:F9
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE

```

```
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Entrust Root Certification Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\260\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\026\060\024\006\003\125\004\012\023\015\105\156\164\162\165
\163\164\054\040\111\156\143\056\061\071\060\067\006\003\125\004
\013\023\060\167\167\167\056\145\156\164\162\165\163\164\056\156
\145\164\057\103\120\123\040\151\163\040\151\156\143\157\162\160
\157\162\141\164\145\144\040\142\171\040\162\145\146\145\162\145
\156\143\145\061\037\060\035\006\003\125\004\013\023\026\050\143
\051\040\062\060\060\066\040\105\156\164\162\165\163\164\054\040
\111\156\143\056\061\055\060\053\006\003\125\004\003\023\044\105
\156\164\162\165\163\164\040\122\157\157\164\040\103\145\162\164
\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162
\151\164\171
END
CKA_ID
UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\260\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\026\060\024\006\003\125\004\012\023\015\105\156\164\162\165
\163\164\054\040\111\156\143\056\061\071\060\067\006\003\125\004
\013\023\060\167\167\167\056\145\156\164\162\165\163\164\056\156
\145\164\057\103\120\123\040\151\163\040\151\156\143\157\162\160
\157\162\141\164\145\144\040\142\171\040\162\145\146\145\162\145
\156\143\145\061\037\060\035\006\003\125\004\013\023\026\050\143
\051\040\062\060\060\066\040\105\156\164\162\165\163\164\054\040
\111\156\143\056\061\055\060\053\006\003\125\004\003\023\044\105
\156\164\162\165\163\164\040\122\157\157\164\040\103\145\162\164
\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162
\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\105\153\120\124
END
CKA_VALUE
MULTILINE_OCTAL
\060\202\004\221\060\202\003\171\240\003\002\001\002\002\004\105
\153\120\124\060\015\006\011\052\206\110\206\367\015\001\001\005
\005\000\060\201\260\061\013\060\011\006\003\125\004\006\023\002
\125\123\061\026\060\024\006\003\125\004\012\023\015\105\156\164
\162\165\163\164\054\040\111\156\143\056\061\071\060\067\006\003
\125\004\013\023\060\167\167\167\056\145\156\164\162\165\163\164
\056\156\145\164\057\103\120\123\040\151\163\040\151\156\143\157
\162\160\157\162\141\164\145\144\040\142\171\040\162\145\146\145
\162\145\156\143\145\061\037\060\035\006\003\125\004\013\023\026
```

\050\143\051\040\062\060\060\066\040\105\156\164\162\165\163\164  
\054\040\111\156\143\056\061\055\060\053\006\003\125\004\003\023  
\044\105\156\164\162\165\163\164\040\122\157\157\164\040\103\145  
\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150  
\157\162\151\164\171\060\036\027\015\060\066\061\061\062\067\062  
\060\062\063\064\062\132\027\015\062\066\061\061\062\067\062\060  
\065\063\064\062\132\060\201\260\061\013\060\011\006\003\125\004  
\006\023\002\125\123\061\026\060\024\006\003\125\004\012\023\015  
\105\156\164\162\165\163\164\054\040\111\156\143\056\061\071\060  
\067\006\003\125\004\013\023\060\167\167\167\056\145\156\164\162  
\165\163\164\056\156\145\164\057\103\120\123\040\151\163\040\151  
\156\143\157\162\160\157\162\141\164\145\144\040\142\171\040\162  
\145\146\145\162\145\156\143\145\061\037\060\035\006\003\125\004  
\013\023\026\050\143\051\040\062\060\060\066\040\105\156\164\162  
\165\163\164\054\040\111\156\143\056\061\055\060\053\006\003\125  
\004\003\023\044\105\156\164\162\165\163\164\040\122\157\157\164  
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101  
\165\164\150\157\162\151\164\171\060\202\001\042\060\015\006\011  
\052\206\110\206\367\015\001\001\001\005\000\003\202\001\017\000  
\060\202\001\012\002\202\001\001\000\266\225\266\103\102\372\306  
\155\052\157\110\337\224\114\071\127\005\356\303\171\021\101\150  
\066\355\354\376\232\001\217\241\070\050\374\367\020\106\146\056  
\115\036\032\261\032\116\306\321\300\225\210\260\311\377\061\213  
\063\003\333\267\203\173\076\040\204\136\355\262\126\050\247\370  
\340\271\100\161\067\305\313\107\016\227\052\150\300\042\225\142  
\025\333\107\331\365\320\053\377\202\113\311\255\076\336\114\333  
\220\200\120\077\011\212\204\000\354\060\012\075\030\315\373\375  
\052\131\232\043\225\027\054\105\236\037\156\103\171\155\014\134  
\230\376\110\247\305\043\107\134\136\375\156\347\036\264\366\150  
\105\321\206\203\133\242\212\215\261\343\051\200\376\045\161\210  
\255\276\274\217\254\122\226\113\252\121\215\344\023\061\031\350  
\116\115\237\333\254\263\152\325\274\071\124\161\312\172\172\177  
\220\335\175\035\200\331\201\273\131\046\302\021\376\346\223\342  
\367\200\344\145\373\064\067\016\051\200\160\115\257\070\206\056  
\236\177\127\257\236\027\256\353\034\313\050\041\137\266\034\330  
\347\242\004\042\371\323\332\330\313\002\003\001\000\001\243\201  
\260\060\201\255\060\016\006\003\125\035\017\001\001\377\004\004  
\003\002\001\006\060\017\006\003\125\035\023\001\001\377\004\005  
\060\003\001\001\377\060\053\006\003\125\035\020\004\044\060\042  
\200\017\062\060\060\066\061\061\062\067\062\060\062\063\064\062  
\132\201\017\062\060\062\066\061\061\062\067\062\060\065\063\064  
\062\132\060\037\006\003\125\035\043\004\030\060\026\200\024\150  
\220\344\147\244\246\123\200\307\206\146\244\361\367\113\103\373  
\204\275\155\060\035\006\003\125\035\016\004\026\004\024\150\220  
\344\147\244\246\123\200\307\206\146\244\361\367\113\103\373\204  
\275\155\060\035\006\011\052\206\110\206\366\175\007\101\000\004  
\020\060\016\033\010\126\067\056\061\072\064\056\060\003\002\004  
\220\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000

```
\003\202\001\001\000\223\324\060\260\327\003\040\052\320\371\143
\350\221\014\005\040\251\137\031\312\173\162\116\324\261\333\320
\226\373\124\132\031\054\014\010\367\262\274\205\250\235\177\155
\073\122\263\052\333\347\324\204\214\143\366\017\313\046\001\221
\120\154\364\137\024\342\223\164\300\023\236\060\072\120\343\264
\140\305\034\360\042\104\215\161\107\254\310\032\311\351\233\232
\000\140\023\377\160\176\137\021\115\111\033\263\025\122\173\311
\124\332\277\235\225\257\153\232\330\236\351\361\344\103\215\342
\021\104\072\277\257\275\203\102\163\122\213\252\273\247\051\317
\365\144\034\012\115\321\274\252\254\237\052\320\377\177\177\332
\175\352\261\355\060\045\301\204\332\064\322\133\170\203\126\354
\234\066\303\046\342\021\366\147\111\035\222\253\214\373\353\377
\172\356\205\112\247\120\200\360\247\134\112\224\056\137\005\231
\074\122\101\340\315\264\143\317\001\103\272\234\203\334\217\140
\073\363\132\264\264\173\256\332\013\220\070\165\357\201\035\146
\322\367\127\160\066\263\277\374\050\257\161\045\205\133\023\376
\036\177\132\264\074
```

END

CKA\_NSS\_MOZILLA\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "Entrust Root Certification Authority"

# Issuer: CN=Entrust

Root Certification Authority,OU="(c) 2006 Entrust, Inc.",OU=www.entrust.net/CPS is incorporated by reference,O="Entrust, Inc.",C=US

# Serial Number: 1164660820 (0x456b5054)

# Subject: CN=Entrust Root Certification Authority,OU="(c) 2006 Entrust, Inc.",OU=www.entrust.net/CPS is incorporated by reference,O="Entrust, Inc.",C=US

# Not Valid Before: Mon Nov 27 20:23:42 2006

# Not Valid After : Fri Nov 27 20:53:42 2026

# Fingerprint (SHA-256):

73:C1:76:43:4F:1B:C6:D5:AD:F4:5B:0E:76:E7:27:28:7C:8D:E5:76:16:C1:E6:E6:14:1A:2B:2C:BC:7D:8E:4C

# Fingerprint (SHA1): B3:1E:B1:B7:40:E3:6C:84:02:DA:DC:37:D4:4D:F5:D4:67:49:52:F9

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "Entrust Root Certification Authority"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

```
\263\036\261\267\100\343\154\204\002\332\334\067\324\115\365\324
\147\111\122\371
```

END

CKA\_CERT\_MD5\_HASH MULTILINE\_OCTAL

```
\326\245\303\355\135\335\076\000\301\075\207\222\037\035\077\344
```

END

CKA\_ISSUER

MULTILINE\_OCTAL

\060\201\260\061\013\060\011\006\003\125\004\006\023\002\125\123  
\061\026\060\024\006\003\125\004\012\023\015\105\156\164\162\165  
\163\164\054\040\111\156\143\056\061\071\060\067\006\003\125\004  
\013\023\060\167\167\167\056\145\156\164\162\165\163\164\056\156  
\145\164\057\103\120\123\040\151\163\040\151\156\143\157\162\160  
\157\162\141\164\145\144\040\142\171\040\162\145\146\145\162\145  
\156\143\145\061\037\060\035\006\003\125\004\013\023\026\050\143  
\051\040\062\060\060\066\040\105\156\164\162\165\163\164\054\040  
\111\156\143\056\061\055\060\053\006\003\125\004\003\023\044\105  
\156\164\162\165\163\164\040\122\157\157\164\040\103\145\162\164  
\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162  
\151\164\171

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

\002\004\105\153\120\124

END

CKA\_TRUST\_SERVER\_AUTH CK\_TRUST CKT\_NSS\_TRUSTED\_DELEGATOR

CKA\_TRUST\_EMAIL\_PROTECTION CK\_TRUST CKT\_NSS\_MUST\_VERIFY\_TRUST

CKA\_TRUST\_CODE\_SIGNING CK\_TRUST

CKT\_NSS\_MUST\_VERIFY\_TRUST

CKA\_TRUST\_STEP\_UP\_APPROVED CK\_BBOOL CK\_FALSE

#

# Certificate "Certum Root CA"

#

# Issuer: CN=Certum CA,O=Unizeto Sp. z o.o.,C=PL

# Serial Number: 65568 (0x10020)

# Subject: CN=Certum CA,O=Unizeto Sp. z o.o.,C=PL

# Not Valid Before: Tue Jun 11 10:46:39 2002

# Not Valid After : Fri Jun 11 10:46:39 2027

# Fingerprint (SHA-256):

D8:E0:FE:BC:1D:B2:E3:8D:00:94:0F:37:D2:7D:41:34:4D:99:3E:73:4B:99:D5:65:6D:97:78:D4:D8:14:36:24

# Fingerprint (SHA1): 62:52:DC:40:F7:11:43:A2:2F:DE:9E:F7:34:8E:06:42:51:B1:81:18

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_CERTIFICATE

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "Certum Root CA"

CKA\_CERTIFICATE\_TYPE CK\_CERTIFICATE\_TYPE CKC\_X\_509

CKA\_SUBJECT MULTILINE\_OCTAL

\060\076\061\013\060\011\006\003\125\004\006\023\002\120\114\061  
\033\060\031\006\003\125\004\012\023\022\125\156\151\172\145\164  
\157\040\123\160\056\040\172\040\157\056\157\056\061\022\060\020  
\006\003\125\004\003\023\011\103\145\162\164\165\155\040\103\101

END

CKA\_ID

UTF8 "0"

CKA\_ISSUER MULTILINE\_OCTAL

\060\076\061\013\060\011\006\003\125\004\006\023\002\120\114\061  
\033\060\031\006\003\125\004\012\023\022\125\156\151\172\145\164  
\157\040\123\160\056\040\172\040\157\056\157\056\061\022\060\020  
\006\003\125\004\003\023\011\103\145\162\164\165\155\040\103\101

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

\002\003\001\000\040

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\003\014\060\202\001\364\240\003\002\001\002\002\003\001  
\000\040\060\015\006\011\052\206\110\206\367\015\001\001\005\005  
\000\060\076\061\013\060\011\006\003\125\004\006\023\002\120\114  
\061\033\060\031\006\003\125\004\012\023\022\125\156\151\172\145  
\164\157\040\123\160\056\040\172\040\157\056\157\056\061\022\060  
\020\006\003\125\004\003\023\011\103\145\162\164\165\155\040\103  
\101\060\036\027\015\060\062\060\066\061\061\061\060\064\066\063  
\071\132\027\015\062\067\060\066\061\061\061\060\064\066\063\071  
\132\060\076\061\013\060\011\006\003\125\004\006\023\002\120\114  
\061\033\060\031\006\003\125\004\012\023\022\125\156\151\172\145  
\164\157\040\123\160\056\040\172\040\157\056\157\056\061\022\060  
\020\006\003\125\004\003\023\011\103\145\162\164\165\155\040\103  
\101\060\202\001\042\060\015\006\011\052\206\110\206\367\015\001  
\001\001\005\000\003\202\001\017\000\060\202\001\012\002\202\001  
\001\000\316\261\301\056\323\117\174\315\045\316\030\076\117\304  
\214\157\200\152\163\310\133\121\370\233\322\334\273\000\134\261  
\240\374\165\003\356\201\360\210\356\043\122\351\346\025\063\215  
\254\055\011\305\166\371\053\071\200\211\344\227\113\220\245\250  
\170\370\163\103\173\244\141\260\330\130\314\341\154\146\176\234  
\363\011\136\125\143\204\325\250\357\363\261\056\060\150\263\304  
\074\330\254\156\215\231\132\220\116\064\334\066\232\217\201\210  
\120\267\155\226\102\011\363\327\225\203\015\101\113\260\152\153  
\370\374\017\176\142\237\147\304\355\046\137\020\046\017\010\117  
\360\244\127\050\316\217\270\355\105\366\156\356\045\135\252\156  
\071\276\344\223\057\331\107\240\162\353\372\246\133\257\312\123  
\077\342\016\306\226\126\021\156\367\351\146\251\046\330\177\225  
\123\355\012\205\210\272\117\051\245\102\214\136\266\374\205\040  
\000\252\150\013\241\032\205\001\234\304\106\143\202\210\266\042  
\261\356\376\252\106\131\176\317\065\054\325\266\332\135\367\110  
\063\024\124\266\353\331\157\316\315\210\326\253\033\332\226\073  
\035\131\002\003\001\000\001\243\023\060\021\060\017\006\003\125  
\035\023\001\001\377\004\005\060\003\001\001\377\060\015\006\011  
\052\206\110\206\367\015\001\001\005\005\000\003\202\001\001\000  
\270\215\316\357\347\024\272\317\356\260\104\222\154\264\071\076  
\242\204\156\255\270\041\167\322\324\167\202\207\346\040\101\201  
\356\342\370\021\267\143\321\027\067\276\031\166\044\034\004\032  
\114\353\075\252\147\157\055\324\315\376\145\061\160\305\033\246

```
\002\012\272\140\173\155\130\302\232\111\376\143\062\013\153\343
\072\300\254\253\073\260\350\323\011\121\214\020\203\306\064\340
\305\053\340\032\266\140\024\047\154\062\167\214\274\262\162\230
\317\315\314\077\271\310\044\102\024\326\127\374\346\046\103\251
\035\345\200\220\316\003\124\050\076\367\077\323\370\115\355\152
\012\072\223\023\233\073\024\043\023\143\234\077\321\207\047\171
\345\114\121\343\001\255\205\135\032\073\261\325\163\020\244\323
\362\274\156\144\365\132\126\220\250\307\016\114\164\017\056\161
\073\367\310\107\364\151\157\025\362\021\136\203\036\234\174\122
\256\375\002\332\022\250\131\147\030\333\274\160\335\233\261\151
\355\200\316\211\100\110\152\016\065\312\051\146\025\041\224\054
\350\140\052\233\205\112\100\363\153\212\044\354\006\026\054\163
END
```

```
CKA_NSS_MOZILLA_CA_POLICY
```

```
CK_BBOOL CK_TRUE
```

```
CKA_NSS_SERVER_DISTRICT_AFTER CK_BBOOL CK_FALSE
```

```
CKA_NSS_EMAIL_DISTRICT_AFTER CK_BBOOL CK_FALSE
```

```
Trust for "Certum Root CA"
```

```
Issuer: CN=Certum CA,O=Unizeto Sp. z o.o.,C=PL
```

```
Serial Number: 65568 (0x10020)
```

```
Subject: CN=Certum CA,O=Unizeto Sp. z o.o.,C=PL
```

```
Not Valid Before: Tue Jun 11 10:46:39 2002
```

```
Not Valid After : Fri Jun 11
```

```
10:46:39 2027
```

```
Fingerprint (SHA-256):
```

```
D8:E0:FE:BC:1D:B2:E3:8D:00:94:0F:37:D2:7D:41:34:4D:99:3E:73:4B:99:D5:65:6D:97:78:D4:D8:14:36:24
```

```
Fingerprint (SHA1): 62:52:DC:40:F7:11:43:A2:2F:DE:9E:F7:34:8E:06:42:51:B1:81:18
```

```
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
```

```
CKA_TOKEN CK_BBOOL CK_TRUE
```

```
CKA_PRIVATE CK_BBOOL CK_FALSE
```

```
CKA_MODIFIABLE CK_BBOOL CK_FALSE
```

```
CKA_LABEL UTF8 "Certum Root CA"
```

```
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
```

```
\142\122\334\100\367\021\103\242\057\336\236\367\064\216\006\102
```

```
\121\261\201\030
```

```
END
```

```
CKA_CERT_MD5_HASH MULTILINE_OCTAL
```

```
\054\217\237\146\035\030\220\261\107\046\235\216\206\202\214\251
```

```
END
```

```
CKA_ISSUER MULTILINE_OCTAL
```

```
\060\076\061\013\060\011\006\003\125\004\006\023\002\120\114\061
```

```
\033\060\031\006\003\125\004\012\023\022\125\156\151\172\145\164
```

```
\157\040\123\160\056\040\172\040\157\056\157\056\061\022\060\020
```

```
\006\003\125\004\003\023\011\103\145\162\164\165\155\040\103\101
```

```
END
```

```
CKA_SERIAL_NUMBER MULTILINE_OCTAL
```

```
\002\003\001\000\040
```



```

END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION
CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Comodo AAA Services root"
#
Issuer: CN=AAA Certificate Services,O=Comodo CA Limited,L=Salford,ST=Greater Manchester,C=GB
Serial Number: 1 (0x1)
Subject: CN=AAA Certificate Services,O=Comodo CA Limited,L=Salford,ST=Greater Manchester,C=GB
Not Valid Before: Thu Jan 01 00:00:00 2004
Not Valid After : Sun Dec 31 23:59:59 2028
Fingerprint (SHA-256):
D7:A7:A0:FB:5D:7E:27:31:D7:71:E9:48:4E:BC:DE:F7:1D:5F:0C:3E:0A:29:48:78:2B:C8:3E:E0:EA:69:9E:F4
Fingerprint (SHA1): D1:EB:23:A4:6D:17:D6:8F:D9:25:64:C2:F1:F1:60:17:64:D8:E3:49
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Comodo AAA Services root"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\173\061\013\060\011\006\003\125\004\006\023\002\107\102\061
\033\060\031\006\003\125\004\010\014\022\107\162\145\141\164\145
\162\040\115\141\156\143\150\145\163\164\145\162\061\020\060\016
\006\003\125\004\007\014\007\123\141\154\146\157\162\144\061\032
\060\030\006\003\125\004\012\014\021\103\157\155\157\144\157\040
\103\101\040\114\151\155\151\164\145\144\061\041\060\037\006\003
\125\004\003\014\030\101\101\101\040\103\145\162\164\151\146\151
\143\141\164\145\040\123\145\162\166\151\143\145\163
END
CKA_ID
UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\173\061\013\060\011\006\003\125\004\006\023\002\107\102\061
\033\060\031\006\003\125\004\010\014\022\107\162\145\141\164\145
\162\040\115\141\156\143\150\145\163\164\145\162\061\020\060\016
\006\003\125\004\007\014\007\123\141\154\146\157\162\144\061\032
\060\030\006\003\125\004\012\014\021\103\157\155\157\144\157\040
\103\101\040\114\151\155\151\164\145\144\061\041\060\037\006\003
\125\004\003\014\030\101\101\101\040\103\145\162\164\151\146\151
\143\141\164\145\040\123\145\162\166\151\143\145\163
END
CKA_SERIAL_NUMBER

```

MULTILINE\_OCTAL

\002\001\001

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\004\062\060\202\003\032\240\003\002\001\002\002\001\001  
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060  
\173\061\013\060\011\006\003\125\004\006\023\002\107\102\061\033  
\060\031\006\003\125\004\010\014\022\107\162\145\141\164\145\162  
\040\115\141\156\143\150\145\163\164\145\162\061\020\060\016\006  
\003\125\004\007\014\007\123\141\154\146\157\162\144\061\032\060  
\030\006\003\125\004\012\014\021\103\157\155\157\144\157\040\103  
\101\040\114\151\155\151\164\145\144\061\041\060\037\006\003\125  
\004\003\014\030\101\101\101\040\103\145\162\164\151\146\151\143  
\141\164\145\040\123\145\162\166\151\143\145\163\060\036\027\015  
\060\064\060\061\060\061\060\060\060\060\060\132\027\015\062  
\070\061\062\063\061\062\063\065\071\065\071\132\060\173\061\013  
\060\011\006\003\125\004\006\023\002\107\102\061\033\060\031\006  
\003\125\004\010\014\022\107\162\145\141\164\145\162\040\115\141  
\156\143\150\145\163\164\145\162\061\020\060\016\006\003\125\004  
\007\014\007\123\141\154\146\157\162\144\061\032\060\030\006\003  
\125\004\012\014\021\103\157\155\157\144\157\040\103\101\040\114  
\151\155\151\164\145\144\061\041\060\037\006\003\125\004\003\014  
\030\101\101\101\040\103\145\162\164\151\146\151\143\141\164\145  
\040\123\145\162\166\151\143\145\163\060\202\001\042\060\015\006  
\011\052\206\110\206\367\015\001\001\001\005\000\003\202\001\017  
\000\060\202\001\012\002\202\001\001\000\276\100\235\364\156\341  
\352\166\207\034\115\105\104\216\276\106\310\203\006\235\301\052  
\376\030\037\216\344\002\372\363\253\135\120\212\026\061\013\232  
\006\320\305\160\042\315\111\055\124\143\314\266\156\150\106\013  
\123\352\313\114\044\300\274\162\116\352\361\025\256\364\124\232  
\022\012\303\172\262\063\140\342\332\211\125\363\042\130\363\336  
\334\317\357\203\206\242\214\224\117\237\150\362\230\220\106\204  
\047\307\166\277\343\314\065\054\213\136\007\144\145\202\300\110  
\260\250\221\371\141\237\166\040\120\250\221\307\146\265\353\170  
\142\003\126\360\212\032\023\352\061\243\036\240\231\375\070\366  
\366\047\062\130\157\007\365\153\270\373\024\053\257\267\252\314  
\326\143\137\163\214\332\005\231\250\070\250\313\027\170\066\121  
\254\351\236\364\170\072\215\317\017\331\102\342\230\014\253\057  
\237\016\001\336\357\237\231\111\361\055\337\254\164\115\033\230  
\265\107\305\345\051\321\371\220\030\307\142\234\276\203\307\046  
\173\076\212\045\307\300\335\235\346\065\150\020\040\235\217\330  
\336\322\303\204\234\015\136\350\057\311\002\003\001\000\001\243  
\201\300\060\201\275\060\035\006\003\125\035\016\004\026\004\024  
\240\021\012\043\076\226\361\007\354\342\257\051\357\202\245\177  
\320\060\244\264\060\016\006\003\125\035\017\001\001\377\004\004  
\003\002\001\006\060\017\006\003\125\035\023\001\001\377\004\005  
\060\003\001\001\377\060\173\006\003\125\035\037\004\164\060\162  
\060\070\240\066\240\064\206\062\150\164\164\160\072\057\057\143

```
\162\154\056\143\157\155\157\144\157\143\141\056\143\157\155\057
\101\101\101\103\145\162\164\151\146\151\143\141\164\145\123\145
\162\166\151\143\145\163\056\143\162\154\060\066\240\064\240\062
\206\060\150\164\164\160\072\057\057\143\162\154\056\143\157\155
\157\144\157\056\156\145\164\057\101\101\101\103\145\162\164\151
\146\151\143\141\164\145\123\145\162\166\151\143\145\163\056\143
\162\154\060\015\006\011\052\206\110\206\367\015\001\001\005\005
\000\003\202\001\001\000\010\126\374\002\360\233\350\377\244\372
\326\173\306\104\200\316\117\304\305\366\000\130\314\246\266\274
\024\111\150\004\166\350\346\356\135\354\002\017\140\326\215\120
\030\117\046\116\001\343\346\260\245\356\277\274\164\124\101\277
\375\374\022\270\307\117\132\364\211\140\005\177\140\267\005\112
\363\366\361\302\277\304\271\164\206\266\055\175\153\314\322\363
\106\335\057\306\340\152\303\303\064\003\054\175\226\335\132\302
\016\247\012\231\301\005\213\253\014\057\363\134\072\317\154\067
\125\011\207\336\123\100\154\130\357\374\266\253\145\156\004\366
\033\334\074\340\132\025\306\236\331\361\131\110\060\041\145\003
\154\354\351\041\163\354\233\003\241\340\067\255\240\025\030\217
\372\272\002\316\247\054\251\020\023\054\324\345\010\046\253\042
\227\140\370\220\136\164\324\242\232\123\275\362\251\150\340\242
\156\302\327\154\261\243\017\236\277\353\150\347\126\362\256\362
\343\053\070\072\011\201\265\153\205\327\276\055\355\077\032\267
\262\143\342\365\142\054\202\324\152\000\101\120\361\071\203\237
\225\351\066\226\230\156
```

END

CKA\_NSS\_Mozilla\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "Comodo AAA Services root"

# Issuer: CN=AAA Certificate Services,O=Comodo CA Limited,L=Salford,ST=Greater Manchester,C=GB

# Serial Number: 1 (0x1)

# Subject: CN=AAA Certificate Services,O=Comodo CA Limited,L=Salford,ST=Greater Manchester,C=GB

# Not Valid Before: Thu Jan 01 00:00:00 2004

# Not Valid After : Sun Dec 31 23:59:59 2028

# Fingerprint

(SHA-256):

D7:A7:A0:FB:5D:7E:27:31:D7:71:E9:48:4E:BC:DE:F7:1D:5F:0C:3E:0A:29:48:78:2B:C8:3E:E0:EA:69:9E:F4

# Fingerprint (SHA1): D1:EB:23:A4:6D:17:D6:8F:D9:25:64:C2:F1:F1:60:17:64:D8:E3:49

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "Comodo AAA Services root"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

```
\321\353\043\244\155\027\326\217\331\045\144\302\361\361\140\027
```

```
\144\330\343\111
```

```

END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\111\171\004\260\353\207\031\254\107\260\274\021\121\233\164\320
END
CKA_ISSUER MULTILINE_OCTAL
\060\173\061\013\060\011\006\003\125\004\006\023\002\107\102\061
\033\060\031\006\003\125\004\010\014\022\107\162\145\141\164\145
\162\040\115\141\156\143\150\145\163\164\145\162\061\020\060\016
\006\003\125\004\007\014\007\123\141\154\146\157\162\144\061\032
\060\030\006\003\125\004\012\014\021\103\157\155\157\144\157\040
\103\101\040\114\151\155\151\164\145\144\061\041\060\037\006\003
\125\004\003\014\030\101\101\101\040\103\145\162\164\151\146\151
\143\141\164\145\040\123\145\162\166\151\143\145\163
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\001\001
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "QuoVadis Root CA 2"
#
Issuer: CN=QuoVadis Root CA 2,O=QuoVadis Limited,C=BM
Serial Number: 1289 (0x509)
Subject: CN=QuoVadis Root CA 2,O=QuoVadis Limited,C=BM
Not Valid Before: Fri Nov 24 18:27:00 2006
Not Valid After : Mon Nov 24 18:23:33 2031
Fingerprint (SHA-256):
85:A0:DD:7D:D7:20:AD:B7:FF:05:F8:3D:54:2B:20:9D:C7:FF:45:28:F7:D6:77:B1:83:89:FE:A5:E5:C4:9E:86
Fingerprint (SHA1): CA:3A:FB:CF:12:40:36:4B:44:B2:16:20:88:80:48:39:19:93:7C:F7
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL
CK_FALSE
CKA_LABEL UTF8 "QuoVadis Root CA 2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\105\061\013\060\011\006\003\125\004\006\023\002\102\115\061
\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144
\151\163\040\114\151\155\151\164\145\144\061\033\060\031\006\003
\125\004\003\023\022\121\165\157\126\141\144\151\163\040\122\157
\157\164\040\103\101\040\062
END

```

CKA\_ID UTF8 "0"

CKA\_ISSUER MULTILINE\_OCTAL

\060\105\061\013\060\011\006\003\125\004\006\023\002\102\115\061  
\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144  
\151\163\040\114\151\155\151\164\145\144\061\033\060\031\006\003  
\125\004\003\023\022\121\165\157\126\141\144\151\163\040\122\157  
\157\164\040\103\101\040\062

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

\002\002\005\011

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\005\267\060\202\003\237\240\003\002\001\002\002\002\005  
\011\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000  
\060\105\061\013\060\011\006\003\125\004\006\023\002\102\115\061  
\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144  
\151\163\040\114\151\155\151\164\145\144\061\033\060\031\006\003  
\125\004\003\023\022\121\165\157\126\141\144\151\163\040\122\157  
\157\164\040\103\101\040\062\060\036\027\015\060\066\061\061\062  
\064\061\070\062\067\060\060\132\027\015\063\061\061\061\062\064  
\061\070\062\063\063\063\132\060\105\061\013\060\011\006\003\125  
\004\006\023\002\102\115\061\031\060\027\006\003\125\004\012\023  
\020\121\165\157\126\141\144\151\163\040\114\151\155\151\164\145  
\144\061\033\060\031\006\003\125\004\003\023\022\121\165\157\126  
\141\144\151\163\040\122\157\157\164\040\103\101\040\062\060\202  
\002\042\060\015\006\011\052\206\110\206\367\015\001\001\001\005  
\000\003\202\002\017\000\060\202\002\012\002\202\002\001\000\232  
\030\312\113\224\015\000\055\257\003\051\212\360\017\201\310\256  
\114\031\205\035\010\237\253\051\104\205\363\057\201\255\062\036  
\220\106\277\243\206\046\032\036\376\176\034\030\072\134\234\140  
\027\052\072\164\203\063\060\175\141\124\021\313\355\253\340\346  
\322\242\176\365\153\157\030\267\012\013\055\375\351\076\357\012  
\306\263\020\351\334\302\106\027\370\135\375\244\332\377\236\111  
\132\234\346\063\346\044\226\367\077\272\133\053\034\172\065\302  
\326\147\376\253\146\120\213\155\050\140\053\357\327\140\303\307  
\223\274\215\066\221\363\177\370\333\021\023\304\234\167\166\301  
\256\267\002\152\201\172\251\105\203\342\005\346\271\126\301\224  
\067\217\110\161\143\042\354\027\145\007\225\212\113\337\217\306  
\132\012\345\260\343\137\136\153\021\253\014\371\205\353\104\351  
\370\004\163\362\351\376\134\230\214\365\163\257\153\264\176\315  
\324\134\002\053\114\071\341\262\225\225\055\102\207\327\325\263  
\220\103\267\154\023\361\336\335\366\304\370\211\077\321\165\365  
\222\303\221\325\212\210\320\220\354\334\155\336\211\302\145\161  
\226\213\015\003\375\234\277\133\026\254\222\333\352\376\171\174  
\255\353\257\367\026\313\333\315\045\053\345\037\373\232\237\342  
\121\314\072\123\014\110\346\016\275\311\264\166\006\122\346\021  
\023\205\162\143\003\004\340\004\066\053\040\031\002\350\164\247  
\037\266\311\126\146\360\165\045\334\147\301\016\141\140\210\263

\076\321\250\374\243\332\035\260\321\261\043\124\337\104\166\155  
\355\101\330\301\262\042\266\123\034\337\065\035\334\241\167\052  
\061\344\055\365\345\345\333\310\340\377\345\200\327\013\143\240  
\377\063\241\017\272\054\025\025\352\227\263\322\242\265\276\362  
\214\226\036\032\217\035\154\244\141\067\271\206\163\063\327\227  
\226\236\043\175\202\244\114\201\342\241\321\272\147\137\225\007  
\243\047\021\356\026\020\173\274\105\112\114\262\004\322\253\357  
\325\375\014\121\316\120\152\010\061\371\221\332\014\217\144\134  
\003\303\072\213\040\077\156\215\147\075\072\326\376\175\133\210  
\311\136\373\314\141\334\213\063\167\323\104\062\065\011\142\004  
\222\026\020\330\236\047\107\373\073\041\343\370\353\035\133\002  
\003\001\000\001\243\201\260\060\201\255\060\017\006\003\125\035  
\023\001\001\377\004\005\060\003\001\001\377\060\013\006\003\125  
\035\017\004\004\003\002\001\006\060\035\006\003\125\035\016\004  
\026\004\024\032\204\142\274\110\114\063\045\004\324\356\320\366  
\003\304\031\106\321\224\153\060\156\006\003\125\035\043\004\147  
\060\145\200\024\032\204\142\274\110\114\063\045\004\324\356\320  
\366\003\304\031\106\321\224\153\241\111\244\107\060\105\061\013  
\060\011\006\003\125\004\006\023\002\102\115\061\031\060\027\006  
\003\125\004\012\023\020\121\165\157\126\141\144\151\163\040\114  
\151\155\151\164\145\144\061\033\060\031\006\003\125\004\003\023  
\022\121\165\157\126\141\144\151\163\040\122\157\157\164\040\103  
\101\040\062\202\002\005\011\060\015\006\011\052\206\110\206\367  
\015\001\001\005\005\000\003\202\002\001\000\076\012\026\115\237  
\006\133\250\256\161\135\057\005\057\147\346\023\105\203\304\066  
\366\363\300\046\014\015\265\107\144\135\370\264\162\311\106\245  
\003\030\047\125\211\170\175\166\352\226\064\200\027\040\334\347  
\203\370\215\374\007\270\332\137\115\056\147\262\204\375\331\104  
\374\167\120\201\346\174\264\311\015\013\162\123\370\166\007\007  
\101\107\226\014\373\340\202\046\223\125\214\376\042\037\140\145  
\174\137\347\046\263\367\062\220\230\120\324\067\161\125\366\222  
\041\170\367\225\171\372\370\055\046\207\146\126\060\167\246\067  
\170\063\122\020\130\256\077\141\216\362\152\261\357\030\176\112  
\131\143\312\215\242\126\325\247\057\274\126\037\317\071\301\342  
\373\012\250\025\054\175\115\172\143\306\154\227\104\074\322\157  
\303\112\027\012\370\220\322\127\242\031\121\245\055\227\101\332  
\007\117\251\120\332\220\215\224\106\341\076\360\224\375\020\000  
\070\365\073\350\100\341\264\156\126\032\040\314\157\130\215\355  
\056\105\217\326\351\223\077\347\261\054\337\072\326\042\214\334  
\204\273\042\157\320\370\344\306\071\351\004\210\074\303\272\353  
\125\172\155\200\231\044\365\154\001\373\370\227\260\224\133\353  
\375\322\157\361\167\150\015\065\144\043\254\270\125\241\003\321  
\115\102\031\334\370\165\131\126\243\371\250\111\171\370\257\016  
\271\021\240\174\267\152\355\064\320\266\046\142\070\032\207\014  
\370\350\375\056\323\220\177\007\221\052\035\326\176\134\205\203  
\231\260\070\010\077\351\136\371\065\007\344\311\142\156\127\177  
\247\120\225\367\272\310\233\346\216\242\001\305\326\146\277\171  
\141\363\074\034\341\271\202\134\135\240\303\351\330\110\275\031

```
\242\021\024\031\156\262\206\033\150\076\110\067\032\210\267\135
\226\136\234\307\357\047\142\010\342\221\031\134\322\361\041\335
\272\027\102\202\227\161\201\123\061\251\237\366\175\142\277\162
\341\243\223\035\314\212\046\132\011\070\320\316\327\015\200\026
\264\170\245\072\207\114\215\212\245\325\106\227\362\054\020\271
\274\124\042\300\001\120\151\103\236\364\262\357\155\370\354\332
\361\343\261\357\337\221\217\124\052\013\045\301\046\031\304\122
\020\005\145\325\202\020\352\302\061\315\056
```

END

CKA\_NSS\_Mozilla\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "QuoVadis Root CA 2"

# Issuer: CN=QuoVadis Root

CA 2,O=QuoVadis Limited,C=BM

# Serial Number: 1289 (0x509)

# Subject: CN=QuoVadis Root CA 2,O=QuoVadis Limited,C=BM

# Not Valid Before: Fri Nov 24 18:27:00 2006

# Not Valid After : Mon Nov 24 18:23:33 2031

# Fingerprint (SHA-256):

85:A0:DD:7D:D7:20:AD:B7:FF:05:F8:3D:54:2B:20:9D:C7:FF:45:28:F7:D6:77:B1:83:89:FE:A5:E5:C4:9E:86

# Fingerprint (SHA1): CA:3A:FB:CF:12:40:36:4B:44:B2:16:20:88:80:48:39:19:93:7C:F7

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "QuoVadis Root CA 2"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

```
\312\072\373\317\022\100\066\113\104\262\026\040\210\200\110\071
\031\223\174\367
```

END

CKA\_CERT\_MD5\_HASH MULTILINE\_OCTAL

```
\136\071\173\335\370\272\354\202\351\254\142\272\014\124\000\053
```

END

CKA\_ISSUER MULTILINE\_OCTAL

```
\060\105\061\013\060\011\006\003\125\004\006\023\002\102\115\061
\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144
\151\163\040\114\151\155\151\164\145\144\061\033\060\031\006\003
\125\004\003\023\022\121\165\157\126\141\144\151\163\040\122\157
\157\164\040\103\101\040\062
```

END

CKA\_SERIAL\_NUMBER

MULTILINE\_OCTAL

```
\002\002\005\011
```

END

CKA\_TRUST\_SERVER\_AUTH CK\_TRUST CKT\_NSS\_TRUSTED\_DELEGATOR

CKA\_TRUST\_EMAIL\_PROTECTION CK\_TRUST CKT\_NSS\_TRUSTED\_DELEGATOR  
CKA\_TRUST\_CODE\_SIGNING CK\_TRUST CKT\_NSS\_MUST\_VERIFY\_TRUST  
CKA\_TRUST\_STEP\_UP\_APPROVED CK\_BBOOL CK\_FALSE

#

# Certificate "QuoVadis Root CA 3"

#

# Issuer: CN=QuoVadis Root CA 3,O=QuoVadis Limited,C=BM

# Serial Number: 1478 (0x5c6)

# Subject: CN=QuoVadis Root CA 3,O=QuoVadis Limited,C=BM

# Not Valid Before: Fri Nov 24 19:11:23 2006

# Not Valid After : Mon Nov 24 19:06:44 2031

# Fingerprint (SHA-256):

18:F1:FC:7F:20:5D:F8:AD:DD:EB:7F:E0:07:DD:57:E3:AF:37:5A:9C:4D:8D:73:54:6B:F4:F1:FE:D1:E1:8D:35

# Fingerprint (SHA1): 1F:49:14:F7:D8:74:95:1D:DD:AE:02:C0:BE:FD:3A:2D:82:75:51:85

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_CERTIFICATE

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL

UTF8 "QuoVadis Root CA 3"

CKA\_CERTIFICATE\_TYPE CK\_CERTIFICATE\_TYPE CKC\_X\_509

CKA\_SUBJECT MULTILINE\_OCTAL

\060\105\061\013\060\011\006\003\125\004\006\023\002\102\115\061  
\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144  
\151\163\040\114\151\155\151\164\145\144\061\033\060\031\006\003  
\125\004\003\023\022\121\165\157\126\141\144\151\163\040\122\157  
\157\164\040\103\101\040\063

END

CKA\_ID UTF8 "0"

CKA\_ISSUER MULTILINE\_OCTAL

\060\105\061\013\060\011\006\003\125\004\006\023\002\102\115\061  
\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144  
\151\163\040\114\151\155\151\164\145\144\061\033\060\031\006\003  
\125\004\003\023\022\121\165\157\126\141\144\151\163\040\122\157  
\157\164\040\103\101\040\063

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

\002\002\005\306

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\006\235\060\202\004\205\240\003\002\001\002\002\002\005  
\306\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000  
\060\105\061\013\060\011\006\003\125\004\006\023\002\102\115\061  
\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144  
\151\163\040\114\151\155\151\164\145\144\061\033\060\031\006\003  
\125\004\003\023\022\121\165\157\126\141\144\151\163\040\122\157  
\157\164\040\103\101\040\063\060\036\027\015\060\066\061\061\062



\064\061\071\061\061\062\063\132\027\015\063\061\061\061\062\064  
\061\071\060\066\064\064\132\060\105\061\013\060\011\006\003\125  
\004\006\023\002\102\115\061\031\060\027\006\003\125\004\012\023  
\020\121\165\157\126\141\144\151\163\040\114\151\155\151\164\145  
\144\061\033\060\031\006\003\125\004\003\023\022\121\165\157\126  
\141\144\151\163\040\122\157\157\164\040\103\101\040\063\060\202  
\002\042\060\015\006\011\052\206\110\206\367\015\001\001\001\005  
\000\003\202\002\017\000\060\202\002\012\002\202\002\001\000\314  
\127\102\026\124\234\346\230\323\323\115\356\376\355\307\237\103  
\071\112\145\263\350\026\210\064\333\015\131\221\164\317\222\270  
\004\100\255\002\113\061\253\274\215\221\150\330\040\016\032\001  
\342\032\173\116\027\135\342\212\267\077\231\032\315\353\141\253  
\302\145\246\037\267\267\275\267\217\374\375\160\217\013\240\147  
\276\001\242\131\317\161\346\017\051\166\377\261\126\171\105\053  
\037\236\172\124\350\243\051\065\150\244\001\117\017\244\056\067  
\357\033\277\343\217\020\250\162\253\130\127\347\124\206\310\311  
\363\133\332\054\332\135\216\156\074\243\076\332\373\202\345\335  
\362\134\262\005\063\157\212\066\316\320\023\116\377\277\112\014  
\064\114\246\303\041\275\120\004\125\353\261\273\235\373\105\036  
\144\025\336\125\001\214\002\166\265\313\241\077\102\151\274\057  
\275\150\103\026\126\211\052\067\141\221\375\246\256\116\300\313  
\024\145\224\067\113\222\006\357\004\320\310\234\210\333\013\173  
\201\257\261\075\052\304\145\072\170\266\356\334\200\261\322\323  
\231\234\072\356\153\132\153\263\215\267\325\316\234\302\276\245  
\113\057\026\261\236\150\073\006\157\256\175\237\370\336\354\314  
\051\247\230\243\045\103\057\357\361\137\046\341\210\115\370\136  
\156\327\331\024\156\031\063\151\247\073\204\211\223\304\123\125  
\023\241\121\170\100\370\270\311\242\356\173\272\122\102\203\236  
\024\355\005\122\132\131\126\247\227\374\235\077\012\051\330\334  
\117\221\016\023\274\336\225\244\337\213\231\276\254\233\063\210  
\357\265\201\257\033\306\042\123\310\366\307\356\227\024\260\305  
\174\170\122\310\360\316\156\167\140\204\246\351\052\166\040\355  
\130\001\027\060\223\351\032\213\340\163\143\331\152\222\224\111  
\116\264\255\112\205\304\243\042\060\374\011\355\150\042\163\246  
\210\014\125\041\130\305\341\072\237\052\335\312\341\220\340\331  
\163\253\154\200\270\350\013\144\223\240\234\214\031\377\263\322  
\014\354\221\046\207\212\263\242\341\160\217\054\012\345\315\155  
\150\121\353\332\077\005\177\213\062\346\023\134\153\376\137\100  
\342\042\310\264\264\144\117\326\272\175\110\076\250\151\014\327  
\273\206\161\311\163\270\077\073\235\045\113\332\377\100\353\002  
\003\001\000\001\243\202\001\225\060\202\001\221\060\017\006\003  
\125\035\023\001\001\377\004\005\060\003\001\001\377\060\201\341  
\006\003\125\035\040\004\201\331\060\201\326\060\201\323\006\011  
\053\006\001\004\001\276\130\000\003\060\201\305\060\201\223\006  
\010\053\006\001\005\005\007\002\002\060\201\206\032\201\203\101  
\156\171\040\165\163\145\040\157\146\040\164\150\151\163\040\103  
\145\162\164\151\146\151\143\141\164\145\040\143\157\156\163\164  
\151\164\165\164\145\163\040\141\143\143\145\160\164\141\156\143

\145\040\157\146\040\164\150\145\040\121\165\157\126\141\144\151  
\163\040\122\157\157\164\040\103\101\040\063\040\103\145\162\164  
\151\146\151\143\141\164\145\040\120\157\154\151\143\171\040\057  
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\120  
\162\141\143\164\151\143\145\040\123\164\141\164\145\155\145\156  
\164\056\060\055\006\010\053\006\001\005\005\007\002\001\026\041  
\150\164\164\160\072\057\057\167\167\167\056\161\165\157\166\141  
\144\151\163\147\154\157\142\141\154\056\143\157\155\057\143\160  
\163\060\013\006\003\125\035\017\004\004\003\002\001\006\060\035  
\006\003\125\035\016\004\026\004\024\362\300\023\340\202\103\076  
\373\356\057\147\062\226\065\134\333\270\313\002\320\060\156\006  
\003\125\035\043\004\147\060\145\200\024\362\300\023\340\202\103  
\076\373\356\057\147\062\226\065\134\333\270\313\002\320\241\111  
\244\107\060\105\061\013\060\011\006\003\125\004\006\023\002\102  
\115\061\031\060\027\006\003\125\004\012\023\020\121\165\157\126  
\141\144\151\163\040\114\151\155\151\164\145\144\061\033\060\031  
\006\003\125\004\003\023\022\121\165\157\126\141\144\151\163\040  
\122\157\157\164\040\103\101\040\063\202\002\005\306\060\015\006  
\011\052\206\110\206\367\015\001\001\005\005\000\003\202\002\001  
\000\117\255\240\054\114\372\300\362\157\367\146\125\253\043\064  
\356\347\051\332\303\133\266\260\203\331\320\320\342\041\373\363  
\140\247\073\135\140\123\047\242\233\366\010\042\052\347\277\240  
\162\345\234\044\152\061\261\220\172\047\333\204\021\211\047\246  
\167\132\070\327\277\254\206\374\356\135\203\274\006\306\321\167  
\153\017\155\044\057\113\172\154\247\007\226\312\343\204\237\255  
\210\213\035\253\026\215\133\146\027\331\026\364\213\200\322\335  
\370\262\166\303\374\070\023\252\014\336\102\151\053\156\363\074  
\353\200\047\333\365\246\104\015\237\132\125\131\013\325\015\122  
\110\305\256\237\362\057\200\305\352\062\120\065\022\227\056\301  
\341\377\361\043\210\121\070\237\362\146\126\166\347\017\121\227  
\245\122\014\115\111\121\225\066\075\277\242\113\014\020\035\206  
\231\114\252\363\162\021\223\344\352\366\233\332\250\135\247\115  
\267\236\002\256\163\000\310\332\043\003\350\371\352\031\164\142  
\000\224\313\042\040\276\224\247\131\265\202\152\276\231\171\172  
\251\362\112\044\122\367\164\375\272\116\346\250\035\002\156\261  
\015\200\104\301\256\323\043\067\137\273\205\174\053\222\056\350  
\176\245\213\335\231\341\277\047\157\055\135\252\173\207\376\012  
\335\113\374\216\365\046\344\156\160\102\156\063\354\061\236\173  
\223\301\344\311\151\032\075\300\153\116\042\155\356\253\130\115  
\306\320\101\301\053\352\117\022\207\136\353\105\330\154\365\230  
\002\323\240\330\125\212\006\231\031\242\240\167\321\060\236\254  
\314\165\356\203\365\260\142\071\317\154\127\342\114\322\221\013  
\016\165\050\033\232\277\375\032\103\361\312\167\373\073\217\141  
\270\151\050\026\102\004\136\160\052\034\041\330\217\341\275\043  
\133\055\164\100\222\331\143\031\015\163\335\151\274\142\107\274  
\340\164\053\262\353\175\276\101\033\265\300\106\305\241\042\313  
\137\116\301\050\222\336\030\272\325\052\050\273\021\213\027\223  
\230\231\140\224\134\043\317\132\047\227\136\013\005\006\223\067

```

\036\073\151\066\353\251\236\141\035\217\062\332\216\014\326\164
\076\173\011\044\332\001\167\107\304\073\315\064\214\231\365\312
\341\045\141\063\262\131\033\342\156\327\067\127\266\015\251\022
\332
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRICT_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRICT_AFTER CK_BBOOL CK_FALSE

Trust for "QuoVadis Root CA 3"
Issuer: CN=QuoVadis Root CA 3,O=QuoVadis Limited,C=BM
Serial Number: 1478 (0x5c6)
Subject:
 CN=QuoVadis Root CA 3,O=QuoVadis Limited,C=BM
Not Valid Before: Fri Nov 24 19:11:23 2006
Not Valid After : Mon Nov 24 19:06:44 2031
Fingerprint (SHA-256):
18:F1:FC:7F:20:5D:F8:AD:DD:EB:7F:E0:07:DD:57:E3:AF:37:5A:9C:4D:8D:73:54:6B:F4:F1:FE:D1:E1:8D:35
Fingerprint (SHA1): 1F:49:14:F7:D8:74:95:1D:DD:AE:02:C0:BE:FD:3A:2D:82:75:51:85
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "QuoVadis Root CA 3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\037\111\024\367\330\164\225\035\335\256\002\300\276\375\072\055
\202\165\121\205
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\061\205\074\142\224\227\143\271\252\375\211\116\257\157\340\317
END
CKA_ISSUER MULTILINE_OCTAL
\060\105\061\013\060\011\006\003\125\004\006\023\002\102\115\061
\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144
\151\163\040\114\151\155\151\164\145\144\061\033\060\031\006\003
\125\004\003\023\022\121\165\157\126\141\144\151\163\040\122\157
\157\164\040\103\101\040\063
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\002\005\306
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

```

```
#
Certificate "Security Communication Root CA"
#
Issuer: OU=Security Communication RootCA1,O=SECOM Trust.net,C=JP
Serial Number: 0 (0x0)
Subject: OU=Security Communication RootCA1,O=SECOM Trust.net,C=JP
Not Valid Before: Tue Sep 30 04:20:49 2003
Not Valid After : Sat Sep 30 04:20:49 2023
Fingerprint (SHA-256):
E7:5E:72:ED:9F:56:0E:EC:6E:B4:80:00:73:A4:3F:C3:AD:19:19:5A:39:22:82:01:78:95:97:4A:99:02:6B:6C
Fingerprint (SHA1): 36:B1:2B:49:F9:81:9E:D7:4C:9E:BC:38:0F:C6:56:8F:5D:AC:B2:F7
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Security Communication
Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\120\061\013\060\011\006\003\125\004\006\023\002\112\120\061
\030\060\026\006\003\125\004\012\023\017\123\105\103\117\115\040
\124\162\165\163\164\056\156\145\164\061\047\060\045\006\003\125
\004\013\023\036\123\145\143\165\162\151\164\171\040\103\157\155
\155\165\156\151\143\141\164\151\157\156\040\122\157\157\164\103
\101\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\120\061\013\060\011\006\003\125\004\006\023\002\112\120\061
\030\060\026\006\003\125\004\012\023\017\123\105\103\117\115\040
\124\162\165\163\164\056\156\145\164\061\047\060\045\006\003\125
\004\013\023\036\123\145\143\165\162\151\164\171\040\103\157\155
\155\165\156\151\143\141\164\151\157\156\040\122\157\157\164\103
\101\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\132\060\202\002\102\240\003\002\001\002\002\001\000
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060
\120\061\013\060\011\006\003\125\004\006\023\002\112\120\061\030
\060\026\006\003\125\004\012\023\017\123\105\103\117\115\040\124
\162\165\163\164\056\156\145\164\061\047\060\045\006\003\125\004
\013\023\036\123\145\143\165\162\151\164\171\040\103\157\155\155
\165\156\151\143\141\164\151\157\156\040\122\157\157\164\103\101
\061\060\036\027\015\060\063\060\071\063\060\060\064\062\060\064
\071\132\027\015\062\063\060\071\063\060\060\064\062\060\064\071
```

\132\060\120\061\013\060\011\006\003\125\004\006\023\002\112\120  
\061\030\060\026\006\003\125\004\012\023\017\123\105\103\117\115  
\040\124\162\165\163\164\056\156\145\164\061\047\060\045\006\003  
\125\004\013\023\036\123\145\143\165\162\151\164\171\040\103\157  
\155\155\165\156\151\143\141\164\151\157\156\040\122\157\157\164  
\103\101\061\060\202\001\042\060\015\006\011\052\206\110\206\367  
\015\001\001\001\005\000\003\202\001\017\000\060\202\001\012\002  
\202\001\001\000\263\263\376\177\323\155\261\357\026\174\127\245  
\014\155\166\212\057\113\277\144\373\114\356\212\360\363\051\174  
\365\377\356\052\340\351\351\272\133\144\042\232\232\157\054\072  
\046\151\121\005\231\046\334\325\034\152\161\306\232\175\036\235  
\335\174\154\306\214\147\147\112\076\370\161\260\031\047\251\011  
\014\246\225\277\113\214\014\372\125\230\073\330\350\042\241\113  
\161\070\171\254\227\222\151\263\211\176\352\041\150\006\230\024  
\226\207\322\141\066\274\155\047\126\236\127\356\300\300\126\375  
\062\317\244\331\216\302\043\327\215\250\363\330\045\254\227\344  
\160\070\364\266\072\264\235\073\227\046\103\243\241\274\111\131  
\162\114\043\060\207\001\130\366\116\276\034\150\126\146\257\315  
\101\135\310\263\115\052\125\106\253\037\332\036\342\100\075\333  
\315\175\271\222\200\234\067\335\014\226\144\235\334\042\367\144  
\213\337\141\336\025\224\122\025\240\175\122\311\113\250\041\311  
\306\261\355\313\303\225\140\321\017\360\253\160\370\337\313\115  
\176\354\326\372\253\331\275\177\124\362\245\351\171\372\331\326  
\166\044\050\163\002\003\001\000\001\243\077\060\075\060\035\006  
\003\125\035\016\004\026\004\024\240\163\111\231\150\334\205\133  
\145\343\233\050\057\127\237\275\063\274\007\110\060\013\006\003  
\125\035\017\004\004\003\002\001\006\060\017\006\003\125\035\023  
\001\001\377\004\005\060\003\001\001\377\060\015\006\011\052\206  
\110\206\367\015\001\001\005\005\000\003\202\001\001\000\150\100  
\251\250\273\344\117\135\171\263\005\265\027\263\140\023\353\306  
\222\135\340\321\323\152\376\373\276\233\155\277\307\005\155\131  
\040\304\034\360\267\332\204\130\002\143\372\110\026\357\117\245  
\013\367\112\230\362\077\236\033\255\107\153\143\316\010\107\353  
\122\077\170\234\257\115\256\370\325\117\317\232\230\052\020\101  
\071\122\304\335\331\233\016\357\223\001\256\262\056\312\150\102  
\044\102\154\260\263\072\076\315\351\332\110\304\025\313\351\371  
\007\017\222\120\111\212\335\061\227\137\311\351\067\252\073\131  
\145\227\224\062\311\263\237\076\072\142\130\305\111\255\142\016  
\161\245\062\252\057\306\211\166\103\100\023\023\147\075\242\124  
\045\020\313\361\072\362\331\372\333\111\126\273\246\376\247\101  
\065\303\340\210\141\311\210\307\337\066\020\042\230\131\352\260  
\112\373\126\026\163\156\254\115\367\042\241\117\255\035\172\055  
\105\047\345\060\301\136\362\332\023\313\045\102\121\225\107\003  
\214\154\041\314\164\102\355\123\377\063\213\217\017\127\001\026  
\057\317\246\356\311\160\042\024\275\375\276\154\013\003

END

CKA\_NSS\_MOZILLA\_CA\_POLICY

```

CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "Security Communication Root CA"
Issuer: OU=Security Communication RootCA1,O=SECOM Trust.net,C=JP
Serial Number: 0 (0x0)
Subject: OU=Security Communication RootCA1,O=SECOM Trust.net,C=JP
Not Valid Before: Tue Sep 30 04:20:49 2003
Not Valid After : Sat Sep 30 04:20:49 2023
Fingerprint (SHA-256):
E7:5E:72:ED:9F:56:0E:EC:6E:B4:80:00:73:A4:3F:C3:AD:19:19:5A:39:22:82:01:78:95:97:4A:99:02:6B:6C
Fingerprint (SHA1): 36:B1:2B:49:F9:81:9E:D7:4C:9E:BC:38:0F:C6:56:8F:5D:AC:B2:F7
CKA_CLASS
CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Security Communication Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\066\261\053\111\371\201\236\327\114\236\274\070\017\306\126\217
\135\254\262\367
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\361\274\143\152\124\340\265\047\365\315\347\032\343\115\156\112
END
CKA_ISSUER MULTILINE_OCTAL
\060\120\061\013\060\011\006\003\125\004\006\023\002\112\120\061
\030\060\026\006\003\125\004\012\023\017\123\105\103\117\115\040
\124\162\165\163\164\056\156\145\164\061\047\060\045\006\003\125
\004\013\023\036\123\145\143\165\162\151\164\171\040\103\157\155
\155\165\156\151\143\141\164\151\157\156\040\122\157\157\164\103
\101\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED
CK_BBOOL CK_FALSE

#
Certificate "Camerfirma Chambers of Commerce Root"
#
Issuer: CN=Chambers of Commerce Root,OU=http://www.chambersign.org,O=AC Camerfirma SA CIF
A82743287,C=EU

```

```
Serial Number: 0 (0x0)
Subject: CN=Chambers of Commerce Root,OU=http://www.chambersign.org,O=AC Camerfirma SA CIF
A82743287,C=EU
Not Valid Before: Tue Sep 30 16:13:43 2003
Not Valid After : Wed Sep 30 16:13:44 2037
Fingerprint (SHA-256):
0C:25:8A:12:A5:67:4A:EF:25:F2:8B:A7:DC:FA:EC:EE:A3:48:E5:41:E6:F5:CC:4E:E6:3B:71:B3:61:60:6A:C3
Fingerprint (SHA1): 6E:3A:55:A4:19:0C:19:5C:93:84:3C:C0:DB:72:2E:31:30:61:F0:B1
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Camerfirma Chambers of Commerce Root"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\177\061\013\060\011\006\003\125\004\006\023\002\105\125\061
\047\060\045\006\003\125\004\012\023\036\101\103\040\103\141\155
\145\162\146\151\162\155\141\040\123\101\040\103\111\106\040\101
\070\062\067\064\063\062\070\067\061\043\060\041\006\003\125\004
\013\023\032\150\164\164\160\072\057\057\167\167\167\056\143\150
\141\155\142\145\162\163\151\147\156\056\157\162\147\061\042\060
\040\006\003\125\004\003\023\031\103\150\141\155\142\145\162\163
\040\157\146\040\103\157\155\155\145\162\143\145\040\122\157\157
\164
END
CKA_ID
UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\177\061\013\060\011\006\003\125\004\006\023\002\105\125\061
\047\060\045\006\003\125\004\012\023\036\101\103\040\103\141\155
\145\162\146\151\162\155\141\040\123\101\040\103\111\106\040\101
\070\062\067\064\063\062\070\067\061\043\060\041\006\003\125\004
\013\023\032\150\164\164\160\072\057\057\167\167\167\056\143\150
\141\155\142\145\162\163\151\147\156\056\157\162\147\061\042\060
\040\006\003\125\004\003\023\031\103\150\141\155\142\145\162\163
\040\157\146\040\103\157\155\155\145\162\143\145\040\122\157\157
\164
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\001\000
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\275\060\202\003\245\240\003\002\001\002\002\001\000
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060
\177\061\013\060\011\006\003\125\004\006\023\002\105\125\061\047
\060\045\006\003\125\004\012\023\036\101\103\040\103\141\155\145
\162\146\151\162\155\141\040\123\101\040\103\111\106\040\101\070
```

\062\067\064\063\062\070\067\061\043\060\041\006\003\125\004\013  
\023\032\150\164\164\160\072\057\057\167\167\167\056\143\150\141  
\155\142\145\162\163\151\147\156\056\157\162\147\061\042\060\040  
\006\003\125\004\003\023\031\103\150\141\155\142\145\162\163\040  
\157\146\040\103\157\155\155\145\162\143\145\040\122\157\157\164  
\060\036\027\015\060\063\060\071\063\060\061\066\061\063\064\063  
\132\027\015\063\067\060\071\063\060\061\066\061\063\064\064\132  
\060\177\061\013\060\011\006\003\125\004\006\023\002\105\125\061  
\047\060\045\006\003\125\004\012\023\036\101\103\040\103\141\155  
\145\162\146\151\162\155\141\040\123\101\040\103\111\106\040\101  
\070\062\067\064\063\062\070\067\061\043\060\041\006\003\125\004  
\013\023\032\150\164\164\160\072\057\057\167\167\167\056\143\150  
\141\155\142\145\162\163\151\147\156\056\157\162\147\061\042\060  
\040\006\003\125\004\003\023\031\103\150\141\155\142\145\162\163  
\040\157\146\040\103\157\155\155\145\162\143\145\040\122\157\157  
\164\060\202\001\040\060\015\006\011\052\206\110\206\367\015\001  
\001\001\005\000\003\202\001\015\000\060\202\001\010\002\202\001  
\001\000\267\066\125\345\245\135\030\060\340\332\211\124\221\374  
\310\307\122\370\057\120\331\357\261\165\163\145\107\175\033\133  
\272\165\305\374\241\210\044\372\057\355\312\010\112\071\124\304  
\121\172\265\332\140\352\070\074\201\262\313\361\273\331\221\043  
\077\110\001\160\165\251\005\052\255\037\161\363\311\124\075\035  
\006\152\100\076\263\014\205\356\134\033\171\302\142\304\270\066  
\216\065\135\001\014\043\004\107\065\252\233\140\116\240\146\075  
\313\046\012\234\100\241\364\135\230\277\161\253\245\000\150\052  
\355\203\172\017\242\024\265\324\042\263\200\260\074\014\132\121  
\151\055\130\030\217\355\231\236\361\256\342\225\346\366\107\250  
\326\014\017\260\130\130\333\303\146\067\236\233\221\124\063\067  
\322\224\034\152\110\311\311\362\245\332\245\014\043\367\043\016  
\234\062\125\136\161\234\204\005\121\232\055\375\346\116\052\064  
\132\336\312\100\067\147\014\124\041\125\167\332\012\014\314\227  
\256\200\334\224\066\112\364\076\316\066\023\036\123\344\254\116  
\072\005\354\333\256\162\234\070\213\320\071\073\211\012\076\167  
\376\165\002\001\003\243\202\001\104\060\202\001\100\060\022\006  
\003\125\035\023\001\001\377\004\010\060\006\001\001\377\002\001  
\014\060\074\006\003\125\035\037\004\065\060\063\060\061\240\057  
\240\055\206\053\150\164\164\160\072\057\057\143\162\154\056\143  
\150\141\155\142\145\162\163\151\147\156\056\157\162\147\057\143  
\150\141\155\142\145\162\163\162\157\157\164\056\143\162\154\060  
\035\006\003\125\035\016\004\026\004\024\343\224\365\261\115\351  
\333\241\051\133\127\213\115\166\006\166\341\321\242\212\060\016  
\006\003\125\035\017\001\001\377\004\004\003\002\001\006\060\021  
\006\011\140\206\110\001\206\370\102\001\001\004\004\003\002\000  
\007\060\047\006\003\125\035\021\004\040\060\036\201\034\143\150  
\141\155\142\145\162\163\162\157\157\164\100\143\150\141\155\142  
\145\162\163\151\147\156\056\157\162\147\060\047\006\003\125\035  
\022\004\040\060\036\201\034\143\150\141\155\142\145\162\163\162  
\157\157\164\100\143\150\141\155\142\145\162\163\151\147\156\056



\157\162\147\060\130\006\003\125\035\040\004\121\060\117\060\115  
\006\013\053\006\001\004\001\201\207\056\012\003\001\060\076\060  
\074\006\010\053\006\001\005\005\007\002\001\026\060\150\164\164  
\160\072\057\057\143\160\163\056\143\150\141\155\142\145\162\163  
\151\147\156\056\157\162\147\057\143\160\163\057\143\150\141\155  
\142\145\162\163\162\157\157\164\056\150\164\155\154\060\015\006  
\011\052\206\110\206\367\015\001\001\005\005\000\003\202\001\001  
\000\014\101\227\302\032\206\300\042\174\237\373\220\363\032\321  
\003\261\357\023\371\041\137\004\234\332\311\245\215\047\154\226  
\207\221\276\101\220\001\162\223\347\036\175\137\366\211\306\135  
\247\100\011\075\254\111\105\105\334\056\215\060\150\262\011\272  
\373\303\057\314\272\013\337\077\167\173\106\175\072\022\044\216  
\226\217\074\005\012\157\322\224\050\035\155\014\300\056\210\042  
\325\330\317\035\023\307\360\110\327\327\005\247\317\307\107\236  
\073\074\064\310\200\117\324\024\273\374\015\120\367\372\263\354  
\102\137\251\335\155\310\364\165\317\173\301\162\046\261\001\034  
\134\054\375\172\116\264\001\305\005\127\271\347\074\252\005\331  
\210\351\007\106\101\316\357\101\201\256\130\337\203\242\256\312  
\327\167\037\347\000\074\235\157\216\344\062\011\035\115\170\064  
\170\064\074\224\233\046\355\117\161\306\031\172\275\040\042\110  
\132\376\113\175\003\267\347\130\276\306\062\116\164\036\150\335  
\250\150\133\263\076\356\142\175\331\200\350\012\165\172\267\356  
\264\145\232\041\220\340\252\320\230\274\070\265\163\074\213\370  
\334

END

CKA\_NSS\_MOZILLA\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# For Email Distrust After: Mon Mar 01 00:00:00 2021

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER MULTILINE\_OCTAL

\062\061\060\063\060\061\060\060\060\060\060\060\132

END

# Trust for "Camerfirma Chambers of Commerce Root"

# Issuer: CN=Chambers of Commerce Root,OU=http://www.chambersign.org,O=AC Camerfirma SA CIF  
A82743287,C=EU

# Serial Number: 0 (0x0)

# Subject: CN=Chambers of Commerce Root,OU=http://www.chambersign.org,O=AC Camerfirma SA CIF  
A82743287,C=EU

# Not Valid Before: Tue Sep 30 16:13:43 2003

# Not Valid After : Wed Sep 30 16:13:44 2037

# Fingerprint (SHA-256):

0C:25:8A:12:A5:67:4A:EF:25:F2:8B:A7:DC:FA:EC:EE:A3:48:E5:41:E6:F5:CC:4E:E6:3B:71:B3:61:60:6A:C3

# Fingerprint (SHA1): 6E:3A:55:A4:19:0C:19:5C:93:84:3C:C0:DB:72:2E:31:30:61:F0:B1

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL

```
CK_FALSE
CKA_LABEL UTF8 "Camerfirma Chambers of Commerce Root"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\156\072\125\244\031\014\031\134\223\204\074\300\333\162\056\061
\060\141\360\261
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\260\001\356\024\331\257\051\030\224\166\216\361\151\063\052\204
END
CKA_ISSUER MULTILINE_OCTAL
\060\177\061\013\060\011\006\003\125\004\006\023\002\105\125\061
\047\060\045\006\003\125\004\012\023\036\101\103\040\103\141\155
\145\162\146\151\162\155\141\040\123\101\040\103\111\106\040\101
\070\062\067\064\063\062\070\067\061\043\060\041\006\003\125\004
\013\023\032\150\164\164\160\072\057\057\167\167\167\056\143\150
\141\155\142\145\162\163\151\147\156\056\157\162\147\061\042\060
\040\006\003\125\004\003\023\031\103\150\141\155\142\145\162\163
\040\157\146\040\103\157\155\155\145\162\143\145\040\122\157\157
\164
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING
CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Camerfirma Global Chambersign Root"
#
Issuer: CN=Global Chambersign Root,OU=http://www.chambersign.org,O=AC Camerfirma SA CIF
A82743287,C=EU
Serial Number: 0 (0x0)
Subject: CN=Global Chambersign Root,OU=http://www.chambersign.org,O=AC Camerfirma SA CIF
A82743287,C=EU
Not Valid Before: Tue Sep 30 16:14:18 2003
Not Valid After : Wed Sep 30 16:14:18 2037
Fingerprint (SHA-256):
EF:3C:B4:17:FC:8E:BF:6F:97:87:6C:9E:4E:CE:39:DE:1E:A5:FE:64:91:41:D1:02:8B:7D:11:C0:B2:29:8C:ED
Fingerprint (SHA1): 33:9B:6B:14:50:24:9B:55:7A:01:87:72:84:D9:E0:2F:C3:D2:D8:E9
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Camerfirma Global Chambersign Root"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
```

CKA\_SUBJECT MULTILINE\_OCTAL

\060\175\061\013\060\011\006\003\125\004\006\023\002\105\125\061  
\047\060\045\006\003\125\004\012\023\036\101\103\040\103\141\155  
\145\162\146\151\162\155\141\040\123\101\040\103\111\106\040\101  
\070\062\067\064\063\062\070\067\061\043\060\041\006\003\125\004  
\013\023\032\150\164\164\160\072\057\057\167\167\167\056\143\150  
\141\155\142\145\162\163\151\147\156\056\157\162\147\061\040\060  
\036\006\003\125\004\003\023\027\107\154\157\142\141\154\040\103  
\150\141\155\142\145\162\163\151\147\156\040\122\157\157\164

END

CKA\_ID

UTF8 "0"

CKA\_ISSUER MULTILINE\_OCTAL

\060\175\061\013\060\011\006\003\125\004\006\023\002\105\125\061  
\047\060\045\006\003\125\004\012\023\036\101\103\040\103\141\155  
\145\162\146\151\162\155\141\040\123\101\040\103\111\106\040\101  
\070\062\067\064\063\062\070\067\061\043\060\041\006\003\125\004  
\013\023\032\150\164\164\160\072\057\057\167\167\167\056\143\150  
\141\155\142\145\162\163\151\147\156\056\157\162\147\061\040\060  
\036\006\003\125\004\003\023\027\107\154\157\142\141\154\040\103  
\150\141\155\142\145\162\163\151\147\156\040\122\157\157\164

END

CKA\_SERIAL\_NUMBER

MULTILINE\_OCTAL

\002\001\000

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\004\305\060\202\003\255\240\003\002\001\002\002\001\000  
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060  
\175\061\013\060\011\006\003\125\004\006\023\002\105\125\061\047  
\060\045\006\003\125\004\012\023\036\101\103\040\103\141\155\145  
\162\146\151\162\155\141\040\123\101\040\103\111\106\040\101\070  
\062\067\064\063\062\070\067\061\043\060\041\006\003\125\004\013  
\023\032\150\164\164\160\072\057\057\167\167\167\056\143\150\141  
\155\142\145\162\163\151\147\156\056\157\162\147\061\040\060\036  
\006\003\125\004\003\023\027\107\154\157\142\141\154\040\103\150  
\141\155\142\145\162\163\151\147\156\040\122\157\157\164\060\036  
\027\015\060\063\060\071\063\060\061\066\061\064\061\070\132\027  
\015\063\067\060\071\063\060\061\066\061\064\061\070\132\060\175  
\061\013\060\011\006\003\125\004\006\023\002\105\125\061\047\060  
\045\006\003\125\004\012\023\036\101\103\040\103\141\155\145\162  
\146\151\162\155\141\040\123\101\040\103\111\106\040\101\070\062  
\067\064\063\062\070\067\061\043\060\041\006\003\125\004\013\023  
\032\150\164\164\160\072\057\057\167\167\167\056\143\150\141\155  
\142\145\162\163\151\147\156\056\157\162\147\061\040\060\036\006  
\003\125\004\003\023\027\107\154\157\142\141\154\040\103\150\141  
\155\142\145\162\163\151\147\156\040\122\157\157\164\060\202\001  
\040\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000

\003\202\001\015\000\060\202\001\010\002\202\001\001\000\242\160  
\242\320\237\102\256\133\027\307\330\175\317\024\203\374\117\311  
\241\267\023\257\212\327\236\076\004\012\222\213\140\126\372\264  
\062\057\210\115\241\140\010\364\267\011\116\240\111\057\111\326  
\323\337\235\227\132\237\224\004\160\354\077\131\331\267\314\146  
\213\230\122\050\011\002\337\305\057\204\215\172\227\167\277\354  
\100\235\045\162\253\265\077\062\230\373\267\267\374\162\204\345  
\065\207\371\125\372\243\037\016\157\056\050\335\151\240\331\102  
\020\306\370\265\104\302\320\103\177\333\274\344\242\074\152\125  
\170\012\167\251\330\352\031\062\267\057\376\134\077\033\356\261  
\230\354\312\255\172\151\105\343\226\017\125\366\346\355\165\352  
\145\350\062\126\223\106\211\250\045\212\145\006\356\153\277\171  
\007\320\361\267\257\355\054\115\222\273\300\250\137\247\147\175  
\004\362\025\010\160\254\222\326\175\004\322\063\373\114\266\013  
\013\373\032\311\304\215\003\251\176\134\362\120\253\022\245\241  
\317\110\120\245\357\322\310\032\023\372\260\177\261\202\034\167  
\152\017\137\334\013\225\217\357\103\176\346\105\011\045\002\001  
\003\243\202\001\120\060\202\001\114\060\022\006\003\125\035\023  
\001\001\377\004\010\060\006\001\001\377\002\001\014\060\077\006  
\003\125\035\037\004\070\060\066\060\064\240\062\240\060\206\056  
\150\164\164\160\072\057\057\143\162\154\056\143\150\141\155\142  
\145\162\163\151\147\156\056\157\162\147\057\143\150\141\155\142  
\145\162\163\151\147\156\162\157\157\164\056\143\162\154\060\035  
\006\003\125\035\016\004\026\004\024\103\234\066\237\260\236\060  
\115\306\316\137\255\020\253\345\003\245\372\251\024\060\016\006  
\003\125\035\017\001\001\377\004\004\003\002\001\006\060\021\006  
\011\140\206\110\001\206\370\102\001\001\004\004\003\002\000\007  
\060\052\006\003\125\035\021\004\043\060\041\201\037\143\150\141  
\155\142\145\162\163\151\147\156\162\157\157\164\100\143\150\141  
\155\142\145\162\163\151\147\156\056\157\162\147\060\052\006\003  
\125\035\022\004\043\060\041\201\037\143\150\141\155\142\145\162  
\163\151\147\156\162\157\157\164\100\143\150\141\155\142\145\162  
\163\151\147\156\056\157\162\147\060\133\006\003\125\035\040\004  
\124\060\122\060\120\006\013\053\006\001\004\001\201\207\056\012  
\001\001\060\101\060\077\006\010\053\006\001\005\005\007\002\001  
\026\063\150\164\164\160\072\057\057\143\160\163\056\143\150\141  
\155\142\145\162\163\151\147\156\056\157\162\147\057\143\160\163  
\057\143\150\141\155\142\145\162\163\151\147\156\162\157\157\164  
\056\150\164\155\154\060\015\006\011\052\206\110\206\367\015\001  
\001\005\005\000\003\202\001\001\000\074\073\160\221\371\004\124  
\047\221\341\355\355\376\150\177\141\135\345\101\145\117\062\361  
\030\005\224\152\034\336\037\160\333\076\173\062\002\064\265\014  
\154\241\212\174\245\364\217\377\324\330\255\027\325\055\004\321  
\077\130\200\342\201\131\210\276\300\343\106\223\044\376\220\275  
\046\242\060\055\350\227\046\127\065\211\164\226\030\366\025\342  
\257\044\031\126\002\002\262\272\017\024\352\306\212\146\301\206  
\105\125\213\276\222\276\234\244\004\307\111\074\236\350\051\172  
\211\327\376\257\377\150\365\245\027\220\275\254\231\314\245\206

```
\127\011\147\106\333\326\026\302\106\361\344\251\120\365\217\321
\222\025\323\137\076\306\000\111\072\156\130\262\321\321\047\015
\045\310\062\370\040\021\315\175\062\063\110\224\124\114\335\334
\171\304\060\237\353\216\270\125\265\327\210\134\305\152\044\075
\262\323\005\003\121\306\007\357\314\024\162\164\075\156\162\316
\030\050\214\112\240\167\345\011\053\105\104\107\254\267\147\177
\001\212\005\132\223\276\241\301\377\370\347\016\147\244\107\111
\166\135\165\220\032\365\046\217\360
```

END

CKA\_NSS\_MOZILLA\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# For Email Distrust After: Mon Mar 01 00:00:00 2021

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER MULTILINE\_OCTAL

\062\061\060\063\060\061\060\060\060\060\060\060\132

END

# Trust for "Camerfirma Global Chambersign Root"

# Issuer: CN=Global Chambersign Root,OU=http://www.chambersign.org,O=AC Camerfirma SA CIF  
A82743287,C=EU

# Serial Number: 0 (0x0)

# Subject: CN=Global Chambersign Root,OU=http://www.chambersign.org,O=AC Camerfirma SA CIF  
A82743287,C=EU

# Not Valid Before: Tue Sep 30 16:14:18 2003

# Not Valid After : Wed Sep 30 16:14:18 2037

# Fingerprint (SHA-256):

EF:3C:B4:17:FC:8E:BF:6F:97:87:6C:9E:4E:CE:39:DE:1E:A5:FE:64:91:41:D1:02:8B:7D:11:C0:B2:29:8C:ED

# Fingerprint (SHA1): 33:9B:6B:14:50:24:9B:55:7A:01:87:72:84:D9:E0:2F:C3:D2:D8:E9

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE

CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "Camerfirma Global Chambersign Root"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

\063\233\153\024\120\044\233\125\172\001\207\162\204\331\340\057  
\303\322\330\351

END

CKA\_CERT\_MD5\_HASH MULTILINE\_OCTAL

\305\346\173\277\006\320\117\103\355\304\172\145\212\373\153\031

END

CKA\_ISSUER MULTILINE\_OCTAL

\060\175\061\013\060\011\006\003\125\004\006\023\002\105\125\061  
\047\060\045\006\003\125\004\012\023\036\101\103\040\103\141\155  
\145\162\146\151\162\155\141\040\123\101\040\103\111\106\040\101  
\070\062\067\064\063\062\070\067\061\043\060\041\006\003\125\004  
\013\023\032\150\164\164\160\072\057\057\167\167\167\056\143\150  
\141\155\142\145\162\163\151\147\156\056\157\162\147\061\040\060

```

\036\006\003\125\004\003\023\027\107\154\157\142\141\154\040\103
\150\141\155\142\145\162\163\151\147\156\040\122\157\157\164
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION
CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "XRamp Global CA Root"
#
Issuer: CN=XRamp Global Certification Authority,O=XRamp Security Services
Inc,OU=www.xrampsecurity.com,C=US
Serial Number:50:94:6c:ec:18:ea:d5:9c:4d:d5:97:ef:75:8f:a0:ad
Subject: CN=XRamp Global Certification Authority,O=XRamp Security Services
Inc,OU=www.xrampsecurity.com,C=US
Not Valid Before: Mon Nov 01 17:14:04 2004
Not Valid After : Mon Jan 01 05:37:19 2035
Fingerprint (SHA-256):
CE:CD:DC:90:50:99:D8:DA:DF:C5:B1:D2:09:B7:37:CB:E2:C1:8C:FB:2C:10:C0:FF:0B:CF:0D:32:86:FC:1A:A2
Fingerprint (SHA1): B8:01:86:D1:EB:9C:86:A5:41:04:CF:30:54:F3:4C:52:B7:E5:58:C6
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "XRamp Global CA Root"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT
MULTILINE_OCTAL
\060\201\202\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\036\060\034\006\003\125\004\013\023\025\167\167\167\056\170
\162\141\155\160\163\145\143\165\162\151\164\171\056\143\157\155
\061\044\060\042\006\003\125\004\012\023\033\130\122\141\155\160
\040\123\145\143\165\162\151\164\171\040\123\145\162\166\151\143
\145\163\040\111\156\143\061\055\060\053\006\003\125\004\003\023
\044\130\122\141\155\160\040\107\154\157\142\141\154\040\103\145
\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150
\157\162\151\164\171
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\202\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\036\060\034\006\003\125\004\013\023\025\167\167\167\056\170
\162\141\155\160\163\145\143\165\162\151\164\171\056\143\157\155

```

\061\044\060\042\006\003\125\004\012\023\033\130\122\141\155\160  
\040\123\145\143\165\162\151\164\171\040\123\145\162\166\151\143  
\145\163\040\111\156\143\061\055\060\053\006\003\125\004\003\023  
\044\130\122\141\155\160\040\107\154\157\142\141\154\040\103\145  
\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150  
\157\162\151\164\171

END

CKA\_SERIAL\_NUMBER

MULTILINE\_OCTAL

\002\020\120\224\154\354\030\352\325\234\115\325\227\357\165\217  
\240\255

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\004\060\060\202\003\030\240\003\002\001\002\002\020\120  
\224\154\354\030\352\325\234\115\325\227\357\165\217\240\255\060  
\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060\201  
\202\061\013\060\011\006\003\125\004\006\023\002\125\123\061\036  
\060\034\006\003\125\004\013\023\025\167\167\167\056\170\162\141  
\155\160\163\145\143\165\162\151\164\171\056\143\157\155\061\044  
\060\042\006\003\125\004\012\023\033\130\122\141\155\160\040\123  
\145\143\165\162\151\164\171\040\123\145\162\166\151\143\145\163  
\040\111\156\143\061\055\060\053\006\003\125\004\003\023\044\130  
\122\141\155\160\040\107\154\157\142\141\154\040\103\145\162\164  
\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162  
\151\164\171\060\036\027\015\060\064\061\061\060\061\061\067\061  
\064\060\064\132\027\015\063\065\060\061\060\061\060\065\063\067  
\061\071\132\060\201\202\061\013\060\011\006\003\125\004\006\023  
\002\125\123\061\036\060\034\006\003\125\004\013\023\025\167\167  
\167\056\170\162\141\155\160\163\145\143\165\162\151\164\171\056  
\143\157\155\061\044\060\042\006\003\125\004\012\023\033\130\122  
\141\155\160\040\123\145\143\165\162\151\164\171\040\123\145\162  
\166\151\143\145\163\040\111\156\143\061\055\060\053\006\003\125  
\004\003\023\044\130\122\141\155\160\040\107\154\157\142\141\154  
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101  
\165\164\150\157\162\151\164\171\060\202\001\042\060\015\006\011  
\052\206\110\206\367\015\001\001\001\005\000\003\202\001\017\000  
\060\202\001\012\002\202\001\001\000\230\044\036\275\025\264\272  
\337\307\214\245\047\266\070\013\151\363\266\116\250\054\056\041  
\035\134\104\337\041\135\176\043\164\376\136\176\264\112\267\246  
\255\037\256\340\006\026\342\233\133\331\147\164\153\135\200\217  
\051\235\206\033\331\234\015\230\155\166\020\050\130\344\145\260  
\177\112\230\171\237\340\303\061\176\200\053\265\214\300\100\073  
\021\206\320\313\242\206\066\140\244\325\060\202\155\331\156\320  
\017\022\004\063\227\137\117\141\132\360\344\371\221\253\347\035  
\073\274\350\317\364\153\055\064\174\342\110\141\034\216\363\141  
\104\314\157\240\112\251\224\260\115\332\347\251\064\172\162\070  
\250\101\314\074\224\021\175\353\310\246\214\267\206\313\312\063  
\073\331\075\067\213\373\172\076\206\054\347\163\327\012\127\254

\144\233\031\353\364\017\004\010\212\254\003\027\031\144\364\132  
\045\042\215\064\054\262\366\150\035\022\155\323\212\036\024\332  
\304\217\246\342\043\205\325\172\015\275\152\340\351\354\354\027  
\273\102\033\147\252\045\355\105\203\041\374\301\311\174\325\142  
\076\372\362\305\055\323\375\324\145\002\003\001\000\001\243\201  
\237\060\201\234\060\023\006\011\053\006\001\004\001\202\067\024  
\002\004\006\036\004\000\103\000\101\060\013\006\003\125\035\017  
\004\004\003\002\001\206\060\017\006\003\125\035\023\001\001\377  
\004\005\060\003\001\001\377\060\035\006\003\125\035\016\004\026  
\004\024\306\117\242\075\006\143\204\011\234\316\142\344\004\254  
\215\134\265\351\266\033\060\066\006\003\125\035\037\004\057\060  
\055\060\053\240\051\240\047\206\045\150\164\164\160\072\057\057  
\143\162\154\056\170\162\141\155\160\163\145\143\165\162\151\164  
\171\056\143\157\155\057\130\107\103\101\056\143\162\154\060\020  
\006\011\053\006\001\004\001\202\067\025\001\004\003\002\001\001  
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\003  
\202\001\001\000\221\025\071\003\001\033\147\373\112\034\371\012  
\140\133\241\332\115\227\142\371\044\123\047\327\202\144\116\220  
\056\303\111\033\053\232\334\374\250\170\147\065\361\035\360\021  
\275\267\110\343\020\366\015\337\077\322\311\266\252\125\244\110  
\272\002\333\336\131\056\025\133\073\235\026\175\107\327\067\352  
\137\115\166\022\066\273\037\327\241\201\004\106\040\243\054\155  
\251\236\001\176\077\051\316\000\223\337\375\311\222\163\211\211  
\144\236\347\053\344\034\221\054\322\271\316\175\316\157\061\231  
\323\346\276\322\036\220\360\011\024\171\134\043\253\115\322\332  
\041\037\115\231\171\235\341\317\047\237\020\233\034\210\015\260  
\212\144\101\061\270\016\154\220\044\244\233\134\161\217\272\273  
\176\034\033\333\152\200\017\041\274\351\333\246\267\100\364\262  
\213\251\261\344\357\232\032\320\075\151\231\356\250\050\243\341  
\074\263\360\262\021\234\317\174\100\346\335\347\103\175\242\330  
\072\265\251\215\362\064\231\304\324\020\341\006\375\011\204\020  
\073\356\304\114\364\354\047\174\102\302\164\174\202\212\011\311  
\264\003\045\274

END

CKA\_NSS\_MOZILLA\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRUST\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRUST\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "XRamp Global CA Root"

# Issuer: CN=XRamp Global Certification Authority,O=XRamp Security Services  
Inc,OU=www.xrampsecurity.com,C=US

# Serial Number:50:94:6c:ec:18:ea:d5:9c:4d:d5:97:ef:75:8f:a0:ad

#

Subject: CN=XRamp Global Certification Authority,O=XRamp Security Services  
Inc,OU=www.xrampsecurity.com,C=US

# Not Valid Before: Mon Nov 01 17:14:04 2004

# Not Valid After : Mon Jan 01 05:37:19 2035



```

Fingerprint (SHA-256):
CE:CD:DC:90:50:99:D8:DA:DF:C5:B1:D2:09:B7:37:CB:E2:C1:8C:FB:2C:10:C0:FF:0B:CF:0D:32:86:FC:1A:A2
Fingerprint (SHA1): B8:01:86:D1:EB:9C:86:A5:41:04:CF:30:54:F3:4C:52:B7:E5:58:C6
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "XRamp Global CA Root"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\270\001\206\321\353\234\206\245\101\004\317\060\124\363\114\122
\267\345\130\306
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\241\013\104\263\312\020\330\000\156\235\017\330\017\222\012\321
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\202\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\036\060\034\006\003\125\004\013\023\025\167\167\167\056\170
\162\141\155\160\163\145\143\165\162\151\164\171\056\143\157\155
\061\044\060\042\006\003\125\004\012\023\033\130\122\141\155\160
\040\123\145\143\165\162\151\164\171\040\123\145\162\166\151\143
\145\163\040\111\156\143\061\055\060\053\006\003\125\004\003\023
\044\130\122\141\155\160\040\107\154\157\142\141\154\040\103\145
\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150
\157\162\151\164\171
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\020\120\224\154\354\030\352\325\234\115\325\227\357\165\217
\240\255
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Go Daddy Class 2 CA"
#
Issuer: OU=Go Daddy Class 2 Certification Authority,O="The Go Daddy Group, Inc.",C=US
Serial Number: 0 (0x0)
Subject: OU=Go Daddy Class 2 Certification Authority,O="The Go Daddy Group, Inc.",C=US
Not Valid Before: Tue Jun 29
17:06:20 2004
Not Valid After : Thu Jun 29 17:06:20 2034
Fingerprint (SHA-256):
C3:84:6B:F2:4B:9E:93:CA:64:27:4C:0E:C6:7C:1E:CC:5E:02:4F:FC:AC:D2:D7:40:19:35:0E:81:FE:54:6A:E4
Fingerprint (SHA1): 27:96:BA:E6:3F:18:01:E2:77:26:1B:A0:D7:77:70:02:8F:20:EE:E4

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```
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Go Daddy Class 2 CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\143\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\041\060\037\006\003\125\004\012\023\030\124\150\145\040\107\157
\040\104\141\144\144\171\040\107\162\157\165\160\054\040\111\156
\143\056\061\061\060\057\006\003\125\004\013\023\050\107\157\040
\104\141\144\144\171\040\103\154\141\163\163\040\062\040\103\145
\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150
\157\162\151\164\171
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\143\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\041\060\037\006\003\125\004\012\023\030\124\150\145\040\107\157
\040\104\141\144\144\171\040\107\162\157\165\160\054\040\111\156
\143\056\061\061\060\057\006\003\125\004\013\023\050\107\157\040
\104\141\144\144\171\040\103\154\141\163\163\040\062\040\103\145
\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150
\157\162\151\164\171
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\001\000
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\000\060\202\002\350\240\003\002\001\002\002\001\000
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060
\143\061\013\060\011\006\003\125\004\006\023\002\125\123\061\041
\060\037\006\003\125\004\012\023\030\124\150\145\040\107\157\040
\104\141\144\144\171\040\107\162\157\165\160\054\040\111\156\143
\056\061\061\060\057\006\003\125\004\013\023\050\107\157\040\104
\141\144\144\171\040\103\154\141\163\163\040\062\040\103\145\162
\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157
\162\151\164\171\060\036\027\015\060\064\060\066\062\071\061\067
\060\066\062\060\132\027\015\063\064\060\066\062\071\061\067\060
\066\062\060\132\060\143\061\013\060\011\006\003\125\004\006\023
\002\125\123\061\041\060\037\006\003\125\004\012\023\030\124\150
\145\040\107\157\040\104\141\144\144\171\040\107\162\157\165\160
\054\040\111\156\143\056\061\061\060\057\006\003\125\004\013\023
\050\107\157\040\104\141\144\144\171\040\103\154\141\163\163\040
\062\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040
\101\165\164\150\157\162\151\164\171\060\202\001\040\060\015\006
\011\052\206\110\206\367\015\001\001\001\005\000\003\202\001\015
```

\000\060\202\001\010\002\202\001\001\000\336\235\327\352\127\030  
\111\241\133\353\327\137\110\206\352\276\335\377\344\357\147\034  
\364\145\150\263\127\161\240\136\167\273\355\233\111\351\160\200  
\075\126\030\143\010\157\332\362\314\320\077\177\002\124\042\124  
\020\330\262\201\324\300\165\075\113\177\307\167\303\076\170\253  
\032\003\265\040\153\057\152\053\261\305\210\176\304\273\036\260  
\301\330\105\047\157\252\067\130\367\207\046\327\330\055\366\251  
\027\267\037\162\066\116\246\027\077\145\230\222\333\052\156\135  
\242\376\210\340\013\336\177\345\215\025\341\353\313\072\325\342  
\022\242\023\055\330\216\257\137\022\075\240\010\005\010\266\134  
\245\145\070\004\105\231\036\243\140\140\164\305\101\245\162\142  
\033\142\305\037\157\137\032\102\276\002\121\145\250\256\043\030  
\152\374\170\003\251\115\177\200\303\372\253\132\374\241\100\244  
\312\031\026\376\262\310\357\136\163\015\356\167\275\232\366\171  
\230\274\261\007\147\242\025\015\335\240\130\306\104\173\012\076  
\142\050\137\272\101\007\123\130\317\021\176\070\164\305\370\377  
\265\151\220\217\204\164\352\227\033\257\002\001\003\243\201\300  
\060\201\275\060\035\006\003\125\035\016\004\026\004\024\322\304  
\260\322\221\324\114\021\161\263\141\313\075\241\376\335\250\152  
\324\343\060\201\215\006\003\125\035\043\004\201\205\060\201\202  
\200\024\322\304\260\322\221\324\114\021\161\263\141\313\075\241  
\376\335\250\152\324\343\241\147\244\145\060\143\061\013\060\011  
\006\003\125\004\006\023\002\125\123\061\041\060\037\006\003\125  
\004\012\023\030\124\150\145\040\107\157\040\104\141\144\144\171  
\040\107\162\157\165\160\054\040\111\156\143\056\061\061\060\057  
\006\003\125\004\013\023\050\107\157\040\104\141\144\144\171\040  
\103\154\141\163\163\040\062\040\103\145\162\164\151\146\151\143  
\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171\202  
\001\000\060\014\006\003\125\035\023\004\005\060\003\001\001\377  
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\003  
\202\001\001\000\062\113\363\262\312\076\221\374\022\306\241\007  
\214\216\167\240\063\006\024\134\220\036\030\367\010\246\075\012  
\031\371\207\200\021\156\151\344\226\027\060\377\064\221\143\162  
\070\356\314\034\001\243\035\224\050\244\061\366\172\304\124\327  
\366\345\061\130\003\242\314\316\142\333\224\105\163\265\277\105  
\311\044\265\325\202\002\255\043\171\151\215\270\266\115\316\317  
\114\312\063\043\350\034\210\252\235\213\101\156\026\311\040\345  
\211\236\315\073\332\160\367\176\231\046\040\024\124\045\253\156  
\163\205\346\233\041\235\012\154\202\016\250\370\302\014\372\020  
\036\154\226\357\207\015\304\017\141\213\255\356\203\053\225\370  
\216\222\204\162\071\353\040\352\203\355\203\315\227\156\010\274  
\353\116\046\266\163\053\344\323\366\114\376\046\161\342\141\021  
\164\112\377\127\032\207\017\165\110\056\317\121\151\027\240\002  
\022\141\225\325\321\100\262\020\114\356\304\254\020\103\246\245  
\236\012\325\225\142\232\015\317\210\202\305\062\014\344\053\237  
\105\346\015\237\050\234\261\271\052\132\127\255\067\017\257\035  
\177\333\275\237

END

```

CKA_NSS_Mozilla_CA_POLICY
CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRICT_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRICT_AFTER CK_BBOOL CK_FALSE

Trust for "Go Daddy Class 2 CA"
Issuer: OU=Go Daddy Class 2 Certification Authority,O="The Go Daddy Group, Inc.",C=US
Serial Number: 0 (0x0)
Subject: OU=Go Daddy Class 2 Certification Authority,O="The Go Daddy Group,
Inc.",C=US
Not Valid Before: Tue Jun 29 17:06:20 2004
Not Valid After : Thu Jun 29 17:06:20 2034
Fingerprint (SHA-256):
C3:84:6B:F2:4B:9E:93:CA:64:27:4C:0E:C6:7C:1E:CC:5E:02:4F:FC:AC:D2:D7:40:19:35:0E:81:FE:54:6A:E4
Fingerprint (SHA1): 27:96:BA:E6:3F:18:01:E2:77:26:1B:A0:D7:77:70:02:8F:20:EE:E4
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Go Daddy Class 2 CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\047\226\272\346\077\030\001\342\167\046\033\240\327\167\160\002
\217\040\356\344
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\221\336\006\045\253\332\375\062\027\014\273\045\027\052\204\147
END
CKA_ISSUER MULTILINE_OCTAL
\060\143\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\041\060\037\006\003\125\004\012\023\030\124\150\145\040\107\157
\040\104\141\144\144\171\040\107\162\157\165\160\054\040\111\156
\143\056\061\061\060\057\006\003\125\004\013\023\050\107\157\040
\104\141\144\144\171\040\103\154\141\163\163\040\062\040\103\145
\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150
\157\162\151\164\171
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\001\000
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Starfield Class 2 CA"
#

```

```
Issuer: OU=Starfield Class 2 Certification Authority,O="Starfield Technologies, Inc.",C=US
Serial Number: 0 (0x0)
Subject: OU=Starfield Class 2 Certification Authority,O="Starfield Technologies, Inc.",C=US
Not Valid Before: Tue Jun 29 17:39:16 2004
Not Valid After : Thu Jun 29 17:39:16 2034
Fingerprint (SHA-256):
14:65:FA:20:53:97:B8:76:FA:A6:F0:A9:95:8E:55:90:E4:0F:CC:7F:AA:4F:B7:C2:C8:67:75:21:FB:5F:B6:58
Fingerprint (SHA1): AD:7E:1C:28:B0:64:EF:8F:60:03:40:20:14:C3:D0:E3:37:0E:B5:8A
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN
CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Starfield Class 2 CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\150\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\045\060\043\006\003\125\004\012\023\034\123\164\141\162\146\151
\145\154\144\040\124\145\143\150\156\157\154\157\147\151\145\163
\054\040\111\156\143\056\061\062\060\060\006\003\125\004\013\023
\051\123\164\141\162\146\151\145\154\144\040\103\154\141\163\163
\040\062\040\103\145\162\164\151\146\151\143\141\164\151\157\156
\040\101\165\164\150\157\162\151\164\171
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\150\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\045\060\043\006\003\125\004\012\023\034\123\164\141\162\146\151
\145\154\144\040\124\145\143\150\156\157\154\157\147\151\145\163
\054\040\111\156\143\056\061\062\060\060\006\003\125\004\013\023
\051\123\164\141\162\146\151\145\154\144\040\103\154\141\163\163
\040\062\040\103\145\162\164\151\146\151\143\141\164\151\157\156
\040\101\165\164\150\157\162\151\164\171
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\001\000
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\017\060\202\002\367\240\003\002\001\002\002\001\000
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060
\150\061\013\060\011\006\003\125\004\006\023\002\125\123\061\045
\060\043\006\003\125\004\012\023\034\123\164\141\162\146\151\145
\154\144\040\124\145\143\150\156\157\154\157\147\151\145\163\054
\040\111\156\143\056\061\062\060\060\006\003\125\004\013\023\051
\123\164\141\162\146\151\145\154\144\040\103\154\141\163\163\040
\062\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040
\101\165\164\150\157\162\151\164\171\060\036\027\015\060\064\060
```

\066\062\071\061\067\063\071\061\066\132\027\015\063\064\060\066  
\062\071\061\067\063\071\061\066\132\060\150\061\013\060\011\006  
\003\125\004\006\023\002\125\123\061\045\060\043\006\003\125\004  
\012\023\034\123\164\141\162\146\151\145\154\144\040\124\145\143  
\150\156\157\154\157\147\151\145\163\054\040\111\156\143\056\061  
\062\060\060\006\003\125\004\013\023\051\123\164\141\162\146\151  
\145\154\144\040\103\154\141\163\163\040\062\040\103\145\162\164  
\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162  
\151\164\171\060\202\001\040\060\015\006\011\052\206\110\206\367  
\015\001\001\001\005\000\003\202\001\015\000\060\202\001\010\002  
\202\001\001\000\267\062\310\376\351\161\246\004\205\255\014\021  
\144\337\316\115\357\310\003\030\207\077\241\253\373\074\246\237  
\360\303\241\332\324\330\156\053\123\220\373\044\244\076\204\360  
\236\350\137\354\345\047\104\365\050\246\077\173\336\340\052\360  
\310\257\123\057\236\312\005\001\223\036\217\146\034\071\247\115  
\372\132\266\163\004\045\146\353\167\177\347\131\306\112\231\045  
\024\124\353\046\307\363\177\031\325\060\160\217\257\260\106\052  
\377\255\353\051\355\327\237\252\004\207\243\324\371\211\245\064  
\137\333\103\221\202\066\331\146\074\261\270\271\202\375\234\072  
\076\020\310\073\357\006\145\146\172\233\031\030\075\377\161\121  
\074\060\056\137\276\075\167\163\262\135\006\154\303\043\126\232  
\053\205\046\222\034\247\002\263\344\077\015\257\010\171\202\270  
\066\075\352\234\323\065\263\274\151\312\365\314\235\350\375\144  
\215\027\200\063\156\136\112\135\231\311\036\207\264\235\032\300  
\325\156\023\065\043\136\337\233\137\075\357\326\367\166\302\352  
\076\273\170\015\034\102\147\153\004\330\370\326\332\157\213\362  
\104\240\001\253\002\001\003\243\201\305\060\201\302\060\035\006  
\003\125\035\016\004\026\004\024\277\137\267\321\316\335\037\206  
\364\133\125\254\334\327\020\302\016\251\210\347\060\201\222\006  
\003\125\035\043\004\201\212\060\201\207\200\024\277\137\267\321  
\316\335\037\206\364\133\125\254\334\327\020\302\016\251\210\347  
\241\154\244\152\060\150\061\013\060\011\006\003\125\004\006\023  
\002\125\123\061\045\060\043\006\003\125\004\012\023\034\123\164  
\141\162\146\151\145\154\144\040\124\145\143\150\156\157\154\157  
\147\151\145\163\054\040\111\156\143\056\061\062\060\060\006\003  
\125\004\013\023\051\123\164\141\162\146\151\145\154\144\040\103  
\154\141\163\163\040\062\040\103\145\162\164\151\146\151\143\141  
\164\151\157\156\040\101\165\164\150\157\162\151\164\171\202\001  
\000\060\014\006\003\125\035\023\004\005\060\003\001\001\377\060  
\015\006\011\052\206\110\206\367\015\001\001\005\005\000\003\202  
\001\001\000\005\235\077\210\235\321\311\032\125\241\254\151\363  
\363\131\332\233\001\207\032\117\127\251\241\171\011\052\333\367  
\057\262\036\314\307\136\152\330\203\207\241\227\357\111\065\076  
\167\006\101\130\142\277\216\130\270\012\147\077\354\263\335\041  
\146\037\311\124\372\162\314\075\114\100\330\201\257\167\236\203  
\172\273\242\307\365\064\027\216\331\021\100\364\374\054\052\115  
\025\177\247\142\135\056\045\323\000\013\040\032\035\150\371\027  
\270\364\275\213\355\050\131\335\115\026\213\027\203\310\262\145

```
\307\055\172\245\252\274\123\206\155\335\127\244\312\370\040\101
\013\150\360\364\373\164\276\126\135\172\171\365\371\035\205\343
\055\225\276\365\161\220\103\314\215\037\232\000\012\207\051\351
\125\042\130\000\043\352\343\022\103\051\133\107\010\335\214\101
\152\145\006\250\345\041\252\101\264\225\041\225\271\175\321\064
\253\023\326\255\274\334\342\075\071\315\275\076\165\160\241\030
\131\003\311\042\264\217\234\325\136\052\327\245\266\324\012\155
\370\267\100\021\106\232\037\171\016\142\277\017\227\354\340\057
\037\027\224
```

END

CKA\_NSS\_MOZILLA\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRUST\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRUST\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "Starfield Class 2 CA"

# Issuer: OU=Starfield Class 2 Certification Authority,O="Starfield Technologies, Inc.",C=US

# Serial Number: 0 (0x0)

# Subject: OU=Starfield Class 2 Certification Authority,O="Starfield Technologies, Inc.",C=US

# Not Valid Before: Tue Jun 29 17:39:16 2004

# Not Valid After : Thu Jun 29 17:39:16 2034

# Fingerprint (SHA-256):

14:65:FA:20:53:97:B8:76:FA:A6:F0:A9:95:8E:55:90:E4:0F:CC:7F:AA:4F:B7:C2:C8:67:75:21:FB:5F:B6:58

#

Fingerprint (SHA1): AD:7E:1C:28:B0:64:EF:8F:60:03:40:20:14:C3:D0:E3:37:0E:B5:8A

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "Starfield Class 2 CA"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

```
\255\176\034\050\260\144\357\217\140\003\100\040\024\303\320\343
\067\016\265\212
```

END

CKA\_CERT\_MD5\_HASH MULTILINE\_OCTAL

```
\062\112\113\273\310\143\151\233\276\164\232\306\335\035\106\044
```

END

CKA\_ISSUER MULTILINE\_OCTAL

```
\060\150\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\045\060\043\006\003\125\004\012\023\034\123\164\141\162\146\151
\145\154\144\040\124\145\143\150\156\157\154\157\147\151\145\163
\054\040\111\156\143\056\061\062\060\060\006\003\125\004\013\023
\051\123\164\141\162\146\151\145\154\144\040\103\154\141\163\163
\040\062\040\103\145\162\164\151\146\151\143\141\164\151\157\156
\040\101\165\164\150\157\162\151\164\171
```

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

```
\002\001\000
```

```

END
CKA_TRUST_SERVER_AUTH
CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "DigiCert Assured ID Root CA"
#
Issuer: CN=DigiCert Assured ID Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
Serial Number:0c:e7:e0:e5:17:d8:46:fe:8f:e5:60:fc:1b:f0:30:39
Subject: CN=DigiCert Assured ID Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
Not Valid Before: Fri Nov 10 00:00:00 2006
Not Valid After : Mon Nov 10 00:00:00 2031
Fingerprint (SHA-256):
3E:90:99:B5:01:5E:8F:48:6C:00:BC:EA:9D:11:1E:E7:21:FA:BA:35:5A:89:BC:F1:DF:69:56:1E:3D:C6:32:5C
Fingerprint (SHA1): 05:63:B8:63:0D:62:D7:5A:BB:C8:AB:1E:4B:DF:B5:A8:99:B2:4D:43
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Assured ID Root CA"
CKA_CERTIFICATE_TYPE
CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\145\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\044\060\042\006\003\125\004\003\023\033\104\151\147\151
\103\145\162\164\040\101\163\163\165\162\145\144\040\111\104\040
\122\157\157\164\040\103\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\145\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\044\060\042\006\003\125\004\003\023\033\104\151\147\151
\103\145\162\164\040\101\163\163\165\162\145\144\040\111\104\040
\122\157\157\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\014\347\340\345\027\330\106\376\217\345\140\374\033\360
\060\071
END

```



CKA\_VALUE

MULTILINE\_OCTAL

\060\202\003\267\060\202\002\237\240\003\002\001\002\002\020\014  
\347\340\345\027\330\106\376\217\345\140\374\033\360\060\071\060  
\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060\145  
\061\013\060\011\006\003\125\004\006\023\002\125\123\061\025\060  
\023\006\003\125\004\012\023\014\104\151\147\151\103\145\162\164  
\040\111\156\143\061\031\060\027\006\003\125\004\013\023\020\167  
\167\167\056\144\151\147\151\143\145\162\164\056\143\157\155\061  
\044\060\042\006\003\125\004\003\023\033\104\151\147\151\103\145  
\162\164\040\101\163\163\165\162\145\144\040\111\104\040\122\157  
\157\164\040\103\101\060\036\027\015\060\066\061\061\061\060\060  
\060\060\060\060\060\132\027\015\063\061\061\061\061\060\060\060  
\060\060\060\060\132\060\145\061\013\060\011\006\003\125\004\006  
\023\002\125\123\061\025\060\023\006\003\125\004\012\023\014\104  
\151\147\151\103\145\162\164\040\111\156\143\061\031\060\027\006  
\003\125\004\013\023\020\167\167\167\056\144\151\147\151\143\145  
\162\164\056\143\157\155\061\044\060\042\006\003\125\004\003\023  
\033\104\151\147\151\103\145\162\164\040\101\163\163\165\162\145  
\144\040\111\104\040\122\157\157\164\040\103\101\060\202\001\042  
\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003  
\202\001\017\000\060\202\001\012\002\202\001\001\000\255\016\025  
\316\344\103\200\134\261\207\363\267\140\371\161\022\245\256\334  
\046\224\210\252\364\316\365\040\071\050\130\140\014\370\200\332  
\251\025\225\062\141\074\265\261\050\204\212\212\334\237\012\014  
\203\027\172\217\220\254\212\347\171\123\134\061\204\052\366\017  
\230\062\066\166\314\336\335\074\250\242\357\152\373\041\362\122  
\141\337\237\040\327\037\342\261\331\376\030\144\322\022\133\137  
\371\130\030\065\274\107\315\241\066\371\153\177\324\260\070\076  
\301\033\303\214\063\331\330\057\030\376\050\017\263\247\203\326  
\303\156\104\300\141\065\226\026\376\131\234\213\166\155\327\361  
\242\113\015\053\377\013\162\332\236\140\320\216\220\065\306\170  
\125\207\040\241\317\345\155\012\310\111\174\061\230\063\154\042  
\351\207\320\062\132\242\272\023\202\021\355\071\027\235\231\072  
\162\241\346\372\244\331\325\027\061\165\256\205\175\042\256\077  
\001\106\206\366\050\171\310\261\332\344\127\027\304\176\034\016  
\260\264\222\246\126\263\275\262\227\355\252\247\360\267\305\250  
\077\225\026\320\377\241\226\353\010\137\030\167\117\002\003\001  
\000\001\243\143\060\141\060\016\006\003\125\035\017\001\001\377  
\004\004\003\002\001\206\060\017\006\003\125\035\023\001\001\377  
\004\005\060\003\001\001\377\060\035\006\003\125\035\016\004\026  
\004\024\105\353\242\257\364\222\313\202\061\055\121\213\247\247  
\041\235\363\155\310\017\060\037\006\003\125\035\043\004\030\060  
\026\200\024\105\353\242\257\364\222\313\202\061\055\121\213\247  
\247\041\235\363\155\310\017\060\015\006\011\052\206\110\206\367  
\015\001\001\005\005\000\003\202\001\001\000\242\016\274\337\342  
\355\360\343\162\163\172\144\224\277\367\162\146\330\062\344\102  
\165\142\256\207\353\362\325\331\336\126\263\237\314\316\024\050

```
\271\015\227\140\134\022\114\130\344\323\075\203\111\105\130\227
\065\151\032\250\107\352\126\306\171\253\022\330\147\201\204\337
\177\011\074\224\346\270\046\054\040\275\075\263\050\211\367\137
\377\042\342\227\204\037\351\145\357\207\340\337\301\147\111\263
\135\353\262\011\052\353\046\355\170\276\175\077\053\363\267\046
\065\155\137\211\001\266\111\133\237\001\005\233\253\075\045\301
\314\266\177\302\361\157\206\306\372\144\150\353\201\055\224\353
\102\267\372\214\036\335\142\361\276\120\147\267\154\275\363\361
\037\153\014\066\007\026\177\067\174\251\133\155\172\361\022\106
\140\203\327\047\004\276\113\316\227\276\303\147\052\150\021\337
\200\347\014\063\146\277\023\015\024\156\363\177\037\143\020\036
\372\215\033\045\155\154\217\245\267\141\001\261\322\243\046\241
\020\161\235\255\342\303\371\303\231\121\267\053\007\010\316\056
\346\120\262\247\372\012\105\057\242\360\362
```

END

CKA\_NSS\_MOZILLA\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "DigiCert Assured ID Root CA"

# Issuer: CN=DigiCert Assured ID Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US

# Serial Number:0c:e7:e0:e5:17:d8:46:fe:8f:e5:60:fc:1b:f0:30:39

# Subject: CN=DigiCert Assured ID Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US

# Not Valid Before: Fri Nov 10 00:00:00 2006

# Not Valid After : Mon Nov 10 00:00:00 2031

# Fingerprint (SHA-256):

3E:90:99:B5:01:5E:8F:48:6C:00:BC:EA:9D:11:1E:E7:21:FA:BA:35:5A:89:BC:F1:DF:69:56:1E:3D:C6:32:5C

# Fingerprint (SHA1): 05:63:B8:63:0D:62:D7:5A:BB:C8:AB:1E:4B:DF:B5:A8:99:B2:4D:43

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "DigiCert Assured ID Root CA"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

```
\005\143\270\143\015\142\327\132\273\310\253\036\113\337\265\250
\231\262\115\103
```

END

CKA\_CERT\_MD5\_HASH

MULTILINE\_OCTAL

```
\207\316\013\173\052\016\111\000\341\130\161\233\067\250\223\162
```

END

CKA\_ISSUER MULTILINE\_OCTAL

```
\060\145\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\044\060\042\006\003\125\004\003\023\033\104\151\147\151
```

```

\103\145\162\164\040\101\163\163\165\162\145\144\040\111\104\040
\122\157\157\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\014\347\340\345\027\330\106\376\217\345\140\374\033\360
\060\071
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "DigiCert Global Root CA"
#
Issuer: CN=DigiCert Global Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
Serial
Number:08:3b:e0:56:90:42:46:b1:a1:75:6a:c9:59:91:c7:4a
Subject: CN=DigiCert Global Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
Not Valid Before: Fri Nov 10 00:00:00 2006
Not Valid After : Mon Nov 10 00:00:00 2031
Fingerprint (SHA-256):
43:48:A0:E9:44:4C:78:CB:26:5E:05:8D:5E:89:44:B4:D8:4F:96:62:BD:26:DB:25:7F:89:34:A4:43:C7:01:61
Fingerprint (SHA1): A8:98:5D:3A:65:E5:E5:C4:B2:D7:D6:6D:40:C6:DD:2F:B1:9C:54:36
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Global Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\141\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\040\060\036\006\003\125\004\003\023\027\104\151\147\151
\103\145\162\164\040\107\154\157\142\141\154\040\122\157\157\164
\040\103\101
END
CKA_ID
UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\141\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\040\060\036\006\003\125\004\003\023\027\104\151\147\151
\103\145\162\164\040\107\154\157\142\141\154\040\122\157\157\164

```

\040\103\101

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

\002\020\010\073\340\126\220\102\106\261\241\165\152\311\131\221  
\307\112

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\003\257\060\202\002\227\240\003\002\001\002\002\020\010  
\073\340\126\220\102\106\261\241\165\152\311\131\221\307\112\060  
\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060\141  
\061\013\060\011\006\003\125\004\006\023\002\125\123\061\025\060  
\023\006\003\125\004\012\023\014\104\151\147\151\103\145\162\164  
\040\111\156\143\061\031\060\027\006\003\125\004\013\023\020\167  
\167\167\056\144\151\147\151\143\145\162\164\056\143\157\155\061  
\040\060\036\006\003\125\004\003\023\027\104\151\147\151\103\145  
\162\164\040\107\154\157\142\141\154\040\122\157\157\164\040\103  
\101\060\036\027\015\060\066\061\061\061\060\060\060\060\060\060  
\060\132\027\015\063\061\061\061\061\060\060\060\060\060\060  
\132\060\141\061\013\060\011\006\003\125\004\006\023\002\125\123  
\061\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103  
\145\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013  
\023\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143  
\157\155\061\040\060\036\006\003\125\004\003\023\027\104\151\147  
\151\103\145\162\164\040\107\154\157\142\141\154\040\122\157\157  
\164\040\103\101\060\202\001\042\060\015\006\011\052\206\110\206  
\367\015\001\001\001\005\000\003\202\001\017\000\060\202\001\012  
\002\202\001\001\000\342\073\341\021\162\336\250\244\323\243\127  
\252\120\242\217\013\167\220\311\242\245\356\022\316\226\133\001  
\011\040\314\001\223\247\116\060\267\123\367\103\304\151\000\127  
\235\342\215\042\335\207\006\100\000\201\011\316\316\033\203\277  
\337\315\073\161\106\342\326\146\307\005\263\166\047\026\217\173  
\236\036\225\175\356\267\110\243\010\332\326\257\172\014\071\006  
\145\177\112\135\037\274\027\370\253\276\356\050\327\164\177\172  
\170\231\131\205\150\156\134\043\062\113\277\116\300\350\132\155  
\343\160\277\167\020\277\374\001\366\205\331\250\104\020\130\062  
\251\165\030\325\321\242\276\107\342\047\152\364\232\063\370\111  
\010\140\213\324\137\264\072\204\277\241\252\112\114\175\076\317  
\117\137\154\166\136\240\113\067\221\236\334\042\346\155\316\024  
\032\216\152\313\376\315\263\024\144\027\307\133\051\236\062\277  
\362\356\372\323\013\102\324\253\267\101\062\332\014\324\357\370  
\201\325\273\215\130\077\265\033\350\111\050\242\160\332\061\004  
\335\367\262\026\362\114\012\116\007\250\355\112\075\136\265\177  
\243\220\303\257\047\002\003\001\000\001\243\143\060\141\060\016  
\006\003\125\035\017\001\001\377\004\004\003\002\001\206\060\017  
\006\003\125\035\023\001\001\377\004\005\060\003\001\001\377\060  
\035\006\003\125\035\016\004\026\004\024\003\336\120\065\126\321  
\114\273\146\360\243\342\033\033\303\227\262\075\321\125\060\037  
\006\003\125\035\043\004\030\060\026\200\024\003\336\120\065\126

```
\321\114\273\146\360\243\342\033\033\303\227\262\075\321\125\060
\015\006\011\052\206\110\206\367\015\001\001\005\005\000\003\202
\001\001\000\313\234\067\252\110\023\022\012\372\335\104\234\117
\122\260\364\337\256\004\365\171\171\010\243\044\030\374\113\053
\204\300\055\271\325\307\376\364\301\037\130\313\270\155\234\172
\164\347\230\051\253\021\265\343\160\240\241\315\114\210\231\223
\214\221\160\342\253\017\034\276\223\251\377\143\325\344\007\140
\323\243\277\235\133\011\361\325\216\343\123\364\216\143\372\077
\247\333\264\146\337\142\146\326\321\156\101\215\362\055\265\352
\167\112\237\235\130\342\053\131\300\100\043\355\055\050\202\105
\076\171\124\222\046\230\340\200\110\250\067\357\360\326\171\140
\026\336\254\350\016\315\156\254\104\027\070\057\111\332\341\105
\076\052\271\066\123\317\072\120\006\367\056\350\304\127\111\154
\141\041\030\325\004\255\170\074\054\072\200\153\247\353\257\025
\024\351\330\211\301\271\070\154\342\221\154\212\377\144\271\167
\045\127\060\300\033\044\243\341\334\351\337\107\174\265\264\044
\010\005\060\354\055\275\013\277\105\277\120\271\251\363\353\230
\001\022\255\310\210\306\230\064\137\215\012\074\306\351\325\225
\225\155\336
```

END

CKA\_NSS\_MOZILLA\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "DigiCert Global Root CA"

# Issuer: CN=DigiCert Global Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US

# Serial Number:08:3b:e0:56:90:42:46:b1:a1:75:6a:c9:59:91:c7:4a

# Subject: CN=DigiCert Global Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US

# Not Valid Before: Fri Nov 10 00:00:00 2006

# Not Valid After : Mon Nov 10 00:00:00

2031

# Fingerprint (SHA-256):

43:48:A0:E9:44:4C:78:CB:26:5E:05:8D:5E:89:44:B4:D8:4F:96:62:BD:26:DB:25:7F:89:34:A4:43:C7:01:61

# Fingerprint (SHA1): A8:98:5D:3A:65:E5:E5:C4:B2:D7:D6:6D:40:C6:DD:2F:B1:9C:54:36

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "DigiCert Global Root CA"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

```
\250\230\135\072\145\345\345\304\262\327\326\155\100\306\335\057
\261\234\124\066
```

END

CKA\_CERT\_MD5\_HASH MULTILINE\_OCTAL

```
\171\344\251\204\015\175\072\226\327\300\117\342\103\114\211\056
```

END

CKA\_ISSUER MULTILINE\_OCTAL

```
\060\141\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\040\060\036\006\003\125\004\003\023\027\104\151\147\151
\103\145\162\164\040\107\154\157\142\141\154\040\122\157\157\164
\040\103\101
```

END

CKA\_SERIAL\_NUMBER

MULTILINE\_OCTAL

```
\002\020\010\073\340\126\220\102\106\261\241\165\152\311\131\221
\307\112
```

END

CKA\_TRUST\_SERVER\_AUTH CK\_TRUST CKT\_NSS\_TRUSTED\_DELEGATOR

CKA\_TRUST\_EMAIL\_PROTECTION CK\_TRUST CKT\_NSS\_TRUSTED\_DELEGATOR

CKA\_TRUST\_CODE\_SIGNING CK\_TRUST CKT\_NSS\_MUST\_VERIFY\_TRUST

CKA\_TRUST\_STEP\_UP\_APPROVED CK\_BBOOL CK\_FALSE

#

# Certificate "DigiCert High Assurance EV Root CA"

#

# Issuer: CN=DigiCert High Assurance EV Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US

# Serial Number:02:ac:5c:26:6a:0b:40:9b:8f:0b:79:f2:ae:46:25:77

# Subject: CN=DigiCert High Assurance EV Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US

# Not Valid Before: Fri Nov 10 00:00:00 2006

# Not Valid After : Mon Nov 10 00:00:00 2031

# Fingerprint (SHA-256):

74:31:E5:F4:C3:C1:CE:46:90:77:4F:0B:61:E0:54:40:88:3B:A9:A0:1E:D0:0B:A6:AB:D7:80:6E:D3:B1:18:CF

# Fingerprint (SHA1): 5F:B7:EE:06:33:E2:59:DB:AD:0C:4C:9A:E6:D3:8F:1A:61:C7:DC:25

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_CERTIFICATE

CKA\_TOKEN

CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "DigiCert High Assurance EV Root CA"

CKA\_CERTIFICATE\_TYPE CK\_CERTIFICATE\_TYPE CKC\_X\_509

CKA\_SUBJECT MULTILINE\_OCTAL

```
\060\154\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\053\060\051\006\003\125\004\003\023\042\104\151\147\151
\103\145\162\164\040\110\151\147\150\040\101\163\163\165\162\141
\156\143\145\040\105\126\040\122\157\157\164\040\103\101
```

END

CKA\_ID UTF8 "0"

CKA\_ISSUER MULTILINE\_OCTAL

```
\060\154\061\013\060\011\006\003\125\004\006\023\002\125\123\061
```

\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145  
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023  
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157  
\155\061\053\060\051\006\003\125\004\003\023\042\104\151\147\151  
\103\145\162\164\040\110\151\147\150\040\101\163\163\165\162\141  
\156\143\145\040\105\126\040\122\157\157\164\040\103\101

END

CKA\_SERIAL\_NUMBER

MULTILINE\_OCTAL

\002\020\002\254\134\046\152\013\100\233\217\013\171\362\256\106  
\045\167

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\003\305\060\202\002\255\240\003\002\001\002\002\020\002  
\254\134\046\152\013\100\233\217\013\171\362\256\106\045\167\060  
\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060\154  
\061\013\060\011\006\003\125\004\006\023\002\125\123\061\025\060  
\023\006\003\125\004\012\023\014\104\151\147\151\103\145\162\164  
\040\111\156\143\061\031\060\027\006\003\125\004\013\023\020\167  
\167\167\056\144\151\147\151\143\145\162\164\056\143\157\155\061  
\053\060\051\006\003\125\004\003\023\042\104\151\147\151\103\145  
\162\164\040\110\151\147\150\040\101\163\163\165\162\141\156\143  
\145\040\105\126\040\122\157\157\164\040\103\101\060\036\027\015  
\060\066\061\061\061\060\060\060\060\060\060\060\060\132\027\015\063  
\061\061\061\061\060\060\060\060\060\060\060\132\060\154\061\013  
\060\011\006\003\125\004\006\023\002\125\123\061\025\060\023\006  
\003\125\004\012\023\014\104\151\147\151\103\145\162\164\040\111  
\156\143\061\031\060\027\006\003\125\004\013\023\020\167\167\167  
\056\144\151\147\151\143\145\162\164\056\143\157\155\061\053\060  
\051\006\003\125\004\003\023\042\104\151\147\151\103\145\162\164  
\040\110\151\147\150\040\101\163\163\165\162\141\156\143\145\040  
\105\126\040\122\157\157\164\040\103\101\060\202\001\042\060\015  
\006\011\052\206\110\206\367\015\001\001\001\005\000\003\202\001  
\017\000\060\202\001\012\002\202\001\001\000\306\314\345\163\346  
\373\324\273\345\055\055\062\246\337\345\201\077\311\315\045\111  
\266\161\052\303\325\224\064\147\242\012\034\260\137\151\246\100  
\261\304\267\262\217\320\230\244\251\101\131\072\323\334\224\326  
\074\333\164\070\244\112\314\115\045\202\367\112\245\123\022\070  
\356\363\111\155\161\221\176\143\266\253\246\137\303\244\204\370  
\117\142\121\276\370\305\354\333\070\222\343\006\345\010\221\014  
\304\050\101\125\373\313\132\211\025\176\161\350\065\277\115\162  
\011\075\276\072\070\120\133\167\061\033\215\263\307\044\105\232  
\247\254\155\000\024\132\004\267\272\023\353\121\012\230\101\101  
\042\116\145\141\207\201\101\120\246\171\134\211\336\031\112\127  
\325\056\346\135\034\123\054\176\230\315\032\006\026\244\150\163  
\320\064\004\023\134\241\161\323\132\174\125\333\136\144\341\067  
\207\060\126\004\345\021\264\051\200\022\361\171\071\210\242\002  
\021\174\047\146\267\210\267\170\362\312\012\250\070\253\012\144

\302\277\146\135\225\204\301\241\045\036\207\135\032\120\013\040  
\022\314\101\273\156\013\121\070\270\113\313\002\003\001\000\001  
\243\143\060\141\060\016\006\003\125\035\017\001\001\377\004\004  
\003\002\001\206\060\017\006\003\125\035\023\001\001\377\004\005  
\060\003\001\001\377\060\035\006\003\125\035\016\004\026\004\024  
\261\076\303\151\003\370\277\107\001\324\230\046\032\010\002\357  
\143\144\053\303\060\037\006\003\125\035\043\004\030\060\026\200  
\024\261\076\303\151\003\370\277\107\001\324\230\046\032\010\002  
\357\143\144\053\303\060\015\006\011\052\206\110\206\367\015\001  
\001\005\005\000\003\202\001\001\000\034\032\006\227\334\327\234  
\237\074\210\146\006\010\127\041\333\041\107\370\052\147\252\277  
\030\062\166\100\020\127\301\212\363\172\331\021\145\216\065\372  
\236\374\105\265\236\331\114\061\113\270\221\350\103\054\216\263  
\170\316\333\343\123\171\161\326\345\041\224\001\332\125\207\232  
\044\144\366\212\146\314\336\234\067\315\250\064\261\151\233\043  
\310\236\170\042\053\160\103\343\125\107\061\141\031\357\130\305  
\205\057\116\060\366\240\061\026\043\310\347\342\145\026\063\313  
\277\032\033\240\075\370\312\136\213\061\213\140\010\211\055\014  
\006\134\122\267\304\371\012\230\321\025\137\237\022\276\174\066  
\143\070\275\104\244\177\344\046\053\012\304\227\151\015\351\214  
\342\300\020\127\270\310\166\022\221\125\362\110\151\330\274\052  
\002\133\017\104\324\040\061\333\364\272\160\046\135\220\140\236  
\274\113\027\011\057\264\313\036\103\150\311\007\047\301\322\134  
\367\352\041\271\150\022\234\074\234\277\236\374\200\134\233\143  
\315\354\107\252\045\047\147\240\067\363\000\202\175\124\327\251  
\370\351\056\023\243\167\350\037\112

END

CKA\_NSS\_MOZILLA\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "DigiCert High Assurance EV Root CA"

# Issuer: CN=DigiCert High Assurance EV Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US

# Serial Number:02:ac:5c:26:6a:0b:40:9b:8f:0b:79:f2:ae:46:25:77

# Subject: CN=DigiCert High Assurance EV Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US

# Not Valid Before: Fri Nov 10 00:00:00 2006

# Not Valid After : Mon Nov 10 00:00:00 2031

# Fingerprint (SHA-256):

74:31:E5:F4:C3:C1:CE:46:90:77:4F:0B:61:E0:54:40:88:3B:A9:A0:1E:D0:0B:A6:AB:D7:80:6E:D3:B1:18:CF

# Fingerprint (SHA1): 5F:B7:EE:06:33:E2:59:DB:AD:0C:4C:9A:E6:D3:8F:1A:61:C7:DC:25

CKA\_CLASS CK\_OBJECT\_CLASS

CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "DigiCert High Assurance EV Root CA"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL



\137\267\356\006\063\342\131\333\255\014\114\232\346\323\217\032

\141\307\334\045

END

CKA\_CERT\_MD5\_HASH MULTILINE\_OCTAL

\324\164\336\127\134\071\262\323\234\205\203\305\300\145\111\212

END

CKA\_ISSUER MULTILINE\_OCTAL

\060\154\061\013\060\011\006\003\125\004\006\023\002\125\123\061

\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145

\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023

\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157

\155\061\053\060\051\006\003\125\004\003\023\042\104\151\147\151

\103\145\162\164\040\110\151\147\150\040\101\163\163\165\162\141

\156\143\145\040\105\126\040\122\157\157\164\040\103\101

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

\002\020\002\254\134\046\152\013\100\233\217\013\171\362\256\106

\045\167

END

CKA\_TRUST\_SERVER\_AUTH CK\_TRUST

CKT\_NSS\_TRUSTED\_DELEGATOR

CKA\_TRUST\_EMAIL\_PROTECTION CK\_TRUST CKT\_NSS\_TRUSTED\_DELEGATOR

CKA\_TRUST\_CODE\_SIGNING CK\_TRUST CKT\_NSS\_MUST\_VERIFY\_TRUST

CKA\_TRUST\_STEP\_UP\_APPROVED CK\_BBOOL CK\_FALSE

#

# Certificate "SwissSign Platinum CA - G2"

#

# Issuer: CN=SwissSign Platinum CA - G2,O=SwissSign AG,C=CH

# Serial Number:4e:b2:00:67:0c:03:5d:4f

# Subject: CN=SwissSign Platinum CA - G2,O=SwissSign AG,C=CH

# Not Valid Before: Wed Oct 25 08:36:00 2006

# Not Valid After : Sat Oct 25 08:36:00 2036

# Fingerprint (SHA-256):

3B:22:2E:56:67:11:E9:92:30:0D:C0:B1:5A:B9:47:3D:AF:DE:F8:C8:4D:0C:EF:7D:33:17:B4:C1:82:1D:14:36

# Fingerprint (SHA1): 56:E0:FA:C0:3B:8F:18:23:55:18:E5:D3:11:CA:E8:C2:43:31:AB:66

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_CERTIFICATE

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "SwissSign Platinum CA - G2"

CKA\_CERTIFICATE\_TYPE CK\_CERTIFICATE\_TYPE CKC\_X\_509

CKA\_SUBJECT MULTILINE\_OCTAL

\060\111\061\013\060\011\006\003\125\004\006\023\002\103\110\061

\025\060\023\006\003\125\004\012\023\014\123\167\151\163\163\123

\151\147\156\040\101\107\061\043\060\041\006\003\125\004\003\023

\032\123\167\151\163\163\123\151\147\156\040\120\154\141\164\151

\156\165\155\040\103\101\040\055\040\107\062

END

CKA\_ID

UTF8 "0"

CKA\_ISSUER MULTILINE\_OCTAL

\060\111\061\013\060\011\006\003\125\004\006\023\002\103\110\061  
\025\060\023\006\003\125\004\012\023\014\123\167\151\163\163\123  
\151\147\156\040\101\107\061\043\060\041\006\003\125\004\003\023  
\032\123\167\151\163\163\123\151\147\156\040\120\154\141\164\151  
\156\165\155\040\103\101\040\055\040\107\062

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

\002\010\116\262\000\147\014\003\135\117

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\005\301\060\202\003\251\240\003\002\001\002\002\010\116  
\262\000\147\014\003\135\117\060\015\006\011\052\206\110\206\367  
\015\001\001\005\005\000\060\111\061\013\060\011\006\003\125\004  
\006\023\002\103\110\061\025\060\023\006\003\125\004\012\023\014  
\123\167\151\163\163\123\151\147\156\040\101\107\061\043\060\041  
\006\003\125\004\003\023\032\123\167\151\163\163\123\151\147\156  
\040\120\154\141\164\151\156\165\155\040\103\101\040\055\040\107  
\062\060\036\027\015\060\066\061\060\062\065\060\070\063\066\060  
\060\132\027\015\063\066\061\060\062\065\060\070\063\066\060\060  
\132\060\111\061\013\060\011\006\003\125\004\006\023\002\103\110  
\061\025\060\023\006\003\125\004\012\023\014\123\167\151\163\163  
\123\151\147\156\040\101\107\061\043\060\041\006\003\125\004\003  
\023\032\123\167\151\163\163\123\151\147\156\040\120\154\141\164  
\151\156\165\155\040\103\101\040\055\040\107\062\060\202\002\042  
\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003  
\202\002\017\000\060\202\002\012\002\202\002\001\000\312\337\242  
\002\342\332\370\374\007\026\261\336\140\252\336\226\134\144\037  
\307\057\176\317\147\372\104\102\326\166\143\225\256\353\257\162  
\040\212\105\107\206\142\170\206\326\040\071\046\364\256\243\375  
\043\347\245\234\265\042\041\031\267\067\223\042\300\120\234\202  
\173\324\325\004\104\134\313\264\302\237\222\276\044\330\173\147  
\042\342\151\137\345\005\170\324\207\331\161\160\063\045\123\264  
\207\073\051\220\050\066\232\125\104\060\150\244\203\227\177\015  
\036\234\166\377\025\235\140\227\000\215\212\205\003\354\200\276  
\352\054\156\020\121\222\314\176\325\243\063\330\326\111\336\130  
\052\257\366\026\353\113\173\220\062\227\271\272\235\130\361\370  
\127\111\004\036\242\135\006\160\335\161\333\371\335\213\232\033  
\214\317\075\243\115\316\313\174\366\273\234\240\372\011\316\043  
\142\262\351\015\037\342\162\050\217\237\254\150\040\175\157\073  
\250\205\061\011\177\013\307\350\145\351\343\170\016\011\147\060  
\213\064\202\373\135\340\314\235\201\155\142\356\010\036\004\054  
\116\233\354\376\251\117\137\375\151\170\357\011\037\241\264\277  
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\106\115\141\152\205\114\122\164\057\006\037\173\021\342\204\227  
\306\231\363\155\177\327\147\203\176\023\150\330\161\050\132\330  
\316\335\350\020\024\232\376\155\043\207\156\216\132\160\074\325  
\215\011\000\247\252\274\260\061\067\155\310\204\024\036\133\275  
\105\143\040\153\113\164\214\275\333\072\016\301\317\132\026\217  
\245\230\362\166\211\262\023\022\073\013\167\167\254\273\345\074  
\051\112\222\162\312\141\032\053\136\114\342\203\164\167\372\065  
\110\172\205\115\215\232\123\304\337\170\312\227\221\110\053\105  
\053\001\367\034\032\242\355\030\272\012\275\203\372\157\274\215  
\127\223\073\324\324\246\316\036\361\240\261\316\253\375\053\050  
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\151\356\150\200\346\347\230\272\066\267\376\156\355\053\275\040  
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\000\001\243\201\254\060\201\251\060\016\006\003\125\035\017\001  
\001\377\004\004\003\002\001\006\060\017\006\003\125\035\023\001  
\001\377\004\005\060\003\001\001\377\060\035\006\003\125\035\016  
\004\026\004\024\120\257\314\007\207\025\107\157\070\305\264\145  
\321\336\225\252\351\337\234\314\060\037\006\003\125\035\043\004  
\030\060\026\200\024\120\257\314\007\207\025\107\157\070\305\264  
\145\321\336\225\252\351\337\234\314\060\106\006\003\125\035\040  
\004\077\060\075\060\073\006\011\140\205\164\001\131\001\001\001  
\001\060\056\060\054\006\010\053\006\001\005\005\007\002\001\026  
\040\150\164\164\160\072\057\057\162\145\160\157\163\151\164\157  
\162\171\056\163\167\151\163\163\163\151\147\156\056\143\157\155  
\057\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000  
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\340\371\125\106\010\374\160\034\102\050\226\216\267\305\301\101  
\165\116\011\161\171\345\155\226\312\113\245\210\140\320\060\164  
\270\312\010\334\264\060\236\100\007\026\153\145\225\167\001\256  
\244\267\065\013\201\332\161\025\251\164\027\070\173\130\312\371  
\057\373\300\145\166\215\133\001\271\175\336\202\075\144\270\276  
\024\164\243\012\124\323\054\225\030\027\065\365\121\153\077\217  
\242\226\141\071\170\153\113\345\246\240\370\123\337\121\020\223  
\142\347\200\057\342\321\340\274\216\066\106\167\063\354\270\373  
\216\232\054\211\115\061\021\017\046\236\004\273\267\004\215\013  
\362\271\374\132\235\073\026\267\057\310\230\253\376\212\120\131  
\056\243\073\374\051\135\213\301\113\311\342\212\023\035\261\277  
\273\102\035\122\335\116\330\024\136\020\306\061\007\357\161\047  
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\061\246\340\061\266\224\346\104\111\164\305\026\345\367\037\003  
\141\050\305\310\313\022\240\102\113\371\153\210\010\215\264\062  
\030\363\165\237\304\177\000\117\005\225\234\243\027\002\303\263  
\123\233\252\040\071\051\053\146\372\235\257\136\263\222\322\265  
\246\341\032\371\055\101\151\201\024\264\264\265\355\211\075\316  
\373\251\235\065\102\104\261\034\024\163\201\317\052\001\065\232  
\061\325\055\217\155\204\337\200\115\127\343\077\305\204\165\332  
\211\306\060\273\353\217\313\042\010\240\256\252\361\003\154\072

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\113\115\011\245\016\162\306\126\153\041\102\116\043\045\024\150
\256\166\012\174\014\007\160\144\371\232\057\366\005\071\046\306
\014\217\031\177\103\136\156\364\133\025\057\333\141\135\346\147
\057\077\010\224\371\140\264\230\061\332\164\361\204\223\161\115
\137\373\140\130\321\373\304\301\155\211\242\273\040\037\235\161
\221\313\062\233\023\075\076\175\222\122\065\254\222\224\242\323
\030\302\174\307\352\257\166\005\026\335\147\047\302\176\034\007
\042\041\363\100\012\033\064\007\104\023\302\204\152\216\337\031
\132\277\177\353\035\342\032\070\321\134\257\107\222\153\200\265
\060\245\311\215\330\253\061\201\037\337\302\146\067\323\223\251
\205\206\171\145\322
```

END

CKA\_NSS\_Mozilla\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "SwissSign Platinum CA - G2"

# Issuer: CN=SwissSign Platinum CA - G2,O=SwissSign AG,C=CH

# Serial Number:4e:b2:00:67:0c:03:5d:4f

#

Subject: CN=SwissSign Platinum CA - G2,O=SwissSign AG,C=CH

# Not Valid Before: Wed Oct 25 08:36:00 2006

# Not Valid After : Sat Oct 25 08:36:00 2036

# Fingerprint (SHA-256):

3B:22:2E:56:67:11:E9:92:30:0D:C0:B1:5A:B9:47:3D:AF:DE:F8:C8:4D:0C:EF:7D:33:17:B4:C1:82:1D:14:36

# Fingerprint (SHA1): 56:E0:FA:C0:3B:8F:18:23:55:18:E5:D3:11:CA:E8:C2:43:31:AB:66

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "SwissSign Platinum CA - G2"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

```
\126\340\372\300\073\217\030\043\125\030\345\323\021\312\350\302
\103\061\253\146
```

END

CKA\_CERT\_MD5\_HASH MULTILINE\_OCTAL

```
\311\230\047\167\050\036\075\016\025\074\204\000\270\205\003\346
```

END

CKA\_ISSUER MULTILINE\_OCTAL

```
\060\111\061\013\060\011\006\003\125\004\006\023\002\103\110\061
\025\060\023\006\003\125\004\012\023\014\123\167\151\163\163\123
\151\147\156\040\101\107\061\043\060\041\006\003\125\004\003\023
\032\123\167\151\163\163\123\151\147\156\040\120\154\141\164\151
\156\165\155\040\103\101\040\055\040\107\062
```

END

CKA\_SERIAL\_NUMBER

```

MULTILINE_OCTAL
\002\010\116\262\000\147\014\003\135\117
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "SwissSign Gold CA - G2"
#
Issuer: CN=SwissSign Gold CA - G2,O=SwissSign AG,C=CH
Serial Number:00:bb:40:1c:43:f5:5e:4f:b0
Subject: CN=SwissSign Gold CA - G2,O=SwissSign AG,C=CH
Not Valid Before: Wed Oct 25 08:30:35 2006
Not Valid After : Sat Oct 25 08:30:35 2036
Fingerprint (SHA-256):
62:DD:0B:E9:B9:F5:0A:16:3E:A0:F8:E7:5C:05:3B:1E:CA:57:EA:55:C8:68:8F:64:7C:68:81:F2:C8:35:7B:95
Fingerprint (SHA1): D8:C5:38:8A:B7:30:1B:1B:6E:D4:7A:E6:45:25:3A:6F:9F:1A:27:61
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL
CK_FALSE
CKA_LABEL UTF8 "SwissSign Gold CA - G2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\105\061\013\060\011\006\003\125\004\006\023\002\103\110\061
\025\060\023\006\003\125\004\012\023\014\123\167\151\163\163\123
\151\147\156\040\101\107\061\037\060\035\006\003\125\004\003\023
\026\123\167\151\163\163\123\151\147\156\040\107\157\154\144\040
\103\101\040\055\040\107\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\105\061\013\060\011\006\003\125\004\006\023\002\103\110\061
\025\060\023\006\003\125\004\012\023\014\123\167\151\163\163\123
\151\147\156\040\101\107\061\037\060\035\006\003\125\004\003\023
\026\123\167\151\163\163\123\151\147\156\040\107\157\154\144\040
\103\101\040\055\040\107\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\011\000\273\100\034\103\365\136\117\260
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\272\060\202\003\242\240\003\002\001\002\002\011\000
\273\100\034\103\365\136\117\260\060\015\006\011\052\206\110\206
\367\015\001\001\005\005\000\060\105\061\013\060\011\006\003\125

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\004\006\023\002\103\110\061\025\060\023\006\003\125\004\012\023  
\014\123\167\151\163\163\123\151\147\156\040\101\107\061\037\060  
\035\006\003\125\004\003\023\026\123\167\151\163\163\123\151\147  
\156\040\107\157\154\144\040\103\101\040\055\040\107\062\060\036  
\027\015\060\066\061\060\062\065\060\070\063\060\063\065\132\027  
\015\063\066\061\060\062\065\060\070\063\060\063\065\132\060\105  
\061\013\060\011\006\003\125\004\006\023\002\103\110\061\025\060  
\023\006\003\125\004\012\023\014\123\167\151\163\163\123\151\147  
\156\040\101\107\061\037\060\035\006\003\125\004\003\023\026\123  
\167\151\163\163\123\151\147\156\040\107\157\154\144\040\103\101  
\040\055\040\107\062\060\202\002\042\060\015\006\011\052\206\110  
\206\367\015\001\001\001\005\000\003\202\002\017\000\060\202\002  
\012\002\202\002\001\000\257\344\356\176\213\044\016\022\156\251  
\120\055\026\104\073\222\222\134\312\270\135\204\222\102\023\052  
\274\145\127\202\100\076\127\044\315\120\213\045\052\267\157\374  
\357\242\320\300\037\002\044\112\023\226\217\043\023\346\050\130  
\000\243\107\307\006\247\204\043\053\273\275\226\053\177\125\314  
\213\301\127\037\016\142\145\017\335\075\126\212\163\332\256\176  
\155\272\201\034\176\102\214\040\065\331\103\115\204\372\204\333  
\122\054\363\016\047\167\013\153\277\021\057\162\170\237\056\330  
\076\346\030\067\132\052\162\371\332\142\220\222\225\312\037\234  
\351\263\074\053\313\363\001\023\277\132\317\301\265\012\140\275  
\335\265\231\144\123\270\240\226\263\157\342\046\167\221\214\340  
\142\020\002\237\064\017\244\325\222\063\121\336\276\215\272\204  
\172\140\074\152\333\237\053\354\336\336\001\077\156\115\345\120  
\206\313\264\257\355\104\100\305\312\132\214\332\322\053\174\250  
\356\276\246\345\012\252\016\245\337\005\122\267\125\307\042\135  
\062\152\227\227\143\023\333\311\333\171\066\173\205\072\112\305  
\122\211\371\044\347\235\167\251\202\377\125\034\245\161\151\053  
\321\002\044\362\263\046\324\153\332\004\125\345\301\012\307\155  
\060\067\220\052\344\236\024\063\136\026\027\125\305\133\265\313  
\064\211\222\361\235\046\217\241\007\324\306\262\170\120\333\014  
\014\013\174\013\214\101\327\271\351\335\214\210\367\243\115\262  
\062\314\330\027\332\315\267\316\146\235\324\375\136\377\275\227  
\076\051\165\347\176\247\142\130\257\045\064\245\101\307\075\274  
\015\120\312\003\003\017\010\132\037\225\163\170\142\277\257\162  
\024\151\016\245\345\003\016\170\216\046\050\102\360\007\013\142  
\040\020\147\071\106\372\251\003\314\004\070\172\146\357\040\203  
\265\214\112\126\216\221\000\374\216\134\202\336\210\240\303\342  
\150\156\175\215\357\074\335\145\364\135\254\121\357\044\200\256  
\252\126\227\157\371\255\175\332\141\077\230\167\074\245\221\266  
\034\214\046\332\145\242\011\155\301\342\124\343\271\312\114\114  
\200\217\167\173\140\232\036\337\266\362\110\036\016\272\116\124  
\155\230\340\341\242\032\242\167\120\317\304\143\222\354\107\031  
\235\353\346\153\316\301\002\003\001\000\001\243\201\254\060\201  
\251\060\016\006\003\125\035\017\001\001\377\004\004\003\002\001  
\006\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001  
\001\377\060\035\006\003\125\035\016\004\026\004\024\133\045\173

\226\244\145\121\176\270\071\363\300\170\146\136\350\072\347\360  
\356\060\037\006\003\125\035\043\004\030\060\026\200\024\133\045  
\173\226\244\145\121\176\270\071\363\300\170\146\136\350\072\347  
\360\356\060\106\006\003\125\035\040\004\077\060\075\060\073\006  
\011\140\205\164\001\131\001\002\001\001\060\056\060\054\006\010  
\053\006\001\005\005\007\002\001\026\040\150\164\164\160\072\057  
\057\162\145\160\157\163\151\164\157\162\171\056\163\167\151\163  
\163\163\151\147\156\056\143\157\155\057\060\015\006\011\052\206  
\110\206\367\015\001\001\005\005\000\003\202\002\001\000\047\272  
\343\224\174\361\256\300\336\027\346\345\330\325\365\124\260\203  
\364\273\315\136\005\173\117\237\165\146\257\074\350\126\176\374  
\162\170\070\003\331\053\142\033\000\271\370\351\140\315\314\316  
\121\212\307\120\061\156\341\112\176\030\057\151\131\266\075\144  
\201\053\343\203\204\346\042\207\216\175\340\356\002\231\141\270  
\036\364\270\053\210\022\026\204\302\061\223\070\226\061\246\271  
\073\123\077\303\044\223\126\133\151\222\354\305\301\273\070\000  
\343\354\027\251\270\334\307\174\001\203\237\062\107\272\122\042  
\064\035\062\172\011\126\247\174\045\066\251\075\113\332\300\202  
\157\012\273\022\310\207\113\047\021\371\036\055\307\223\077\236  
\333\137\046\153\122\331\056\212\361\024\306\104\215\025\251\267  
\277\275\336\246\032\356\256\055\373\110\167\027\376\273\354\257  
\030\365\052\121\360\071\204\227\225\154\156\033\303\053\304\164  
\140\171\045\260\012\047\337\337\136\322\071\317\105\175\102\113  
\337\263\054\036\305\306\135\312\125\072\240\234\151\232\217\332  
\357\262\260\074\237\207\154\022\053\145\160\025\122\061\032\044  
\317\157\061\043\120\037\214\117\217\043\303\164\101\143\034\125  
\250\024\335\076\340\121\120\317\361\033\060\126\016\222\260\202  
\205\330\203\313\042\144\274\055\270\045\325\124\242\270\006\352  
\255\222\244\044\240\301\206\265\112\023\152\107\317\056\013\126  
\225\124\313\316\232\333\152\264\246\262\333\101\010\206\047\167  
\367\152\240\102\154\013\070\316\327\165\120\062\222\302\337\053  
\060\042\110\320\325\101\070\045\135\244\351\135\237\306\224\165  
\320\105\375\060\227\103\217\220\253\012\307\206\163\140\112\151  
\055\336\245\170\327\006\332\152\236\113\076\167\072\040\023\042  
\001\320\277\150\236\143\140\153\065\115\013\155\272\241\075\300  
\223\340\177\043\263\125\255\162\045\116\106\371\322\026\357\260  
\144\301\001\236\351\312\240\152\230\016\317\330\140\362\057\111  
\270\344\102\341\070\065\026\364\310\156\117\367\201\126\350\272  
\243\276\043\257\256\375\157\003\340\002\073\060\166\372\033\155  
\101\317\001\261\351\270\311\146\364\333\046\363\072\244\164\362  
\111\044\133\311\260\320\127\301\372\076\172\341\227\311

END

CKA\_NSS\_MOZILLA\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRUST\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRUST\_AFTER CK\_BBOOL CK\_FALSE

# Trust for

"SwissSign Gold CA - G2"

# Issuer: CN=SwissSign Gold CA - G2,O=SwissSign AG,C=CH

# Serial Number:00:bb:40:1c:43:f5:5e:4f:b0

# Subject: CN=SwissSign Gold CA - G2,O=SwissSign AG,C=CH

# Not Valid Before: Wed Oct 25 08:30:35 2006

# Not Valid After : Sat Oct 25 08:30:35 2036

# Fingerprint (SHA-256):

62:DD:0B:E9:B9:F5:0A:16:3E:A0:F8:E7:5C:05:3B:1E:CA:57:EA:55:C8:68:8F:64:7C:68:81:F2:C8:35:7B:95

# Fingerprint (SHA1): D8:C5:38:8A:B7:30:1B:1B:6E:D4:7A:E6:45:25:3A:6F:9F:1A:27:61

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "SwissSign Gold CA - G2"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

\330\305\070\212\267\060\033\033\156\324\172\346\105\045\072\157  
\237\032\047\141

END

CKA\_CERT\_MD5\_HASH MULTILINE\_OCTAL

\044\167\331\250\221\321\073\372\210\055\302\377\370\315\063\223  
END

CKA\_ISSUER MULTILINE\_OCTAL

\060\105\061\013\060\011\006\003\125\004\006\023\002\103\110\061  
\025\060\023\006\003\125\004\012\023\014\123\167\151\163\163\123  
\151\147\156\040\101\107\061\037\060\035\006\003\125\004\003\023  
\026\123\167\151\163\163\123\151\147\156\040\107\157\154\144\040  
\103\101\040\055\040\107\062

END

CKA\_SERIAL\_NUMBER

MULTILINE\_OCTAL

\002\011\000\273\100\034\103\365\136\117\260

END

CKA\_TRUST\_SERVER\_AUTH CK\_TRUST CKT\_NSS\_TRUSTED\_DELEGATOR

CKA\_TRUST\_EMAIL\_PROTECTION CK\_TRUST CKT\_NSS\_TRUSTED\_DELEGATOR

CKA\_TRUST\_CODE\_SIGNING CK\_TRUST CKT\_NSS\_MUST\_VERIFY\_TRUST

CKA\_TRUST\_STEP\_UP\_APPROVED CK\_BBOOL CK\_FALSE

#

# Certificate "SwissSign Silver CA - G2"

#

# Issuer: CN=SwissSign Silver CA - G2,O=SwissSign AG,C=CH

# Serial Number:4f:1b:d4:2f:54:bb:2f:4b

# Subject: CN=SwissSign Silver CA - G2,O=SwissSign AG,C=CH

# Not Valid Before: Wed Oct 25 08:32:46 2006

# Not Valid After : Sat Oct 25 08:32:46 2036

# Fingerprint (SHA-256):

BE:6C:4D:A2:BB:B9:BA:59:B6:F3:93:97:68:37:42:46:C3:C0:05:99:3F:A9:8F:02:0D:1D:ED:BE:D4:8A:81:D5

# Fingerprint (SHA1): 9B:AA:E5:9F:56:EE:21:CB:43:5A:BE:25:93:DF:A7:F0:40:D1:1D:CB



```
CKA_CLASS
CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SwissSign Silver CA - G2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\107\061\013\060\011\006\003\125\004\006\023\002\103\110\061
\025\060\023\006\003\125\004\012\023\014\123\167\151\163\163\123
\151\147\156\040\101\107\061\041\060\037\006\003\125\004\003\023
\030\123\167\151\163\163\123\151\147\156\040\123\151\154\166\145
\162\040\103\101\040\055\040\107\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\107\061\013\060\011\006\003\125\004\006\023\002\103\110\061
\025\060\023\006\003\125\004\012\023\014\123\167\151\163\163\123
\151\147\156\040\101\107\061\041\060\037\006\003\125\004\003\023
\030\123\167\151\163\163\123\151\147\156\040\123\151\154\166\145
\162\040\103\101\040\055\040\107\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\117\033\324\057\124\273\057\113
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\275\060\202\003\245\240\003\002\001\002\002\010\117
\033\324\057\124\273\057\113\060\015\006\011\052\206\110\206\367
\015\001\001\005\005\000\060\107\061\013\060\011\006\003\125\004
\006\023\002\103\110\061\025\060\023\006\003\125\004\012\023\014
\123\167\151\163\163\123\151\147\156\040\101\107\061\041\060\037
\006\003\125\004\003\023\030\123\167\151\163\163\123\151\147\156
\040\123\151\154\166\145\162\040\103\101\040\055\040\107\062\060
\036\027\015\060\066\061\060\062\065\060\070\063\062\064\066\132
\027\015\063\066\061\060\062\065\060\070\063\062\064\066\132\060
\107\061\013\060\011\006\003\125\004\006\023\002\103\110\061\025
\060\023\006\003\125\004\012\023\014\123\167\151\163\163\123\151
\147\156\040\101\107\061\041\060\037\006\003\125\004\003\023\030
\123\167\151\163\163\123\151\147\156\040\123\151\154\166\145\162
\040\103\101\040\055\040\107\062\060\202\002\042\060\015\006\011
\052\206\110\206\367\015\001\001\001\005\000\003\202\002\017\000
\060\202\002\012\002\202\002\001\000\304\361\207\177\323\170\061
\367\070\311\370\303\231\103\274\307\367\274\067\347\116\161\272
\113\217\245\163\035\134\156\230\256\003\127\256\070\067\103\057
\027\075\037\310\316\150\020\301\170\256\031\003\053\020\372\054
\171\203\366\350\271\150\271\125\362\004\104\247\071\371\374\004
\213\036\361\242\115\047\371\141\173\272\267\345\242\023\266\353
\141\076\320\154\321\346\373\372\136\355\035\264\236\240\065\133
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\241\222\313\360\111\222\376\205\012\005\076\346\331\013\342\117  
\273\334\225\067\374\221\351\062\065\042\321\037\072\116\047\205  
\235\260\025\224\062\332\141\015\107\115\140\102\256\222\107\350  
\203\132\120\130\351\212\213\271\135\241\334\335\231\112\037\066  
\147\273\110\344\203\266\067\353\110\072\257\017\147\217\027\007  
\350\004\312\357\152\061\207\324\300\266\371\224\161\173\147\144  
\270\266\221\112\102\173\145\056\060\152\014\365\220\356\225\346  
\362\315\202\354\331\241\112\354\366\262\113\345\105\205\346\155  
\170\223\004\056\234\202\155\066\251\304\061\144\037\206\203\013  
\052\364\065\012\170\311\125\317\101\260\107\351\060\237\231\276  
\141\250\006\204\271\050\172\137\070\331\033\251\070\260\203\177  
\163\301\303\073\110\052\202\017\041\233\270\314\250\065\303\204  
\033\203\263\076\276\244\225\151\001\072\211\000\170\004\331\311  
\364\231\031\253\126\176\133\213\206\071\025\221\244\020\054\011  
\062\200\140\263\223\300\052\266\030\013\235\176\215\111\362\020  
\112\177\371\325\106\057\031\222\243\231\247\046\254\273\214\074  
\346\016\274\107\007\334\163\121\361\160\144\057\010\371\264\107  
\035\060\154\104\352\051\067\205\222\150\146\274\203\070\376\173  
\071\056\323\120\360\037\373\136\140\266\251\246\372\047\101\361  
\233\030\162\362\365\204\164\112\311\147\304\124\256\110\144\337  
\214\321\156\260\035\341\007\217\010\036\231\234\161\351\114\330  
\245\367\107\022\037\164\321\121\236\206\363\302\242\043\100\013  
\163\333\113\246\347\163\006\214\301\240\351\301\131\254\106\372  
\346\057\370\317\161\234\106\155\271\304\025\215\070\171\003\105  
\110\357\304\135\327\010\356\207\071\042\206\262\015\017\130\103  
\367\161\251\110\056\375\352\326\037\002\003\001\000\001\243\201  
\254\060\201\251\060\016\006\003\125\035\017\001\001\377\004\004  
\003\002\001\006\060\017\006\003\125\035\023\001\001\377\004\005  
\060\003\001\001\377\060\035\006\003\125\035\016\004\026\004\024  
\027\240\315\301\344\101\266\072\133\073\313\105\235\275\034\302  
\230\372\206\130\060\037\006\003\125\035\043\004\030\060\026\200  
\024\027\240\315\301\344\101\266\072\133\073\313\105\235\275\034  
\302\230\372\206\130\060\106\006\003\125\035\040\004\077\060\075  
\060\073\006\011\140\205\164\001\131\001\003\001\001\060\056\060  
\054\006\010\053\006\001\005\005\007\002\001\026\040\150\164\164  
\160\072\057\057\162\145\160\157\163\151\164\157\162\171\056\163  
\167\151\163\163\163\151\147\156\056\143\157\155\057\060\015\006  
\011\052\206\110\206\367\015\001\001\005\005\000\003\202\002\001  
\000\163\306\201\340\047\322\055\017\340\225\060\342\232\101\177  
\120\054\137\137\142\141\251\206\152\151\030\014\164\111\326\135  
\204\352\101\122\030\157\130\255\120\126\040\152\306\275\050\151  
\130\221\334\221\021\065\251\072\035\274\032\245\140\236\330\037  
\177\105\221\151\331\176\273\170\162\301\006\017\052\316\217\205  
\160\141\254\240\315\013\270\071\051\126\204\062\116\206\273\075  
\304\052\331\327\037\162\356\376\121\241\042\101\261\161\002\143  
\032\202\260\142\253\136\127\022\037\337\313\335\165\240\300\135  
\171\220\214\033\340\120\346\336\061\376\230\173\160\137\245\220  
\330\255\370\002\266\157\323\140\335\100\113\042\305\075\255\072

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\172\237\032\032\107\221\171\063\272\202\334\062\151\003\226\156
\037\113\360\161\376\343\147\162\240\261\277\134\213\344\372\231
\042\307\204\271\033\215\043\227\077\355\045\340\317\145\273\365
\141\004\357\335\036\262\132\101\042\132\241\237\135\054\350\133
\311\155\251\014\014\170\252\140\306\126\217\001\132\014\150\274
\151\031\171\304\037\176\227\005\277\305\351\044\121\136\324\325
\113\123\355\331\043\132\066\003\145\243\301\003\255\101\060\363
\106\033\205\220\257\145\265\325\261\344\026\133\170\165\035\227
\172\155\131\251\052\217\173\336\303\207\211\020\231\111\163\170
\310\075\275\121\065\164\052\325\361\176\151\033\052\273\073\275
\045\270\232\132\075\162\141\220\146\207\356\014\326\115\324\021
\164\013\152\376\013\003\374\243\125\127\211\376\112\313\256\133
\027\005\310\362\215\043\061\123\070\322\055\152\077\202\271\215
\010\152\367\136\101\164\156\303\021\176\007\254\051\140\221\077
\070\312\127\020\015\275\060\057\307\245\346\101\240\332\256\005
\207\232\240\244\145\154\114\011\014\211\272\270\323\271\300\223
\212\060\372\215\345\232\153\025\001\116\147\252\332\142\126\076
\204\010\146\322\304\066\175\247\076\020\374\210\340\324\200\345
\000\275\252\363\116\006\243\172\152\371\142\162\343\011\117\353
\233\016\001\043\361\237\273\174\334\334\154\021\227\045\262\362
\264\143\024\322\006\052\147\214\203\365\316\352\007\330\232\152
\036\354\344\012\273\052\114\353\011\140\071\316\312\142\330\056
\156
```

END

CKA\_NSS\_Mozilla\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "SwissSign Silver CA - G2"

# Issuer: CN=SwissSign Silver CA - G2,O=SwissSign AG,C=CH

# Serial Number:4f:1b:d4:2f:54:bb:2f:4b

# Subject: CN=SwissSign Silver CA - G2,O=SwissSign AG,C=CH

# Not Valid Before: Wed Oct 25 08:32:46 2006

# Not Valid After : Sat Oct 25 08:32:46 2036

# Fingerprint (SHA-256):

BE:6C:4D:A2:BB:B9:BA:59:B6:F3:93:97:68:37:42:46:C3:C0:05:99:3F:A9:8F:02:0D:1D:ED:BE:D4:8A:81:D5

# Fingerprint (SHA1): 9B:AA:E5:9F:56:EE:21:CB:43:5A:BE:25:93:DF:A7:F0:40:D1:1D:CB

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "SwissSign Silver CA - G2"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

```
\233\252\345\237\126\356\041\313\103\132\276\045\223\337\247\360
```

```
\100\321\035\313
```

END

CKA\_CERT\_MD5\_HASH MULTILINE\_OCTAL

\340\006\241\311\175\317\311\374\015\300\126\165\226\330\142\023

END

CKA\_ISSUER

MULTILINE\_OCTAL

\060\107\061\013\060\011\006\003\125\004\006\023\002\103\110\061

\025\060\023\006\003\125\004\012\023\014\123\167\151\163\163\123

\151\147\156\040\101\107\061\041\060\037\006\003\125\004\003\023

\030\123\167\151\163\163\123\151\147\156\040\123\151\154\166\145

\162\040\103\101\040\055\040\107\062

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

\002\010\117\033\324\057\124\273\057\113

END

CKA\_TRUST\_SERVER\_AUTH CK\_TRUST CKT\_NSS\_TRUSTED\_DELEGATOR

CKA\_TRUST\_EMAIL\_PROTECTION CK\_TRUST CKT\_NSS\_TRUSTED\_DELEGATOR

CKA\_TRUST\_CODE\_SIGNING CK\_TRUST CKT\_NSS\_MUST\_VERIFY\_TRUST

CKA\_TRUST\_STEP\_UP\_APPROVED CK\_BBOOL CK\_FALSE

#

# Certificate "SecureTrust CA"

#

# Issuer: CN=SecureTrust CA,O=SecureTrust Corporation,C=US

# Serial Number:0c:f0:8e:5c:08:16:a5:ad:42:7f:f0:eb:27:18:59:d0

# Subject: CN=SecureTrust CA,O=SecureTrust Corporation,C=US

# Not Valid Before: Tue Nov 07 19:31:18 2006

# Not Valid After : Mon Dec 31 19:40:55 2029

# Fingerprint (SHA-256):

F1:C1:B5:0A:E5:A2:0D:D8:03:0E:C9:F6:BC:24:82:3D:D3:67:B5:25:57:59:B4:E7:1B:61:FC:E9:F7:37:5D:73

#

Fingerprint (SHA1): 87:82:C6:C3:04:35:3B:CF:D2:96:92:D2:59:3E:7D:44:D9:34:FF:11

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_CERTIFICATE

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "SecureTrust CA"

CKA\_CERTIFICATE\_TYPE CK\_CERTIFICATE\_TYPE CKC\_X\_509

CKA\_SUBJECT MULTILINE\_OCTAL

\060\110\061\013\060\011\006\003\125\004\006\023\002\125\123\061

\040\060\036\006\003\125\004\012\023\027\123\145\143\165\162\145

\124\162\165\163\164\040\103\157\162\160\157\162\141\164\151\157

\156\061\027\060\025\006\003\125\004\003\023\016\123\145\143\165

\162\145\124\162\165\163\164\040\103\101

END

CKA\_ID UTF8 "0"

CKA\_ISSUER MULTILINE\_OCTAL

\060\110\061\013\060\011\006\003\125\004\006\023\002\125\123\061

\040\060\036\006\003\125\004\012\023\027\123\145\143\165\162\145

\124\162\165\163\164\040\103\157\162\160\157\162\141\164\151\157

\156\061\027\060\025\006\003\125\004\003\023\016\123\145\143\165  
\162\145\124\162\165\163\164\040\103\101

END

CKA\_SERIAL\_NUMBER

MULTILINE\_OCTAL

\002\020\014\360\216\134\010\026\245\255\102\177\360\353\047\030  
\131\320

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\003\270\060\202\002\240\240\003\002\001\002\002\020\014  
\360\216\134\010\026\245\255\102\177\360\353\047\030\131\320\060  
\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060\110  
\061\013\060\011\006\003\125\004\006\023\002\125\123\061\040\060  
\036\006\003\125\004\012\023\027\123\145\143\165\162\145\124\162  
\165\163\164\040\103\157\162\160\157\162\141\164\151\157\156\061  
\027\060\025\006\003\125\004\003\023\016\123\145\143\165\162\145  
\124\162\165\163\164\040\103\101\060\036\027\015\060\066\061\061  
\060\067\061\071\063\061\061\070\132\027\015\062\071\061\062\063  
\061\061\071\064\060\065\065\132\060\110\061\013\060\011\006\003  
\125\004\006\023\002\125\123\061\040\060\036\006\003\125\004\012  
\023\027\123\145\143\165\162\145\124\162\165\163\164\040\103\157  
\162\160\157\162\141\164\151\157\156\061\027\060\025\006\003\125  
\004\003\023\016\123\145\143\165\162\145\124\162\165\163\164\040  
\103\101\060\202\001\042\060\015\006\011\052\206\110\206\367\015  
\001\001\001\005\000\003\202\001\017\000\060\202\001\012\002\202  
\001\001\000\253\244\201\345\225\315\365\366\024\216\302\117\312  
\324\342\170\225\130\234\101\341\015\231\100\044\027\071\221\063  
\146\351\276\341\203\257\142\134\211\321\374\044\133\141\263\340  
\021\021\101\034\035\156\360\270\273\370\336\247\201\272\246\110  
\306\237\035\275\276\216\251\101\076\270\224\355\051\032\324\216  
\322\003\035\003\357\155\015\147\034\127\327\006\255\312\310\365  
\376\016\257\146\045\110\004\226\013\135\243\272\026\303\010\117  
\321\106\370\024\134\362\310\136\001\231\155\375\210\314\206\250  
\301\157\061\102\154\122\076\150\313\363\031\064\337\273\207\030  
\126\200\046\304\320\334\300\157\337\336\240\302\221\026\240\144  
\021\113\104\274\036\366\347\372\143\336\146\254\166\244\161\243  
\354\066\224\150\172\167\244\261\347\016\057\201\172\342\265\162  
\206\357\242\153\213\360\017\333\323\131\077\272\162\274\104\044  
\234\343\163\263\367\257\127\057\102\046\235\251\164\272\000\122  
\362\113\315\123\174\107\013\066\205\016\146\251\010\227\026\064  
\127\301\146\367\200\343\355\160\124\307\223\340\056\050\025\131  
\207\272\273\002\003\001\000\001\243\201\235\060\201\232\060\023  
\006\011\053\006\001\004\001\202\067\024\002\004\006\036\004\000  
\103\000\101\060\013\006\003\125\035\017\004\004\003\002\001\206  
\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001  
\377\060\035\006\003\125\035\016\004\026\004\024\102\062\266\026  
\372\004\375\376\135\113\172\303\375\367\114\100\035\132\103\257  
\060\064\006\003\125\035\037\004\055\060\053\060\051\240\047\240

```
\045\206\043\150\164\164\160\072\057\057\143\162\154\056\163\145
\143\165\162\145\164\162\165\163\164\056\143\157\155\057\123\124
\103\101\056\143\162\154\060\020\006\011\053\006\001\004\001\202
\067\025\001\004\003\002\001\000\060\015\006\011\052\206\110\206
\367\015\001\001\005\005\000\003\202\001\001\000\060\355\117\112
\341\130\072\122\162\133\265\246\243\145\030\246\273\121\073\167
\351\235\352\323\237\134\340\105\145\173\015\312\133\342\160\120
\262\224\005\024\256\111\307\215\101\007\022\163\224\176\014\043
\041\375\274\020\177\140\020\132\162\365\230\016\254\354\271\177
\335\172\157\135\323\034\364\377\210\005\151\102\251\005\161\310
\267\254\046\350\056\264\214\152\377\161\334\270\261\337\231\274
\174\041\124\053\344\130\242\273\127\051\256\236\251\243\031\046
\017\231\056\010\260\357\375\151\317\231\032\011\215\343\247\237
\053\311\066\064\173\044\263\170\114\225\027\244\006\046\036\266
\144\122\066\137\140\147\331\234\305\005\164\013\347\147\043\322
\010\374\210\351\256\213\177\341\060\364\067\176\375\306\062\332
\055\236\104\060\060\154\356\007\336\322\064\374\322\377\100\366
\113\364\146\106\006\124\246\362\062\012\143\046\060\153\233\321
\334\213\107\272\341\271\325\142\320\242\240\364\147\005\170\051
\143\032\157\004\326\370\306\114\243\232\261\067\264\215\345\050
\113\035\236\054\302\270\150\274\355\002\356\061
```

END

CKA\_NSS\_MOZILLA\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "SecureTrust CA"

# Issuer: CN=SecureTrust CA,O=SecureTrust Corporation,C=US

# Serial Number:0c:f0:8e:5c:08:16:a5:ad:42:7f:f0:eb:27:18:59:d0

# Subject: CN=SecureTrust CA,O=SecureTrust Corporation,C=US

# Not Valid Before: Tue Nov 07 19:31:18 2006

# Not Valid After : Mon Dec 31 19:40:55 2029

# Fingerprint (SHA-256):

F1:C1:B5:0A:E5:A2:0D:D8:03:0E:C9:F6:BC:24:82:3D:D3:67:B5:25:57:59:B4:E7:1B:61:FC:E9:F7:37:5D:73

# Fingerprint (SHA1): 87:82:C6:C3:04:35:3B:CF:D2:96:92:D2:59:3E:7D:44:D9:34:FF:11

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "SecureTrust CA"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

```
\207\202\306\303\004\065\073\317\322\226\222\322\131\076\175\104
\331\064\377\021
```

END

CKA\_CERT\_MD5\_HASH

MULTILINE\_OCTAL

```
\334\062\303\247\155\045\127\307\150\011\235\352\055\251\242\321
```

```

END
CKA_ISSUER MULTILINE_OCTAL
\060\110\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\040\060\036\006\003\125\004\012\023\027\123\145\143\165\162\145
\124\162\165\163\164\040\103\157\162\160\157\162\141\164\151\157
\156\061\027\060\025\006\003\125\004\003\023\016\123\145\143\165
\162\145\124\162\165\163\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\014\360\216\134\010\026\245\255\102\177\360\353\047\030
\131\320
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Secure Global CA"
#
Issuer: CN=Secure Global CA,O=SecureTrust Corporation,C=US
Serial Number:07:56:22:a4:e8:d4:8a:89:4d:f4:13:c8:f0:f8:ea:a5
Subject: CN=Secure Global CA,O=SecureTrust Corporation,C=US
Not Valid
 Before: Tue Nov 07 19:42:28 2006
Not Valid After : Mon Dec 31 19:52:06 2029
Fingerprint (SHA-256):
42:00:F5:04:3A:C8:59:0E:BB:52:7D:20:9E:D1:50:30:29:FB:CB:D4:1C:A1:B5:06:EC:27:F1:5A:DE:7D:AC:69
Fingerprint (SHA1): 3A:44:73:5A:E5:81:90:1F:24:86:61:46:1E:3B:9C:C4:5F:F5:3A:1B
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Secure Global CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\112\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\040\060\036\006\003\125\004\012\023\027\123\145\143\165\162\145
\124\162\165\163\164\040\103\157\162\160\157\162\141\164\151\157
\156\061\031\060\027\006\003\125\004\003\023\020\123\145\143\165
\162\145\040\107\154\157\142\141\154\040\103\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\112\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\040\060\036\006\003\125\004\012\023\027\123\145\143\165\162\145
\124\162\165\163\164\040\103\157\162\160\157\162\141\164\151\157
\156\061\031\060\027\006\003\125\004\003\023\020\123\145\143\165

```

\162\145\040\107\154\157\142\141\154\040\103\101  
END  
CKA\_SERIAL\_NUMBER  
MULTILINE\_OCTAL  
\002\020\007\126\042\244\350\324\212\211\115\364\023\310\360\370  
\352\245  
END  
CKA\_VALUE MULTILINE\_OCTAL  
\060\202\003\274\060\202\002\244\240\003\002\001\002\002\020\007  
\126\042\244\350\324\212\211\115\364\023\310\360\370\352\245\060  
\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060\112  
\061\013\060\011\006\003\125\004\006\023\002\125\123\061\040\060  
\036\006\003\125\004\012\023\027\123\145\143\165\162\145\124\162  
\165\163\164\040\103\157\162\160\157\162\141\164\151\157\156\061  
\031\060\027\006\003\125\004\003\023\020\123\145\143\165\162\145  
\040\107\154\157\142\141\154\040\103\101\060\036\027\015\060\066  
\061\061\060\067\061\071\064\062\062\070\132\027\015\062\071\061  
\062\063\061\061\071\065\062\060\066\132\060\112\061\013\060\011  
\006\003\125\004\006\023\002\125\123\061\040\060\036\006\003\125  
\004\012\023\027\123\145\143\165\162\145\124\162\165\163\164\040  
\103\157\162\160\157\162\141\164\151\157\156\061\031\060\027\006  
\003\125\004\003\023\020\123\145\143\165\162\145\040\107\154\157  
\142\141\154\040\103\101\060\202\001\042\060\015\006\011\052\206  
\110\206\367\015\001\001\001\005\000\003\202\001\017\000\060\202  
\001\012\002\202\001\001\000\257\065\056\330\254\154\125\151\006  
\161\345\023\150\044\263\117\330\314\041\107\370\361\140\070\211  
\211\003\351\275\352\136\106\123\011\334\134\365\132\350\367\105  
\052\002\353\061\141\327\051\063\114\316\307\174\012\067\176\017  
\272\062\230\341\035\227\257\217\307\334\311\070\226\363\333\032  
\374\121\355\150\306\320\156\244\174\044\321\256\102\310\226\120  
\143\056\340\376\165\376\230\247\137\111\056\225\343\071\063\144  
\216\036\244\137\220\322\147\074\262\331\376\101\271\125\247\011  
\216\162\005\036\213\335\104\205\202\102\320\111\300\035\140\360  
\321\027\054\225\353\366\245\301\222\243\305\302\247\010\140\015  
\140\004\020\226\171\236\026\064\346\251\266\372\045\105\071\310  
\036\145\371\223\365\252\361\122\334\231\230\075\245\206\032\014  
\065\063\372\113\245\004\006\025\034\061\200\357\252\030\153\302  
\173\327\332\316\371\063\040\325\365\275\152\063\055\201\004\373  
\260\134\324\234\243\342\134\035\343\251\102\165\136\173\324\167  
\357\071\124\272\311\012\030\033\022\231\111\057\210\113\375\120  
\142\321\163\347\217\172\103\002\003\001\000\001\243\201\235\060  
\201\232\060\023\006\011\053\006\001\004\001\202\067\024\002\004  
\006\036\004\000\103\000\101\060\013\006\003\125\035\017\004\004  
\003\002\001\206\060\017\006\003\125\035\023\001\001\377\004\005  
\060\003\001\001\377\060\035\006\003\125\035\016\004\026\004\024  
\257\104\004\302\101\176\110\203\333\116\071\002\354\354\204\172  
\346\316\311\244\060\064\006\003\125\035\037\004\055\060\053\060  
\051\240\047\240\045\206\043\150\164\164\160\072\057\057\143\162



```
\154\056\163\145\143\165\162\145\164\162\165\163\164\056\143\157
\155\057\123\107\103\101\056\143\162\154\060\020\006\011\053\006
\001\004\001\202\067\025\001\004\003\002\001\000\060\015\006\011
\052\206\110\206\367\015\001\001\005\005\000\003\202\001\001\000
\143\032\010\100\175\244\136\123\015\167\330\172\256\037\015\013
\121\026\003\357\030\174\310\343\257\152\130\223\024\140\221\262
\204\334\210\116\276\071\212\072\363\346\202\211\135\001\067\263
\253\044\244\025\016\222\065\132\112\104\136\116\127\372\165\316
\037\110\316\146\364\074\100\046\222\230\154\033\356\044\106\014
\027\263\122\245\333\245\221\221\317\067\323\157\347\047\010\072
\116\031\037\072\247\130\134\027\317\171\077\213\344\247\323\046
\043\235\046\017\130\151\374\107\176\262\320\215\213\223\277\051
\117\103\151\164\166\147\113\317\007\214\346\002\367\265\341\264
\103\265\113\055\024\237\371\334\046\015\277\246\107\164\006\330
\210\321\072\051\060\204\316\322\071\200\142\033\250\307\127\111
\274\152\125\121\147\025\112\276\065\007\344\325\165\230\067\171
\060\024\333\051\235\154\305\151\314\107\125\242\060\367\314\134
\177\302\303\230\034\153\116\026\200\353\172\170\145\105\242\000
\032\257\014\015\125\144\064\110\270\222\271\361\264\120\051\362
\117\043\037\332\154\254\037\104\341\335\043\170\121\133\307\026
END
```

CKA\_NSS\_MOZILLA\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "Secure Global CA"

# Issuer: CN=Secure Global CA,O=SecureTrust Corporation,C=US

# Serial Number:07:56:22:a4:e8:d4:8a:89:4d:f4:13:c8:f0:f8:ea:a5

# Subject: CN=Secure Global CA,O=SecureTrust Corporation,C=US

# Not Valid Before: Tue Nov 07 19:42:28 2006

# Not Valid After : Mon Dec 31 19:52:06 2029

# Fingerprint (SHA-256):

42:00:F5:04:3A:C8:59:0E:BB:52:7D:20:9E:D1:50:30:29:FB:CB:D4:1C:A1:B5:06:EC:27:F1:5A:DE:7D:AC:69

# Fingerprint (SHA1): 3A:44:73:5A:E5:81:90:1F:24:86:61:46:1E:3B:9C:C4:5F:F5:3A:1B

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE

CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "Secure Global CA"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

```
\072\104\163\132\345\201\220\037\044\206\141\106\036\073\234\304
\137\365\072\033
```

END

CKA\_CERT\_MD5\_HASH MULTILINE\_OCTAL

```
\317\364\047\015\324\355\334\145\026\111\155\075\332\277\156\336
END
```

```

CKA_ISSUER MULTILINE_OCTAL
\060\112\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\040\060\036\006\003\125\004\012\023\027\123\145\143\165\162\145
\124\162\165\163\164\040\103\157\162\160\157\162\141\164\151\157
\156\061\031\060\027\006\003\125\004\003\023\020\123\145\143\165
\162\145\040\107\154\157\142\141\154\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\007\126\042\244\350\324\212\211\115\364\023\310\360\370
\352\245
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "COMODO Certification Authority"
#
#
Issuer: CN=COMODO Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater
Manchester,C=GB
Serial Number:4e:81:2d:8a:82:65:e0:0b:02:ee:3e:35:02:46:e5:3d
Subject: CN=COMODO Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater
Manchester,C=GB
Not Valid Before: Fri Dec 01 00:00:00 2006
Not Valid After : Mon Dec 31 23:59:59 2029
Fingerprint (SHA-256):
0C:2C:D6:3D:F7:80:6F:A3:99:ED:E8:09:11:6B:57:5B:F8:79:89:F0:65:18:F9:80:8C:86:05:03:17:8B:AF:66
Fingerprint (SHA1): 66:31:BF:9E:F7:4F:9E:B6:C9:D5:A6:0C:BA:6A:BE:D1:F7:BD:EF:7B
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "COMODO Certification Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\201\061\013\060\011\006\003\125\004\006\023\002\107\102
\061\033\060\031\006\003\125\004\010\023\022\107\162\145\141\164
\145\162\040\115\141\156\143\150\145\163\164\145\162\061\020\060
\016\006\003\125\004\007\023\007\123\141\154\146\157\162\144\061
\032\060\030\006\003\125\004\012\023\021\103\117\115\117\104\117
\040\103\101\040\114\151\155\151\164\145\144\061\047\060\045\006
\003\125\004\003\023\036\103\117\115\117\104\117\040\103\145\162
\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157
\162\151\164\171
END
CKA_ID

```

UTF8 "0"

CKA\_ISSUER MULTILINE\_OCTAL

\060\201\201\061\013\060\011\006\003\125\004\006\023\002\107\102  
\061\033\060\031\006\003\125\004\010\023\022\107\162\145\141\164  
\145\162\040\115\141\156\143\150\145\163\164\145\162\061\020\060  
\016\006\003\125\004\007\023\007\123\141\154\146\157\162\144\061  
\032\060\030\006\003\125\004\012\023\021\103\117\115\117\104\117  
\040\103\101\040\114\151\155\151\164\145\144\061\047\060\045\006  
\003\125\004\003\023\036\103\117\115\117\104\117\040\103\145\162  
\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157  
\162\151\164\171

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

\002\020\116\201\055\212\202\145\340\013\002\356\076\065\002\106  
\345\075

END

CKA\_VALUE

MULTILINE\_OCTAL

\060\202\004\035\060\202\003\005\240\003\002\001\002\002\020\116  
\201\055\212\202\145\340\013\002\356\076\065\002\106\345\075\060  
\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060\201  
\201\061\013\060\011\006\003\125\004\006\023\002\107\102\061\033  
\060\031\006\003\125\004\010\023\022\107\162\145\141\164\145\162  
\040\115\141\156\143\150\145\163\164\145\162\061\020\060\016\006  
\003\125\004\007\023\007\123\141\154\146\157\162\144\061\032\060  
\030\006\003\125\004\012\023\021\103\117\115\117\104\117\040\103  
\101\040\114\151\155\151\164\145\144\061\047\060\045\006\003\125  
\004\003\023\036\103\117\115\117\104\117\040\103\145\162\164\151  
\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151  
\164\171\060\036\027\015\060\066\061\062\060\061\060\060\060\060  
\060\060\132\027\015\062\071\061\062\063\061\062\063\065\071\065  
\071\132\060\201\201\061\013\060\011\006\003\125\004\006\023\002  
\107\102\061\033\060\031\006\003\125\004\010\023\022\107\162\145  
\141\164\145\162\040\115\141\156\143\150\145\163\164\145\162\061  
\020\060\016\006\003\125\004\007\023\007\123\141\154\146\157\162  
\144\061\032\060\030\006\003\125\004\012\023\021\103\117\115\117  
\104\117\040\103\101\040\114\151\155\151\164\145\144\061\047\060  
\045\006\003\125\004\003\023\036\103\117\115\117\104\117\040\103  
\145\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164  
\150\157\162\151\164\171\060\202\001\042\060\015\006\011\052\206  
\110\206\367\015\001\001\001\005\000\003\202\001\017\000\060\202  
\001\012\002\202\001\001\000\320\100\213\213\162\343\221\033\367  
\121\301\033\124\004\230\323\251\277\301\346\212\135\073\207\373  
\273\210\316\015\343\057\077\006\226\360\242\051\120\231\256\333  
\073\241\127\260\164\121\161\315\355\102\221\115\101\376\251\310  
\330\152\206\167\104\273\131\146\227\120\136\264\324\054\160\104  
\317\332\067\225\102\151\074\060\304\161\263\122\360\041\115\241  
\330\272\071\174\034\236\243\044\235\362\203\026\230\252\026\174

\103\233\025\133\267\256\064\221\376\324\142\046\030\106\232\077  
\353\301\371\361\220\127\353\254\172\015\213\333\162\060\152\146  
\325\340\106\243\160\334\150\331\377\004\110\211\167\336\265\351  
\373\147\155\101\351\274\071\275\062\331\142\002\361\261\250\075  
\156\067\234\342\057\342\323\242\046\213\306\270\125\103\210\341  
\043\076\245\322\044\071\152\107\253\000\324\241\263\251\045\376  
\015\077\247\035\272\323\121\301\013\244\332\254\070\357\125\120  
\044\005\145\106\223\064\117\055\215\255\306\324\041\031\322\216  
\312\005\141\161\007\163\107\345\212\031\022\275\004\115\316\116  
\234\245\110\254\273\046\367\002\003\001\000\001\243\201\216\060  
\201\213\060\035\006\003\125\035\016\004\026\004\024\013\130\345  
\213\306\114\025\067\244\100\251\060\251\041\276\107\066\132\126  
\377\060\016\006\003\125\035\017\001\001\377\004\004\003\002\001  
\006\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001  
\001\377\060\111\006\003\125\035\037\004\102\060\100\060\076\240  
\074\240\072\206\070\150\164\164\160\072\057\057\143\162\154\056  
\143\157\155\157\144\157\143\141\056\143\157\155\057\103\117\115  
\117\104\117\103\145\162\164\151\146\151\143\141\164\151\157\156  
\101\165\164\150\157\162\151\164\171\056\143\162\154\060\015\006  
\011\052\206\110\206\367\015\001\001\005\005\000\003\202\001\001  
\000\076\230\236\233\366\033\351\327\071\267\170\256\035\162\030  
\111\323\207\344\103\202\353\077\311\252\365\250\265\357\125\174  
\041\122\145\371\325\015\341\154\364\076\214\223\163\221\056\002  
\304\116\007\161\157\300\217\070\141\010\250\036\201\012\300\057  
\040\057\101\213\221\334\110\105\274\361\306\336\272\166\153\063  
\310\000\055\061\106\114\355\347\235\317\210\224\377\063\300\126  
\350\044\206\046\270\330\070\070\337\052\153\335\022\314\307\077  
\107\027\114\242\302\006\226\011\326\333\376\077\074\106\101\337  
\130\342\126\017\074\073\301\034\223\065\331\070\122\254\356\310  
\354\056\060\116\224\065\264\044\037\113\170\151\332\362\002\070  
\314\225\122\223\360\160\045\131\234\040\147\304\356\371\213\127  
\141\364\222\166\175\077\204\215\125\267\350\345\254\325\361\365  
\031\126\246\132\373\220\034\257\223\353\345\034\324\147\227\135  
\004\016\276\013\203\246\027\203\271\060\022\240\305\063\025\005  
\271\015\373\307\005\166\343\330\112\215\374\064\027\243\306\041  
\050\276\060\105\061\036\307\170\276\130\141\070\254\073\342\001  
\145

END

CKA\_NSS\_MOZILLA\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "COMODO Certification Authority"

# Issuer: CN=COMODO Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater  
Manchester,C=GB

# Serial Number:4e:81:2d:8a:82:65:e0:0b:02:ee:3e:35:02:46:e5:3d

# Subject: CN=COMODO Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater

```

Manchester,C=GB
Not Valid Before: Fri Dec 01 00:00:00 2006
Not Valid After : Mon Dec 31 23:59:59 2029
Fingerprint (SHA-256):
0C:2C:D6:3D:F7:80:6F:A3:99:ED:E8:09:11:6B:57:5B:F8:79:89:F0:65:18:F9:80:8C:86:05:03:17:8B:AF:66
#
Fingerprint (SHA1): 66:31:BF:9E:F7:4F:9E:B6:C9:D5:A6:0C:BA:6A:BE:D1:F7:BD:EF:7B
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "COMODO Certification Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\146\061\277\236\367\117\236\266\311\325\246\014\272\152\276\321
\367\275\357\173
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\134\110\334\367\102\162\354\126\224\155\034\314\161\065\200\165
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\201\061\013\060\011\006\003\125\004\006\023\002\107\102
\061\033\060\031\006\003\125\004\010\023\022\107\162\145\141\164
\145\162\040\115\141\156\143\150\145\163\164\145\162\061\020\060
\016\006\003\125\004\007\023\007\123\141\154\146\157\162\144\061
\032\060\030\006\003\125\004\012\023\021\103\117\115\117\104\117
\040\103\101\040\114\151\155\151\164\145\144\061\047\060\045\006
\003\125\004\003\023\036\103\117\115\117\104\117\040\103\145\162
\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157
\162\151\164\171
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\020\116\201\055\212\202\145\340\013\002\356\076\065\002\106
\345\075
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Network Solutions Certificate Authority"
#
Issuer: CN=Network Solutions Certificate Authority,O=Network Solutions L.L.C.,C=US
Serial Number:57:cb:33:6f:c2:5c:16:e6:47:16:17:e3:90:31:68:e0
Subject: CN=Network Solutions Certificate Authority,O=Network Solutions L.L.C.,C=US
Not Valid Before: Fri Dec 01 00:00:00 2006
Not Valid After : Mon Dec 31 23:59:59 2029

```

```
Fingerprint (SHA-256):
15:F0:BA:00:A3:AC:7A:F3:AC:88:4C:07:2B:10:11:A0:77:BD:77:C0:97:F4:01:64:B2:F8:59:8A:BD:83:86:0C
Fingerprint (SHA1): 74:F8:A3:C3:EF:E7:B3:90:06:4B:83:90:3C:21:64:60:20:E5:DF:CE
CKA_CLASS
CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Network Solutions Certificate Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\142\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\041\060\037\006\003\125\004\012\023\030\116\145\164\167\157\162
\153\040\123\157\154\165\164\151\157\156\163\040\114\056\114\056
\103\056\061\060\060\056\006\003\125\004\003\023\047\116\145\164
\167\157\162\153\040\123\157\154\165\164\151\157\156\163\040\103
\145\162\164\151\146\151\143\141\164\145\040\101\165\164\150\157
\162\151\164\171
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\142\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\041\060\037\006\003\125\004\012\023\030\116\145\164\167\157\162
\153\040\123\157\154\165\164\151\157\156\163\040\114\056\114\056
\103\056\061\060\060\056\006\003\125\004\003\023\047\116\145\164
\167\157\162\153\040\123\157\154\165\164\151\157\156\163\040\103
\145\162\164\151\146\151\143\141\164\145\040\101\165\164\150\157
\162\151\164\171
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\020\127\313\063\157\302\134\026\346\107\026\027\343\220\061
\150\340
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\346\060\202\002\316\240\003\002\001\002\002\020\127
\313\063\157\302\134\026\346\107\026\027\343\220\061\150\340\060
\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060\142
\061\013\060\011\006\003\125\004\006\023\002\125\123\061\041\060
\037\006\003\125\004\012\023\030\116\145\164\167\157\162\153\040
\123\157\154\165\164\151\157\156\163\040\114\056\114\056\103\056
\061\060\060\056\006\003\125\004\003\023\047\116\145\164\167\157
\162\153\040\123\157\154\165\164\151\157\156\163\040\103\145\162
\164\151\146\151\143\141\164\145\040\101\165\164\150\157\162\151
\164\171\060\036\027\015\060\066\061\062\060\061\060\060\060\060
\060\060\132\027\015\062\071\061\062\063\061\062\063\065\071\065
\071\132\060\142\061\013\060\011\006\003\125\004\006\023\002\125
\123\061\041\060\037\006\003\125\004\012\023\030\116\145\164\167
```

\157\162\153\040\123\157\154\165\164\151\157\156\163\040\114\056  
\114\056\103\056\061\060\060\056\006\003\125\004\003\023\047\116  
\145\164\167\157\162\153\040\123\157\154\165\164\151\157\156\163  
\040\103\145\162\164\151\146\151\143\141\164\145\040\101\165\164  
\150\157\162\151\164\171\060\202\001\042\060\015\006\011\052\206  
\110\206\367\015\001\001\001\005\000\003\202\001\017\000\060\202  
\001\012\002\202\001\001\000\344\274\176\222\060\155\306\330\216  
\053\013\274\106\316\340\047\226\336\336\371\372\022\323\074\063  
\163\263\004\057\274\161\214\345\237\266\042\140\076\137\135\316  
\011\377\202\014\033\232\121\120\032\046\211\335\325\141\135\031  
\334\022\017\055\012\242\103\135\027\320\064\222\040\352\163\317  
\070\054\006\046\011\172\162\367\372\120\062\370\302\223\323\151  
\242\043\316\101\261\314\344\325\037\066\321\212\072\370\214\143  
\342\024\131\151\355\015\323\177\153\350\270\003\345\117\152\345  
\230\143\151\110\005\276\056\377\063\266\351\227\131\151\370\147  
\031\256\223\141\226\104\025\323\162\260\077\274\152\175\354\110  
\177\215\303\253\252\161\053\123\151\101\123\064\265\260\271\305  
\006\012\304\260\105\365\101\135\156\211\105\173\075\073\046\214  
\164\302\345\322\321\175\262\021\324\373\130\062\042\232\200\311  
\334\375\014\351\177\136\003\227\316\073\000\024\207\047\160\070  
\251\216\156\263\047\166\230\121\340\005\343\041\253\032\325\205  
\042\074\051\265\232\026\305\200\250\364\273\153\060\217\057\106  
\002\242\261\014\042\340\323\002\003\001\000\001\243\201\227\060  
\201\224\060\035\006\003\125\035\016\004\026\004\024\041\060\311  
\373\000\327\116\230\332\207\252\052\320\247\056\261\100\061\247  
\114\060\016\006\003\125\035\017\001\001\377\004\004\003\002\001  
\006\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001  
\001\377\060\122\006\003\125\035\037\004\113\060\111\060\107\240  
\105\240\103\206\101\150\164\164\160\072\057\057\143\162\154\056  
\156\145\164\163\157\154\163\163\154\056\143\157\155\057\116\145  
\164\167\157\162\153\123\157\154\165\164\151\157\156\163\103\145  
\162\164\151\146\151\143\141\164\145\101\165\164\150\157\162\151  
\164\171\056\143\162\154\060\015\006\011\052\206\110\206\367\015  
\001\001\005\005\000\003\202\001\001\000\273\256\113\347\267\127  
\353\177\252\055\267\163\107\205\152\301\344\245\035\344\347\074  
\351\364\131\145\167\265\172\133\132\215\045\066\340\172\227\056  
\070\300\127\140\203\230\006\203\237\271\166\172\156\120\340\272  
\210\054\374\105\314\030\260\231\225\121\016\354\035\270\210\377  
\207\120\034\202\302\343\340\062\200\277\240\013\107\310\303\061  
\357\231\147\062\200\117\027\041\171\014\151\134\336\136\064\256  
\002\265\046\352\120\337\177\030\145\054\311\362\143\341\251\007  
\376\174\161\037\153\063\044\152\036\005\367\005\150\300\152\022  
\313\056\136\141\313\256\050\323\176\302\264\146\221\046\137\074  
\056\044\137\313\130\017\353\050\354\257\021\226\363\334\173\157  
\300\247\210\362\123\167\263\140\136\256\256\050\332\065\054\157  
\064\105\323\046\341\336\354\133\117\047\153\026\174\275\104\004  
\030\202\263\211\171\027\020\161\075\172\242\026\116\365\001\315  
\244\154\145\150\241\111\166\134\103\311\330\274\066\147\154\245

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\224\265\324\314\271\275\152\065\126\041\336\330\303\353\373\313
\244\140\114\260\125\240\240\173\127\262
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRICT_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRICT_AFTER CK_BBOOL CK_FALSE

Trust for "Network Solutions Certificate Authority"
Issuer: CN=Network Solutions Certificate Authority,O=Network Solutions L.L.C.,C=US
Serial Number:57:cb:33:6f:c2:5c:16:e6:47:16:17:e3:90:31:68:e0
Subject: CN=Network Solutions Certificate Authority,O=Network Solutions L.L.C.,C=US
Not Valid Before: Fri Dec 01 00:00:00 2006
Not Valid After : Mon Dec 31 23:59:59 2029
Fingerprint (SHA-256):
15:F0:BA:00:A3:AC:7A:F3:AC:88:4C:07:2B:10:11:A0:77:BD:77:C0:97:F4:01:64:B2:F8:59:8A:BD:83:86:0C
#
Fingerprint (SHA1): 74:F8:A3:C3:EF:E7:B3:90:06:4B:83:90:3C:21:64:60:20:E5:DF:CE
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Network Solutions Certificate Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\164\370\243\303\357\347\263\220\006\113\203\220\074\041\144\140
\040\345\337\316
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\323\363\246\026\300\372\153\035\131\261\055\226\115\016\021\056
END
CKA_ISSUER MULTILINE_OCTAL
\060\142\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\041\060\037\006\003\125\004\012\023\030\116\145\164\167\157\162
\153\040\123\157\154\165\164\151\157\156\163\040\114\056\114\056
\103\056\061\060\060\056\006\003\125\004\003\023\047\116\145\164
\167\157\162\153\040\123\157\154\165\164\151\157\156\163\040\103
\145\162\164\151\146\151\143\141\164\145\040\101\165\164\150\157
\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\127\313\063\157\302\134\026\346\107\026\027\343\220\061
\150\340
END
CKA_TRUST_SERVER_AUTH
CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
```



```

#
Certificate "COMODO ECC Certification Authority"
#
Issuer: CN=COMODO ECC Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater
Manchester,C=GB
Serial Number:1f:47:af:aa:62:00:70:50:54:4c:01:9e:9b:63:99:2a
Subject: CN=COMODO ECC Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater
Manchester,C=GB
Not Valid Before: Thu Mar 06 00:00:00 2008
Not Valid After : Mon Jan 18 23:59:59 2038
Fingerprint (SHA-256):
17:93:92:7A:06:14:54:97:89:AD:CE:2F:8F:34:F7:F0:B6:6D:0F:3A:E3:A3:B8:4D:21:EC:15:DB:BA:4F:AD:C7
Fingerprint (SHA1): 9F:74:4E:9F:2B:4D:BA:EC:0F:31:2C:50:B6:56:3B:8E:2D:93:C3:11
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE
CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "COMODO ECC Certification Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\205\061\013\060\011\006\003\125\004\006\023\002\107\102
\061\033\060\031\006\003\125\004\010\023\022\107\162\145\141\164
\145\162\040\115\141\156\143\150\145\163\164\145\162\061\020\060
\016\006\003\125\004\007\023\007\123\141\154\146\157\162\144\061
\032\060\030\006\003\125\004\012\023\021\103\117\115\117\104\117
\040\103\101\040\114\151\155\151\164\145\144\061\053\060\051\006
\003\125\004\003\023\042\103\117\115\117\104\117\040\105\103\103
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\205\061\013\060\011\006\003\125\004\006\023\002\107\102
\061\033\060\031\006\003\125\004\010\023\022\107\162\145\141\164
\145\162\040\115\141\156\143\150\145\163\164\145\162\061\020\060
\016\006\003\125\004\007\023\007\123\141\154\146\157\162\144\061
\032\060\030\006\003\125\004\012\023\021\103\117\115\117\104\117
\040\103\101\040\114\151\155\151\164\145\144\061\053\060\051\006
\003\125\004\003\023\042\103\117\115\117\104\117\040\105\103\103
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\020\037\107\257\252\142\000\160\120\124\114\001\236\233\143
\231\052

```

END

CKA\_VALUE MULTILINE\_OCTAL

```
\060\202\002\211\060\202\002\017\240\003\002\001\002\002\020\037
\107\257\252\142\000\160\120\124\114\001\236\233\143\231\052\060
\012\006\010\052\206\110\316\075\004\003\003\060\201\205\061\013
\060\011\006\003\125\004\006\023\002\107\102\061\033\060\031\006
\003\125\004\010\023\022\107\162\145\141\164\145\162\040\115\141
\156\143\150\145\163\164\145\162\061\020\060\016\006\003\125\004
\007\023\007\123\141\154\146\157\162\144\061\032\060\030\006\003
\125\004\012\023\021\103\117\115\117\104\117\040\103\101\040\114
\151\155\151\164\145\144\061\053\060\051\006\003\125\004\003\023
\042\103\117\115\117\104\117\040\105\103\103\040\103\145\162\164
\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162
\151\164\171\060\036\027\015\060\070\060\063\060\066\060\060\060
\060\060\060\132\027\015\063\070\060\061\061\070\062\063\065\071
\065\071\132\060\201\205\061\013\060\011\006\003\125\004\006\023
\002\107\102\061\033\060\031\006\003\125\004\010\023\022\107\162
\145\141\164\145\162\040\115\141\156\143\150\145\163\164\145\162
\061\020\060\016\006\003\125\004\007\023\007\123\141\154\146\157
\162\144\061\032\060\030\006\003\125\004\012\023\021\103\117\115
\117\104\117\040\103\101\040\114\151\155\151\164\145\144\061\053
\060\051\006\003\125\004\003\023\042\103\117\115\117\104\117\040
\105\103\103\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171\060\166\060\020\006
\007\052\206\110\316\075\002\001\006\005\053\201\004\000\042\003
\142\000\004\003\107\173\057\165\311\202\025\205\373\165\344\221
\026\324\253\142\231\365\076\122\013\006\316\101\000\177\227\341
\012\044\074\035\001\004\356\075\322\215\011\227\014\340\165\344
\372\373\167\212\052\365\003\140\113\066\213\026\043\026\255\011
\161\364\112\364\050\120\264\376\210\034\156\077\154\057\057\011
\131\133\245\133\013\063\231\342\303\075\211\371\152\054\357\262
\323\006\351\243\102\060\100\060\035\006\003\125\035\016\004\026
\004\024\165\161\247\031\110\031\274\235\235\352\101\107\337\224
\304\110\167\231\323\171\060\016\006\003\125\035\017\001\001\377
\004\004\003\002\001\006\060\017\006\003\125\035\023\001\001\377
\004\005\060\003\001\001\377\060\012\006\010\052\206\110\316\075
\004\003\003\003\150\000\060\145\002\061\000\357\003\133\172\254
\267\170\012\162\267\210\337\377\265\106\024\011\012\372\240\346
\175\010\306\032\207\275\030\250\163\275\046\312\140\014\235\316
\231\237\317\134\017\060\341\276\024\061\352\002\060\024\364\223
\074\111\247\063\172\220\106\107\263\143\175\023\233\116\267\157
\030\067\200\123\376\335\040\340\065\232\066\321\307\001\271\346
\334\335\363\377\035\054\072\026\127\331\222\071\326
```

END

CKA\_NSS\_MOZILLA\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

```

Trust for "COMODO ECC Certification Authority"
Issuer: CN=COMODO ECC Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater
Manchester,C=GB
Serial Number:1f:47:af:aa:62:00:70:50:54:4c:01:9e:9b:63:99:2a
Subject: CN=COMODO ECC Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater
Manchester,C=GB
Not Valid Before: Thu Mar 06 00:00:00 2008
Not Valid After : Mon Jan 18 23:59:59 2038
Fingerprint (SHA-256):
17:93:92:7A:06:14:54:97:89:AD:CE:2F:8F:34:F7:F0:B6:6D:0F:3A:E3:A3:B8:4D:21:EC:15:DB:BA:4F:AD:C7
Fingerprint (SHA1): 9F:74:4E:9F:2B:4D:BA:EC:0F:31:2C:50:B6:56:3B:8E:2D:93:C3:11
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL
UTF8 "COMODO ECC Certification Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\237\164\116\237\053\115\272\354\017\061\054\120\266\126\073\216
\055\223\303\021
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\174\142\377\164\235\061\123\136\150\112\325\170\252\036\277\043
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\205\061\013\060\011\006\003\125\004\006\023\002\107\102
\061\033\060\031\006\003\125\004\010\023\022\107\162\145\141\164
\145\162\040\115\141\156\143\150\145\163\164\145\162\061\020\060
\016\006\003\125\004\007\023\007\123\141\154\146\157\162\144\061
\032\060\030\006\003\125\004\012\023\021\103\117\115\117\104\117
\040\103\101\040\114\151\155\151\164\145\144\061\053\060\051\006
\003\125\004\003\023\042\103\117\115\117\104\117\040\105\103\103
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\037\107\257\252\142\000\160\120\124\114\001\236\233\143
\231\052
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION
CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "OISTE WISeKey Global Root GA CA"

```

```
#
Issuer: CN=OISTE WISeKey Global Root GA CA,OU=OISTE Foundation Endorsed,OU=Copyright (c)
2005,O=WISeKey,C=CH
Serial Number:41:3d:72:c7:f4:6b:1f:81:43:7d:f1:d2:28:54:df:9a
Subject: CN=OISTE WISeKey Global Root GA CA,OU=OISTE Foundation Endorsed,OU=Copyright (c)
2005,O=WISeKey,C=CH
Not Valid Before: Sun Dec 11 16:03:44 2005
Not Valid After : Fri Dec 11 16:09:51 2037
Fingerprint (SHA-256):
41:C9:23:86:6A:B4:CA:D6:B7:AD:57:80:81:58:2E:02:07:97:A6:CB:DF:4F:FF:78:CE:83:96:B3:89:37:D7:F5
Fingerprint (SHA1): 59:22:A1:E1:5A:EA:16:35:21:F8:98:39:6A:46:46:B0:44:1B:0F:A9
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "OISTE WISeKey Global Root GA
CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\212\061\013\060\011\006\003\125\004\006\023\002\103\110
\061\020\060\016\006\003\125\004\012\023\007\127\111\123\145\113
\145\171\061\033\060\031\006\003\125\004\013\023\022\103\157\160
\171\162\151\147\150\164\040\050\143\051\040\062\060\060\065\061
\042\060\040\006\003\125\004\013\023\031\117\111\123\124\105\040
\106\157\165\156\144\141\164\151\157\156\040\105\156\144\157\162
\163\145\144\061\050\060\046\006\003\125\004\003\023\037\117\111
\123\124\105\040\127\111\123\145\113\145\171\040\107\154\157\142
\141\154\040\122\157\157\164\040\107\101\040\103\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\212\061\013\060\011\006\003\125\004\006\023\002\103\110
\061\020\060\016\006\003\125\004\012\023\007\127\111\123\145\113
\145\171\061\033\060\031\006\003\125\004\013\023\022\103\157\160
\171\162\151\147\150\164\040\050\143\051\040\062\060\060\065\061
\042\060\040\006\003\125\004\013\023\031\117\111\123\124\105\040
\106\157\165\156\144\141\164\151\157\156\040\105\156\144\157\162
\163\145\144\061\050\060\046\006\003\125\004\003\023\037\117\111
\123\124\105\040\127\111\123\145\113\145\171\040\107\154\157\142
\141\154\040\122\157\157\164\040\107\101\040\103\101
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\020\101\075\162\307\364\153\037\201\103\175\361\322\050\124
\337\232
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\361\060\202\002\331\240\003\002\001\002\002\020\101
```

\075\162\307\364\153\037\201\103\175\361\322\050\124\337\232\060  
\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060\201  
\212\061\013\060\011\006\003\125\004\006\023\002\103\110\061\020  
\060\016\006\003\125\004\012\023\007\127\111\123\145\113\145\171  
\061\033\060\031\006\003\125\004\013\023\022\103\157\160\171\162  
\151\147\150\164\040\050\143\051\040\062\060\060\065\061\042\060  
\040\006\003\125\004\013\023\031\117\111\123\124\105\040\106\157  
\165\156\144\141\164\151\157\156\040\105\156\144\157\162\163\145  
\144\061\050\060\046\006\003\125\004\003\023\037\117\111\123\124  
\105\040\127\111\123\145\113\145\171\040\107\154\157\142\141\154  
\040\122\157\157\164\040\107\101\040\103\101\060\036\027\015\060  
\065\061\062\061\061\061\066\060\063\064\064\132\027\015\063\067  
\061\062\061\061\061\066\060\071\065\061\132\060\201\212\061\013  
\060\011\006\003\125\004\006\023\002\103\110\061\020\060\016\006  
\003\125\004\012\023\007\127\111\123\145\113\145\171\061\033\060  
\031\006\003\125\004\013\023\022\103\157\160\171\162\151\147\150  
\164\040\050\143\051\040\062\060\060\065\061\042\060\040\006\003  
\125\004\013\023\031\117\111\123\124\105\040\106\157\165\156\144  
\141\164\151\157\156\040\105\156\144\157\162\163\145\144\061\050  
\060\046\006\003\125\004\003\023\037\117\111\123\124\105\040\127  
\111\123\145\113\145\171\040\107\154\157\142\141\154\040\122\157  
\157\164\040\107\101\040\103\101\060\202\001\042\060\015\006\011  
\052\206\110\206\367\015\001\001\001\005\000\003\202\001\017\000  
\060\202\001\012\002\202\001\001\000\313\117\263\000\233\075\066  
\335\371\321\111\152\153\020\111\037\354\330\053\262\306\370\062  
\201\051\103\225\114\232\031\043\041\025\105\336\343\310\034\121  
\125\133\256\223\350\067\377\053\153\351\324\352\276\052\335\250  
\121\053\327\146\303\141\134\140\002\310\365\316\162\173\073\270  
\362\116\145\010\232\315\244\152\031\301\001\273\163\246\327\366  
\303\335\315\274\244\213\265\231\141\270\001\242\243\324\115\324  
\005\075\221\255\370\264\010\161\144\257\160\361\034\153\176\366  
\303\167\235\044\163\173\344\014\214\341\331\066\341\231\213\005  
\231\013\355\105\061\011\312\302\000\333\367\162\240\226\252\225  
\207\320\216\307\266\141\163\015\166\146\214\334\033\264\143\242  
\237\177\223\023\060\361\241\047\333\331\377\054\125\210\221\240  
\340\117\007\260\050\126\214\030\033\227\104\216\211\335\340\027  
\156\347\052\357\217\071\012\061\204\202\330\100\024\111\056\172  
\101\344\247\376\343\144\314\301\131\161\113\054\041\247\133\175  
\340\035\321\056\201\233\303\330\150\367\275\226\033\254\160\261  
\026\024\013\333\140\271\046\001\005\002\003\001\000\001\243\121  
\060\117\060\013\006\003\125\035\017\004\004\003\002\001\206\060  
\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001\377  
\060\035\006\003\125\035\016\004\026\004\024\263\003\176\256\066  
\274\260\171\321\334\224\046\266\021\276\041\262\151\206\224\060  
\020\006\011\053\006\001\004\001\202\067\025\001\004\003\002\001  
\000\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000  
\003\202\001\001\000\113\241\377\013\207\156\263\371\301\103\261  
\110\363\050\300\035\056\311\011\101\372\224\000\034\244\244\253

```
\111\117\217\075\036\357\115\157\275\274\244\366\362\046\060\311
\020\312\035\210\373\164\031\037\205\105\275\260\154\121\371\066
\176\333\365\114\062\072\101\117\133\107\317\350\013\055\266\304
\031\235\164\305\107\306\073\152\017\254\024\333\074\364\163\234
\251\005\337\000\334\164\170\372\370\065\140\131\002\023\030\174
\274\373\115\260\040\155\103\273\140\060\172\147\063\134\305\231
\321\370\055\071\122\163\373\214\252\227\045\134\162\331\010\036
\253\116\074\343\201\061\237\003\246\373\300\376\051\210\125\332
\204\325\120\003\266\342\204\243\246\066\252\021\072\001\341\030
\113\326\104\150\263\075\371\123\164\204\263\106\221\106\226\000
\267\200\054\266\341\343\020\342\333\242\347\050\217\001\226\142
\026\076\000\343\034\245\066\201\030\242\114\122\166\300\021\243
\156\346\035\272\343\132\276\066\123\305\076\165\217\206\151\051
\130\123\265\234\273\157\237\134\305\030\354\335\057\341\230\311
\374\276\337\012\015
```

END

CKA\_NSS\_MOZILLA\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "OISTE WISEKey Global Root GA CA"

# Issuer: CN=OISTE WISEKey Global Root GA CA,OU=OISTE Foundation Endorsed,OU=Copyright (c)  
2005,O=WISEKey,C=CH

# Serial Number:41:3d:72:c7:f4:6b:1f:81:43:7d:f1:d2:28:54:df:9a

# Subject: CN=OISTE WISEKey Global Root GA CA,OU=OISTE Foundation Endorsed,OU=Copyright (c)  
2005,O=WISEKey,C=CH

#

Not Valid Before: Sun Dec 11 16:03:44 2005

# Not Valid After : Fri Dec 11 16:09:51 2037

# Fingerprint (SHA-256):

41:C9:23:86:6A:B4:CA:D6:B7:AD:57:80:81:58:2E:02:07:97:A6:CB:DF:4F:FF:78:CE:83:96:B3:89:37:D7:F5

# Fingerprint (SHA1): 59:22:A1:E1:5A:EA:16:35:21:F8:98:39:6A:46:46:B0:44:1B:0F:A9

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "OISTE WISEKey Global Root GA CA"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

```
\131\042\241\341\132\352\026\065\041\370\230\071\152\106\106\260
\104\033\017\251
```

END

CKA\_CERT\_MD5\_HASH MULTILINE\_OCTAL

```
\274\154\121\063\247\351\323\146\143\124\025\162\033\041\222\223
```

END

CKA\_ISSUER MULTILINE\_OCTAL

```
\060\201\212\061\013\060\011\006\003\125\004\006\023\002\103\110
\061\020\060\016\006\003\125\004\012\023\007\127\111\123\145\113
```

```
\145\171\061\033\060\031\006\003\125\004\013\023\022\103\157\160
\171\162\151\147\150\164\040\050\143\051\040\062\060\060\065\061
\042\060\040\006\003\125\004\013\023\031\117\111\123\124\105\040
\106\157\165\156\144\141\164\151\157\156\040\105\156\144\157\162
\163\145\144\061\050\060\046\006\003\125\004\003\023\037\117\111
\123\124\105\040\127\111\123\145\113\145\171\040\107\154\157\142
\141\154\040\122\157\157\164\040\107\101\040\103\101
```

END

CKA\_SERIAL\_NUMBER

MULTILINE\_OCTAL

```
\002\020\101\075\162\307\364\153\037\201\103\175\361\322\050\124
\337\232
```

END

CKA\_TRUST\_SERVER\_AUTH CK\_TRUST CKT\_NSS\_MUST\_VERIFY\_TRUST

CKA\_TRUST\_EMAIL\_PROTECTION CK\_TRUST CKT\_NSS\_TRUSTED\_DELEGATOR

CKA\_TRUST\_CODE\_SIGNING CK\_TRUST CKT\_NSS\_MUST\_VERIFY\_TRUST

CKA\_TRUST\_STEP\_UP\_APPROVED CK\_BBOOL CK\_FALSE

#

# Certificate "Certigna"

#

# Issuer: CN=Certigna,O=Dhimyotis,C=FR

# Serial Number:00:fe:dc:e3:01:0f:c9:48:ff

# Subject: CN=Certigna,O=Dhimyotis,C=FR

# Not Valid Before: Fri Jun 29 15:13:05 2007

# Not Valid After : Tue Jun 29 15:13:05 2027

# Fingerprint (SHA-256):

E3:B6:A2:DB:2E:D7:CE:48:84:2F:7A:C5:32:41:C7:B7:1D:54:14:4B:FB:40:C1:1F:3F:1D:0B:42:F5:EE:A1:2D

#

Fingerprint (SHA1): B1:2E:13:63:45:86:A4:6F:1A:B2:60:68:37:58:2D:C4:AC:FD:94:97

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_CERTIFICATE

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "Certigna"

CKA\_CERTIFICATE\_TYPE CK\_CERTIFICATE\_TYPE CKC\_X\_509

CKA\_SUBJECT MULTILINE\_OCTAL

```
\060\064\061\013\060\011\006\003\125\004\006\023\002\106\122\061
\022\060\020\006\003\125\004\012\014\011\104\150\151\155\171\157
\164\151\163\061\021\060\017\006\003\125\004\003\014\010\103\145
\162\164\151\147\156\141
```

END

CKA\_ID UTF8 "0"

CKA\_ISSUER MULTILINE\_OCTAL

```
\060\064\061\013\060\011\006\003\125\004\006\023\002\106\122\061
\022\060\020\006\003\125\004\012\014\011\104\150\151\155\171\157
\164\151\163\061\021\060\017\006\003\125\004\003\014\010\103\145
\162\164\151\147\156\141
```

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

\002\011\000\376\334\343\001\017\311\110\377

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\003\250\060\202\002\220\240\003\002\001\002\002\011\000  
\376\334\343\001\017\311\110\377\060\015\006\011\052\206\110\206  
\367\015\001\001\005\005\000\060\064\061\013\060\011\006\003\125  
\004\006\023\002\106\122\061\022\060\020\006\003\125\004\012\014  
\011\104\150\151\155\171\157\164\151\163\061\021\060\017\006\003  
\125\004\003\014\010\103\145\162\164\151\147\156\141\060\036\027  
\015\060\067\060\066\062\071\061\065\061\063\060\065\132\027\015  
\062\067\060\066\062\071\061\065\061\063\060\065\132\060\064\061  
\013\060\011\006\003\125\004\006\023\002\106\122\061\022\060\020  
\006\003\125\004\012\014\011\104\150\151\155\171\157\164\151\163  
\061\021\060\017\006\003\125\004\003\014\010\103\145\162\164\151  
\147\156\141\060\202\001\042\060\015\006\011\052\206\110\206\367  
\015\001\001\001\005\000\003\202\001\017\000\060\202\001\012\002  
\202\001\001\000\310\150\361\311\326\326\263\064\165\046\202\036  
\354\264\276\352\134\341\046\355\021\107\141\341\242\174\026\170  
\100\041\344\140\236\132\310\143\341\304\261\226\222\377\030\155  
\151\043\341\053\142\367\335\342\066\057\221\007\271\110\317\016  
\354\171\266\054\347\064\113\160\010\045\243\074\207\033\031\362  
\201\007\017\070\220\031\323\021\376\206\264\362\321\136\036\036  
\226\315\200\154\316\073\061\223\266\362\240\320\251\225\022\175  
\245\232\314\153\310\204\126\212\063\251\347\042\025\123\026\360  
\314\027\354\127\137\351\242\012\230\011\336\343\137\234\157\334  
\110\343\205\013\025\132\246\272\237\254\110\343\011\262\367\364  
\062\336\136\064\276\034\170\135\102\133\316\016\042\217\115\220  
\327\175\062\030\263\013\054\152\277\216\077\024\021\211\040\016  
\167\024\265\075\224\010\207\367\045\036\325\262\140\000\354\157  
\052\050\045\156\052\076\030\143\027\045\077\076\104\040\026\366  
\046\310\045\256\005\112\264\347\143\054\363\214\026\123\176\134  
\373\021\032\010\301\106\142\237\042\270\361\302\215\151\334\372  
\072\130\006\337\002\003\001\000\001\243\201\274\060\201\271\060  
\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001\377  
\060\035\006\003\125\035\016\004\026\004\024\032\355\376\101\071  
\220\264\044\131\276\001\362\122\325\105\366\132\071\334\021\060  
\144\006\003\125\035\043\004\135\060\133\200\024\032\355\376\101  
\071\220\264\044\131\276\001\362\122\325\105\366\132\071\334\021  
\241\070\244\066\060\064\061\013\060\011\006\003\125\004\006\023  
\002\106\122\061\022\060\020\006\003\125\004\012\014\011\104\150  
\151\155\171\157\164\151\163\061\021\060\017\006\003\125\004\003  
\014\010\103\145\162\164\151\147\156\141\202\011\000\376\334\343  
\001\017\311\110\377\060\016\006\003\125\035\017\001\001\377\004  
\004\003\002\001\006\060\021\006\011\140\206\110\001\206\370\102  
\001\001\004\004\003\002\000\007\060\015\006\011\052\206\110\206  
\367\015\001\001\005\005\000\003\202\001\001\000\205\003\036\222



```
\161\366\102\257\341\243\141\236\353\363\300\017\362\245\324\332
\225\346\326\276\150\066\075\176\156\037\114\212\357\321\017\041
\155\136\245\122\143\316\022\370\357\052\332\157\353\067\376\023
\002\307\313\073\076\042\153\332\141\056\177\324\162\075\335\060
\341\036\114\100\031\214\017\327\234\321\203\060\173\230\131\334
\175\306\271\014\051\114\241\063\242\353\147\072\145\204\323\226
\342\355\166\105\160\217\265\053\336\371\043\326\111\156\074\024
\265\306\237\065\036\120\320\301\217\152\160\104\002\142\313\256
\035\150\101\247\252\127\350\123\252\007\322\006\366\325\024\006
\013\221\003\165\054\154\162\265\141\225\232\015\213\271\015\347
\365\337\124\315\336\346\330\326\011\010\227\143\345\301\056\260
\267\104\046\300\046\300\257\125\060\236\073\325\066\052\031\004
\364\134\036\377\317\054\267\377\320\375\207\100\021\325\021\043
\273\110\300\041\251\244\050\055\375\025\370\260\116\053\364\060
\133\041\374\021\221\064\276\101\357\173\235\227\165\377\227\225
\300\226\130\057\352\273\106\327\273\344\331\056
```

END

CKA\_NSS\_Mozilla\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "Certigna"

# Issuer: CN=Certigna,O=Dhimyotis,C=FR

# Serial Number:00:fe:dc:e3:01:0f:c9:48:ff

# Subject:

CN=Certigna,O=Dhimyotis,C=FR

# Not Valid Before: Fri Jun 29 15:13:05 2007

# Not Valid After : Tue Jun 29 15:13:05 2027

# Fingerprint (SHA-256):

E3:B6:A2:DB:2E:D7:CE:48:84:2F:7A:C5:32:41:C7:B7:1D:54:14:4B:FB:40:C1:1F:3F:1D:0B:42:F5:EE:A1:2D

# Fingerprint (SHA1): B1:2E:13:63:45:86:A4:6F:1A:B2:60:68:37:58:2D:C4:AC:FD:94:97

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "Certigna"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

```
\261\056\023\143\105\206\244\157\032\262\140\150\067\130\055\304
\254\375\224\227
```

END

CKA\_CERT\_MD5\_HASH MULTILINE\_OCTAL

```
\253\127\246\133\175\102\202\031\265\330\130\046\050\136\375\377
```

END

CKA\_ISSUER MULTILINE\_OCTAL

```
\060\064\061\013\060\011\006\003\125\004\006\023\002\106\122\061
\022\060\020\006\003\125\004\012\014\011\104\150\151\155\171\157
\164\151\163\061\021\060\017\006\003\125\004\003\014\010\103\145
```

```

\162\164\151\147\156\141
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\011\000\376\334\343\001\017\311\110\377
END
CKA_TRUST_SERVER_AUTH
CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "ePKI Root Certification Authority"
#
Issuer: OU=ePKI Root Certification Authority,O="Chunghwa Telecom Co., Ltd.",C=TW
Serial Number:15:c8:bd:65:47:5c:af:b8:97:00:5e:e4:06:d2:bc:9d
Subject: OU=ePKI Root Certification Authority,O="Chunghwa Telecom Co., Ltd.",C=TW
Not Valid Before: Mon Dec 20 02:31:27 2004
Not Valid After : Wed Dec 20 02:31:27 2034
Fingerprint (SHA-256):
C0:A6:F4:DC:63:A2:4B:FD:CF:54:EF:2A:6A:08:2A:0A:72:DE:35:80:3E:2F:F5:FF:52:7A:E5:D8:72:06:DF:D5
Fingerprint (SHA1): 67:65:0D:F1:7E:8E:7E:5B:82:40:A4:F4:56:4B:CF:E2:3D:69:C6:F0
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ePKI Root Certification
Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\136\061\013\060\011\006\003\125\004\006\023\002\124\127\061
\043\060\041\006\003\125\004\012\014\032\103\150\165\156\147\150
\167\141\040\124\145\154\145\143\157\155\040\103\157\056\054\040
\114\164\144\056\061\052\060\050\006\003\125\004\013\014\041\145
\120\113\111\040\122\157\157\164\040\103\145\162\164\151\146\151
\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\136\061\013\060\011\006\003\125\004\006\023\002\124\127\061
\043\060\041\006\003\125\004\012\014\032\103\150\165\156\147\150
\167\141\040\124\145\154\145\143\157\155\040\103\157\056\054\040
\114\164\144\056\061\052\060\050\006\003\125\004\013\014\041\145
\120\113\111\040\122\157\157\164\040\103\145\162\164\151\146\151
\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\025\310\275\145\107\134\257\270\227\000\136\344\006\322

```

\274\235

END

CKA\_VALUE

MULTILINE\_OCTAL

\060\202\005\260\060\202\003\230\240\003\002\001\002\002\020\025  
\310\275\145\107\134\257\270\227\000\136\344\006\322\274\235\060  
\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060\136  
\061\013\060\011\006\003\125\004\006\023\002\124\127\061\043\060  
\041\006\003\125\004\012\014\032\103\150\165\156\147\150\167\141  
\040\124\145\154\145\143\157\155\040\103\157\056\054\040\114\164  
\144\056\061\052\060\050\006\003\125\004\013\014\041\145\120\113  
\111\040\122\157\157\164\040\103\145\162\164\151\146\151\143\141  
\164\151\157\156\040\101\165\164\150\157\162\151\164\171\060\036  
\027\015\060\064\061\062\062\060\060\062\063\061\062\067\132\027  
\015\063\064\061\062\062\060\060\062\063\061\062\067\132\060\136  
\061\013\060\011\006\003\125\004\006\023\002\124\127\061\043\060  
\041\006\003\125\004\012\014\032\103\150\165\156\147\150\167\141  
\040\124\145\154\145\143\157\155\040\103\157\056\054\040\114\164  
\144\056\061\052\060\050\006\003\125\004\013\014\041\145\120\113  
\111\040\122\157\157\164\040\103\145\162\164\151\146\151\143\141  
\164\151\157\156\040\101\165\164\150\157\162\151\164\171\060\202  
\002\042\060\015\006\011\052\206\110\206\367\015\001\001\001\005  
\000\003\202\002\017\000\060\202\002\012\002\202\002\001\000\341  
\045\017\356\215\333\210\063\165\147\315\255\037\175\072\116\155  
\235\323\057\024\363\143\164\313\001\041\152\067\352\204\120\007  
\113\046\133\011\103\154\041\236\152\310\325\003\365\140\151\217  
\314\360\042\344\037\347\367\152\042\061\267\054\025\362\340\376  
\000\152\103\377\207\145\306\265\032\301\247\114\155\042\160\041  
\212\061\362\227\164\211\011\022\046\034\236\312\331\022\242\225  
\074\332\351\147\277\010\240\144\343\326\102\267\105\357\227\364  
\366\365\327\265\112\025\002\130\175\230\130\113\140\274\315\327  
\015\232\023\063\123\321\141\371\172\325\327\170\263\232\063\367  
\000\206\316\035\115\224\070\257\250\354\170\121\160\212\134\020  
\203\121\041\367\021\075\064\206\136\345\110\315\227\201\202\065  
\114\031\354\145\366\153\305\005\241\356\107\023\326\263\041\047  
\224\020\012\331\044\073\272\276\104\023\106\060\077\227\074\330  
\327\327\152\356\073\070\343\053\324\227\016\271\033\347\007\111  
\177\067\052\371\167\170\317\124\355\133\106\235\243\200\016\221  
\103\301\326\133\137\024\272\237\246\215\044\107\100\131\277\162  
\070\262\066\154\067\377\231\321\135\016\131\012\253\151\367\300  
\262\004\105\172\124\000\256\276\123\366\265\347\341\370\074\243  
\061\322\251\376\041\122\144\305\246\147\360\165\007\006\224\024  
\201\125\306\047\344\001\217\027\301\152\161\327\276\113\373\224  
\130\175\176\021\063\261\102\367\142\154\030\326\317\011\150\076  
\177\154\366\036\217\142\255\245\143\333\011\247\037\042\102\101  
\036\157\231\212\076\327\371\077\100\172\171\260\245\001\222\322  
\235\075\010\025\245\020\001\055\263\062\166\250\225\015\263\172  
\232\373\007\020\170\021\157\341\217\307\272\017\045\032\164\052

\345\034\230\101\231\337\041\207\350\225\006\152\012\263\152\107  
\166\145\366\072\317\217\142\027\031\173\012\050\315\032\322\203  
\036\041\307\054\277\276\377\141\150\267\147\033\273\170\115\215  
\316\147\345\344\301\216\267\043\146\342\235\220\165\064\230\251  
\066\053\212\232\224\271\235\354\314\212\261\370\045\211\134\132  
\266\057\214\037\155\171\044\247\122\150\303\204\065\342\146\215  
\143\016\045\115\325\031\262\346\171\067\247\042\235\124\061\002  
\003\001\000\001\243\152\060\150\060\035\006\003\125\035\016\004  
\026\004\024\036\014\367\266\147\362\341\222\046\011\105\300\125  
\071\056\167\077\102\112\242\060\014\006\003\125\035\023\004\005  
\060\003\001\001\377\060\071\006\004\147\052\007\000\004\061\060  
\057\060\055\002\001\000\060\011\006\005\053\016\003\002\032\005  
\000\060\007\006\005\147\052\003\000\000\004\024\105\260\302\307  
\012\126\174\356\133\170\014\225\371\030\123\301\246\034\330\020  
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\003  
\202\002\001\000\011\263\203\123\131\001\076\225\111\271\361\201  
\272\371\166\040\043\265\047\140\164\324\152\231\064\136\154\000  
\123\331\237\362\246\261\044\007\104\152\052\306\245\216\170\022  
\350\107\331\130\033\023\052\136\171\233\237\012\052\147\246\045  
\077\006\151\126\163\303\212\146\110\373\051\201\127\164\006\312  
\234\352\050\350\070\147\046\053\361\325\265\077\145\223\370\066  
\135\216\215\215\100\040\207\031\352\357\047\300\075\264\071\017  
\045\173\150\120\164\125\234\014\131\175\132\075\101\224\045\122  
\010\340\107\054\025\061\031\325\277\007\125\306\273\022\265\227  
\364\137\203\205\272\161\301\331\154\201\021\166\012\012\260\277  
\202\227\367\352\075\372\372\354\055\251\050\224\073\126\335\322  
\121\056\256\300\275\010\025\214\167\122\064\226\326\233\254\323  
\035\216\141\017\065\173\233\256\071\151\013\142\140\100\040\066  
\217\257\373\066\356\055\010\112\035\270\277\233\134\370\352\245  
\033\240\163\246\330\370\156\340\063\004\137\150\252\047\207\355  
\331\301\220\234\355\275\343\152\065\257\143\337\253\030\331\272  
\346\351\112\352\120\212\017\141\223\036\342\055\031\342\060\224  
\065\222\135\016\266\007\257\031\200\217\107\220\121\113\056\115  
\335\205\342\322\012\122\012\027\232\374\032\260\120\002\345\001  
\243\143\067\041\114\104\304\233\121\231\021\016\163\234\006\217  
\124\056\247\050\136\104\071\207\126\055\067\275\205\104\224\341  
\014\113\054\234\303\222\205\064\141\313\017\270\233\112\103\122  
\376\064\072\175\270\351\051\334\166\251\310\060\370\024\161\200  
\306\036\066\110\164\042\101\134\207\202\350\030\161\213\101\211  
\104\347\176\130\133\250\270\215\023\351\247\154\303\107\355\263  
\032\235\142\256\215\202\352\224\236\335\131\020\303\255\335\342  
\115\343\061\325\307\354\350\362\260\376\222\036\026\012\032\374  
\331\363\370\047\266\311\276\035\264\154\144\220\177\364\344\304  
\133\327\067\256\102\016\335\244\032\157\174\210\124\305\026\156  
\341\172\150\056\370\072\277\015\244\074\211\073\170\247\116\143  
\203\004\041\010\147\215\362\202\111\320\133\375\261\315\017\203  
\204\324\076\040\205\367\112\075\053\234\375\052\012\011\115\352  
\201\370\021\234

```

END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRICT_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRICT_AFTER CK_BBOOL CK_FALSE

Trust for "ePKI Root Certification Authority"
Issuer: OU=ePKI Root Certification Authority,O="Chunghwa Telecom Co., Ltd.",C=TW
Serial Number:15:c8:bd:65:47:5c:af:b8:97:00:5e:e4:06:d2:bc:9d
Subject: OU=ePKI Root Certification Authority,O="Chunghwa Telecom Co., Ltd.",C=TW
Not Valid Before: Mon Dec 20 02:31:27 2004
Not Valid After : Wed Dec 20 02:31:27 2034
Fingerprint (SHA-256):
C0:A6:F4:DC:63:A2:4B:FD:CF:54:EF:2A:6A:08:2A:0A:72:DE:35:80:3E:2F:F5:FF:52:7A:E5:D8:72:06:DF:D5
Fingerprint (SHA1): 67:65:0D:F1:7E:8E:7E:5B:82:40:A4:F4:56:4B:CF:E2:3D:69:C6:F0
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ePKI Root Certification Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\147\145\015\361\176\216\176\133\202\100\244\364\126\113\317\342
\075\151\306\360
END
CKA_CERT_MD5_HASH
MULTILINE_OCTAL
\033\056\000\312\046\006\220\075\255\376\157\025\150\323\153\263
END
CKA_ISSUER MULTILINE_OCTAL
\060\136\061\013\060\011\006\003\125\004\006\023\002\124\127\061
\043\060\041\006\003\125\004\012\014\032\103\150\165\156\147\150
\167\141\040\124\145\154\145\143\157\155\040\103\157\056\054\040
\114\164\144\056\061\052\060\050\006\003\125\004\013\014\041\145
\120\113\111\040\122\157\157\164\040\103\145\162\164\151\146\151
\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\025\310\275\145\107\134\257\270\227\000\136\344\006\322
\274\235
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "certSIGN ROOT CA"
#

```

```
Issuer: OU=certSIGN ROOT CA,O=certSIGN,C=RO
Serial Number:20:06:05:16:70:02
Subject:
 OU=certSIGN ROOT CA,O=certSIGN,C=RO
Not Valid Before: Tue Jul 04 17:20:04 2006
Not Valid After : Fri Jul 04 17:20:04 2031
Fingerprint (SHA-256):
EA:A9:62:C4:FA:4A:6B:AF:EB:E4:15:19:6D:35:1C:CD:88:8D:4F:53:F3:FA:8A:E6:D7:C4:66:A9:4E:60:42:BB
Fingerprint (SHA1): FA:B7:EE:36:97:26:62:FB:2D:B0:2A:F6:BF:03:FD:E8:7C:4B:2F:9B
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "certSIGN ROOT CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\073\061\013\060\011\006\003\125\004\006\023\002\122\117\061
\021\060\017\006\003\125\004\012\023\010\143\145\162\164\123\111
\107\116\061\031\060\027\006\003\125\004\013\023\020\143\145\162
\164\123\111\107\116\040\122\117\117\124\040\103\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\073\061\013\060\011\006\003\125\004\006\023\002\122\117\061
\021\060\017\006\003\125\004\012\023\010\143\145\162\164\123\111
\107\116\061\031\060\027\006\003\125\004\013\023\020\143\145\162
\164\123\111\107\116\040\122\117\117\124\040\103\101
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\006\040\006\005\026\160\002
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\070\060\202\002\040\240\003\002\001\002\002\006\040
\006\005\026\160\002\060\015\006\011\052\206\110\206\367\015\001
\001\005\005\000\060\073\061\013\060\011\006\003\125\004\006\023
\002\122\117\061\021\060\017\006\003\125\004\012\023\010\143\145
\162\164\123\111\107\116\061\031\060\027\006\003\125\004\013\023
\020\143\145\162\164\123\111\107\116\040\122\117\117\124\040\103
\101\060\036\027\015\060\066\060\067\060\064\061\067\062\060\060
\064\132\027\015\063\061\060\067\060\064\061\067\062\060\060\064
\132\060\073\061\013\060\011\006\003\125\004\006\023\002\122\117
\061\021\060\017\006\003\125\004\012\023\010\143\145\162\164\123
\111\107\116\061\031\060\027\006\003\125\004\013\023\020\143\145
\162\164\123\111\107\116\040\122\117\117\124\040\103\101\060\202
\001\042\060\015\006\011\052\206\110\206\367\015\001\001\001\005
\000\003\202\001\017\000\060\202\001\012\002\202\001\001\000\267
\063\271\176\310\045\112\216\265\333\264\050\033\252\127\220\350
```

\321\042\323\144\272\323\223\350\324\254\206\141\100\152\140\127  
\150\124\204\115\274\152\124\002\005\377\337\233\232\052\256\135  
\007\217\112\303\050\177\357\373\053\372\171\361\307\255\360\020  
\123\044\220\213\146\311\250\210\253\257\132\243\000\351\276\272  
\106\356\133\163\173\054\027\202\201\136\142\054\241\002\145\263  
\275\305\053\000\176\304\374\003\063\127\015\355\342\372\316\135  
\105\326\070\315\065\266\262\301\320\234\201\112\252\344\262\001  
\134\035\217\137\231\304\261\255\333\210\041\353\220\010\202\200  
\363\060\243\103\346\220\202\256\125\050\111\355\133\327\251\020  
\070\016\376\217\114\133\233\106\352\101\365\260\010\164\303\320  
\210\063\266\174\327\164\337\334\204\321\103\016\165\071\241\045  
\100\050\352\170\313\016\054\056\071\235\214\213\156\026\034\057  
\046\202\020\342\343\145\224\012\004\300\136\367\135\133\370\020  
\342\320\272\172\113\373\336\067\000\000\032\133\050\343\322\234  
\163\076\062\207\230\241\311\121\057\327\336\254\063\263\117\002  
\003\001\000\001\243\102\060\100\060\017\006\003\125\035\023\001  
\001\377\004\005\060\003\001\001\377\060\016\006\003\125\035\017  
\001\001\377\004\004\003\002\001\306\060\035\006\003\125\035\016  
\004\026\004\024\340\214\233\333\045\111\263\361\174\206\326\262  
\102\207\013\320\153\240\331\344\060\015\006\011\052\206\110\206  
\367\015\001\001\005\005\000\003\202\001\001\000\076\322\034\211  
\056\065\374\370\165\335\346\177\145\210\364\162\114\311\054\327  
\062\116\363\335\031\171\107\275\216\073\133\223\017\120\111\044  
\023\153\024\006\162\357\011\323\241\241\343\100\204\311\347\030  
\062\164\074\110\156\017\237\113\324\367\036\323\223\206\144\124  
\227\143\162\120\325\125\317\372\040\223\002\242\233\303\043\223  
\116\026\125\166\240\160\171\155\315\041\037\317\057\055\274\031  
\343\210\061\370\131\032\201\011\310\227\246\164\307\140\304\133  
\314\127\216\262\165\375\033\002\011\333\131\157\162\223\151\367  
\061\101\326\210\070\277\207\262\275\026\171\371\252\344\276\210  
\045\335\141\047\043\034\265\061\007\004\066\264\032\220\275\240  
\164\161\120\211\155\274\024\343\017\206\256\361\253\076\307\240  
\011\314\243\110\321\340\333\144\347\222\265\317\257\162\103\160  
\213\371\303\204\074\023\252\176\222\233\127\123\223\372\160\302  
\221\016\061\371\233\147\135\351\226\070\136\137\263\163\116\210  
\025\147\336\236\166\020\142\040\276\125\151\225\103\000\071\115  
\366\356\260\132\116\111\104\124\130\137\102\203

END

CKA\_NSS\_MOZILLA\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRUST\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRUST\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "certSIGN ROOT CA"

# Issuer: OU=certSIGN ROOT CA,O=certSIGN,C=RO

# Serial Number:20:06:05:16:70:02

# Subject: OU=certSIGN ROOT CA,O=certSIGN,C=RO

# Not Valid Before: Tue Jul 04 17:20:04 2006

```
Not Valid After : Fri Jul 04 17:20:04 2031
Fingerprint (SHA-256):
EA:A9:62:C4:FA:4A:6B:AF:EB:E4:15:19:6D:35:1C:CD:88:8D:4F:53:F3:FA:8A:E6:D7:C4:66:A9:4E:60:42:BB
Fingerprint (SHA1): FA:B7:EE:36:97:26:62:FB:2D:B0:2A:F6:BF:03:FD:E8:7C:4B:2F:9B
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "certSIGN ROOT CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\372\267\356\066\227\046\142\373\055\260\052\366\277\003\375\350
\174\113\057\233
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\030\230\300\326\351\072\374\371\260\365\014\367\113\001\104\027
END
CKA_ISSUER MULTILINE_OCTAL
\060\073\061\013\060\011\006\003\125\004\006\023\002\122\117\061
\021\060\017\006\003\125\004\012\023\010\143\145\162\164\123\111
\107\116\061\031\060\027\006\003\125\004\013\023\020\143\145\162
\164\123\111\107\116\040\122\117\117\124\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\006\040\006\005\026\160\002
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION
CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "NetLock Arany (Class Gold) Ftanúsítvány"
#
Issuer: CN=NetLock Arany (Class Gold) F..tan..s..tv..ny,OU=Tan..s..tv..nykiad..k (Certification
Services),O=NetLock Kft.,L=Budapest,C=HU
Serial Number:49:41:2c:e4:00:10
Subject: CN=NetLock Arany (Class Gold) F..tan..s..tv..ny,OU=Tan..s..tv..nykiad..k (Certification
Services),O=NetLock Kft.,L=Budapest,C=HU
Not Valid Before: Thu Dec 11 15:08:21 2008
Not Valid After : Wed Dec 06 15:08:21 2028
Fingerprint (SHA-256):
6C:61:DA:C3:A2:DE:F0:31:50:6B:E0:36:D2:A6:FE:40:19:94:FB:D1:3D:F9:C8:D4:66:59:92:74:C4:46:EC:98
Fingerprint (SHA1): 06:08:3F:59:3F:15:A1:04:A0:69:A4:6B:A9:03:D0:06:B7:97:09:91
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
```



```
CKA_LABEL UTF8 "NetLock Arany (Class Gold) Ftanúsítvány"
CKA_CERTIFICATE_TYPE
CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\247\061\013\060\011\006\003\125\004\006\023\002\110\125
\061\021\060\017\006\003\125\004\007\014\010\102\165\144\141\160
\145\163\164\061\025\060\023\006\003\125\004\012\014\014\116\145
\164\114\157\143\153\040\113\146\164\056\061\067\060\065\006\003
\125\004\013\014\056\124\141\156\303\272\163\303\255\164\166\303
\241\156\171\153\151\141\144\303\263\153\040\050\103\145\162\164
\151\146\151\143\141\164\151\157\156\040\123\145\162\166\151\143
\145\163\051\061\065\060\063\006\003\125\004\003\014\054\116\145
\164\114\157\143\153\040\101\162\141\156\171\040\050\103\154\141
\163\163\040\107\157\154\144\051\040\106\305\221\164\141\156\303
\272\163\303\255\164\166\303\241\156\171
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\247\061\013\060\011\006\003\125\004\006\023\002\110\125
\061\021\060\017\006\003\125\004\007\014\010\102\165\144\141\160
\145\163\164\061\025\060\023\006\003\125\004\012\014\014\116\145
\164\114\157\143\153\040\113\146\164\056\061\067\060\065\006\003
\125\004\013\014\056\124\141\156\303\272\163\303\255\164\166\303
\241\156\171\153\151\141\144\303\263\153\040\050\103\145\162\164
\151\146\151\143\141\164\151\157\156\040\123\145\162\166\151\143
\145\163\051\061\065\060\063\006\003\125\004\003\014\054\116\145
\164\114\157\143\153\040\101\162\141\156\171\040\050\103\154\141
\163\163\040\107\157\154\144\051\040\106\305\221\164\141\156\303
\272\163\303\255\164\166\303\241\156\171
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\006\111\101\054\344\000\020
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\025\060\202\002\375\240\003\002\001\002\002\006\111
\101\054\344\000\020\060\015\006\011\052\206\110\206\367\015\001
\001\013\005\000\060\201\247\061\013\060\011\006\003\125\004\006
\023\002\110\125\061\021\060\017\006\003\125\004\007\014\010\102
\165\144\141\160\145\163\164\061\025\060\023\006\003\125\004\012
\014\014\116\145\164\114\157\143\153\040\113\146\164\056\061\067
\060\065\006\003\125\004\013\014\056\124\141\156\303\272\163\303
\255\164\166\303\241\156\171\153\151\141\144\303\263\153\040\050
\103\145\162\164\151\146\151\143\141\164\151\157\156\040\123\145
\162\166\151\143\145\163\051\061\065\060\063\006\003\125\004\003
\014\054\116\145\164\114\157\143\153\040\101\162\141\156\171\040
\050\103\154\141\163\163\040\107\157\154\144\051\040\106\305\221
\164\141\156\303\272\163\303\255\164\166\303\241\156\171\060\036
```

\027\015\060\070\061\062\061\061\061\065\060\070\062\061\132\027  
\015\062\070\061\062\060\066\061\065\060\070\062\061\132\060\201  
\247\061\013\060\011\006\003\125\004\006\023\002\110\125\061\021  
\060\017\006\003\125\004\007\014\010\102\165\144\141\160\145\163  
\164\061\025\060\023\006\003\125\004\012\014\014\116\145\164\114  
\157\143\153\040\113\146\164\056\061\067\060\065\006\003\125\004  
\013\014\056\124\141\156\303\272\163\303\255\164\166\303\241\156  
\171\153\151\141\144\303\263\153\040\050\103\145\162\164\151\146  
\151\143\141\164\151\157\156\040\123\145\162\166\151\143\145\163  
\051\061\065\060\063\006\003\125\004\003\014\054\116\145\164\114  
\157\143\153\040\101\162\141\156\171\040\050\103\154\141\163\163  
\040\107\157\154\144\051\040\106\305\221\164\141\156\303\272\163  
\303\255\164\166\303\241\156\171\060\202\001\042\060\015\006\011  
\052\206\110\206\367\015\001\001\001\005\000\003\202\001\017\000  
\060\202\001\012\002\202\001\001\000\304\044\136\163\276\113\155  
\024\303\241\364\343\227\220\156\322\060\105\036\074\356\147\331  
\144\340\032\212\177\312\060\312\203\343\040\301\343\364\072\323  
\224\137\032\174\133\155\277\060\117\204\047\366\237\037\111\274  
\306\231\012\220\362\017\365\177\103\204\067\143\121\213\172\245  
\160\374\172\130\315\216\233\355\303\106\154\204\160\135\332\363  
\001\220\043\374\116\060\251\176\341\047\143\347\355\144\074\240  
\270\311\063\143\376\026\220\377\260\270\375\327\250\300\300\224  
\103\013\266\325\131\246\236\126\320\044\037\160\171\257\333\071  
\124\015\145\165\331\025\101\224\001\257\136\354\366\215\361\377  
\255\144\376\040\232\327\134\353\376\246\037\010\144\243\213\166  
\125\255\036\073\050\140\056\207\045\350\252\257\037\306\144\106  
\040\267\160\177\074\336\110\333\226\123\267\071\167\344\032\342  
\307\026\204\166\227\133\057\273\031\025\205\370\151\205\365\231  
\247\251\362\064\247\251\266\246\003\374\157\206\075\124\174\166  
\004\233\153\371\100\135\000\064\307\056\231\165\235\345\210\003  
\252\115\370\003\322\102\166\300\033\002\003\000\250\213\243\105  
\060\103\060\022\006\003\125\035\023\001\001\377\004\010\060\006  
\001\001\377\002\001\004\060\016\006\003\125\035\017\001\001\377  
\004\004\003\002\001\006\060\035\006\003\125\035\016\004\026\004  
\024\314\372\147\223\360\266\270\320\245\300\036\363\123\375\214  
\123\337\203\327\226\060\015\006\011\052\206\110\206\367\015\001  
\001\013\005\000\003\202\001\001\000\253\177\356\034\026\251\234  
\074\121\000\240\300\021\010\005\247\231\346\157\001\210\124\141  
\156\361\271\030\255\112\255\376\201\100\043\224\057\373\165\174  
\057\050\113\142\044\201\202\013\365\141\361\034\156\270\141\070  
\353\201\372\142\241\073\132\142\323\224\145\304\341\346\155\202  
\370\057\045\160\262\041\046\301\162\121\037\214\054\303\204\220  
\303\132\217\272\317\364\247\145\245\353\230\321\373\005\262\106  
\165\025\043\152\157\205\143\060\200\360\325\236\037\051\034\302  
\154\260\120\131\135\220\133\073\250\015\060\317\277\175\177\316  
\361\235\203\275\311\106\156\040\246\371\141\121\272\041\057\173  
\276\245\025\143\241\324\225\207\361\236\271\363\211\363\075\205  
\270\270\333\276\265\271\051\371\332\067\005\000\111\224\003\204

```
\104\347\277\103\061\317\165\213\045\321\364\246\144\365\222\366
\253\005\353\075\351\245\013\066\142\332\314\006\137\066\213\266
\136\061\270\052\373\136\366\161\337\104\046\236\304\346\015\221
\264\056\165\225\200\121\152\113\060\246\260\142\241\223\361\233
\330\316\304\143\165\077\131\107\261
```

END

CKA\_NSS\_Mozilla\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRUST\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRUST\_AFTER CK\_BBOOL

CK\_FALSE

# Trust for "NetLock Arany (Class Gold) Ftanúsítvány"

# Issuer: CN=NetLock Arany (Class Gold) F.tan..s..tv..ny,OU=Tan..s..tv..nykiad..k (Certification Services),O=NetLock Kft.,L=Budapest,C=HU

# Serial Number:49:41:2c:e4:00:10

# Subject: CN=NetLock Arany (Class Gold) F.tan..s..tv..ny,OU=Tan..s..tv..nykiad..k (Certification Services),O=NetLock Kft.,L=Budapest,C=HU

# Not Valid Before: Thu Dec 11 15:08:21 2008

# Not Valid After : Wed Dec 06 15:08:21 2028

# Fingerprint (SHA-256):

6C:61:DA:C3:A2:DE:F0:31:50:6B:E0:36:D2:A6:FE:40:19:94:FB:D1:3D:F9:C8:D4:66:59:92:74:C4:46:EC:98

# Fingerprint (SHA1): 06:08:3F:59:3F:15:A1:04:A0:69:A4:6B:A9:03:D0:06:B7:97:09:91

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "NetLock Arany (Class Gold) Ftanúsítvány"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

```
\006\010\077\131\077\025\241\004\240\151\244\153\251\003\320\006
\267\227\011\221
```

END

CKA\_CERT\_MD5\_HASH

MULTILINE\_OCTAL

```
\305\241\267\377\163\335\326\327\064\062\030\337\374\074\255\210
```

END

CKA\_ISSUER MULTILINE\_OCTAL

```
\060\201\247\061\013\060\011\006\003\125\004\006\023\002\110\125
\061\021\060\017\006\003\125\004\007\014\010\102\165\144\141\160
\145\163\164\061\025\060\023\006\003\125\004\012\014\014\116\145
\164\114\157\143\153\040\113\146\164\056\061\067\060\065\006\003
\125\004\013\014\056\124\141\156\303\272\163\303\255\164\166\303
\241\156\171\153\151\141\144\303\263\153\040\050\103\145\162\164
\151\146\151\143\141\164\151\157\156\040\123\145\162\166\151\143
\145\163\051\061\065\060\063\006\003\125\004\003\014\054\116\145
\164\114\157\143\153\040\101\162\141\156\171\040\050\103\154\141
\163\163\040\107\157\154\144\051\040\106\305\221\164\141\156\303
\272\163\303\255\164\166\303\241\156\171
```

```

END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\006\111\101\054\344\000\020
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING
CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Hongkong Post Root CA 1"
#
Issuer: CN=Hongkong Post Root CA 1,O=Hongkong Post,C=HK
Serial Number: 1000 (0x3e8)
Subject: CN=Hongkong Post Root CA 1,O=Hongkong Post,C=HK
Not Valid Before: Thu May 15 05:13:14 2003
Not Valid After : Mon May 15 04:52:29 2023
Fingerprint (SHA-256):
F9:E6:7D:33:6C:51:00:2A:C0:54:C6:32:02:2D:66:DD:A2:E7:E3:FF:F1:0A:D0:61:ED:31:D8:BB:B4:10:CF:B2
Fingerprint (SHA1): D6:DA:A8:20:8D:09:D2:15:4D:24:B5:2F:CB:34:6E:B2:58:B2:8A:58
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Hongkong Post Root CA 1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\107\061\013\060\011\006\003\125\004\006\023\002\110\113\061
\026\060\024\006\003\125\004\012\023\015\110\157\156\147\153\157
\156\147\040\120\157\163\164\061\040\060\036\006\003\125\004\003
\023\027\110\157\156\147\153\157\156\147\040\120\157\163\164\040
\122\157\157\164\040\103\101\040\061
END
CKA_ID
UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\107\061\013\060\011\006\003\125\004\006\023\002\110\113\061
\026\060\024\006\003\125\004\012\023\015\110\157\156\147\153\157
\156\147\040\120\157\163\164\061\040\060\036\006\003\125\004\003
\023\027\110\157\156\147\153\157\156\147\040\120\157\163\164\040
\122\157\157\164\040\103\101\040\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\002\003\350
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\060\060\202\002\030\240\003\002\001\002\002\002\003

```

\350\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000  
\060\107\061\013\060\011\006\003\125\004\006\023\002\110\113\061  
\026\060\024\006\003\125\004\012\023\015\110\157\156\147\153\157  
\156\147\040\120\157\163\164\061\040\060\036\006\003\125\004\003  
\023\027\110\157\156\147\153\157\156\147\040\120\157\163\164\040  
\122\157\157\164\040\103\101\040\061\060\036\027\015\060\063\060  
\065\061\065\060\065\061\063\061\064\132\027\015\062\063\060\065  
\061\065\060\064\065\062\062\071\132\060\107\061\013\060\011\006  
\003\125\004\006\023\002\110\113\061\026\060\024\006\003\125\004  
\012\023\015\110\157\156\147\153\157\156\147\040\120\157\163\164  
\061\040\060\036\006\003\125\004\003\023\027\110\157\156\147\153  
\157\156\147\040\120\157\163\164\040\122\157\157\164\040\103\101  
\040\061\060\202\001\042\060\015\006\011\052\206\110\206\367\015  
\001\001\001\005\000\003\202\001\017\000\060\202\001\012\002\202  
\001\001\000\254\377\070\266\351\146\002\111\343\242\264\341\220  
\371\100\217\171\371\342\275\171\376\002\275\356\044\222\035\042  
\366\332\205\162\151\376\327\077\011\324\335\221\265\002\234\320  
\215\132\341\125\303\120\206\271\051\046\302\343\331\240\361\151  
\003\050\040\200\105\042\055\126\247\073\124\225\126\042\131\037  
\050\337\037\040\075\155\242\066\276\043\240\261\156\265\261\047  
\077\071\123\011\352\253\152\350\164\262\302\145\134\216\277\174  
\303\170\204\315\236\026\374\365\056\117\040\052\010\237\167\363  
\305\036\304\232\122\146\036\110\136\343\020\006\217\042\230\341  
\145\216\033\135\043\146\073\270\245\062\121\310\206\252\241\251  
\236\177\166\224\302\246\154\267\101\360\325\310\006\070\346\324  
\014\342\363\073\114\155\120\214\304\203\047\301\023\204\131\075  
\236\165\164\266\330\002\136\072\220\172\300\102\066\162\354\152  
\115\334\357\304\000\337\023\030\127\137\046\170\310\326\012\171  
\167\277\367\257\267\166\271\245\013\204\027\135\020\352\157\341  
\253\225\021\137\155\074\243\134\115\203\133\362\263\031\212\200  
\213\013\207\002\003\001\000\001\243\046\060\044\060\022\006\003  
\125\035\023\001\001\377\004\010\060\006\001\001\377\002\001\003  
\060\016\006\003\125\035\017\001\001\377\004\004\003\002\001\306  
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\003  
\202\001\001\000\016\106\325\074\256\342\207\331\136\201\213\002  
\230\101\010\214\114\274\332\333\356\047\033\202\347\152\105\354  
\026\213\117\205\240\363\262\160\275\132\226\272\312\156\155\356  
\106\213\156\347\052\056\226\263\031\063\353\264\237\250\262\067  
\356\230\250\227\266\056\266\147\047\324\246\111\375\034\223\145  
\166\236\102\057\334\042\154\232\117\362\132\025\071\261\161\327  
\053\121\350\155\034\230\300\331\052\364\241\202\173\325\311\101  
\242\043\001\164\070\125\213\017\271\056\147\242\040\004\067\332  
\234\013\323\027\041\340\217\227\171\064\157\204\110\002\040\063  
\033\346\064\104\237\221\160\364\200\136\204\103\302\051\322\154  
\022\024\344\141\215\254\020\220\236\204\120\273\360\226\157\105  
\237\212\363\312\154\117\372\021\072\025\025\106\303\315\037\203  
\133\055\101\022\355\120\147\101\023\075\041\253\224\212\252\116  
\174\301\261\373\247\326\265\047\057\227\253\156\340\035\342\321

```
\034\054\037\104\342\374\276\221\241\234\373\326\051\123\163\206
\237\123\330\103\016\135\326\143\202\161\035\200\164\312\366\342
\002\153\331\132
```

END

CKA\_NSS\_Mozilla\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER

CK\_BBOOL CK\_FALSE

# Trust for "Hongkong Post Root CA 1"

# Issuer: CN=Hongkong Post Root CA 1,O=Hongkong Post,C=HK

# Serial Number: 1000 (0x3e8)

# Subject: CN=Hongkong Post Root CA 1,O=Hongkong Post,C=HK

# Not Valid Before: Thu May 15 05:13:14 2003

# Not Valid After : Mon May 15 04:52:29 2023

# Fingerprint (SHA-256):

F9:E6:7D:33:6C:51:00:2A:C0:54:C6:32:02:2D:66:DD:A2:E7:E3:FF:F1:0A:D0:61:ED:31:D8:BB:B4:10:CF:B2

# Fingerprint (SHA1): D6:DA:A8:20:8D:09:D2:15:4D:24:B5:2F:CB:34:6E:B2:58:B2:8A:58

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "Hongkong Post Root CA 1"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

```
\326\332\250\040\215\011\322\025\115\044\265\057\313\064\156\262
\130\262\212\130
```

END

CKA\_CERT\_MD5\_HASH MULTILINE\_OCTAL

```
\250\015\157\071\170\271\103\155\167\102\155\230\132\314\043\312
```

END

CKA\_ISSUER MULTILINE\_OCTAL

```
\060\107\061\013\060\011\006\003\125\004\006\023\002\110\113\061
\026\060\024\006\003\125\004\012\023\015\110\157\156\147\153\157
\156\147\040\120\157\163\164\061\040\060\036\006\003\125\004\003
\023\027\110\157\156\147\153\157\156\147\040\120\157\163\164\040
\122\157\157\164\040\103\101\040\061
```

END

CKA\_SERIAL\_NUMBER

MULTILINE\_OCTAL

```
\002\002\003\350
```

END

CKA\_TRUST\_SERVER\_AUTH CK\_TRUST CKT\_NSS\_TRUSTED\_DELEGATOR

CKA\_TRUST\_EMAIL\_PROTECTION CK\_TRUST CKT\_NSS\_MUST\_VERIFY\_TRUST

CKA\_TRUST\_CODE\_SIGNING CK\_TRUST CKT\_NSS\_MUST\_VERIFY\_TRUST

CKA\_TRUST\_STEP\_UP\_APPROVED CK\_BBOOL CK\_FALSE

#

```
Certificate "SecureSign RootCA11"
#
Issuer: CN=SecureSign RootCA11,O="Japan Certification Services, Inc.",C=JP
Serial Number: 1 (0x1)
Subject: CN=SecureSign RootCA11,O="Japan Certification Services, Inc.",C=JP
Not Valid Before: Wed Apr 08 04:56:47 2009
Not Valid After : Sun Apr 08 04:56:47 2029
Fingerprint (SHA-256):
BF:0F:EE:FB:9E:3A:58:1A:D5:F9:E9:DB:75:89:98:57:43:D2:61:08:5C:4D:31:4F:6F:5D:72:59:AA:42:16:12
Fingerprint (SHA1): 3B:C4:9F:48:F8:F3:73:A0:9C:1E:BD:F8:5B:B1:C3:65:C7:D8:11:B3
CKA_CLASS
CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SecureSign RootCA11"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\130\061\013\060\011\006\003\125\004\006\023\002\112\120\061
\053\060\051\006\003\125\004\012\023\042\112\141\160\141\156\040
\103\145\162\164\151\146\151\143\141\164\151\157\156\040\123\145
\162\166\151\143\145\163\054\040\111\156\143\056\061\034\060\032
\006\003\125\004\003\023\023\123\145\143\165\162\145\123\151\147
\156\040\122\157\157\164\103\101\061\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\130\061\013\060\011\006\003\125\004\006\023\002\112\120\061
\053\060\051\006\003\125\004\012\023\042\112\141\160\141\156\040
\103\145\162\164\151\146\151\143\141\164\151\157\156\040\123\145
\162\166\151\143\145\163\054\040\111\156\143\056\061\034\060\032
\006\003\125\004\003\023\023\123\145\143\165\162\145\123\151\147
\156\040\122\157\157\164\103\101\061\061
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\001\001
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\155\060\202\002\125\240\003\002\001\002\002\001\001
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060
\130\061\013\060\011\006\003\125\004\006\023\002\112\120\061\053
\060\051\006\003\125\004\012\023\042\112\141\160\141\156\040\103
\145\162\164\151\146\151\143\141\164\151\157\156\040\123\145\162
\166\151\143\145\163\054\040\111\156\143\056\061\034\060\032\006
\003\125\004\003\023\023\123\145\143\165\162\145\123\151\147\156
\040\122\157\157\164\103\101\061\061\060\036\027\015\060\071\060
\064\060\070\060\064\065\066\064\067\132\027\015\062\071\060\064
```

\060\070\060\064\065\066\064\067\132\060\130\061\013\060\011\006  
\003\125\004\006\023\002\112\120\061\053\060\051\006\003\125\004  
\012\023\042\112\141\160\141\156\040\103\145\162\164\151\146\151  
\143\141\164\151\157\156\040\123\145\162\166\151\143\145\163\054  
\040\111\156\143\056\061\034\060\032\006\003\125\004\003\023\023  
\123\145\143\165\162\145\123\151\147\156\040\122\157\157\164\103  
\101\061\061\060\202\001\042\060\015\006\011\052\206\110\206\367  
\015\001\001\001\005\000\003\202\001\017\000\060\202\001\012\002  
\202\001\001\000\375\167\252\245\034\220\005\073\313\114\233\063  
\213\132\024\105\244\347\220\026\321\337\127\322\041\020\244\027  
\375\337\254\326\037\247\344\333\174\367\354\337\270\003\332\224  
\130\375\135\162\174\214\077\137\001\147\164\025\226\343\002\074  
\207\333\256\313\001\216\302\363\146\306\205\105\364\002\306\072  
\265\142\262\257\372\234\277\244\346\324\200\060\230\363\015\266  
\223\217\251\324\330\066\362\260\374\212\312\054\241\025\063\225  
\061\332\300\033\362\356\142\231\206\143\077\277\335\223\052\203  
\250\166\271\023\037\267\316\116\102\205\217\042\347\056\032\362  
\225\011\262\005\265\104\116\167\241\040\275\251\362\116\012\175  
\120\255\365\005\015\105\117\106\161\375\050\076\123\373\004\330  
\055\327\145\035\112\033\372\317\073\260\061\232\065\156\310\213  
\006\323\000\221\362\224\010\145\114\261\064\006\000\172\211\342  
\360\307\003\131\317\325\326\350\247\062\263\346\230\100\206\305  
\315\047\022\213\314\173\316\267\021\074\142\140\007\043\076\053  
\100\156\224\200\011\155\266\263\157\167\157\065\010\120\373\002  
\207\305\076\211\002\003\001\000\001\243\102\060\100\060\035\006  
\003\125\035\016\004\026\004\024\133\370\115\117\262\245\206\324  
\072\322\361\143\232\240\276\011\366\127\267\336\060\016\006\003  
\125\035\017\001\001\377\004\004\003\002\001\006\060\017\006\003  
\125\035\023\001\001\377\004\005\060\003\001\001\377\060\015\006  
\011\052\206\110\206\367\015\001\001\005\005\000\003\202\001\001  
\000\240\241\070\026\146\056\247\126\037\041\234\006\372\035\355  
\271\042\305\070\046\330\116\117\354\243\177\171\336\106\041\241  
\207\167\217\007\010\232\262\244\305\257\017\062\230\013\174\146  
\051\266\233\175\045\122\111\103\253\114\056\053\156\172\160\257  
\026\016\343\002\154\373\102\346\030\235\105\330\125\310\350\073  
\335\347\341\364\056\013\034\064\134\154\130\112\373\214\210\120  
\137\225\034\277\355\253\042\265\145\263\205\272\236\017\270\255  
\345\172\033\212\120\072\035\275\015\274\173\124\120\013\271\102  
\257\125\240\030\201\255\145\231\357\276\344\234\277\304\205\253  
\101\262\124\157\334\045\315\355\170\342\216\014\215\011\111\335  
\143\173\132\151\226\002\041\250\275\122\131\351\175\065\313\310  
\122\312\177\201\376\331\153\323\367\021\355\045\337\370\347\371  
\244\372\162\227\204\123\015\245\320\062\030\121\166\131\024\154  
\017\353\354\137\200\214\165\103\203\303\205\230\377\114\236\055  
\015\344\167\203\223\116\265\226\007\213\050\023\233\214\031\215  
\101\047\111\100\356\336\346\043\104\071\334\241\042\326\272\003  
\362  
END



```

CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "SecureSign RootCA11"
Issuer: CN=SecureSign RootCA11,O="Japan Certification Services, Inc.",C=JP
Serial Number: 1 (0x1)
#
Subject: CN=SecureSign RootCA11,O="Japan Certification Services, Inc.",C=JP
Not Valid Before: Wed Apr 08 04:56:47 2009
Not Valid After : Sun Apr 08 04:56:47 2029
Fingerprint (SHA-256):
BF:0F:EE:FB:9E:3A:58:1A:D5:F9:E9:DB:75:89:98:57:43:D2:61:08:5C:4D:31:4F:6F:5D:72:59:AA:42:16:12
Fingerprint (SHA1): 3B:C4:9F:48:F8:F3:73:A0:9C:1E:BD:F8:5B:B1:C3:65:C7:D8:11:B3
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SecureSign RootCA11"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\073\304\237\110\370\363\163\240\234\036\275\370\133\261\303\145
\307\330\021\263
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\267\122\164\342\222\264\200\223\362\165\344\314\327\362\352\046
END
CKA_ISSUER MULTILINE_OCTAL
\060\130\061\013\060\011\006\003\125\004\006\023\002\112\120\061
\053\060\051\006\003\125\004\012\023\042\112\141\160\141\156\040
\103\145\162\164\151\146\151\143\141\164\151\157\156\040\123\145
\162\166\151\143\145\163\054\040\111\156\143\056\061\034\060\032
\006\003\125\004\003\023\023\123\145\143\165\162\145\123\151\147
\156\040\122\157\157\164\103\101\061\061
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\001\001
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Microsec e-Szigno Root CA 2009"
#
Issuer: E=info@e-szigno.hu,CN=Microsec e-Szigno Root CA 2009,O=Microsec Ltd.,L=Budapest,C=HU

```

```
Serial Number:00:c2:7e:43:04:4e:47:3f:19
Subject: E=info@e-szigno.hu,CN=Microsec e-Szigno Root CA 2009,O=Microsec Ltd.,L=Budapest,C=HU
Not Valid Before: Tue Jun 16 11:30:18 2009
Not Valid After : Sun Dec 30 11:30:18 2029
Fingerprint (SHA-256):
3C:5F:81:FE:A5:FA:B8:2C:64:BF:A2:EA:EC:AF:CD:E8:E0:77:FC:86:20:A7:CA:E5:37:16:3D:F3:6E:DB:F3:78
Fingerprint (SHA1): 89:DF:74:FE:5C:F4:0F:4A:80:F9:E3:37:7D:54:DA:91:E1:01:31:8E
CKA_CLASS
CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Microsec e-Szigno Root CA 2009"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\202\061\013\060\011\006\003\125\004\006\023\002\110\125
\061\021\060\017\006\003\125\004\007\014\010\102\165\144\141\160
\145\163\164\061\026\060\024\006\003\125\004\012\014\015\115\151
\143\162\157\163\145\143\040\114\164\144\056\061\047\060\045\006
\003\125\004\003\014\036\115\151\143\162\157\163\145\143\040\145
\055\123\172\151\147\156\157\040\122\157\157\164\040\103\101\040
\062\060\060\071\061\037\060\035\006\011\052\206\110\206\367\015
\001\011\001\026\020\151\156\146\157\100\145\055\163\172\151\147
\156\157\056\150\165
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\202\061\013\060\011\006\003\125\004\006\023\002\110\125
\061\021\060\017\006\003\125\004\007\014\010\102\165\144\141\160
\145\163\164\061\026\060\024\006\003\125\004\012\014\015\115\151
\143\162\157\163\145\143\040\114\164\144\056\061\047\060\045\006
\003\125\004\003\014\036\115\151\143\162\157\163\145\143\040\145
\055\123\172\151\147\156\157\040\122\157\157\164\040\103\101\040
\062\060\060\071\061\037\060\035\006\011\052\206\110\206\367\015
\001\011\001\026\020\151\156\146\157\100\145\055\163\172\151\147
\156\157\056\150\165
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\011\000\302\176\103\004\116\107\077\031
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\012\060\202\002\362\240\003\002\001\002\002\011\000
\302\176\103\004\116\107\077\031\060\015\006\011\052\206\110\206
\367\015\001\001\013\005\000\060\201\202\061\013\060\011\006\003
\125\004\006\023\002\110\125\061\021\060\017\006\003\125\004\007
\014\010\102\165\144\141\160\145\163\164\061\026\060\024\006\003
\125\004\012\014\015\115\151\143\162\157\163\145\143\040\114\164
```

\144\056\061\047\060\045\006\003\125\004\003\014\036\115\151\143  
\162\157\163\145\143\040\145\055\123\172\151\147\156\157\040\122  
\157\157\164\040\103\101\040\062\060\060\071\061\037\060\035\006  
\011\052\206\110\206\367\015\001\011\001\026\020\151\156\146\157  
\100\145\055\163\172\151\147\156\157\056\150\165\060\036\027\015  
\060\071\060\066\061\066\061\061\063\060\061\070\132\027\015\062  
\071\061\062\063\060\061\061\063\060\061\070\132\060\201\202\061  
\013\060\011\006\003\125\004\006\023\002\110\125\061\021\060\017  
\006\003\125\004\007\014\010\102\165\144\141\160\145\163\164\061  
\026\060\024\006\003\125\004\012\014\015\115\151\143\162\157\163  
\145\143\040\114\164\144\056\061\047\060\045\006\003\125\004\003  
\014\036\115\151\143\162\157\163\145\143\040\145\055\123\172\151  
\147\156\157\040\122\157\157\164\040\103\101\040\062\060\060\071  
\061\037\060\035\006\011\052\206\110\206\367\015\001\011\001\026  
\020\151\156\146\157\100\145\055\163\172\151\147\156\157\056\150  
\165\060\202\001\042\060\015\006\011\052\206\110\206\367\015\001  
\001\001\005\000\003\202\001\017\000\060\202\001\012\002\202\001  
\001\000\351\370\217\363\143\255\332\206\330\247\340\102\373\317  
\221\336\246\046\370\231\245\143\160\255\233\256\312\063\100\175  
\155\226\156\241\016\104\356\341\023\235\224\102\122\232\275\165  
\205\164\054\250\016\035\223\266\030\267\214\054\250\317\373\134  
\161\271\332\354\376\350\176\217\344\057\035\262\250\165\207\330  
\267\241\345\073\317\231\112\106\320\203\031\175\300\241\022\034  
\225\155\112\364\330\307\245\115\063\056\205\071\100\165\176\024  
\174\200\022\230\120\307\101\147\270\240\200\141\124\246\154\116  
\037\340\235\016\007\351\311\272\063\347\376\300\125\050\054\002  
\200\247\031\365\236\334\125\123\003\227\173\007\110\377\231\373  
\067\212\044\304\131\314\120\020\143\216\252\251\032\260\204\032  
\206\371\137\273\261\120\156\244\321\012\314\325\161\176\037\247  
\033\174\365\123\156\042\137\313\053\346\324\174\135\256\326\302  
\306\114\345\005\001\331\355\127\374\301\043\171\374\372\310\044  
\203\225\363\265\152\121\001\320\167\326\351\022\241\371\032\203  
\373\202\033\271\260\227\364\166\006\063\103\111\240\377\013\265  
\372\265\002\003\001\000\001\243\201\200\060\176\060\017\006\003  
\125\035\023\001\001\377\004\005\060\003\001\001\377\060\016\006  
\003\125\035\017\001\001\377\004\004\003\002\001\006\060\035\006  
\003\125\035\016\004\026\004\024\313\017\306\337\102\103\314\075  
\313\265\110\043\241\032\172\246\052\273\064\150\060\037\006\003  
\125\035\043\004\030\060\026\200\024\313\017\306\337\102\103\314  
\075\313\265\110\043\241\032\172\246\052\273\064\150\060\033\006  
\003\125\035\021\004\024\060\022\201\020\151\156\146\157\100\145  
\055\163\172\151\147\156\157\056\150\165\060\015\006\011\052\206  
\110\206\367\015\001\001\013\005\000\003\202\001\001\000\311\321  
\016\136\056\325\314\263\174\076\313\374\075\377\015\050\225\223  
\004\310\277\332\315\171\270\103\220\360\244\276\357\362\357\041  
\230\274\324\324\135\006\366\356\102\354\060\154\240\252\251\312  
\361\257\212\372\077\013\163\152\076\352\056\100\176\037\256\124  
\141\171\353\056\010\067\327\043\363\214\237\276\035\261\341\244

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\165\333\240\342\124\024\261\272\034\051\244\030\366\022\272\242
\024\024\343\061\065\310\100\377\267\340\005\166\127\301\034\131
\362\370\277\344\355\045\142\134\204\360\176\176\037\263\276\371
\267\041\021\314\003\001\126\160\247\020\222\036\033\064\201\036
\255\234\032\303\004\074\355\002\141\326\036\006\363\137\072\207
\362\053\361\105\207\345\075\254\321\307\127\204\275\153\256\334
\330\371\266\033\142\160\013\075\066\311\102\362\062\327\172\141
\346\322\333\075\317\310\251\311\233\334\333\130\104\327\157\070
\257\177\170\323\243\255\032\165\272\034\301\066\174\217\036\155
\034\303\165\106\256\065\005\246\366\134\075\041\356\126\360\311
\202\042\055\172\124\253\160\303\175\042\145\202\160\226
```

END

CKA\_NSS\_Mozilla\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "Microsec e-Szigno Root CA 2009"

# Issuer: E=info@e-szigno.hu,CN=Microsec e-Szigno Root CA 2009,O=Microsec Ltd.,L=Budapest,C=HU

#

Serial Number:00:c2:7e:43:04:4e:47:3f:19

# Subject: E=info@e-szigno.hu,CN=Microsec e-Szigno Root CA 2009,O=Microsec Ltd.,L=Budapest,C=HU

# Not Valid Before: Tue Jun 16 11:30:18 2009

# Not Valid After : Sun Dec 30 11:30:18 2029

# Fingerprint (SHA-256):

3C:5F:81:FE:A5:FA:B8:2C:64:BF:A2:EA:EC:AF:CD:E8:E0:77:FC:86:20:A7:CA:E5:37:16:3D:F3:6E:DB:F3:78

# Fingerprint (SHA1): 89:DF:74:FE:5C:F4:0F:4A:80:F9:E3:37:7D:54:DA:91:E1:01:31:8E

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "Microsec e-Szigno Root CA 2009"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

```
\211\337\164\376\134\364\017\112\200\371\343\067\175\124\332\221
\341\001\061\216
```

END

CKA\_CERT\_MD5\_HASH MULTILINE\_OCTAL

```
\370\111\364\003\274\104\055\203\276\110\151\175\051\144\374\261
```

END

CKA\_ISSUER MULTILINE\_OCTAL

```
\060\201\202\061\013\060\011\006\003\125\004\006\023\002\110\125
\061\021\060\017\006\003\125\004\007\014\010\102\165\144\141\160
\145\163\164\061\026\060\024\006\003\125\004\012\014\015\115\151
\143\162\157\163\145\143\040\114\164\144\056\061\047\060\045\006
\003\125\004\003\014\036\115\151\143\162\157\163\145\143\040\145
\055\123\172\151\147\156\157\040\122\157\157\164\040\103\101\040
\062\060\060\071\061\037\060\035\006\011\052\206\110\206\367\015
\001\011\001\026\020\151\156\146\157\100\145\055\163\172\151\147
```

```

\156\157\056\150\165
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\011\000\302\176\103\004\116\107\077\031
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "GlobalSign Root CA - R3"
#
Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R3
Serial Number:04:00:00:00:00:01:21:58:53:08:a2
Subject: CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R3
Not Valid Before: Wed Mar 18 10:00:00 2009
Not Valid
 After : Sun Mar 18 10:00:00 2029
Fingerprint (SHA-256):
CB:B5:22:D7:B7:F1:27:AD:6A:01:13:86:5B:DF:1C:D4:10:2E:7D:07:59:AF:63:5A:7C:F4:72:0D:C9:63:C5:3B
Fingerprint (SHA1): D6:9B:56:11:48:F0:1C:77:C5:45:78:C1:09:26:DF:5B:85:69:76:AD
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign Root CA - R3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\114\061\040\060\036\006\003\125\004\013\023\027\107\154\157
\142\141\154\123\151\147\156\040\122\157\157\164\040\103\101\040
\055\040\122\063\061\023\060\021\006\003\125\004\012\023\012\107
\154\157\142\141\154\123\151\147\156\061\023\060\021\006\003\125
\004\003\023\012\107\154\157\142\141\154\123\151\147\156
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\114\061\040\060\036\006\003\125\004\013\023\027\107\154\157
\142\141\154\123\151\147\156\040\122\157\157\164\040\103\101\040
\055\040\122\063\061\023\060\021\006\003\125\004\012\023\012\107
\154\157\142\141\154\123\151\147\156\061\023\060\021\006\003\125
\004\003\023\012\107\154\157\142\141\154\123\151\147\156
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\013\004\000\000\000\000\001\041\130\123\010\242
END

```

CKA\_VALUE MULTILINE\_OCTAL

\060\202\003\137\060\202\002\107\240\003\002\001\002\002\013\004  
\000\000\000\000\001\041\130\123\010\242\060\015\006\011\052\206  
\110\206\367\015\001\001\013\005\000\060\114\061\040\060\036\006  
\003\125\004\013\023\027\107\154\157\142\141\154\123\151\147\156  
\040\122\157\157\164\040\103\101\040\055\040\122\063\061\023\060  
\021\006\003\125\004\012\023\012\107\154\157\142\141\154\123\151  
\147\156\061\023\060\021\006\003\125\004\003\023\012\107\154\157  
\142\141\154\123\151\147\156\060\036\027\015\060\071\060\063\061  
\070\061\060\060\060\060\060\132\027\015\062\071\060\063\061\070  
\061\060\060\060\060\060\132\060\114\061\040\060\036\006\003\125  
\004\013\023\027\107\154\157\142\141\154\123\151\147\156\040\122  
\157\157\164\040\103\101\040\055\040\122\063\061\023\060\021\006  
\003\125\004\012\023\012\107\154\157\142\141\154\123\151\147\156  
\061\023\060\021\006\003\125\004\003\023\012\107\154\157\142\141  
\154\123\151\147\156\060\202\001\042\060\015\006\011\052\206\110  
\206\367\015\001\001\001\005\000\003\202\001\017\000\060\202\001  
\012\002\202\001\001\000\314\045\166\220\171\006\170\042\026\365  
\300\203\266\204\312\050\236\375\005\166\021\305\255\210\162\374  
\106\002\103\307\262\212\235\004\137\044\313\056\113\341\140\202  
\106\341\122\253\014\201\107\160\154\335\144\321\353\365\054\243  
\017\202\075\014\053\256\227\327\266\024\206\020\171\273\073\023  
\200\167\214\010\341\111\322\152\142\057\037\136\372\226\150\337  
\211\047\225\070\237\006\327\076\311\313\046\131\015\163\336\260  
\310\351\046\016\203\025\306\357\133\213\322\004\140\312\111\246  
\050\366\151\073\366\313\310\050\221\345\235\212\141\127\067\254  
\164\024\334\164\340\072\356\162\057\056\234\373\320\273\277\365  
\075\000\341\006\063\350\202\053\256\123\246\072\026\163\214\335  
\101\016\040\072\300\264\247\241\351\262\117\220\056\062\140\351  
\127\313\271\004\222\150\150\345\070\046\140\165\262\237\167\377  
\221\024\357\256\040\111\374\255\100\025\110\321\002\061\141\031  
\136\270\227\357\255\167\267\144\232\172\277\137\301\023\357\233  
\142\373\015\154\340\124\151\026\251\003\332\156\351\203\223\161  
\166\306\151\205\202\027\002\003\001\000\001\243\102\060\100\060  
\016\006\003\125\035\017\001\001\377\004\004\003\002\001\006\060  
\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001\377  
\060\035\006\003\125\035\016\004\026\004\024\217\360\113\177\250  
\056\105\044\256\115\120\372\143\232\213\336\342\335\033\274\060  
\015\006\011\052\206\110\206\367\015\001\001\013\005\000\003\202  
\001\001\000\113\100\333\300\120\252\376\310\014\357\367\226\124  
\105\111\273\226\000\011\101\254\263\023\206\206\050\007\063\312  
\153\346\164\271\272\000\055\256\244\012\323\365\361\361\017\212  
\277\163\147\112\203\307\104\173\170\340\257\156\154\157\003\051  
\216\063\071\105\303\216\344\271\127\154\252\374\022\226\354\123  
\306\055\344\044\154\271\224\143\373\334\123\150\147\126\076\203  
\270\317\065\041\303\311\150\376\316\332\302\123\252\314\220\212  
\351\360\135\106\214\225\335\172\130\050\032\057\035\336\315\000  
\067\101\217\355\104\155\327\123\050\227\176\363\147\004\036\025

```
\327\212\226\264\323\336\114\047\244\114\033\163\163\166\364\027
\231\302\037\172\016\343\055\010\255\012\034\054\377\074\253\125
\016\017\221\176\066\353\303\127\111\276\341\056\055\174\140\213
\303\101\121\023\043\235\316\367\062\153\224\001\250\231\347\054
\063\037\072\073\045\322\206\100\316\073\054\206\170\311\141\057
\024\272\356\333\125\157\337\204\356\005\011\115\275\050\330\162
\316\323\142\120\145\036\353\222\227\203\061\331\263\265\312\107
\130\077\137
```

END

CKA\_NSS\_MOZILLA\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "GlobalSign Root CA - R3"

#

Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R3

# Serial Number:04:00:00:00:00:01:21:58:53:08:a2

# Subject: CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R3

# Not Valid Before: Wed Mar 18 10:00:00 2009

# Not Valid After : Sun Mar 18 10:00:00 2029

# Fingerprint (SHA-256):

CB:B5:22:D7:B7:F1:27:AD:6A:01:13:86:5B:DF:1C:D4:10:2E:7D:07:59:AF:63:5A:7C:F4:72:0D:C9:63:C5:3B

# Fingerprint (SHA1): D6:9B:56:11:48:F0:1C:77:C5:45:78:C1:09:26:DF:5B:85:69:76:AD

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "GlobalSign Root CA - R3"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

```
\326\233\126\021\110\360\034\167\305\105\170\301\011\046\337\133
\205\151\166\255
```

END

CKA\_CERT\_MD5\_HASH MULTILINE\_OCTAL

```
\305\337\270\111\312\005\023\125\356\055\272\032\303\076\260\050
```

END

CKA\_ISSUER MULTILINE\_OCTAL

```
\060\114\061\040\060\036\006\003\125\004\013\023\027\107\154\157
\142\141\154\123\151\147\156\040\122\157\157\164\040\103\101\040
\055\040\122\063\061\023\060\021\006\003\125\004\012\023\012\107
\154\157\142\141\154\123\151\147\156\061\023\060\021\006\003\125
\004\003\023\012\107\154\157\142\141\154\123\151\147\156
```

END

CKA\_SERIAL\_NUMBER

MULTILINE\_OCTAL

```
\002\013\004\000\000\000\000\001\041\130\123\010\242
```

END

CKA\_TRUST\_SERVER\_AUTH CK\_TRUST CKT\_NSS\_TRUSTED\_DELEGATOR

```
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
```

```
#
```

```
Certificate "Autoridad de Certificacion Firmaprofesional CIF A62634068"
```

```
#
```

```
Issuer: CN=Autoridad de Certificacion Firmaprofesional CIF A62634068,C=ES
```

```
Serial Number:53:ec:3b:ee:fb:b2:48:5f
```

```
Subject: CN=Autoridad de Certificacion Firmaprofesional CIF A62634068,C=ES
```

```
Not Valid Before: Wed May 20 08:38:15 2009
```

```
Not Valid After : Tue Dec 31 08:38:15 2030
```

```
Fingerprint (SHA-256):
```

```
04:04:80:28:BF:1F:28:64:D4:8F:9A:D4:D8:32:94:36:6A:82:88:56:55:3F:3B:14:30:3F:90:14:7F:5D:40:EF
```

```
#
```

```
Fingerprint (SHA1): AE:C5:FB:3F:C8:E1:BF:C4:E5:4F:03:07:5A:9A:E8:00:B7:F7:B6:FA
```

```
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
```

```
CKA_TOKEN CK_BBOOL CK_TRUE
```

```
CKA_PRIVATE CK_BBOOL CK_FALSE
```

```
CKA_MODIFIABLE CK_BBOOL CK_FALSE
```

```
CKA_LABEL UTF8 "Autoridad de Certificacion Firmaprofesional CIF A62634068"
```

```
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
```

```
CKA_SUBJECT MULTILINE_OCTAL
```

```
\060\121\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\102\060\100\006\003\125\004\003\014\071\101\165\164\157\162\151
\144\141\144\040\144\145\040\103\145\162\164\151\146\151\143\141
\143\151\157\156\040\106\151\162\155\141\160\162\157\146\145\163
\151\157\156\141\154\040\103\111\106\040\101\066\062\066\063\064
\060\066\070
```

```
END
```

```
CKA_ID UTF8 "0"
```

```
CKA_ISSUER MULTILINE_OCTAL
```

```
\060\121\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\102\060\100\006\003\125\004\003\014\071\101\165\164\157\162\151
\144\141\144\040\144\145\040\103\145\162\164\151\146\151\143\141
\143\151\157\156\040\106\151\162\155\141\160\162\157\146\145\163
\151\157\156\141\154\040\103\111\106\040\101\066\062\066\063\064
\060\066\070
```

```
END
```

```
CKA_SERIAL_NUMBER
```

```
MULTILINE_OCTAL
```

```
\002\010\123\354\073\356\373\262\110\137
```

```
END
```

```
CKA_VALUE MULTILINE_OCTAL
```

```
\060\202\006\024\060\202\003\374\240\003\002\001\002\002\010\123
\354\073\356\373\262\110\137\060\015\006\011\052\206\110\206\367
\015\001\001\005\005\000\060\121\061\013\060\011\006\003\125\004
\006\023\002\105\123\061\102\060\100\006\003\125\004\003\014\071
```



\101\165\164\157\162\151\144\141\144\040\144\145\040\103\145\162  
\164\151\146\151\143\141\143\151\157\156\040\106\151\162\155\141  
\160\162\157\146\145\163\151\157\156\141\154\040\103\111\106\040  
\101\066\062\066\063\064\060\066\070\060\036\027\015\060\071\060  
\065\062\060\060\070\063\070\061\065\132\027\015\063\060\061\062  
\063\061\060\070\063\070\061\065\132\060\121\061\013\060\011\006  
\003\125\004\006\023\002\105\123\061\102\060\100\006\003\125\004  
\003\014\071\101\165\164\157\162\151\144\141\144\040\144\145\040  
\103\145\162\164\151\146\151\143\141\143\151\157\156\040\106\151  
\162\155\141\160\162\157\146\145\163\151\157\156\141\154\040\103  
\111\106\040\101\066\062\066\063\064\060\066\070\060\202\002\042  
\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003  
\202\002\017\000\060\202\002\012\002\202\002\001\000\312\226\153  
\216\352\370\373\361\242\065\340\177\114\332\340\303\122\327\175  
\266\020\310\002\136\263\103\052\304\117\152\262\312\034\135\050  
\232\170\021\032\151\131\127\257\265\040\102\344\213\017\346\337  
\133\246\003\222\057\365\021\344\142\327\062\161\070\331\004\014  
\161\253\075\121\176\017\007\337\143\005\134\351\277\224\157\301  
\051\202\300\264\332\121\260\301\074\273\255\067\112\134\312\361  
\113\066\016\044\253\277\303\204\167\375\250\120\364\261\347\306  
\057\322\055\131\215\172\012\116\226\151\122\002\252\066\230\354  
\374\372\024\203\014\067\037\311\222\067\177\327\201\055\345\304  
\271\340\076\064\376\147\364\076\146\321\323\364\100\317\136\142  
\064\017\160\006\076\040\030\132\316\367\162\033\045\154\223\164  
\024\223\243\163\261\016\252\207\020\043\131\137\040\005\031\107  
\355\150\216\222\022\312\135\374\326\053\262\222\074\040\317\341  
\137\257\040\276\240\166\177\166\345\354\032\206\141\063\076\347  
\173\264\077\240\017\216\242\271\152\157\271\207\046\157\101\154  
\210\246\120\375\152\143\013\365\223\026\033\031\217\262\355\233  
\233\311\220\365\001\014\337\031\075\017\076\070\043\311\057\217  
\014\321\002\376\033\125\326\116\320\215\074\257\117\244\363\376  
\257\052\323\005\235\171\010\241\313\127\061\264\234\310\220\262  
\147\364\030\026\223\072\374\107\330\321\170\226\061\037\272\053  
\014\137\135\231\255\143\211\132\044\040\166\330\337\375\253\116  
\246\042\252\235\136\346\047\212\175\150\051\243\347\212\270\332  
\021\273\027\055\231\235\023\044\106\367\305\342\330\237\216\177  
\307\217\164\155\132\262\350\162\365\254\356\044\020\255\057\024  
\332\377\055\232\106\161\107\276\102\337\273\001\333\364\177\323  
\050\217\061\131\133\323\311\002\246\264\122\312\156\227\373\103  
\305\010\046\157\212\364\273\375\237\050\252\015\325\105\363\023  
\072\035\330\300\170\217\101\147\074\036\224\144\256\173\013\305  
\350\331\001\210\071\032\227\206\144\101\325\073\207\014\156\372  
\017\306\275\110\024\277\071\115\324\236\101\266\217\226\035\143  
\226\223\331\225\006\170\061\150\236\067\006\073\200\211\105\141  
\071\043\307\033\104\243\025\345\034\370\222\060\273\002\003\001  
\000\001\243\201\357\060\201\354\060\022\006\003\125\035\023\001  
\001\377\004\010\060\006\001\001\377\002\001\001\060\016\006\003  
\125\035\017\001\001\377\004\004\003\002\001\006\060\035\006\003

\125\035\016\004\026\004\024\145\315\353\253\065\036\000\076\176  
\325\164\300\034\264\163\107\016\032\144\057\060\201\246\006\003  
\125\035\040\004\201\236\060\201\233\060\201\230\006\004\125\035  
\040\000\060\201\217\060\057\006\010\053\006\001\005\005\007\002  
\001\026\043\150\164\164\160\072\057\057\167\167\167\056\146\151  
\162\155\141\160\162\157\146\145\163\151\157\156\141\154\056\143  
\157\155\057\143\160\163\060\134\006\010\053\006\001\005\005\007  
\002\002\060\120\036\116\000\120\000\141\000\163\000\145\000\157  
\000\040\000\144\000\145\000\040\000\154\000\141\000\040\000\102  
\000\157\000\156\000\141\000\156\000\157\000\166\000\141\000\040  
\000\064\000\067\000\040\000\102\000\141\000\162\000\143\000\145  
\000\154\000\157\000\156\000\141\000\040\000\060\000\070\000\060  
\000\061\000\067\060\015\006\011\052\206\110\206\367\015\001\001  
\005\005\000\003\202\002\001\000\027\175\240\371\264\335\305\305  
\353\255\113\044\265\241\002\253\335\245\210\112\262\017\125\113  
\053\127\214\073\345\061\335\376\304\062\361\347\133\144\226\066  
\062\030\354\245\062\167\327\343\104\266\300\021\052\200\271\075  
\152\156\174\233\323\255\374\303\326\243\346\144\051\174\321\341  
\070\036\202\053\377\047\145\257\373\026\025\304\056\161\204\345  
\265\377\372\244\107\275\144\062\273\366\045\204\242\047\102\365  
\040\260\302\023\020\021\315\020\025\272\102\220\052\322\104\341  
\226\046\353\061\110\022\375\052\332\311\006\317\164\036\251\113  
\325\207\050\371\171\064\222\076\056\104\350\366\217\117\217\065  
\077\045\263\071\334\143\052\220\153\040\137\304\122\022\116\227  
\054\052\254\235\227\336\110\362\243\146\333\302\322\203\225\246  
\146\247\236\045\017\351\013\063\221\145\012\132\303\331\124\022  
\335\257\303\116\016\037\046\136\015\334\263\215\354\325\201\160  
\336\322\117\044\005\363\154\116\365\114\111\146\215\321\377\322  
\013\045\101\110\376\121\204\306\102\257\200\004\317\320\176\144  
\111\344\362\337\242\354\261\114\300\052\035\347\264\261\145\242  
\304\274\361\230\364\252\160\007\143\264\270\332\073\114\372\100  
\042\060\133\021\246\360\005\016\306\002\003\110\253\206\233\205  
\335\333\335\352\242\166\200\163\175\365\234\004\304\105\215\347  
\271\034\213\236\352\327\165\321\162\261\336\165\104\347\102\175  
\342\127\153\175\334\231\274\075\203\050\352\200\223\215\305\114  
\145\301\160\201\270\070\374\103\061\262\366\003\064\107\262\254  
\373\042\006\313\036\335\027\107\034\137\146\271\323\032\242\332  
\021\261\244\274\043\311\344\276\207\377\271\224\266\370\135\040  
\112\324\137\347\275\150\173\145\362\025\036\322\072\251\055\351  
\330\153\044\254\227\130\104\107\255\131\030\361\041\145\160\336  
\316\064\140\250\100\361\363\074\244\303\050\043\214\376\047\063  
\103\100\240\027\074\353\352\073\260\162\246\243\271\112\113\136  
\026\110\364\262\274\310\214\222\305\235\237\254\162\066\274\064  
\200\064\153\251\213\222\300\270\027\355\354\166\123\365\044\001  
\214\263\042\350\113\174\125\306\235\372\243\024\273\145\205\156  
\156\117\022\176\012\074\235\225

END

CKA\_NSS\_MOZILLA\_CA\_POLICY

```

CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "Autoridad de Certificacion Firmaprofesional CIF A62634068"
Issuer: CN=Autoridad de Certificacion Firmaprofesional CIF A62634068,C=ES
Serial Number:53:ec:3b:ee:fb:b2:48:5f
Subject: CN=Autoridad de Certificacion Firmaprofesional CIF A62634068,C=ES
Not Valid Before: Wed May 20 08:38:15 2009
#
Not Valid After : Tue Dec 31 08:38:15 2030
Fingerprint (SHA-256):
04:04:80:28:BF:1F:28:64:D4:8F:9A:D4:D8:32:94:36:6A:82:88:56:55:3F:3B:14:30:3F:90:14:7F:5D:40:EF
Fingerprint (SHA1): AE:C5:FB:3F:C8:E1:BF:C4:E5:4F:03:07:5A:9A:E8:00:B7:F7:B6:FA
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Autoridad de Certificacion Firmaprofesional CIF A62634068"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\256\305\373\077\310\341\277\304\345\117\003\007\132\232\350\000
\267\367\266\372
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\163\072\164\172\354\273\243\226\246\302\344\342\310\233\300\303
END
CKA_ISSUER MULTILINE_OCTAL
\060\121\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\102\060\100\006\003\125\004\003\014\071\101\165\164\157\162\151
\144\141\144\040\144\145\040\103\145\162\164\151\146\151\143\141
\143\151\157\156\040\106\151\162\155\141\160\162\157\146\145\163
\151\157\156\141\154\040\103\111\106\040\101\066\062\066\063\064
\060\066\070
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\010\123\354\073\356\373\262\110\137
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Izenpe.com"
#
Issuer: CN=Izenpe.com,O=IZENPE S.A.,C=ES
Serial Number:00:b0:b7:5a:16:48:5f:bf:e1:cb:f5:8b:d7:19:e6:7d

```

```
Subject: CN=Izenpe.com,O=IZENPE S.A.,C=ES
Not Valid Before: Thu Dec 13 13:08:28 2007
Not Valid After : Sun Dec 13 08:27:25 2037
Fingerprint (SHA-256):
25:30:CC:8E:98:32:15:02:BA:D9:6F:9B:1F:BA:1B:09:9E:2D:29:9E:0F:45:48:BB:91:4F:36:3B:C0:D4:53:1F
Fingerprint (SHA1): 2F:78:3D:25:52:18:A7:4A:65:39:71:B5:2C:A2:9C:45:15:6F:E9:19
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Izenpe.com"
CKA_CERTIFICATE_TYPE
CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\070\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\024\060\022\006\003\125\004\012\014\013\111\132\105\116\120\105
\040\123\056\101\056\061\023\060\021\006\003\125\004\003\014\012
\111\172\145\156\160\145\056\143\157\155
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\070\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\024\060\022\006\003\125\004\012\014\013\111\132\105\116\120\105
\040\123\056\101\056\061\023\060\021\006\003\125\004\003\014\012
\111\172\145\156\160\145\056\143\157\155
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\000\260\267\132\026\110\137\277\341\313\365\213\327\031
\346\175
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\361\060\202\003\331\240\003\002\001\002\002\020\000
\260\267\132\026\110\137\277\341\313\365\213\327\031\346\175\060
\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060\070
\061\013\060\011\006\003\125\004\006\023\002\105\123\061\024\060
\022\006\003\125\004\012\014\013\111\132\105\116\120\105\040\123
\056\101\056\061\023\060\021\006\003\125\004\003\014\012\111\172
\145\156\160\145\056\143\157\155\060\036\027\015\060\067\061\062
\061\063\061\063\060\070\062\070\132\027\015\063\067\061\062\061
\063\060\070\062\067\062\065\132\060\070\061\013\060\011\006\003
\125\004\006\023\002\105\123\061\024\060\022\006\003\125\004\012
\014\013\111\132\105\116\120\105\040\123\056\101\056\061\023\060
\021\006\003\125\004\003\014\012\111\172\145\156\160\145\056\143
\157\155\060\202\002\042\060\015\006\011\052\206\110\206\367\015
\001\001\001\005\000\003\202\002\017\000\060\202\002\012\002\202
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CKA\_NSS\_MOZILLA\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL

CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "Izenpe.com"

# Issuer: CN=Izenpe.com,O=IZENPE S.A.,C=ES

# Serial Number:00:b0:b7:5a:16:48:5f:bf:e1:cb:f5:8b:d7:19:e6:7d

# Subject: CN=Izenpe.com,O=IZENPE S.A.,C=ES

# Not Valid Before: Thu Dec 13 13:08:28 2007

# Not Valid After : Sun Dec 13 08:27:25 2037

# Fingerprint (SHA-256):

25:30:CC:8E:98:32:15:02:BA:D9:6F:9B:1F:BA:1B:09:9E:2D:29:9E:0F:45:48:BB:91:4F:36:3B:C0:D4:53:1F

# Fingerprint (SHA1): 2F:78:3D:25:52:18:A7:4A:65:39:71:B5:2C:A2:9C:45:15:6F:E9:19

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

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CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
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CKA_ISSUER MULTILINE_OCTAL
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CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Chambers of Commerce Root - 2008"
#
Issuer: CN=Chambers of Commerce Root - 2008,O=AC Camerfirma S.A.,serialNumber=A82743287,L=Madrid
(see current address at www.camerfirma.com/address),C=EU
Serial Number:00:a3:da:42:7e:a4:b1:ae:da
Subject: CN=Chambers of Commerce Root - 2008,O=AC Camerfirma S.A.,serialNumber=A82743287,L=Madrid
(see current address at www.camerfirma.com/address),C=EU
Not Valid Before: Fri Aug 01 12:29:50 2008
Not Valid After : Sat Jul 31 12:29:50
2038
Fingerprint (SHA-256):
06:3E:4A:FA:C4:91:DF:D3:32:F3:08:9B:85:42:E9:46:17:D8:93:D7:FE:94:4E:10:A7:93:7E:E2:9D:96:93:C0
Fingerprint (SHA1): 78:6A:74:AC:76:AB:14:7F:9C:6A:30:50:BA:9E:A8:7E:FE:9A:CE:3C
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Chambers of Commerce Root - 2008"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL

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END

CKA\_ID

UTF8 "0"

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CKA\_VALUE

MULTILINE\_OCTAL

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\074\237\264\133\146\236\152\347\303\271\135\210\350\017\255\317  
\043\017\336\045\072\136\314\117\245\301\265\055\254\044\322\130  
\007\336\242\317\151\204\140\063\350\020\015\023\251\043\320\205  
\345\216\173\246\236\075\162\023\162\063\365\252\175\306\143\037  
\010\364\376\001\177\044\317\053\054\124\011\336\342\053\155\222  
\306\071\117\026\352\074\176\172\106\324\105\152\106\250\353\165  
\202\126\247\253\240\174\150\023\063\366\235\060\360\157\047\071  
\044\043\052\220\375\220\051\065\362\223\337\064\245\306\367\370  
\357\214\017\142\112\174\256\323\365\124\370\215\266\232\126\207  
\026\202\072\063\253\132\042\010\367\202\272\352\056\340\107\232  
\264\265\105\243\005\073\331\334\056\105\100\073\352\334\177\350  
\073\353\321\354\046\330\065\244\060\305\072\254\127\236\263\166  
\245\040\173\371\036\112\005\142\001\246\050\165\140\227\222\015  
\156\076\115\067\103\015\222\025\234\030\042\315\121\231\240\051  
\032\074\137\212\062\063\133\060\307\211\057\107\230\017\243\003  
\306\366\361\254\337\062\360\331\201\032\344\234\275\366\200\024  
\360\321\054\271\205\365\330\243\261\310\245\041\345\034\023\227  
\356\016\275\337\051\251\357\064\123\133\323\344\152\023\204\006  
\266\062\002\304\122\256\042\322\334\262\041\102\032\332\100\360  
\051\311\354\012\014\134\342\320\272\314\110\323\067\012\314\022  
\012\212\171\260\075\003\177\151\113\364\064\040\175\263\064\352  
\216\113\144\365\076\375\263\043\147\025\015\004\270\360\055\301  
\011\121\074\262\154\025\360\245\043\327\203\164\344\345\056\311

```
\376\230\047\102\306\253\306\236\260\320\133\070\245\233\120\336
\176\030\230\265\105\073\366\171\264\350\367\032\173\006\203\373
\320\213\332\273\307\275\030\253\010\157\074\200\153\100\077\031
\031\272\145\212\346\276\325\134\323\066\327\357\100\122\044\140
\070\147\004\061\354\217\363\202\306\336\271\125\363\073\061\221
\132\334\265\010\025\255\166\045\012\015\173\056\207\342\014\246
\006\274\046\020\155\067\235\354\335\170\214\174\200\305\360\331
\167\110\320
```

END

CKA\_NSS\_Mozilla\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "Chambers of Commerce Root - 2008"

# Issuer: CN=Chambers of Commerce Root - 2008,O=AC Camerfirma S.A.,serialNumber=A82743287,L=Madrid  
(see current address

at www.camerfirma.com/address),C=EU

# Serial Number:00:a3:da:42:7e:a4:b1:ae:da

# Subject: CN=Chambers of Commerce Root - 2008,O=AC Camerfirma S.A.,serialNumber=A82743287,L=Madrid  
(see current address at www.camerfirma.com/address),C=EU

# Not Valid Before: Fri Aug 01 12:29:50 2008

# Not Valid After : Sat Jul 31 12:29:50 2038

# Fingerprint (SHA-256):

06:3E:4A:FA:C4:91:DF:D3:32:F3:08:9B:85:42:E9:46:17:D8:93:D7:FE:94:4E:10:A7:93:7E:E2:9D:96:93:C0

# Fingerprint (SHA1): 78:6A:74:AC:76:AB:14:7F:9C:6A:30:50:BA:9E:A8:7E:FE:9A:CE:3C

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "Chambers of Commerce Root - 2008"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

```
\170\152\164\254\166\253\024\177\234\152\060\120\272\236\250\176
\376\232\316\074
```

END

CKA\_CERT\_MD5\_HASH MULTILINE\_OCTAL

```
\136\200\236\204\132\016\145\013\027\002\363\125\030\052\076\327
```

END

CKA\_ISSUER MULTILINE\_OCTAL

```
\060\201\256\061\013\060\011\006\003\125\004\006\023\002\105\125
\061\103\060\101\006\003\125\004\007\023\072\115\141\144\162\151
\144\040\050\163\145\145\040\143\165\162\162\145\156\164\040\141
\144\144\162\145\163\163\040\141\164\040\167\167\167\056\143\141
\155\145\162\146\151\162\155\141\056\143\157\155\057\141\144\144
\162\145\163\163\051\061\022\060\020\006\003\125\004\005\023\011
\101\070\062\067\064\063\062\070\067\061\033\060\031\006\003\125
\004\012\023\022\101\103\040\103\141\155\145\162\146\151\162\155
\141\040\123\056\101\056\061\051\060\047\006\003\125\004\003\023
```

```
\040\103\150\141\155\142\145\162\163\040\157\146\040\103\157\155
\155\145\162\143\145\040\122\157\157\164\040\055\040\062\060\060
\070
END
```

```
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
```

```
\002\011\000\243\332\102\176\244\261\256\332
END
```

```
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
```

```
#
```

```
Certificate
```

```
"Global Chambersign Root - 2008"
```

```
#
```

```
Issuer: CN=Global Chambersign Root - 2008,O=AC Camerfirma S.A.,serialNumber=A82743287,L=Madrid (see
current address at www.camerfirma.com/address),C=EU
```

```
Serial Number:00:c9:cd:d3:e9:d5:7d:23:ce
```

```
Subject: CN=Global Chambersign Root - 2008,O=AC Camerfirma S.A.,serialNumber=A82743287,L=Madrid
(see current address at www.camerfirma.com/address),C=EU
```

```
Not Valid Before: Fri Aug 01 12:31:40 2008
```

```
Not Valid After : Sat Jul 31 12:31:40 2038
```

```
Fingerprint (SHA-256):
```

```
13:63:35:43:93:34:A7:69:80:16:A0:D3:24:DE:72:28:4E:07:9D:7B:52:20:BB:8F:BD:74:78:16:EE:BE:BA:CA
```

```
Fingerprint (SHA1): 4A:BD:EE:EC:95:0D:35:9C:89:AE:C7:52:A1:2C:5B:29:F6:D6:AA:0C
```

```
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
```

```
CKA_TOKEN CK_BBOOL CK_TRUE
```

```
CKA_PRIVATE CK_BBOOL CK_FALSE
```

```
CKA_MODIFIABLE CK_BBOOL CK_FALSE
```

```
CKA_LABEL UTF8 "Global Chambersign Root - 2008"
```

```
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
```

```
CKA_SUBJECT MULTILINE_OCTAL
```

```
\060\201\254\061\013\060\011\006\003\125\004\006\023\002\105\125
\061\103\060\101\006\003\125\004\007\023\072\115\141\144\162\151
\144\040\050\163\145\145\040\143\165\162\162\145\156\164\040\141
\144\144\162\145\163\163\040\141\164\040\167\167\167\056\143\141
\155\145\162\146\151\162\155\141\056\143\157\155\057\141\144\144
\162\145\163\163\051\061\022\060\020\006\003\125\004\005\023\011
\101\070\062\067\064\063\062\070\067\061\033\060\031\006\003\125
\004\012\023\022\101\103\040\103\141\155\145\162\146\151\162\155
\141\040\123\056\101\056\061\047\060\045\006\003\125\004\003\023
\036\107\154\157\142\141\154\040\103\150\141\155\142\145\162\163
\151\147\156\040\122\157\157\164\040\055\040\062\060\060\070
```

```
END
```

```
CKA_ID
```

UTF8 "0"

CKA\_ISSUER MULTILINE\_OCTAL

\060\201\254\061\013\060\011\006\003\125\004\006\023\002\105\125  
\061\103\060\101\006\003\125\004\007\023\072\115\141\144\162\151  
\144\040\050\163\145\145\040\143\165\162\162\145\156\164\040\141  
\144\144\162\145\163\163\040\141\164\040\167\167\167\056\143\141  
\155\145\162\146\151\162\155\141\056\143\157\155\057\141\144\144  
\162\145\163\163\051\061\022\060\020\006\003\125\004\005\023\011  
\101\070\062\067\064\063\062\070\067\061\033\060\031\006\003\125  
\004\012\023\022\101\103\040\103\141\155\145\162\146\151\162\155  
\141\040\123\056\101\056\061\047\060\045\006\003\125\004\003\023  
\036\107\154\157\142\141\154\040\103\150\141\155\142\145\162\163  
\151\147\156\040\122\157\157\164\040\055\040\062\060\060\070

END

CKA\_SERIAL\_NUMBER

MULTILINE\_OCTAL

\002\011\000\311\315\323\351\325\175\043\316

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\007\111\060\202\005\061\240\003\002\001\002\002\011\000  
\311\315\323\351\325\175\043\316\060\015\006\011\052\206\110\206  
\367\015\001\001\005\005\000\060\201\254\061\013\060\011\006\003  
\125\004\006\023\002\105\125\061\103\060\101\006\003\125\004\007  
\023\072\115\141\144\162\151\144\040\050\163\145\145\040\143\165  
\162\162\145\156\164\040\141\144\144\162\145\163\163\040\141\164  
\040\167\167\167\056\143\141\155\145\162\146\151\162\155\141\056  
\143\157\155\057\141\144\144\162\145\163\163\051\061\022\060\020  
\006\003\125\004\005\023\011\101\070\062\067\064\063\062\070\067  
\061\033\060\031\006\003\125\004\012\023\022\101\103\040\103\141  
\155\145\162\146\151\162\155\141\040\123\056\101\056\061\047\060  
\045\006\003\125\004\003\023\036\107\154\157\142\141\154\040\103  
\150\141\155\142\145\162\163\151\147\156\040\122\157\157\164\040  
\055\040\062\060\060\070\060\036\027\015\060\070\060\070\060\061  
\061\062\063\061\064\060\132\027\015\063\070\060\067\063\061\061  
\062\063\061\064\060\132\060\201\254\061\013\060\011\006\003\125  
\004\006\023\002\105\125\061\103\060\101\006\003\125\004\007\023  
\072\115\141\144\162\151\144\040\050\163\145\145\040\143\165\162  
\162\145\156\164\040\141\144\144\162\145\163\163\040\141\164\040  
\167\167\167\056\143\141\155\145\162\146\151\162\155\141\056\143  
\157\155\057\141\144\144\162\145\163\163\051\061\022\060\020\006  
\003\125\004\005\023\011\101\070\062\067\064\063\062\070\067\061  
\033\060\031\006\003\125\004\012\023\022\101\103\040\103\141\155  
\145\162\146\151\162\155\141\040\123\056\101\056\061\047\060\045  
\006\003\125\004\003\023\036\107\154\157\142\141\154\040\103\150  
\141\155\142\145\162\163\151\147\156\040\122\157\157\164\040\055  
\040\062\060\060\070\060\202\002\042\060\015\006\011\052\206\110  
\206\367\015\001\001\001\005\000\003\202\002\017\000\060\202\002  
\012\002\202\002\001\000\300\337\126\323\344\072\233\166\105\264

\023\333\377\301\266\031\213\067\101\030\225\122\107\353\027\235  
\051\210\216\065\154\006\062\056\107\142\363\111\004\277\175\104  
\066\261\161\314\275\132\011\163\325\331\205\104\377\221\127\045  
\337\136\066\216\160\321\134\161\103\035\331\332\357\134\322\373  
\033\275\072\265\313\255\243\314\104\247\015\256\041\025\077\271  
\172\133\222\165\330\244\022\070\211\031\212\267\200\322\342\062  
\157\126\234\221\326\210\020\013\263\164\144\222\164\140\363\366  
\317\030\117\140\262\043\320\307\073\316\141\113\231\217\302\014  
\320\100\262\230\334\015\250\116\243\271\012\256\140\240\255\105  
\122\143\272\146\275\150\340\371\276\032\250\201\273\036\101\170  
\165\323\301\376\000\125\260\207\124\350\047\220\065\035\114\063  
\255\227\374\227\056\230\204\277\054\311\243\277\321\230\021\024  
\355\143\370\312\230\210\130\027\231\355\105\003\227\176\074\206  
\036\210\214\276\362\221\204\217\145\064\330\000\114\175\267\061  
\027\132\051\172\012\030\044\060\243\067\265\172\251\001\175\046  
\326\371\016\216\131\361\375\033\063\265\051\073\027\073\101\266  
\041\335\324\300\075\245\237\237\037\103\120\311\273\274\154\172  
\227\230\356\315\214\037\373\234\121\256\213\160\275\047\237\161  
\300\153\254\175\220\146\350\327\135\072\015\260\325\302\215\325  
\310\235\235\301\155\320\320\277\121\344\343\370\303\070\066\256  
\326\247\165\346\257\204\103\135\223\222\014\152\007\336\073\035  
\230\042\326\254\301\065\333\243\240\045\377\162\265\166\035\336  
\155\351\054\146\054\122\204\320\105\222\316\034\345\345\063\035  
\334\007\123\124\243\252\202\073\232\067\057\334\335\240\144\351  
\346\335\275\256\374\144\205\035\074\247\311\006\336\204\377\153  
\350\153\032\074\305\242\263\102\373\213\011\076\137\010\122\307  
\142\304\324\005\161\277\304\144\344\370\241\203\350\076\022\233  
\250\036\324\066\115\057\161\366\215\050\366\203\251\023\322\141  
\301\221\273\110\300\064\217\101\214\113\114\333\151\022\377\120  
\224\234\040\203\131\163\355\174\241\362\361\375\335\367\111\323  
\103\130\240\126\143\312\075\075\345\065\126\131\351\016\312\040  
\314\053\113\223\051\017\002\003\001\000\001\243\202\001\152\060  
\202\001\146\060\022\006\003\125\035\023\001\001\377\004\010\060  
\006\001\001\377\002\001\014\060\035\006\003\125\035\016\004\026  
\004\024\271\011\312\234\036\333\323\154\072\153\256\355\124\361  
\133\223\006\065\056\136\060\201\341\006\003\125\035\043\004\201  
\331\060\201\326\200\024\271\011\312\234\036\333\323\154\072\153  
\256\355\124\361\133\223\006\065\056\136\241\201\262\244\201\257  
\060\201\254\061\013\060\011\006\003\125\004\006\023\002\105\125  
\061\103\060\101\006\003\125\004\007\023\072\115\141\144\162\151  
\144\040\050\163\145\145\040\143\165\162\162\145\156\164\040\141  
\144\144\162\145\163\163\040\141\164\040\167\167\167\056\143\141  
\155\145\162\146\151\162\155\141\056\143\157\155\057\141\144\144  
\162\145\163\163\051\061\022\060\020\006\003\125\004\005\023\011  
\101\070\062\067\064\063\062\070\067\061\033\060\031\006\003\125  
\004\012\023\022\101\103\040\103\141\155\145\162\146\151\162\155  
\141\040\123\056\101\056\061\047\060\045\006\003\125\004\003\023  
\036\107\154\157\142\141\154\040\103\150\141\155\142\145\162\163

\151\147\156\040\122\157\157\164\040\055\040\062\060\060\070\202  
\011\000\311\315\323\351\325\175\043\316\060\016\006\003\125\035  
\017\001\001\377\004\004\003\002\001\006\060\075\006\003\125\035  
\040\004\066\060\064\060\062\006\004\125\035\040\000\060\052\060  
\050\006\010\053\006\001\005\005\007\002\001\026\034\150\164\164  
\160\072\057\057\160\157\154\151\143\171\056\143\141\155\145\162  
\146\151\162\155\141\056\143\157\155\060\015\006\011\052\206\110  
\206\367\015\001\001\005\005\000\003\202\002\001\000\200\210\177  
\160\336\222\050\331\005\224\106\377\220\127\251\361\057\337\032  
\015\153\372\174\016\034\111\044\171\047\330\106\252\157\051\131  
\122\210\160\022\352\335\075\365\233\123\124\157\341\140\242\250  
\011\271\354\353\131\174\306\065\361\334\030\351\361\147\345\257  
\272\105\340\011\336\312\104\017\302\027\016\167\221\105\172\063  
\137\137\226\054\150\213\301\107\217\230\233\075\300\354\313\365  
\325\202\222\204\065\321\276\066\070\126\162\061\133\107\055\252  
\027\244\143\121\353\012\001\255\177\354\165\236\313\241\037\361  
\177\022\261\271\344\144\177\147\326\043\052\364\270\071\135\230  
\350\041\247\341\275\075\102\032\164\232\160\257\150\154\120\135  
\111\317\377\373\016\135\346\054\107\327\201\072\131\000\265\163  
\153\143\040\366\061\105\010\071\016\364\160\176\100\160\132\077  
\320\153\102\251\164\075\050\057\002\155\165\162\225\011\215\110  
\143\306\306\043\127\222\223\136\065\301\215\371\012\367\054\235  
\142\034\366\255\174\335\246\061\036\266\261\307\176\205\046\372  
\244\152\265\332\143\060\321\357\223\067\262\146\057\175\005\367  
\347\267\113\230\224\065\300\331\072\051\301\235\262\120\063\035  
\112\251\132\246\311\003\357\355\364\347\250\156\212\264\127\204  
\353\244\077\320\356\252\252\207\133\143\350\223\342\153\250\324  
\270\162\170\153\033\355\071\344\135\313\233\252\207\325\117\116  
\000\376\331\152\237\074\061\017\050\002\001\175\230\350\247\260  
\242\144\236\171\370\110\362\025\251\314\346\310\104\353\077\170  
\231\362\173\161\076\074\361\230\247\305\030\022\077\346\273\050  
\063\102\351\105\012\174\155\362\206\171\057\305\202\031\175\011  
\211\174\262\124\166\210\256\336\301\363\314\341\156\333\061\326  
\223\256\231\240\357\045\152\163\230\211\133\072\056\023\210\036  
\277\300\222\224\064\033\343\047\267\213\036\157\102\377\347\351  
\067\233\120\035\055\242\371\002\356\313\130\130\072\161\274\150  
\343\252\301\257\034\050\037\242\334\043\145\077\201\352\256\231  
\323\330\060\317\023\015\117\025\311\204\274\247\110\055\370\060  
\043\167\330\106\113\171\155\366\214\355\072\177\140\021\170\364  
\351\233\256\325\124\300\164\200\321\013\102\237\301

END

CKA\_NSS\_MOZILLA\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "Global Chambersign Root - 2008"

# Issuer: CN=Global Chambersign Root - 2008,O=AC Camerfirma S.A.,serialNumber=A82743287,L=Madrid (see

```
current address at www.camerfirma.com/address),C=EU
Serial Number:00:c9:cd:d3:e9:d5:7d:23:ce
Subject: CN=Global Chambersign Root - 2008,O=AC Camerfirma S.A.,serialNumber=A82743287,L=Madrid
(see current address at www.camerfirma.com/address),C=EU
Not Valid Before: Fri Aug 01 12:31:40 2008
Not Valid After : Sat Jul 31 12:31:40 2038
Fingerprint (SHA-256):
13:63:35:43:93:34:A7:69:80:16:A0:D3:24:DE:72:28:4E:07:9D:7B:52:20:BB:8F:BD:74:78:16:EE:BE:BA:CA
Fingerprint (SHA1): 4A:BD:EE:EC:95:0D:35:9C:89:AE:C7:52:A1:2C:5B:29:F6:D6:AA:0C
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN
CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Global Chambersign Root - 2008"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\112\275\356\354\225\015\065\234\211\256\307\122\241\054\133\051
\366\326\252\014
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\236\200\377\170\001\014\056\301\066\275\376\226\220\156\010\363
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\254\061\013\060\011\006\003\125\004\006\023\002\105\125
\061\103\060\101\006\003\125\004\007\023\072\115\141\144\162\151
\144\040\050\163\145\145\040\143\165\162\162\145\156\164\040\141
\144\144\162\145\163\163\040\141\164\040\167\167\167\056\143\141
\155\145\162\146\151\162\155\141\056\143\157\155\057\141\144\144
\162\145\163\163\051\061\022\060\020\006\003\125\004\005\023\011
\101\070\062\067\064\063\062\070\067\061\033\060\031\006\003\125
\004\012\023\022\101\103\040\103\141\155\145\162\146\151\162\155
\141\040\123\056\101\056\061\047\060\045\006\003\125\004\003\023
\036\107\154\157\142\141\154\040\103\150\141\155\142\145\162\163
\151\147\156\040\122\157\157\164\040\055\040\062\060\060\070
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\011\000\311\315\323\351\325\175\043\316
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Go Daddy Root Certificate Authority - G2"
#
Issuer: CN=Go Daddy Root Certificate Authority - G2,O="GoDaddy.com, Inc.",L=Scottsdale,ST=Arizona,C=US
```



```
Serial Number: 0 (0x0)
Subject: CN=Go Daddy Root Certificate Authority - G2,O="GoDaddy.com,
Inc.",L=Scottsdale,ST=Arizona,C=US
Not Valid Before: Tue Sep 01 00:00:00 2009
Not Valid After : Thu Dec 31 23:59:59 2037
Fingerprint (SHA-256):
45:14:0B:32:47:EB:9C:C8:C5:B4:F0:D7:B5:30:91:F7:32:92:08:9E:6E:5A:63:E2:74:9D:D3:AC:A9:19:8E:DA
Fingerprint (SHA1): 47:BE:AB:C9:22:EA:E8:0E:78:78:34:62:A7:9F:45:C2:54:FD:E6:8B
CKA_CLASS
CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Go Daddy Root Certificate Authority - G2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\203\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\020\060\016\006\003\125\004\010\023\007\101\162\151\172\157
\156\141\061\023\060\021\006\003\125\004\007\023\012\123\143\157
\164\164\163\144\141\154\145\061\032\060\030\006\003\125\004\012
\023\021\107\157\104\141\144\144\171\056\143\157\155\054\040\111
\156\143\056\061\061\060\057\006\003\125\004\003\023\050\107\157
\040\104\141\144\144\171\040\122\157\157\164\040\103\145\162\164
\151\146\151\143\141\164\145\040\101\165\164\150\157\162\151\164
\171\040\055\040\107\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\203\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\020\060\016\006\003\125\004\010\023\007\101\162\151\172\157
\156\141\061\023\060\021\006\003\125\004\007\023\012\123\143\157
\164\164\163\144\141\154\145\061\032\060\030\006\003\125\004\012
\023\021\107\157\104\141\144\144\171\056\143\157\155\054\040\111
\156\143\056\061\061\060\057\006\003\125\004\003\023\050\107\157
\040\104\141\144\144\171\040\122\157\157\164\040\103\145\162\164
\151\146\151\143\141\164\145\040\101\165\164\150\157\162\151\164
\171\040\055\040\107\062
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\001\000
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\305\060\202\002\255\240\003\002\001\002\002\001\000
\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060
\201\203\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\020\060\016\006\003\125\004\010\023\007\101\162\151\172\157\156
\141\061\023\060\021\006\003\125\004\007\023\012\123\143\157\164
```

\164\163\144\141\154\145\061\032\060\030\006\003\125\004\012\023  
\021\107\157\104\141\144\144\171\056\143\157\155\054\040\111\156  
\143\056\061\061\060\057\006\003\125\004\003\023\050\107\157\040  
\104\141\144\144\171\040\122\157\157\164\040\103\145\162\164\151  
\146\151\143\141\164\145\040\101\165\164\150\157\162\151\164\171  
\040\055\040\107\062\060\036\027\015\060\071\060\071\060\061\060  
\060\060\060\060\060\132\027\015\063\067\061\062\063\061\062\063  
\065\071\065\071\132\060\201\203\061\013\060\011\006\003\125\004  
\006\023\002\125\123\061\020\060\016\006\003\125\004\010\023\007  
\101\162\151\172\157\156\141\061\023\060\021\006\003\125\004\007  
\023\012\123\143\157\164\164\163\144\141\154\145\061\032\060\030  
\006\003\125\004\012\023\021\107\157\104\141\144\144\171\056\143  
\157\155\054\040\111\156\143\056\061\061\060\057\006\003\125\004  
\003\023\050\107\157\040\104\141\144\144\171\040\122\157\157\164  
\040\103\145\162\164\151\146\151\143\141\164\145\040\101\165\164  
\150\157\162\151\164\171\040\055\040\107\062\060\202\001\042\060  
\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003\202  
\001\017\000\060\202\001\012\002\202\001\001\000\277\161\142\010  
\361\372\131\064\367\033\311\030\243\367\200\111\130\351\042\203  
\023\246\305\040\103\001\073\204\361\346\205\111\237\047\352\366  
\204\033\116\240\264\333\160\230\307\062\001\261\005\076\007\116  
\356\364\372\117\057\131\060\042\347\253\031\126\153\342\200\007  
\374\363\026\165\200\071\121\173\345\371\065\266\164\116\251\215  
\202\023\344\266\077\251\003\203\372\242\276\212\025\152\177\336  
\013\303\266\031\024\005\312\352\303\250\004\224\073\106\174\062  
\015\363\000\146\042\310\215\151\155\066\214\021\030\267\323\262  
\034\140\264\070\372\002\214\316\323\335\106\007\336\012\076\353  
\135\174\310\174\373\260\053\123\244\222\142\151\121\045\005\141  
\032\104\201\214\054\251\103\226\043\337\254\072\201\232\016\051  
\305\034\251\351\135\036\266\236\236\060\012\071\316\361\210\200  
\373\113\135\314\062\354\205\142\103\045\064\002\126\047\001\221  
\264\073\160\052\077\156\261\350\234\210\001\175\237\324\371\333  
\123\155\140\235\277\054\347\130\253\270\137\106\374\316\304\033  
\003\074\011\353\111\061\134\151\106\263\340\107\002\003\001\000  
\001\243\102\060\100\060\017\006\003\125\035\023\001\001\377\004  
\005\060\003\001\001\377\060\016\006\003\125\035\017\001\001\377  
\004\004\003\002\001\006\060\035\006\003\125\035\016\004\026\004  
\024\072\232\205\007\020\147\050\266\357\366\275\005\101\156\040  
\301\224\332\017\336\060\015\006\011\052\206\110\206\367\015\001  
\001\013\005\000\003\202\001\001\000\231\333\135\171\325\371\227  
\131\147\003\141\361\176\073\006\061\165\055\241\040\216\117\145  
\207\264\367\246\234\274\330\351\057\320\333\132\356\317\164\214  
\163\264\070\102\332\005\173\370\002\165\270\375\245\261\327\256  
\366\327\336\023\313\123\020\176\212\106\321\227\372\267\056\053  
\021\253\220\260\047\200\371\350\237\132\351\067\237\253\344\337  
\154\263\205\027\235\075\331\044\117\171\221\065\326\137\004\353  
\200\203\253\232\002\055\265\020\364\330\220\307\004\163\100\355  
\162\045\240\251\237\354\236\253\150\022\231\127\306\217\022\072

```
\011\244\275\104\375\006\025\067\301\233\344\062\243\355\070\350
\330\144\363\054\176\024\374\002\352\237\315\377\007\150\027\333
\042\220\070\055\172\215\321\124\361\151\343\137\063\312\172\075
\173\012\343\312\177\137\071\345\342\165\272\305\166\030\063\316
\054\360\057\114\255\367\261\347\316\117\250\304\233\112\124\006
\305\177\175\325\010\017\342\034\376\176\027\270\254\136\366\324
\026\262\103\011\014\115\366\247\153\264\231\204\145\312\172\210
\342\342\104\276\134\367\352\034\365
```

END

CKA\_NSS\_MOZILLA\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "Go Daddy Root Certificate Authority - G2"

# Issuer: CN=Go Daddy Root Certificate Authority - G2,O="GoDaddy.com, Inc.",L=Scottsdale,ST=Arizona,C=US

# Serial Number: 0 (0x0)

# Subject: CN=Go Daddy Root Certificate Authority - G2,O="GoDaddy.com, Inc.",L=Scottsdale,ST=Arizona,C=US

# Not Valid Before: Tue Sep 01 00:00:00 2009

# Not Valid After : Thu Dec 31 23:59:59 2037

# Fingerprint (SHA-256):

45:14:0B:32:47:EB:9C:C8:C5:B4:F0:D7:B5:30:91:F7:32:92:08:9E:6E:5A:63:E2:74:9D:D3:AC:A9:19:8E:DA

#

Fingerprint (SHA1): 47:BE:AB:C9:22:EA:E8:0E:78:78:34:62:A7:9F:45:C2:54:FD:E6:8B

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "Go Daddy Root Certificate Authority - G2"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

```
\107\276\253\311\042\352\350\016\170\170\064\142\247\237\105\302
\124\375\346\213
```

END

CKA\_CERT\_MD5\_HASH MULTILINE\_OCTAL

```
\200\072\274\042\301\346\373\215\233\073\047\112\062\033\232\001
```

END

CKA\_ISSUER MULTILINE\_OCTAL

```
\060\201\203\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\020\060\016\006\003\125\004\010\023\007\101\162\151\172\157
\156\141\061\023\060\021\006\003\125\004\007\023\012\123\143\157
\164\164\163\144\141\154\145\061\032\060\030\006\003\125\004\012
\023\021\107\157\104\141\144\144\171\056\143\157\155\054\040\111
\156\143\056\061\061\060\057\006\003\125\004\003\023\050\107\157
\040\104\141\144\144\171\040\122\157\157\164\040\103\145\162\164
\151\146\151\143\141\164\145\040\101\165\164\150\157\162\151\164
\171\040\055\040\107\062
```

END

```

CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\001\000
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Starfield Root Certificate Authority - G2"
#
Issuer: CN=Starfield Root Certificate Authority - G2,O="Starfield Technologies,
Inc.",L=Scottsdale,ST=Arizona,C=US
Serial Number: 0 (0x0)
Subject: CN=Starfield Root Certificate Authority - G2,O="Starfield Technologies,
Inc.",L=Scottsdale,ST=Arizona,C=US
Not Valid Before: Tue Sep 01 00:00:00 2009
Not Valid After : Thu Dec 31 23:59:59 2037
Fingerprint (SHA-256):
2C:E1:CB:0B:F9:D2:F9:E1:02:99:3F:BE:21:51:52:C3:B2:DD:0C:AB:DE:1C:68:E5:31:9B:83:91:54:DB:B7:F5
Fingerprint (SHA1): B5:1C:06:7C:EE:2B:0C:3D:F8:55:AB:2D:92:F4:FE:39:D4:E7:0F:0E
CKA_CLASS
CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Starfield Root Certificate Authority - G2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\217\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\020\060\016\006\003\125\004\010\023\007\101\162\151\172\157
\156\141\061\023\060\021\006\003\125\004\007\023\012\123\143\157
\164\164\163\144\141\154\145\061\045\060\043\006\003\125\004\012
\023\034\123\164\141\162\146\151\145\154\144\040\124\145\143\150
\156\157\154\157\147\151\145\163\054\040\111\156\143\056\061\062
\060\060\006\003\125\004\003\023\051\123\164\141\162\146\151\145
\154\144\040\122\157\157\164\040\103\145\162\164\151\146\151\143
\141\164\145\040\101\165\164\150\157\162\151\164\171\040\055\040
\107\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\217\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\020\060\016\006\003\125\004\010\023\007\101\162\151\172\157
\156\141\061\023\060\021\006\003\125\004\007\023\012\123\143\157
\164\164\163\144\141\154\145\061\045\060\043\006\003\125\004\012
\023\034\123\164\141\162\146\151\145\154\144\040\124\145\143\150

```

\156\157\154\157\147\151\145\163\054\040\111\156\143\056\061\062  
\060\060\006\003\125\004\003\023\051\123\164\141\162\146\151\145  
\154\144\040\122\157\157\164\040\103\145\162\164\151\146\151\143  
\141\164\145\040\101\165\164\150\157\162\151\164\171\040\055\040  
\107\062

END

CKA\_SERIAL\_NUMBER

MULTILINE\_OCTAL

\002\001\000

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\003\335\060\202\002\305\240\003\002\001\002\002\001\000  
\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060  
\201\217\061\013\060\011\006\003\125\004\006\023\002\125\123\061  
\020\060\016\006\003\125\004\010\023\007\101\162\151\172\157\156  
\141\061\023\060\021\006\003\125\004\007\023\012\123\143\157\164  
\164\163\144\141\154\145\061\045\060\043\006\003\125\004\012\023  
\034\123\164\141\162\146\151\145\154\144\040\124\145\143\150\156  
\157\154\157\147\151\145\163\054\040\111\156\143\056\061\062\060  
\060\006\003\125\004\003\023\051\123\164\141\162\146\151\145\154  
\144\040\122\157\157\164\040\103\145\162\164\151\146\151\143\141  
\164\145\040\101\165\164\150\157\162\151\164\171\040\055\040\107  
\062\060\036\027\015\060\071\060\071\060\061\060\060\060\060\060  
\060\132\027\015\063\067\061\062\063\061\062\063\065\071\065\071  
\132\060\201\217\061\013\060\011\006\003\125\004\006\023\002\125  
\123\061\020\060\016\006\003\125\004\010\023\007\101\162\151\172  
\157\156\141\061\023\060\021\006\003\125\004\007\023\012\123\143  
\157\164\164\163\144\141\154\145\061\045\060\043\006\003\125\004  
\012\023\034\123\164\141\162\146\151\145\154\144\040\124\145\143  
\150\156\157\154\157\147\151\145\163\054\040\111\156\143\056\061  
\062\060\060\006\003\125\004\003\023\051\123\164\141\162\146\151  
\145\154\144\040\122\157\157\164\040\103\145\162\164\151\146\151  
\143\141\164\145\040\101\165\164\150\157\162\151\164\171\040\055  
\040\107\062\060\202\001\042\060\015\006\011\052\206\110\206\367  
\015\001\001\001\005\000\003\202\001\017\000\060\202\001\012\002  
\202\001\001\000\275\355\301\003\374\366\217\374\002\261\157\133  
\237\110\331\235\171\342\242\267\003\141\126\030\303\107\266\327  
\312\075\065\056\211\103\367\241\151\233\336\212\032\375\023\040  
\234\264\111\167\062\051\126\375\271\354\214\335\042\372\162\334  
\047\141\227\356\366\132\204\354\156\031\271\211\054\334\204\133  
\325\164\373\153\137\305\211\245\020\122\211\106\125\364\270\165  
\034\346\177\344\124\256\113\370\125\162\127\002\031\370\027\161  
\131\353\036\050\007\164\305\235\110\276\154\264\364\244\260\363  
\144\067\171\222\300\354\106\136\177\341\155\123\114\142\257\315  
\037\013\143\273\072\235\373\374\171\000\230\141\164\317\046\202  
\100\143\363\262\162\152\031\015\231\312\324\016\165\314\067\373  
\213\211\301\131\361\142\177\137\263\137\145\060\370\247\267\115  
\166\132\036\166\136\064\300\350\226\126\231\212\263\360\177\244

\315\275\334\062\061\174\221\317\340\137\021\370\153\252\111\134  
\321\231\224\321\242\343\143\133\011\166\265\126\142\341\113\164  
\035\226\324\046\324\010\004\131\320\230\016\016\346\336\374\303  
\354\037\220\361\002\003\001\000\001\243\102\060\100\060\017\006  
\003\125\035\023\001\001\377\004\005\060\003\001\001\377\060\016  
\006\003\125\035\017\001\001\377\004\004\003\002\001\006\060\035  
\006\003\125\035\016\004\026\004\024\174\014\062\037\247\331\060  
\177\304\175\150\243\142\250\241\316\253\007\133\047\060\015\006  
\011\052\206\110\206\367\015\001\001\013\005\000\003\202\001\001  
\000\021\131\372\045\117\003\157\224\231\073\232\037\202\205\071  
\324\166\005\224\136\341\050\223\155\142\135\011\302\240\250\324  
\260\165\070\361\064\152\235\344\237\212\206\046\121\346\054\321  
\306\055\156\225\040\112\222\001\354\270\212\147\173\061\342\147  
\056\214\225\003\046\056\103\235\112\061\366\016\265\014\273\267  
\342\067\177\042\272\000\243\016\173\122\373\153\273\073\304\323  
\171\121\116\315\220\364\147\007\031\310\074\106\172\015\001\175  
\305\130\347\155\346\205\060\027\232\044\304\020\340\004\367\340  
\362\177\324\252\012\377\102\035\067\355\224\345\144\131\022\040  
\167\070\323\062\076\070\201\165\226\163\372\150\217\261\313\316  
\037\305\354\372\234\176\317\176\261\361\007\055\266\374\277\312  
\244\277\320\227\005\112\274\352\030\050\002\220\275\124\170\011  
\041\161\323\321\175\035\331\026\260\251\141\075\320\012\000\042  
\374\307\173\313\011\144\105\013\073\100\201\367\175\174\062\365  
\230\312\130\216\175\052\356\220\131\163\144\371\066\164\136\045  
\241\365\146\005\056\177\071\025\251\052\373\120\213\216\205\151  
\364

END

CKA\_NSS\_MOZILLA\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "Starfield Root Certificate Authority - G2"

# Issuer: CN=Starfield Root Certificate Authority - G2,O="Starfield Technologies,  
Inc.",L=Scottsdale,ST=Arizona,C=US

# Serial Number: 0 (0x0)

# Subject: CN=Starfield

Root Certificate Authority - G2,O="Starfield Technologies, Inc.",L=Scottsdale,ST=Arizona,C=US

# Not Valid Before: Tue Sep 01 00:00:00 2009

# Not Valid After : Thu Dec 31 23:59:59 2037

# Fingerprint (SHA-256):

2C:E1:CB:0B:F9:D2:F9:E1:02:99:3F:BE:21:51:52:C3:B2:DD:0C:AB:DE:1C:68:E5:31:9B:83:91:54:DB:B7:F5

# Fingerprint (SHA1): B5:1C:06:7C:EE:2B:0C:3D:F8:55:AB:2D:92:F4:FE:39:D4:E7:0F:0E

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "Starfield Root Certificate Authority - G2"

```

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\265\034\006\174\356\053\014\075\370\125\253\055\222\364\376\071
\324\347\017\016
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\326\071\201\306\122\176\226\151\374\374\312\146\355\005\362\226
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\217\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\020\060\016\006\003\125\004\010\023\007\101\162\151\172\157
\156\141\061\023\060\021\006\003\125\004\007\023\012\123\143\157
\164\164\163\144\141\154\145\061\045\060\043\006\003\125\004\012
\023\034\123\164\141\162\146\151\145\154\144\040\124\145\143\150
\156\157\154\157\147\151\145\163\054\040\111\156\143\056\061\062
\060\060\006\003\125\004\003\023\051\123\164\141\162\146\151\145
\154\144\040\122\157\157\164\040\103\145\162\164\151\146\151\143
\141\164\145\040\101\165\164\150\157\162\151\164\171\040\055\040
\107\062
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\001\000
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Starfield Services Root Certificate Authority - G2"
#
Issuer: CN=Starfield Services Root Certificate Authority - G2,O="Starfield Technologies,
Inc.",L=Scottsdale,ST=Arizona,C=US
Serial Number: 0 (0x0)
Subject: CN=Starfield Services Root Certificate Authority - G2,O="Starfield
Technologies, Inc.",L=Scottsdale,ST=Arizona,C=US
Not Valid Before: Tue Sep 01 00:00:00 2009
Not Valid After : Thu Dec 31 23:59:59 2037
Fingerprint (SHA-256):
56:8D:69:05:A2:C8:87:08:A4:B3:02:51:90:ED:CF:ED:B1:97:4A:60:6A:13:C6:E5:29:0F:CB:2A:E6:3E:DA:B5
Fingerprint (SHA1): 92:5A:8F:8D:2C:6D:04:E0:66:5F:59:6A:FF:22:D8:63:E8:25:6F:3F
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Starfield Services Root Certificate Authority - G2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL

```

```
\060\201\230\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\020\060\016\006\003\125\004\010\023\007\101\162\151\172\157
\156\141\061\023\060\021\006\003\125\004\007\023\012\123\143\157
\164\164\163\144\141\154\145\061\045\060\043\006\003\125\004\012
\023\034\123\164\141\162\146\151\145\154\144\040\124\145\143\150
\156\157\154\157\147\151\145\163\054\040\111\156\143\056\061\073
\060\071\006\003\125\004\003\023\062\123\164\141\162\146\151\145
\154\144\040\123\145\162\166\151\143\145\163\040\122\157\157\164
\040\103\145\162\164\151\146\151\143\141\164\145\040\101\165\164
\150\157\162\151\164\171\040\055\040\107\062
```

END

CKA\_ID

UTF8 "0"

CKA\_ISSUER MULTILINE\_OCTAL

```
\060\201\230\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\020\060\016\006\003\125\004\010\023\007\101\162\151\172\157
\156\141\061\023\060\021\006\003\125\004\007\023\012\123\143\157
\164\164\163\144\141\154\145\061\045\060\043\006\003\125\004\012
\023\034\123\164\141\162\146\151\145\154\144\040\124\145\143\150
\156\157\154\157\147\151\145\163\054\040\111\156\143\056\061\073
\060\071\006\003\125\004\003\023\062\123\164\141\162\146\151\145
\154\144\040\123\145\162\166\151\143\145\163\040\122\157\157\164
\040\103\145\162\164\151\146\151\143\141\164\145\040\101\165\164
\150\157\162\151\164\171\040\055\040\107\062
```

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

\002\001\000

END

CKA\_VALUE

MULTILINE\_OCTAL

```
\060\202\003\357\060\202\002\327\240\003\002\001\002\002\001\000
\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060
\201\230\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\020\060\016\006\003\125\004\010\023\007\101\162\151\172\157\156
\141\061\023\060\021\006\003\125\004\007\023\012\123\143\157\164
\164\163\144\141\154\145\061\045\060\043\006\003\125\004\012\023
\034\123\164\141\162\146\151\145\154\144\040\124\145\143\150\156
\157\154\157\147\151\145\163\054\040\111\156\143\056\061\073\060
\071\006\003\125\004\003\023\062\123\164\141\162\146\151\145\154
\144\040\123\145\162\166\151\143\145\163\040\122\157\157\164\040
\103\145\162\164\151\146\151\143\141\164\145\040\101\165\164\150
\157\162\151\164\171\040\055\040\107\062\060\036\027\015\060\071
\060\071\060\061\060\060\060\060\060\060\132\027\015\063\067\061
\062\063\061\062\063\065\071\065\071\132\060\201\230\061\013\060
\011\006\003\125\004\006\023\002\125\123\061\020\060\016\006\003
\125\004\010\023\007\101\162\151\172\157\156\141\061\023\060\021
\006\003\125\004\007\023\012\123\143\157\164\164\163\144\141\154
\145\061\045\060\043\006\003\125\004\012\023\034\123\164\141\162
```



\146\151\145\154\144\040\124\145\143\150\156\157\154\157\147\151  
\145\163\054\040\111\156\143\056\061\073\060\071\006\003\125\004  
\003\023\062\123\164\141\162\146\151\145\154\144\040\123\145\162  
\166\151\143\145\163\040\122\157\157\164\040\103\145\162\164\151  
\146\151\143\141\164\145\040\101\165\164\150\157\162\151\164\171  
\040\055\040\107\062\060\202\001\042\060\015\006\011\052\206\110  
\206\367\015\001\001\001\005\000\003\202\001\017\000\060\202\001  
\012\002\202\001\001\000\325\014\072\304\052\371\116\342\365\276  
\031\227\137\216\210\123\261\037\077\313\317\237\040\023\155\051  
\072\310\017\175\074\367\153\166\070\143\331\066\140\250\233\136  
\134\000\200\262\057\131\177\366\207\371\045\103\206\347\151\033  
\122\232\220\341\161\343\330\055\015\116\157\366\310\111\331\266  
\363\032\126\256\053\266\164\024\353\317\373\046\343\032\272\035  
\226\056\152\073\130\224\211\107\126\377\045\240\223\160\123\203  
\332\204\164\024\303\147\236\004\150\072\337\216\100\132\035\112  
\116\317\103\221\073\347\126\326\000\160\313\122\356\173\175\256  
\072\347\274\061\371\105\366\302\140\317\023\131\002\053\200\314  
\064\107\337\271\336\220\145\155\002\317\054\221\246\246\347\336  
\205\030\111\174\146\116\243\072\155\251\265\356\064\056\272\015  
\003\270\063\337\107\353\261\153\215\045\331\233\316\201\321\105  
\106\062\226\160\207\336\002\016\111\103\205\266\154\163\273\144  
\352\141\101\254\311\324\124\337\207\057\307\042\262\046\314\237  
\131\124\150\237\374\276\052\057\304\125\034\165\100\140\027\205  
\002\125\071\213\177\005\002\003\001\000\001\243\102\060\100\060  
\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001\377  
\060\016\006\003\125\035\017\001\001\377\004\004\003\002\001\006  
\060\035\006\003\125\035\016\004\026\004\024\234\137\000\337\252  
\001\327\060\053\070\210\242\270\155\112\234\362\021\221\203\060  
\015\006\011\052\206\110\206\367\015\001\001\013\005\000\003\202  
\001\001\000\113\066\246\204\167\151\335\073\031\237\147\043\010  
\157\016\141\311\375\204\334\137\330\066\201\315\330\033\101\055  
\237\140\335\307\032\150\331\321\156\206\341\210\043\317\023\336  
\103\317\342\064\263\004\235\037\051\325\277\370\136\310\325\301  
\275\356\222\157\062\164\362\221\202\057\275\202\102\172\255\052  
\267\040\175\115\274\172\125\022\302\025\352\275\367\152\225\056  
\154\164\237\317\034\264\362\305\001\243\205\320\162\076\255\163  
\253\013\233\165\014\155\105\267\216\224\254\226\067\265\240\320  
\217\025\107\016\343\350\203\335\217\375\357\101\001\167\314\047  
\251\142\205\063\362\067\010\357\161\317\167\006\336\310\031\035  
\210\100\317\175\106\035\377\036\307\341\316\377\043\333\306\372  
\215\125\116\251\002\347\107\021\106\076\364\375\275\173\051\046  
\273\251\141\142\067\050\266\055\052\366\020\206\144\311\160\247  
\322\255\267\051\160\171\352\074\332\143\045\237\375\150\267\060  
\354\160\373\165\212\267\155\140\147\262\036\310\271\351\330\250  
\157\002\213\147\015\115\046\127\161\332\040\374\301\112\120\215  
\261\050\272

END

CKA\_NSS\_MOZILLA\_CA\_POLICY

```

CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "Starfield Services Root Certificate Authority - G2"
Issuer: CN=Starfield Services Root Certificate Authority - G2,O="Starfield Technologies,
Inc.",L=Scottsdale,ST=Arizona,C=US
Serial Number: 0 (0x0)
Subject: CN=Starfield Services Root Certificate Authority - G2,O="Starfield Technologies,
Inc.",L=Scottsdale,ST=Arizona,C=US
Not Valid Before: Tue Sep 01 00:00:00 2009
Not Valid After : Thu Dec 31 23:59:59 2037
Fingerprint (SHA-256):
56:8D:69:05:A2:C8:87:08:A4:B3:02:51:90:ED:CF:ED:B1:97:4A:60:6A:13:C6:E5:29:0F:CB:2A:E6:3E:DA:B5
Fingerprint (SHA1): 92:5A:8F:8D:2C:6D:04:E0:66:5F:59:6A:FF:22:D8:63:E8:25:6F:3F
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE
CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Starfield Services Root Certificate Authority - G2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\222\132\217\215\054\155\004\340\146\137\131\152\377\042\330\143
\350\045\157\077
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\027\065\164\257\173\141\034\353\364\371\074\342\356\100\371\242
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\230\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\020\060\016\006\003\125\004\010\023\007\101\162\151\172\157
\156\141\061\023\060\021\006\003\125\004\007\023\012\123\143\157
\164\164\163\144\141\154\145\061\045\060\043\006\003\125\004\012
\023\034\123\164\141\162\146\151\145\154\144\040\124\145\143\150
\156\157\154\157\147\151\145\163\054\040\111\156\143\056\061\073
\060\071\006\003\125\004\003\023\062\123\164\141\162\146\151\145
\154\144\040\123\145\162\166\151\143\145\163\040\122\157\157\164
\040\103\145\162\164\151\146\151\143\141\164\145\040\101\165\164
\150\157\162\151\164\171\040\055\040\107\062
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\001\000
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

```

```
#
Certificate "AffirmTrust Commercial"
#
Issuer: CN=AffirmTrust Commercial,O=AffirmTrust,C=US
Serial Number:77:77:06:27:26:a9:b1:7c
Subject: CN=AffirmTrust Commercial,O=AffirmTrust,C=US
Not Valid Before: Fri Jan 29 14:06:06 2010
Not Valid After : Tue Dec 31 14:06:06 2030
Fingerprint (SHA-256):
03:76:AB:1D:54:C5:F9:80:3C:E4:B2:E2:01:A0:EE:7E:EF:7B:57:B6:36:E8:A9:3C:9B:8D:48:60:C9:6F:5F:A7
Fingerprint (SHA1): F9:B5:B6:32:45:5F:9C:BE:EC:57:5F:80:DC:E9:6E:2C:C7:B2:78:B7
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AffirmTrust Commercial"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\104\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\024\060\022\006\003\125\004\012\014\013\101\146\146\151\162\155
\124\162\165\163\164\061\037\060\035\006\003\125\004\003\014\026
\101\146\146\151\162\155\124\162\165\163\164\040\103\157\155\155
\145\162\143\151\141\154
END
CKA_ID
UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\104\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\024\060\022\006\003\125\004\012\014\013\101\146\146\151\162\155
\124\162\165\163\164\061\037\060\035\006\003\125\004\003\014\026
\101\146\146\151\162\155\124\162\165\163\164\040\103\157\155\155
\145\162\143\151\141\154
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\167\167\006\047\046\251\261\174
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\114\060\202\002\064\240\003\002\001\002\002\010\167
\167\006\047\046\251\261\174\060\015\006\011\052\206\110\206\367
\015\001\001\013\005\000\060\104\061\013\060\011\006\003\125\004
\006\023\002\125\123\061\024\060\022\006\003\125\004\012\014\013
\101\146\146\151\162\155\124\162\165\163\164\061\037\060\035\006
\003\125\004\003\014\026\101\146\146\151\162\155\124\162\165\163
\164\040\103\157\155\155\145\162\143\151\141\154\060\036\027\015
\061\060\060\061\062\071\061\064\060\066\060\066\132\027\015\063
\060\061\062\063\061\061\064\060\066\060\066\132\060\104\061\013
\060\011\006\003\125\004\006\023\002\125\123\061\024\060\022\006
```

\003\125\004\012\014\013\101\146\146\151\162\155\124\162\165\163  
\164\061\037\060\035\006\003\125\004\003\014\026\101\146\146\151  
\162\155\124\162\165\163\164\040\103\157\155\155\145\162\143\151  
\141\154\060\202\001\042\060\015\006\011\052\206\110\206\367\015  
\001\001\001\005\000\003\202\001\017\000\060\202\001\012\002\202  
\001\001\000\366\033\117\147\007\053\241\025\365\006\042\313\037  
\001\262\343\163\105\006\104\111\054\273\111\045\024\326\316\303  
\267\253\054\117\306\101\062\224\127\372\022\247\133\016\342\217  
\037\036\206\031\247\252\265\055\271\137\015\212\302\257\205\065  
\171\062\055\273\034\142\067\362\261\133\112\075\312\315\161\137  
\351\102\276\224\350\310\336\371\042\110\144\306\345\253\306\053  
\155\255\005\360\372\325\013\317\232\345\360\120\244\213\073\107  
\245\043\133\172\172\370\063\077\270\357\231\227\343\040\301\326  
\050\211\317\224\373\271\105\355\343\100\027\021\324\164\360\013  
\061\342\053\046\152\233\114\127\256\254\040\076\272\105\172\005  
\363\275\233\151\025\256\175\116\040\143\304\065\166\072\007\002  
\311\067\375\307\107\356\350\361\166\035\163\025\362\227\244\265  
\310\172\171\331\102\252\053\177\134\376\316\046\117\243\146\201  
\065\257\104\272\124\036\034\060\062\145\235\346\074\223\136\120  
\116\172\343\072\324\156\314\032\373\371\322\067\256\044\052\253  
\127\003\042\050\015\111\165\177\267\050\332\165\277\216\343\334  
\016\171\061\002\003\001\000\001\243\102\060\100\060\035\006\003  
\125\035\016\004\026\004\024\235\223\306\123\213\136\312\257\077  
\237\036\017\345\231\225\274\044\366\224\217\060\017\006\003\125  
\035\023\001\001\377\004\005\060\003\001\001\377\060\016\006\003  
\125\035\017\001\001\377\004\004\003\002\001\006\060\015\006\011  
\052\206\110\206\367\015\001\001\013\005\000\003\202\001\001\000  
\130\254\364\004\016\315\300\015\377\012\375\324\272\026\137\051  
\275\173\150\231\130\111\322\264\035\067\115\177\047\175\106\006  
\135\103\306\206\056\076\163\262\046\175\117\223\251\266\304\052  
\232\253\041\227\024\261\336\214\323\253\211\025\330\153\044\324  
\361\026\256\330\244\134\324\177\121\216\355\030\001\261\223\143  
\275\274\370\141\200\232\236\261\316\102\160\342\251\175\006\045  
\175\047\241\376\157\354\263\036\044\332\343\113\125\032\000\073  
\065\264\073\331\327\135\060\375\201\023\211\362\302\006\053\355  
\147\304\216\311\103\262\134\153\025\211\002\274\142\374\116\362  
\265\063\252\262\157\323\012\242\120\343\366\073\350\056\104\302  
\333\146\070\251\063\126\110\361\155\033\063\215\015\214\077\140  
\067\235\323\312\155\176\064\176\015\237\162\166\213\033\237\162  
\375\122\065\101\105\002\226\057\034\262\232\163\111\041\261\111  
\107\105\107\264\357\152\064\021\311\115\232\314\131\267\326\002  
\236\132\116\145\265\224\256\033\337\051\260\026\361\277\000\236  
\007\072\027\144\265\004\265\043\041\231\012\225\073\227\174\357

END

CKA\_NSS\_MOZILLA\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

```

Trust for "AffirmTrust Commercial"
Issuer: CN=AffirmTrust Commercial,O=AffirmTrust,C=US
Serial Number:77:77:06:27:26:a9:b1:7c
Subject: CN=AffirmTrust Commercial,O=AffirmTrust,C=US
Not Valid Before: Fri Jan 29 14:06:06 2010
Not Valid After : Tue Dec 31 14:06:06 2030
Fingerprint (SHA-256):
03:76:AB:1D:54:C5:F9:80:3C:E4:B2:E2:01:A0:EE:7E:EF:7B:57:B6:36:E8:A9:3C:9B:8D:48:60:C9:6F:5F:A7
Fingerprint (SHA1): F9:B5:B6:32:45:5F:9C:BE:EC:57:5F:80:DC:E9:6E:2C:C7:B2:78:B7
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AffirmTrust Commercial"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\371\265\266\062\105\137\234\276\354\127\137\200\334\351\156\054
\307\262\170\267
END
CKA_CERT_MD5_HASH
MULTILINE_OCTAL
\202\222\272\133\357\315\212\157\246\075\125\371\204\366\326\267
END
CKA_ISSUER MULTILINE_OCTAL
\060\104\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\024\060\022\006\003\125\004\012\014\013\101\146\146\151\162\155
\124\162\165\163\164\061\037\060\035\006\003\125\004\003\014\026
\101\146\146\151\162\155\124\162\165\163\164\040\103\157\155\155
\145\162\143\151\141\154
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\167\167\006\047\046\251\261\174
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "AffirmTrust Networking"
#
Issuer: CN=AffirmTrust Networking,O=AffirmTrust,C=US
Serial Number:7c:4f:04:39:1c:d4:99:2d
Subject: CN=AffirmTrust Networking,O=AffirmTrust,C=US
#
Not Valid Before: Fri Jan 29 14:08:24 2010
Not Valid After : Tue Dec 31 14:08:24 2030
Fingerprint (SHA-256):

```

0A:81:EC:5A:92:97:77:F1:45:90:4A:F3:8D:5D:50:9F:66:B5:E2:C5:8F:CD:B5:31:05:8B:0E:17:F3:F0:B4:1B  
# Fingerprint (SHA1): 29:36:21:02:8B:20:ED:02:F5:66:C5:32:D1:D6:ED:90:9F:45:00:2F  
CKA\_CLASS CK\_OBJECT\_CLASS CKO\_CERTIFICATE  
CKA\_TOKEN CK\_BBOOL CK\_TRUE  
CKA\_PRIVATE CK\_BBOOL CK\_FALSE  
CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE  
CKA\_LABEL UTF8 "AffirmTrust Networking"  
CKA\_CERTIFICATE\_TYPE CK\_CERTIFICATE\_TYPE CKC\_X\_509  
CKA\_SUBJECT MULTILINE\_OCTAL  
\060\104\061\013\060\011\006\003\125\004\006\023\002\125\123\061  
\024\060\022\006\003\125\004\012\014\013\101\146\146\151\162\155  
\124\162\165\163\164\061\037\060\035\006\003\125\004\003\014\026  
\101\146\146\151\162\155\124\162\165\163\164\040\116\145\164\167  
\157\162\153\151\156\147  
END  
CKA\_ID UTF8 "0"  
CKA\_ISSUER MULTILINE\_OCTAL  
\060\104\061\013\060\011\006\003\125\004\006\023\002\125\123\061  
\024\060\022\006\003\125\004\012\014\013\101\146\146\151\162\155  
\124\162\165\163\164\061\037\060\035\006\003\125\004\003\014\026  
\101\146\146\151\162\155\124\162\165\163\164\040\116\145\164\167  
\157\162\153\151\156\147  
END  
CKA\_SERIAL\_NUMBER  
MULTILINE\_OCTAL  
\002\010\174\117\004\071\034\324\231\055  
END  
CKA\_VALUE MULTILINE\_OCTAL  
\060\202\003\114\060\202\002\064\240\003\002\001\002\002\010\174  
\117\004\071\034\324\231\055\060\015\006\011\052\206\110\206\367  
\015\001\001\005\005\000\060\104\061\013\060\011\006\003\125\004  
\006\023\002\125\123\061\024\060\022\006\003\125\004\012\014\013  
\101\146\146\151\162\155\124\162\165\163\164\061\037\060\035\006  
\003\125\004\003\014\026\101\146\146\151\162\155\124\162\165\163  
\164\040\116\145\164\167\157\162\153\151\156\147\060\036\027\015  
\061\060\060\061\062\071\061\064\060\070\062\064\132\027\015\063  
\060\061\062\063\061\061\064\060\070\062\064\132\060\104\061\013  
\060\011\006\003\125\004\006\023\002\125\123\061\024\060\022\006  
\003\125\004\012\014\013\101\146\146\151\162\155\124\162\165\163  
\164\061\037\060\035\006\003\125\004\003\014\026\101\146\146\151  
\162\155\124\162\165\163\164\040\116\145\164\167\157\162\153\151  
\156\147\060\202\001\042\060\015\006\011\052\206\110\206\367\015  
\001\001\001\005\000\003\202\001\017\000\060\202\001\012\002\202  
\001\001\000\264\204\314\063\027\056\153\224\154\153\141\122\240  
\353\243\317\171\224\114\345\224\200\231\313\125\144\104\145\217  
\147\144\342\006\343\134\067\111\366\057\233\204\204\036\055\362  
\140\235\060\116\314\204\205\342\054\317\036\236\376\066\253\063  
\167\065\104\330\065\226\032\075\066\350\172\016\330\325\107\241

\152\151\213\331\374\273\072\256\171\132\325\364\326\161\273\232  
\220\043\153\232\267\210\164\207\014\036\137\271\236\055\372\253  
\123\053\334\273\166\076\223\114\010\010\214\036\242\043\034\324  
\152\255\042\272\231\001\056\155\145\313\276\044\146\125\044\113  
\100\104\261\033\327\341\302\205\300\336\020\077\075\355\270\374  
\361\361\043\123\334\277\145\227\157\331\371\100\161\215\175\275  
\225\324\316\276\240\136\047\043\336\375\246\320\046\016\000\051  
\353\074\106\360\075\140\277\077\120\322\334\046\101\121\236\024  
\067\102\004\243\160\127\250\033\207\355\055\372\173\356\214\012  
\343\251\146\211\031\313\101\371\335\104\066\141\317\342\167\106  
\310\175\366\364\222\201\066\375\333\064\361\162\176\363\014\026  
\275\264\025\002\003\001\000\001\243\102\060\100\060\035\006\003  
\125\035\016\004\026\004\024\007\037\322\347\234\332\302\156\242  
\100\264\260\172\120\020\120\164\304\310\275\060\017\006\003\125  
\035\023\001\001\377\004\005\060\003\001\001\377\060\016\006\003  
\125\035\017\001\001\377\004\004\003\002\001\006\060\015\006\011  
\052\206\110\206\367\015\001\001\005\005\000\003\202\001\001\000  
\211\127\262\026\172\250\302\375\326\331\233\233\064\302\234\264  
\062\024\115\247\244\337\354\276\247\276\370\103\333\221\067\316  
\264\062\056\120\125\032\065\116\166\103\161\040\357\223\167\116  
\025\160\056\207\303\301\035\155\334\313\265\047\324\054\126\321  
\122\123\072\104\322\163\310\304\033\005\145\132\142\222\234\356  
\101\215\061\333\347\064\352\131\041\325\001\172\327\144\270\144  
\071\315\311\355\257\355\113\003\110\247\240\231\001\200\334\145  
\243\066\256\145\131\110\117\202\113\310\145\361\127\035\345\131  
\056\012\077\154\330\321\365\345\011\264\154\124\000\012\340\025  
\115\207\165\155\267\130\226\132\335\155\322\000\240\364\233\110  
\276\303\067\244\272\066\340\174\207\205\227\032\025\242\336\056  
\242\133\275\257\030\371\220\120\315\160\131\370\047\147\107\313  
\307\240\007\072\175\321\054\135\154\031\072\146\265\175\375\221  
\157\202\261\276\010\223\333\024\107\361\242\067\307\105\236\074  
\307\167\257\144\250\223\337\366\151\203\202\140\362\111\102\064  
\355\132\000\124\205\034\026\066\222\014\134\372\246\255\277\333

END

CKA\_NSS\_MOZILLA\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "AffirmTrust Networking"

# Issuer: CN=AffirmTrust Networking,O=AffirmTrust,C=US

# Serial Number:7c:4f:04:39:1c:d4:99:2d

# Subject:

CN=AffirmTrust Networking,O=AffirmTrust,C=US

# Not Valid Before: Fri Jan 29 14:08:24 2010

# Not Valid After : Tue Dec 31 14:08:24 2030

# Fingerprint (SHA-256):

0A:81:EC:5A:92:97:77:F1:45:90:4A:F3:8D:5D:50:9F:66:B5:E2:C5:8F:CD:B5:31:05:8B:0E:17:F3:F0:B4:1B

```

Fingerprint (SHA1): 29:36:21:02:8B:20:ED:02:F5:66:C5:32:D1:D6:ED:90:9F:45:00:2F
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AffirmTrust Networking"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\051\066\041\002\213\040\355\002\365\146\305\062\321\326\355\220
\237\105\000\057
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\102\145\312\276\001\232\232\114\251\214\101\111\315\300\325\177
END
CKA_ISSUER MULTILINE_OCTAL
\060\104\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\024\060\022\006\003\125\004\012\014\013\101\146\146\151\162\155
\124\162\165\163\164\061\037\060\035\006\003\125\004\003\014\026
\101\146\146\151\162\155\124\162\165\163\164\040\116\145\164\167
\157\162\153\151\156\147
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\010\174\117\004\071\034\324\231\055
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "AffirmTrust Premium"
#
Issuer: CN=AffirmTrust Premium,O=AffirmTrust,C=US
Serial Number:6d:8c:14:46:b1:a6:0a:ee
Subject: CN=AffirmTrust Premium,O=AffirmTrust,C=US
Not Valid Before: Fri Jan 29 14:10:36 2010
Not Valid After : Mon Dec 31 14:10:36 2040
Fingerprint (SHA-256):
70:A7:3F:7F:37:6B:60:07:42:48:90:45:34:B1:14:82:D5:BF:0E:69:8E:CC:49:8D:F5:25:77:EB:F2:E9:3B:9A
Fingerprint (SHA1): D8:A6:33:2C:E0:03:6F:B1:85:F6:63:4F:7D:6A:06:65:26:32:28:27
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AffirmTrust Premium"
CKA_CERTIFICATE_TYPE
CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL

```



\060\101\061\013\060\011\006\003\125\004\006\023\002\125\123\061  
\024\060\022\006\003\125\004\012\014\013\101\146\146\151\162\155  
\124\162\165\163\164\061\034\060\032\006\003\125\004\003\014\023  
\101\146\146\151\162\155\124\162\165\163\164\040\120\162\145\155  
\151\165\155

END

CKA\_ID UTF8 "0"

CKA\_ISSUER MULTILINE\_OCTAL

\060\101\061\013\060\011\006\003\125\004\006\023\002\125\123\061  
\024\060\022\006\003\125\004\012\014\013\101\146\146\151\162\155  
\124\162\165\163\164\061\034\060\032\006\003\125\004\003\014\023  
\101\146\146\151\162\155\124\162\165\163\164\040\120\162\145\155  
\151\165\155

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

\002\010\155\214\024\106\261\246\012\356

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\005\106\060\202\003\056\240\003\002\001\002\002\010\155  
\214\024\106\261\246\012\356\060\015\006\011\052\206\110\206\367  
\015\001\001\014\005\000\060\101\061\013\060\011\006\003\125\004  
\006\023\002\125\123\061\024\060\022\006\003\125\004\012\014\013  
\101\146\146\151\162\155\124\162\165\163\164\061\034\060\032\006  
\003\125\004\003\014\023\101\146\146\151\162\155\124\162\165\163  
\164\040\120\162\145\155\151\165\155\060\036\027\015\061\060\060  
\061\062\071\061\064\061\060\063\066\132\027\015\064\060\061\062  
\063\061\061\064\061\060\063\066\132\060\101\061\013\060\011\006  
\003\125\004\006\023\002\125\123\061\024\060\022\006\003\125\004  
\012\014\013\101\146\146\151\162\155\124\162\165\163\164\061\034  
\060\032\006\003\125\004\003\014\023\101\146\146\151\162\155\124  
\162\165\163\164\040\120\162\145\155\151\165\155\060\202\002\042  
\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003  
\202\002\017\000\060\202\002\012\002\202\002\001\000\304\022\337  
\251\137\376\101\335\335\365\237\212\343\366\254\341\074\170\232  
\274\330\360\177\172\240\063\052\334\215\040\133\256\055\157\347  
\223\331\066\160\152\150\317\216\121\243\205\133\147\004\240\020  
\044\157\135\050\202\301\227\127\330\110\051\023\266\341\276\221  
\115\337\205\014\123\030\232\036\044\242\117\217\360\242\205\013  
\313\364\051\177\322\244\130\356\046\115\311\252\250\173\232\331  
\372\070\336\104\127\025\345\370\214\310\331\110\342\015\026\047  
\035\036\310\203\205\045\267\272\252\125\101\314\003\042\113\055  
\221\215\213\346\211\257\146\307\351\377\053\351\074\254\332\322  
\263\303\341\150\234\211\370\172\000\126\336\364\125\225\154\373  
\272\144\335\142\213\337\013\167\062\353\142\314\046\232\233\273  
\252\142\203\114\264\006\172\060\310\051\277\355\006\115\227\271  
\034\304\061\053\325\137\274\123\022\027\234\231\127\051\146\167  
\141\041\061\007\056\045\111\235\030\362\356\363\053\161\214\265  
\272\071\007\111\167\374\357\056\222\220\005\215\055\057\167\173

\357\103\277\065\273\232\330\371\163\247\054\362\320\127\356\050  
\116\046\137\217\220\150\011\057\270\370\334\006\351\056\232\076  
\121\247\321\042\304\012\247\070\110\154\263\371\377\175\253\206  
\127\343\272\326\205\170\167\272\103\352\110\177\366\330\276\043  
\155\036\277\321\066\154\130\134\361\356\244\031\124\032\365\003  
\322\166\346\341\214\275\074\263\323\110\113\342\310\370\177\222  
\250\166\106\234\102\145\076\244\036\301\007\003\132\106\055\270  
\227\363\267\325\262\125\041\357\272\334\114\000\227\373\024\225  
\047\063\277\350\103\107\106\322\010\231\026\140\073\232\176\322  
\346\355\070\352\354\001\036\074\110\126\111\011\307\114\067\000  
\236\210\016\300\163\341\157\146\351\162\107\060\076\020\345\013  
\003\311\232\102\000\154\305\224\176\141\304\212\337\177\202\032  
\013\131\304\131\062\167\263\274\140\151\126\071\375\264\006\173  
\054\326\144\066\331\275\110\355\204\037\176\245\042\217\052\270  
\102\364\202\267\324\123\220\170\116\055\032\375\201\157\104\327  
\073\001\164\226\102\340\000\342\056\153\352\305\356\162\254\273  
\277\376\352\252\250\370\334\366\262\171\212\266\147\002\003\001  
\000\001\243\102\060\100\060\035\006\003\125\035\016\004\026\004  
\024\235\300\147\246\014\042\331\046\365\105\253\246\145\122\021  
\047\330\105\254\143\060\017\006\003\125\035\023\001\001\377\004  
\005\060\003\001\001\377\060\016\006\003\125\035\017\001\001\377  
\004\004\003\002\001\006\060\015\006\011\052\206\110\206\367\015  
\001\001\014\005\000\003\202\002\001\000\263\127\115\020\142\116  
\072\344\254\352\270\034\257\062\043\310\263\111\132\121\234\166  
\050\215\171\252\127\106\027\325\365\122\366\267\104\350\010\104  
\277\030\204\322\013\200\315\305\022\375\000\125\005\141\207\101  
\334\265\044\236\074\304\330\310\373\160\236\057\170\226\203\040  
\066\336\174\017\151\023\210\245\165\066\230\010\246\306\337\254  
\316\343\130\326\267\076\336\272\363\353\064\100\330\242\201\365  
\170\077\057\325\245\374\331\242\324\136\004\016\027\255\376\101  
\360\345\262\162\372\104\202\063\102\350\055\130\367\126\214\142  
\077\272\102\260\234\014\134\176\056\145\046\134\123\117\000\262  
\170\176\241\015\231\055\215\270\035\216\242\304\260\375\140\320  
\060\244\216\310\004\142\251\304\355\065\336\172\227\355\016\070  
\136\222\057\223\160\245\251\234\157\247\175\023\035\176\306\010  
\110\261\136\147\353\121\010\045\351\346\045\153\122\051\221\234  
\322\071\163\010\127\336\231\006\264\133\235\020\006\341\302\000  
\250\270\034\112\002\012\024\320\301\101\312\373\214\065\041\175  
\202\070\362\251\124\221\031\065\223\224\155\152\072\305\262\320  
\273\211\206\223\350\233\311\017\072\247\172\270\241\360\170\106  
\372\374\067\057\345\212\204\363\337\376\004\331\241\150\240\057  
\044\342\011\225\006\325\225\312\341\044\226\353\174\366\223\005  
\273\355\163\351\055\321\165\071\327\347\044\333\330\116\137\103  
\217\236\320\024\071\277\125\160\110\231\127\061\264\234\356\112  
\230\003\226\060\037\140\006\356\033\043\376\201\140\043\032\107  
\142\205\245\314\031\064\200\157\263\254\032\343\237\360\173\110  
\255\325\001\331\147\266\251\162\223\352\055\146\265\262\270\344  
\075\074\262\357\114\214\352\353\007\277\253\065\232\125\206\274

```
\030\246\265\250\136\264\203\154\153\151\100\323\237\334\361\303
\151\153\271\341\155\011\364\361\252\120\166\012\172\175\172\027
\241\125\226\102\231\061\011\335\140\021\215\005\060\176\346\216
\106\321\235\024\332\307\027\344\005\226\214\304\044\265\033\317
\024\007\262\100\370\243\236\101\206\274\004\320\153\226\310\052
\200\064\375\277\357\006\243\335\130\305\205\075\076\217\376\236
\051\340\266\270\011\150\031\034\030\103
```

END

CKA\_NSS\_Mozilla\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "AffirmTrust Premium"

# Issuer: CN=AffirmTrust Premium,O=AffirmTrust,C=US

# Serial Number:6d:8c:14:46:b1:a6:0a:ee

# Subject: CN=AffirmTrust Premium,O=AffirmTrust,C=US

# Not Valid Before: Fri Jan 29 14:10:36 2010

# Not Valid After : Mon Dec 31 14:10:36 2040

# Fingerprint (SHA-256):

70:A7:3F:7F:37:6B:60:07:42:48:90:45:34:B1:14:82:D5:BF:0E:69:8E:CC:49:8D:F5:25:77:EB:F2:E9:3B:9A

# Fingerprint (SHA1): D8:A6:33:2C:E0:03:6F:B1:85:F6:63:4F:7D:6A:06:65:26:32:28:27

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE

CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "AffirmTrust Premium"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

```
\330\246\063\054\340\003\157\261\205\366\143\117\175\152\006\145
\046\062\050\047
```

END

CKA\_CERT\_MD5\_HASH MULTILINE\_OCTAL

```
\304\135\016\110\266\254\050\060\116\012\274\371\070\026\207\127
```

CKA\_ISSUER MULTILINE\_OCTAL

```
\060\101\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\024\060\022\006\003\125\004\012\014\013\101\146\146\151\162\155
\124\162\165\163\164\061\034\060\032\006\003\125\004\003\014\023
\101\146\146\151\162\155\124\162\165\163\164\040\120\162\145\155
\151\165\155
```

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

```
\002\010\155\214\024\106\261\246\012\356
```

END

CKA\_TRUST\_SERVER\_AUTH CK\_TRUST CKT\_NSS\_TRUSTED\_DELEGATOR

CKA\_TRUST\_EMAIL\_PROTECTION CK\_TRUST CKT\_NSS\_MUST\_VERIFY\_TRUST

CKA\_TRUST\_CODE\_SIGNING CK\_TRUST CKT\_NSS\_MUST\_VERIFY\_TRUST

CKA\_TRUST\_STEP\_UP\_APPROVED CK\_BBOOL CK\_FALSE

#

# Certificate "AffirmTrust Premium ECC"

#

# Issuer: CN=AffirmTrust Premium ECC,O=AffirmTrust,C=US

# Serial

Number:74:97:25:8a:c7:3f:7a:54

# Subject: CN=AffirmTrust Premium ECC,O=AffirmTrust,C=US

# Not Valid Before: Fri Jan 29 14:20:24 2010

# Not Valid After : Mon Dec 31 14:20:24 2040

# Fingerprint (SHA-256):

BD:71:FD:F6:DA:97:E4:CF:62:D1:64:7A:DD:25:81:B0:7D:79:AD:F8:39:7E:B4:EC:BA:9C:5E:84:88:82:14:23

# Fingerprint (SHA1): B8:23:6B:00:2F:1D:16:86:53:01:55:6C:11:A4:37:CA:EB:FF:C3:BB

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_CERTIFICATE

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "AffirmTrust Premium ECC"

CKA\_CERTIFICATE\_TYPE CK\_CERTIFICATE\_TYPE CKC\_X\_509

CKA\_SUBJECT MULTILINE\_OCTAL

\060\105\061\013\060\011\006\003\125\004\006\023\002\125\123\061  
\024\060\022\006\003\125\004\012\014\013\101\146\146\151\162\155  
\124\162\165\163\164\061\040\060\036\006\003\125\004\003\014\027  
\101\146\146\151\162\155\124\162\165\163\164\040\120\162\145\155  
\151\165\155\040\105\103\103

END

CKA\_ID UTF8 "0"

CKA\_ISSUER MULTILINE\_OCTAL

\060\105\061\013\060\011\006\003\125\004\006\023\002\125\123\061  
\024\060\022\006\003\125\004\012\014\013\101\146\146\151\162\155  
\124\162\165\163\164\061\040\060\036\006\003\125\004\003\014\027  
\101\146\146\151\162\155\124\162\165\163\164\040\120\162\145\155  
\151\165\155\040\105\103\103

END

CKA\_SERIAL\_NUMBER

MULTILINE\_OCTAL

\002\010\164\227\045\212\307\077\172\124

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\001\376\060\202\001\205\240\003\002\001\002\002\010\164  
\227\045\212\307\077\172\124\060\012\006\010\052\206\110\316\075  
\004\003\003\060\105\061\013\060\011\006\003\125\004\006\023\002  
\125\123\061\024\060\022\006\003\125\004\012\014\013\101\146\146  
\151\162\155\124\162\165\163\164\061\040\060\036\006\003\125\004  
\003\014\027\101\146\146\151\162\155\124\162\165\163\164\040\120  
\162\145\155\151\165\155\040\105\103\103\060\036\027\015\061\060  
\060\061\062\071\061\064\062\060\062\064\132\027\015\064\060\061

\062\063\061\061\064\062\060\062\064\132\060\105\061\013\060\011  
\006\003\125\004\006\023\002\125\123\061\024\060\022\006\003\125  
\004\012\014\013\101\146\146\151\162\155\124\162\165\163\164\061  
\040\060\036\006\003\125\004\003\014\027\101\146\146\151\162\155  
\124\162\165\163\164\040\120\162\145\155\151\165\155\040\105\103  
\103\060\166\060\020\006\007\052\206\110\316\075\002\001\006\005  
\053\201\004\000\042\003\142\000\004\015\060\136\033\025\235\003  
\320\241\171\065\267\072\074\222\172\312\025\034\315\142\363\234  
\046\134\007\075\345\124\372\243\326\314\022\352\364\024\137\350  
\216\031\253\057\056\110\346\254\030\103\170\254\320\067\303\275  
\262\315\054\346\107\342\032\346\143\270\075\056\057\170\304\117  
\333\364\017\244\150\114\125\162\153\225\035\116\030\102\225\170  
\314\067\074\221\342\233\145\053\051\243\102\060\100\060\035\006  
\003\125\035\016\004\026\004\024\232\257\051\172\300\021\065\065  
\046\121\060\000\303\152\376\100\325\256\326\074\060\017\006\003  
\125\035\023\001\001\377\004\005\060\003\001\001\377\060\016\006  
\003\125\035\017\001\001\377\004\004\003\002\001\006\060\012\006  
\010\052\206\110\316\075\004\003\003\003\147\000\060\144\002\060  
\027\011\363\207\210\120\132\257\310\300\102\277\107\137\365\154  
\152\206\340\304\047\164\344\070\123\327\005\177\033\064\343\306  
\057\263\312\011\074\067\235\327\347\270\106\361\375\241\342\161  
\002\060\102\131\207\103\324\121\337\272\323\011\062\132\316\210  
\176\127\075\234\137\102\153\365\007\055\265\360\202\223\371\131  
\157\256\144\372\130\345\213\036\343\143\276\265\201\315\157\002  
\214\171

END

CKA\_NSS\_MOZILLA\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "AffirmTrust Premium ECC"

# Issuer: CN=AffirmTrust Premium ECC,O=AffirmTrust,C=US

# Serial Number:74:97:25:8a:c7:3f:7a:54

# Subject: CN=AffirmTrust Premium ECC,O=AffirmTrust,C=US

# Not Valid Before: Fri Jan 29 14:20:24 2010

# Not Valid After : Mon Dec 31 14:20:24 2040

# Fingerprint (SHA-256):

BD:71:FD:F6:DA:97:E4:CF:62:D1:64:7A:DD:25:81:B0:7D:79:AD:F8:39:7E:B4:EC:BA:9C:5E:84:88:82:14:23

#

Fingerprint (SHA1): B8:23:6B:00:2F:1D:16:86:53:01:55:6C:11:A4:37:CA:EB:FF:C3:BB

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "AffirmTrust Premium ECC"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

\270\043\153\000\057\035\026\206\123\001\125\154\021\244\067\312

```

\353\377\303\273
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\144\260\011\125\317\261\325\231\342\276\023\253\246\135\352\115
END
CKA_ISSUER MULTILINE_OCTAL
\060\105\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\024\060\022\006\003\125\004\012\014\013\101\146\146\151\162\155
\124\162\165\163\164\061\040\060\036\006\003\125\004\003\014\027
\101\146\146\151\162\155\124\162\165\163\164\040\120\162\145\155
\151\165\155\040\105\103\103
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\164\227\045\212\307\077\172\124
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING
CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Certum Trusted Network CA"
#
Issuer: CN=Certum Trusted Network CA,OU=Certum Certification Authority,O=Unizeto Technologies
S.A.,C=PL
Serial Number: 279744 (0x444c0)
Subject: CN=Certum Trusted Network CA,OU=Certum Certification Authority,O=Unizeto Technologies
S.A.,C=PL
Not Valid Before: Wed Oct 22 12:07:37 2008
Not Valid After : Mon Dec 31 12:07:37 2029
Fingerprint (SHA-256):
5C:58:46:8D:55:F5:8E:49:7E:74:39:82:D2:B5:00:10:B6:D1:65:37:4A:CF:83:A7:D4:A3:2D:B7:68:C4:40:8E
Fingerprint (SHA1): 07:E0:32:E0:20:B7:2C:3F:19:2F:06:28:A2:59:3A:19:A7:0F:06:9E
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certum Trusted Network CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\176\061\013\060\011\006\003\125\004\006\023\002\120\114\061
\042\060\040\006\003\125\004\012\023\031\125\156\151\172\145\164
\157\040\124\145\143\150\156\157\154\157\147\151\145\163\040\123
\056\101\056\061\047\060\045\006\003\125\004\013\023\036\103\145
\162\164\165\155\040\103\145\162\164\151\146\151\143\141\164\151
\157\156\040\101\165\164\150\157\162\151\164\171\061\042\060\040
\006\003\125\004\003\023\031\103\145\162\164\165\155\040\124\162

```

```
\165\163\164\145\144\040\116\145\164\167\157\162\153\040\103\101
END
CKA_ID
UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\176\061\013\060\011\006\003\125\004\006\023\002\120\114\061
\042\060\040\006\003\125\004\012\023\031\125\156\151\172\145\164
\157\040\124\145\143\150\156\157\154\157\147\151\145\163\040\123
\056\101\056\061\047\060\045\006\003\125\004\013\023\036\103\145
\162\164\165\155\040\103\145\162\164\151\146\151\143\141\164\151
\157\156\040\101\165\164\150\157\162\151\164\171\061\042\060\040
\006\003\125\004\003\023\031\103\145\162\164\165\155\040\124\162
\165\163\164\145\144\040\116\145\164\167\157\162\153\040\103\101
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\003\004\104\300
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\273\060\202\002\243\240\003\002\001\002\002\003\004
\104\300\060\015\006\011\052\206\110\206\367\015\001\001\005\005
\000\060\176\061\013\060\011\006\003\125\004\006\023\002\120\114
\061\042\060\040\006\003\125\004\012\023\031\125\156\151\172\145
\164\157\040\124\145\143\150\156\157\154\157\147\151\145\163\040
\123\056\101\056\061\047\060\045\006\003\125\004\013\023\036\103
\145\162\164\165\155\040\103\145\162\164\151\146\151\143\141\164
\151\157\156\040\101\165\164\150\157\162\151\164\171\061\042\060
\040\006\003\125\004\003\023\031\103\145\162\164\165\155\040\124
\162\165\163\164\145\144\040\116\145\164\167\157\162\153\040\103
\101\060\036\027\015\060\070\061\060\062\062\061\062\060\067\063
\067\132\027\015\062\071\061\062\063\061\061\062\060\067\063\067
\132\060\176\061\013\060\011\006\003\125\004\006\023\002\120\114
\061\042\060\040\006\003\125\004\012\023\031\125\156\151\172\145
\164\157\040\124\145\143\150\156\157\154\157\147\151\145\163\040
\123\056\101\056\061\047\060\045\006\003\125\004\013\023\036\103
\145\162\164\165\155\040\103\145\162\164\151\146\151\143\141\164
\151\157\156\040\101\165\164\150\157\162\151\164\171\061\042\060
\040\006\003\125\004\003\023\031\103\145\162\164\165\155\040\124
\162\165\163\164\145\144\040\116\145\164\167\157\162\153\040\103
\101\060\202\001\042\060\015\006\011\052\206\110\206\367\015\001
\001\001\005\000\003\202\001\017\000\060\202\001\012\002\202\001
\001\000\343\373\175\243\162\272\302\360\311\024\207\365\153\001
\116\341\156\100\007\272\155\047\135\177\367\133\055\263\132\307
\121\137\253\244\062\246\141\207\266\156\017\206\322\060\002\227
\370\327\151\127\241\030\071\135\152\144\171\306\001\131\254\074
\061\112\070\174\322\004\322\113\050\350\040\137\073\007\242\314
\115\163\333\363\256\117\307\126\325\132\247\226\211\372\363\253
\150\324\043\206\131\047\317\011\047\274\254\156\162\203\034\060
```

\162\337\340\242\351\322\341\164\165\031\275\052\236\173\025\124  
\004\033\327\103\071\255\125\050\305\342\032\273\364\300\344\256  
\070\111\063\314\166\205\237\071\105\322\244\236\362\022\214\121  
\370\174\344\055\177\365\254\137\353\026\237\261\055\321\272\314  
\221\102\167\114\045\311\220\070\157\333\360\314\373\216\036\227  
\131\076\325\140\116\346\005\050\355\111\171\023\113\272\110\333  
\057\371\162\323\071\312\376\037\330\064\162\365\264\100\317\061  
\001\303\354\336\021\055\027\135\037\270\120\321\136\031\247\151  
\336\007\063\050\312\120\225\371\247\124\313\124\206\120\105\251  
\371\111\002\003\001\000\001\243\102\060\100\060\017\006\003\125  
\035\023\001\001\377\004\005\060\003\001\001\377\060\035\006\003  
\125\035\016\004\026\004\024\010\166\315\313\007\377\044\366\305  
\315\355\273\220\274\342\204\067\106\165\367\060\016\006\003\125  
\035\017\001\001\377\004\004\003\002\001\006\060\015\006\011\052  
\206\110\206\367\015\001\001\005\005\000\003\202\001\001\000\246  
\250\255\042\316\001\075\246\243\377\142\320\110\235\213\136\162  
\260\170\104\343\334\034\257\011\375\043\110\372\275\052\304\271  
\125\004\265\020\243\215\047\336\013\202\143\320\356\336\014\067  
\171\101\133\042\262\260\232\101\134\246\160\340\324\320\167\313  
\043\323\000\340\154\126\057\341\151\015\015\331\252\277\041\201  
\120\331\006\245\250\377\225\067\320\252\376\342\263\365\231\055  
\105\204\212\345\102\011\327\164\002\057\367\211\330\231\351\274  
\047\324\107\215\272\015\106\034\167\317\024\244\034\271\244\061  
\304\234\050\164\003\064\377\063\031\046\245\351\015\164\267\076  
\227\306\166\350\047\226\243\146\335\341\256\362\101\133\312\230  
\126\203\163\160\344\206\032\322\061\101\272\057\276\055\023\132  
\166\157\116\350\116\201\016\077\133\003\042\240\022\276\146\130  
\021\112\313\003\304\264\052\052\055\226\027\340\071\124\274\110  
\323\166\047\235\232\055\006\246\311\354\071\322\253\333\237\232  
\013\047\002\065\051\261\100\225\347\371\350\234\125\210\031\106  
\326\267\064\365\176\316\071\232\331\070\361\121\367\117\054

END

CKA\_NSS\_MOZILLA\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "Certum Trusted Network CA"

# Issuer: CN=Certum Trusted Network CA,OU=Certum Certification Authority,O=Unizeto Technologies  
S.A.,C=PL

# Serial Number: 279744 (0x444c0)

# Subject: CN=Certum Trusted Network CA,OU=Certum Certification Authority,O=Unizeto Technologies  
S.A.,C=PL

# Not Valid Before: Wed Oct 22 12:07:37 2008

# Not Valid After : Mon Dec 31 12:07:37 2029

# Fingerprint (SHA-256):

5C:58:46:8D:55:F5:8E:49:7E:74:39:82:D2:B5:00:10:B6:D1:65:37:4A:CF:83:A7:D4:A3:2D:B7:68:C4:40:8E

# Fingerprint (SHA1): 07:E0:32:E0:20:B7:2C:3F:19:2F:06:28:A2:59:3A:19:A7:0F:06:9E



```

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certum Trusted Network CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\007\340\062\340\040\267\054\077\031\057\006\050\242\131\072\031
\247\017\006\236
END
CKA_CERT_MD5_HASH
MULTILINE_OCTAL
\325\351\201\100\305\030\151\374\106\054\211\165\142\017\252\170
END
CKA_ISSUER MULTILINE_OCTAL
\060\176\061\013\060\011\006\003\125\004\006\023\002\120\114\061
\042\060\040\006\003\125\004\012\023\031\125\156\151\172\145\164
\157\040\124\145\143\150\156\157\154\157\147\151\145\163\040\123
\056\101\056\061\047\060\045\006\003\125\004\013\023\036\103\145
\162\164\165\155\040\103\145\162\164\151\146\151\143\141\164\151
\157\156\040\101\165\164\150\157\162\151\164\171\061\042\060\040
\006\003\125\004\003\023\031\103\145\162\164\165\155\040\124\162
\165\163\164\145\144\040\116\145\164\167\157\162\153\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\003\004\104\300
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "TWCA Root Certification
 Authority"
#
Issuer: CN=TWCA Root Certification Authority,OU=Root CA,O=TAIWAN-CA,C=TW
Serial Number: 1 (0x1)
Subject: CN=TWCA Root Certification Authority,OU=Root CA,O=TAIWAN-CA,C=TW
Not Valid Before: Thu Aug 28 07:24:33 2008
Not Valid After : Tue Dec 31 15:59:59 2030
Fingerprint (SHA-256):
BF:D8:8F:E1:10:1C:41:AE:3E:80:1B:F8:BE:56:35:0E:E9:BA:D1:A6:B9:BD:51:5E:DC:5C:6D:5B:87:11:AC:44
Fingerprint (SHA1): CF:9E:87:6D:D3:EB:FC:42:26:97:A3:B5:A3:7A:A0:76:A9:06:23:48
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TWCA Root Certification Authority"

```

CKA\_CERTIFICATE\_TYPE CK\_CERTIFICATE\_TYPE CKC\_X\_509

CKA\_SUBJECT MULTILINE\_OCTAL

\060\137\061\013\060\011\006\003\125\004\006\023\002\124\127\061  
\022\060\020\006\003\125\004\012\014\011\124\101\111\127\101\116  
\055\103\101\061\020\060\016\006\003\125\004\013\014\007\122\157  
\157\164\040\103\101\061\052\060\050\006\003\125\004\003\014\041  
\124\127\103\101\040\122\157\157\164\040\103\145\162\164\151\146  
\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164  
\171

END

CKA\_ID

UTF8 "0"

CKA\_ISSUER MULTILINE\_OCTAL

\060\137\061\013\060\011\006\003\125\004\006\023\002\124\127\061  
\022\060\020\006\003\125\004\012\014\011\124\101\111\127\101\116  
\055\103\101\061\020\060\016\006\003\125\004\013\014\007\122\157  
\157\164\040\103\101\061\052\060\050\006\003\125\004\003\014\041  
\124\127\103\101\040\122\157\157\164\040\103\145\162\164\151\146  
\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164  
\171

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

\002\001\001

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\003\173\060\202\002\143\240\003\002\001\002\002\001\001  
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060  
\137\061\013\060\011\006\003\125\004\006\023\002\124\127\061\022  
\060\020\006\003\125\004\012\014\011\124\101\111\127\101\116\055  
\103\101\061\020\060\016\006\003\125\004\013\014\007\122\157\157  
\164\040\103\101\061\052\060\050\006\003\125\004\003\014\041\124  
\127\103\101\040\122\157\157\164\040\103\145\162\164\151\146\151  
\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171  
\060\036\027\015\060\070\060\070\062\070\060\067\062\064\063\063  
\132\027\015\063\060\061\062\063\061\061\065\065\071\065\071\132  
\060\137\061\013\060\011\006\003\125\004\006\023\002\124\127\061  
\022\060\020\006\003\125\004\012\014\011\124\101\111\127\101\116  
\055\103\101\061\020\060\016\006\003\125\004\013\014\007\122\157  
\157\164\040\103\101\061\052\060\050\006\003\125\004\003\014\041  
\124\127\103\101\040\122\157\157\164\040\103\145\162\164\151\146  
\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164  
\171\060\202\001\042\060\015\006\011\052\206\110\206\367\015\001  
\001\001\005\000\003\202\001\017\000\060\202\001\012\002\202\001  
\001\000\260\176\162\270\244\003\224\346\247\336\011\070\221\112  
\021\100\207\247\174\131\144\024\173\265\021\020\335\376\277\325  
\300\273\126\342\205\045\364\065\162\017\370\123\320\101\341\104  
\001\302\264\034\303\061\102\026\107\205\063\042\166\262\012\157  
\017\345\045\120\117\205\206\276\277\230\056\020\147\036\276\021

\005\206\005\220\304\131\320\174\170\020\260\200\134\267\341\307  
\053\165\313\174\237\256\265\321\235\043\067\143\247\334\102\242  
\055\222\004\033\120\301\173\270\076\033\311\126\004\213\057\122  
\233\255\251\126\351\301\377\255\251\130\207\060\266\201\367\227  
\105\374\031\127\073\053\157\344\107\364\231\105\376\035\361\370  
\227\243\210\035\067\034\134\217\340\166\045\232\120\370\240\124  
\377\104\220\166\043\322\062\306\303\253\006\277\374\373\277\363  
\255\175\222\142\002\133\051\323\065\243\223\232\103\144\140\135  
\262\372\062\377\073\004\257\115\100\152\371\307\343\357\043\375  
\153\313\345\017\213\070\015\356\012\374\376\017\230\237\060\061  
\335\154\122\145\371\213\201\276\042\341\034\130\003\272\221\033  
\211\007\002\003\001\000\001\243\102\060\100\060\016\006\003\125  
\035\017\001\001\377\004\004\003\002\001\006\060\017\006\003\125  
\035\023\001\001\377\004\005\060\003\001\001\377\060\035\006\003  
\125\035\016\004\026\004\024\152\070\133\046\215\336\213\132\362  
\117\172\124\203\031\030\343\010\065\246\272\060\015\006\011\052  
\206\110\206\367\015\001\001\005\005\000\003\202\001\001\000\074  
\325\167\075\332\337\211\272\207\014\010\124\152\040\120\222\276  
\260\101\075\271\046\144\203\012\057\350\100\300\227\050\047\202  
\060\112\311\223\377\152\347\246\000\177\211\102\232\326\021\345  
\123\316\057\314\362\332\005\304\376\342\120\304\072\206\175\314  
\332\176\020\011\073\222\065\052\123\262\376\353\053\005\331\154  
\135\346\320\357\323\152\146\236\025\050\205\172\350\202\000\254  
\036\247\011\151\126\102\323\150\121\030\276\124\232\277\104\101  
\272\111\276\040\272\151\134\356\270\167\315\316\154\037\255\203  
\226\030\175\016\265\024\071\204\361\050\351\055\243\236\173\036  
\172\162\132\203\263\171\157\357\264\374\320\012\245\130\117\106  
\337\373\155\171\131\362\204\042\122\256\017\314\373\174\073\347  
\152\312\107\141\303\172\370\323\222\004\037\270\040\204\341\066  
\124\026\307\100\336\073\212\163\334\337\306\011\114\337\354\332  
\377\324\123\102\241\311\362\142\035\042\203\074\227\305\371\031  
\142\047\254\145\042\327\323\074\306\345\216\262\123\314\111\316  
\274\060\376\173\016\063\220\373\355\322\024\221\037\007\257

END

CKA\_NSS\_MOZILLA\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRUST\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRUST\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "TWCA Root Certification Authority"

# Issuer: CN=TWCA Root Certification Authority,OU=Root CA,O=TAIWAN-CA,C=TW

# Serial Number: 1 (0x1)

# Subject: CN=TWCA Root Certification Authority,OU=Root CA,O=TAIWAN-CA,C=TW

# Not Valid Before: Thu Aug 28 07:24:33 2008

# Not Valid After : Tue Dec 31 15:59:59 2030

# Fingerprint (SHA-256):

BF:D8:8F:E1:10:1C:41:AE:3E:80:1B:F8:BE:56:35:0E:E9:BA:D1:A6:B9:BD:51:5E:DC:5C:6D:5B:87:11:AC:44

# Fingerprint (SHA1): CF:9E:87:6D:D3:EB:FC:42:26:97:A3:B5:A3:7A:A0:76:A9:06:23:48

```

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN
CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TWCA Root Certification Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\317\236\207\155\323\353\374\102\046\227\243\265\243\172\240\166
\251\006\043\110
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\252\010\217\366\371\173\267\362\261\247\036\233\352\352\275\171
END
CKA_ISSUER MULTILINE_OCTAL
\060\137\061\013\060\011\006\003\125\004\006\023\002\124\127\061
\022\060\020\006\003\125\004\012\014\011\124\101\111\127\101\116
\055\103\101\061\020\060\016\006\003\125\004\013\014\007\122\157
\157\164\040\103\101\061\052\060\050\006\003\125\004\003\014\041
\124\127\103\101\040\122\157\157\164\040\103\145\162\164\151\146
\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164
\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST
CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Explicitly Distrust DigiNotar Root CA"
#
Issuer: E=info@diginotar.nl,CN=DigiNotar Root CA,O=DigiNotar,C=NL
Serial Number:0f:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff
Subject: E=info@diginotar.nl,CN=DigiNotar Root CA,O=DigiNotar,C=NL
Not Valid Before: Fri Jul 27 17:19:37 2007
Not Valid After : Mon Mar 31 18:19:22 2025
Fingerprint (MD5): 0A:A4:D5:CC:BA:B4:FB:A3:59:E3:E6:01:DD:53:D9:4E
Fingerprint (SHA1): C1:77:CB:4B:E0:B4:26:8E:F5:C7:CF:45:99:22:B9:B0:CE:BA:21:2F
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Explicitly Distrust DigiNotar Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL

```

\060\137\061\013\060\011\006\003\125\004\006\023\002\116\114\061  
\022\060\020\006\003\125\004\012\023\011\104\151\147\151\116\157  
\164\141\162\061\032\060\030\006\003\125\004\003\023\021\104\151  
\147\151\116\157\164\141\162\040\122\157\157\164\040\103\101\061  
\040\060\036\006\011\052\206\110\206\367\015\001\011\001\026\021  
\151\156\146\157\100\144\151\147\151\156\157\164\141\162\056\156  
\154

END

CKA\_ID

UTF8 "0"

CKA\_ISSUER MULTILINE\_OCTAL

\060\137\061\013\060\011\006\003\125\004\006\023\002\116\114\061  
\022\060\020\006\003\125\004\012\023\011\104\151\147\151\116\157  
\164\141\162\061\032\060\030\006\003\125\004\003\023\021\104\151  
\147\151\116\157\164\141\162\040\122\157\157\164\040\103\101\061  
\040\060\036\006\011\052\206\110\206\367\015\001\011\001\026\021  
\151\156\146\157\100\144\151\147\151\156\157\164\141\162\056\156  
\154

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

\002\020\017\377\377\377\377\377\377\377\377\377\377\377\377\377  
\377\377

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\005\212\060\202\003\162\240\003\002\001\002\002\020\017  
\377\377\377\377\377\377\377\377\377\377\377\377\377\377\377\060  
\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060\137  
\061\013\060\011\006\003\125\004\006\023\002\116\114\061\022\060  
\020\006\003\125\004\012\023\011\104\151\147\151\116\157\164\141  
\162\061\032\060\030\006\003\125\004\003\023\021\104\151\147\151  
\116\157\164\141\162\040\122\157\157\164\040\103\101\061\040\060  
\036\006\011\052\206\110\206\367\015\001\011\001\026\021\151\156  
\146\157\100\144\151\147\151\156\157\164\141\162\056\156\154\060  
\036\027\015\060\067\060\067\062\067\061\067\061\071\063\067\132  
\027\015\062\065\060\063\063\061\061\070\061\071\062\062\132\060  
\137\061\013\060\011\006\003\125\004\006\023\002\116\114\061\022  
\060\020\006\003\125\004\012\023\011\104\151\147\151\116\157\164  
\141\162\061\032\060\030\006\003\125\004\003\023\021\104\151\147  
\151\116\157\164\141\162\040\122\157\157\164\040\103\101\061\040  
\060\036\006\011\052\206\110\206\367\015\001\011\001\026\021\151  
\156\146\157\100\144\151\147\151\156\157\164\141\162\056\156\154  
\060\202\002\042\060\015\006\011\052\206\110\206\367\015\001\001  
\001\005\000\003\202\002\017\000\060\202\002\012\002\202\002\001  
\000\254\260\130\301\000\275\330\041\010\013\053\232\376\156\126  
\060\005\237\033\167\220\020\101\134\303\015\207\021\167\216\201  
\361\312\174\351\214\152\355\070\164\065\273\332\337\371\273\300  
\011\067\264\226\163\201\175\063\032\230\071\367\223\157\225\177  
\075\271\261\165\207\272\121\110\350\213\160\076\225\004\305\330

\266\303\026\331\210\260\261\207\035\160\332\206\264\017\024\213  
\172\317\020\321\164\066\242\022\173\167\206\112\171\346\173\337  
\002\021\150\245\116\206\256\064\130\233\044\023\170\126\042\045  
\036\001\213\113\121\161\373\202\314\131\226\151\210\132\150\123  
\305\271\015\002\067\313\113\274\146\112\220\176\052\013\005\007  
\355\026\137\125\220\165\330\106\311\033\203\342\010\276\361\043  
\314\231\035\326\052\017\203\040\025\130\047\202\056\372\342\042  
\302\111\261\271\001\201\152\235\155\235\100\167\150\166\116\041  
\052\155\204\100\205\116\166\231\174\202\363\363\267\002\131\324  
\046\001\033\216\337\255\123\006\321\256\030\335\342\262\072\313  
\327\210\070\216\254\133\051\271\031\323\230\371\030\003\317\110  
\202\206\146\013\033\151\017\311\353\070\210\172\046\032\005\114  
\222\327\044\324\226\362\254\122\055\243\107\325\122\366\077\376  
\316\204\006\160\246\252\076\242\362\266\126\064\030\127\242\344  
\201\155\347\312\360\152\323\307\221\153\002\203\101\174\025\357  
\153\232\144\136\343\320\074\345\261\353\173\135\206\373\313\346  
\167\111\315\243\145\334\367\271\234\270\344\013\137\223\317\314  
\060\032\062\034\316\034\143\225\245\371\352\341\164\213\236\351  
\053\251\060\173\240\030\037\016\030\013\345\133\251\323\321\154  
\036\007\147\217\221\113\251\212\274\322\146\252\223\001\210\262  
\221\372\061\134\325\246\301\122\010\011\315\012\143\242\323\042  
\246\350\241\331\071\006\227\365\156\215\002\220\214\024\173\077  
\200\315\033\234\272\304\130\162\043\257\266\126\237\306\172\102  
\063\051\007\077\202\311\346\037\005\015\315\114\050\066\213\323  
\310\076\034\306\210\357\136\356\211\144\351\035\353\332\211\176  
\062\246\151\321\335\314\210\237\321\320\311\146\041\334\006\147  
\305\224\172\232\155\142\114\175\314\340\144\200\262\236\107\216  
\243\002\003\001\000\001\243\102\060\100\060\017\006\003\125\035  
\023\001\001\377\004\005\060\003\001\001\377\060\016\006\003\125  
\035\017\001\001\377\004\004\003\002\001\006\060\035\006\003\125  
\035\016\004\026\004\024\210\150\277\340\216\065\304\073\070\153  
\142\367\050\073\204\201\310\014\327\115\060\015\006\011\052\206  
\110\206\367\015\001\001\005\005\000\003\202\002\001\000\073\002  
\215\313\074\060\350\156\240\255\362\163\263\137\236\045\023\004  
\005\323\366\343\213\273\013\171\316\123\336\344\226\305\321\257  
\163\274\325\303\320\100\125\174\100\177\315\033\137\011\325\362  
\174\237\150\035\273\135\316\172\071\302\214\326\230\173\305\203  
\125\250\325\175\100\312\340\036\367\211\136\143\135\241\023\302  
\135\212\266\212\174\000\363\043\303\355\205\137\161\166\360\150  
\143\252\105\041\071\110\141\170\066\334\361\103\223\324\045\307  
\362\200\145\341\123\002\165\121\374\172\072\357\067\253\204\050  
\127\014\330\324\324\231\126\154\343\242\376\131\204\264\061\350  
\063\370\144\224\224\121\227\253\071\305\113\355\332\335\200\013  
\157\174\051\015\304\216\212\162\015\347\123\024\262\140\101\075  
\204\221\061\150\075\047\104\333\345\336\364\372\143\105\310\114  
\076\230\365\077\101\272\116\313\067\015\272\146\230\361\335\313  
\237\134\367\124\066\202\153\054\274\023\141\227\102\370\170\273  
\314\310\242\237\312\360\150\275\153\035\262\337\215\157\007\235

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\332\216\147\307\107\036\312\271\277\052\102\221\267\143\123\146
\361\102\243\341\364\132\115\130\153\265\344\244\063\255\134\160
\035\334\340\362\353\163\024\221\232\003\301\352\000\145\274\007
\374\317\022\021\042\054\256\240\275\072\340\242\052\330\131\351
\051\323\030\065\244\254\021\137\031\265\265\033\377\042\112\134
\306\172\344\027\357\040\251\247\364\077\255\212\247\232\004\045
\235\016\312\067\346\120\375\214\102\051\004\232\354\271\317\113
\162\275\342\010\066\257\043\057\142\345\312\001\323\160\333\174
\202\043\054\026\061\014\306\066\007\220\172\261\037\147\130\304
\073\130\131\211\260\214\214\120\263\330\206\313\150\243\304\012
\347\151\113\040\316\301\036\126\113\225\251\043\150\330\060\330
\303\353\260\125\121\315\345\375\053\270\365\273\021\237\123\124
\366\064\031\214\171\011\066\312\141\027\045\027\013\202\230\163
\014\167\164\303\325\015\307\250\022\114\307\247\124\161\107\056
\054\032\175\311\343\053\073\110\336\047\204\247\143\066\263\175
\217\240\144\071\044\015\075\173\207\257\146\134\164\033\113\163
\262\345\214\360\206\231\270\345\305\337\204\301\267\353
```

END

#

Trust for Certificate "Explicitly Distrust DigiNotar Root CA"

# Issuer: E=info@diginotar.nl,CN=DigiNotar Root CA,O=DigiNotar,C=NL

# Serial Number:0f:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff

# Subject: E=info@diginotar.nl,CN=DigiNotar Root CA,O=DigiNotar,C=NL

# Not Valid Before: Fri Jul 27 17:19:37 2007

# Not Valid After : Mon Mar 31 18:19:22 2025

# Fingerprint (MD5): 0A:A4:D5:CC:BA:B4:FB:A3:59:E3:E6:01:DD:53:D9:4E

#

Fingerprint (SHA1): C1:77:CB:4B:E0:B4:26:8E:F5:C7:CF:45:99:22:B9:B0:CE:BA:21:2F

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "Explicitly Distrust DigiNotar Root CA"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

```
\301\167\313\113\340\264\046\216\365\307\317\105\231\042\271\260
```

```
\316\272\041\057
```

END

CKA\_CERT\_MD5\_HASH MULTILINE\_OCTAL

```
\012\244\325\314\272\264\373\243\131\343\346\001\335\123\331\116
```

END

CKA\_ISSUER MULTILINE\_OCTAL

```
\060\137\061\013\060\011\006\003\125\004\006\023\002\116\114\061
```

```
\022\060\020\006\003\125\004\012\023\011\104\151\147\151\116\157
```

```
\164\141\162\061\032\060\030\006\003\125\004\003\023\021\104\151
```

```
\147\151\116\157\164\141\162\040\122\157\157\164\040\103\101\061
```

```
\040\060\036\006\011\052\206\110\206\367\015\001\011\001\026\021
```

```
\151\156\146\157\100\144\151\147\151\156\157\164\141\162\056\156
```

```
\154
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\017\377\377\377\377\377\377\377\377\377\377\377\377\377
\377\377
END
CKA_TRUST_SERVER_AUTH
CK_TRUST CKT_NSS_NOT_TRUSTED
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_NOT_TRUSTED
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_NOT_TRUSTED
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Security Communication RootCA2"
#
Issuer: OU=Security Communication RootCA2,O="SECOM Trust Systems CO.,LTD.",C=JP
Serial Number: 0 (0x0)
Subject: OU=Security Communication RootCA2,O="SECOM Trust Systems CO.,LTD.",C=JP
Not Valid Before: Fri May 29 05:00:39 2009
Not Valid After : Tue May 29 05:00:39 2029
Fingerprint (SHA-256):
51:3B:2C:EC:B8:10:D4:CD:E5:DD:85:39:1A:DF:C6:C2:DD:60:D8:7B:B7:36:D2:B5:21:48:4A:A4:7A:0E:BE:F6
Fingerprint (SHA1): 5F:3B:8C:F2:F8:10:B3:7D:78:B4:CE:EC:19:19:C3:73:34:B9:C7:74
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Security Communication RootCA2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE
CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\135\061\013\060\011\006\003\125\004\006\023\002\112\120\061
\045\060\043\006\003\125\004\012\023\034\123\105\103\117\115\040
\124\162\165\163\164\040\123\171\163\164\145\155\163\040\103\117
\056\054\114\124\104\056\061\047\060\045\006\003\125\004\013\023
\036\123\145\143\165\162\151\164\171\040\103\157\155\155\165\156
\151\143\141\164\151\157\156\040\122\157\157\164\103\101\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\135\061\013\060\011\006\003\125\004\006\023\002\112\120\061
\045\060\043\006\003\125\004\012\023\034\123\105\103\117\115\040
\124\162\165\163\164\040\123\171\163\164\145\155\163\040\103\117
\056\054\114\124\104\056\061\047\060\045\006\003\125\004\013\023
\036\123\145\143\165\162\151\164\171\040\103\157\155\155\165\156
\151\143\141\164\151\157\156\040\122\157\157\164\103\101\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
```



\002\001\000

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\003\167\060\202\002\137\240\003\002\001\002\002\001\000  
\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060  
\135\061\013\060\011\006\003\125\004\006\023\002\112\120\061\045  
\060\043\006\003\125\004\012\023\034\123\105\103\117\115\040\124  
\162\165\163\164\040\123\171\163\164\145\155\163\040\103\117\056  
\054\114\124\104\056\061\047\060\045\006\003\125\004\013\023\036  
\123\145\143\165\162\151\164\171\040\103\157\155\155\165\156\151  
\143\141\164\151\157\156\040\122\157\157\164\103\101\062\060\036  
\027\015\060\071\060\065\062\071\060\065\060\060\063\071\132\027  
\015\062\071\060\065\062\071\060\065\060\060\063\071\132\060\135  
\061\013\060\011\006\003\125\004\006\023\002\112\120\061\045\060  
\043\006\003\125\004\012\023\034\123\105\103\117\115\040\124\162  
\165\163\164\040\123\171\163\164\145\155\163\040\103\117\056\054  
\114\124\104\056\061\047\060\045\006\003\125\004\013\023\036\123  
\145\143\165\162\151\164\171\040\103\157\155\155\165\156\151\143  
\141\164\151\157\156\040\122\157\157\164\103\101\062\060\202\001  
\042\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000  
\003\202\001\017\000\060\202\001\012\002\202\001\001\000\320\025  
\071\122\261\122\263\272\305\131\202\304\135\122\256\072\103\145  
\200\113\307\362\226\274\333\066\227\326\246\144\214\250\136\360  
\343\012\034\367\337\227\075\113\256\366\135\354\041\265\101\253  
\315\271\176\166\237\276\371\076\066\064\240\073\301\366\061\021  
\105\164\223\075\127\200\305\371\211\231\312\345\253\152\324\265  
\332\101\220\020\301\326\326\102\211\302\277\364\070\022\225\114  
\124\005\367\066\344\105\203\173\024\145\326\334\014\115\321\336  
\176\014\253\073\304\025\276\072\126\246\132\157\166\151\122\251  
\172\271\310\353\152\232\135\122\320\055\012\153\065\026\011\020  
\204\320\152\312\072\006\000\067\107\344\176\127\117\077\213\353  
\147\270\210\252\305\276\123\125\262\221\304\175\271\260\205\031  
\006\170\056\333\141\032\372\205\365\112\221\241\347\026\325\216  
\242\071\337\224\270\160\037\050\077\213\374\100\136\143\203\074  
\203\052\032\231\153\317\336\131\152\073\374\157\026\327\037\375  
\112\020\353\116\202\026\072\254\047\014\123\361\255\325\044\260  
\153\003\120\301\055\074\026\335\104\064\047\032\165\373\002\003  
\001\000\001\243\102\060\100\060\035\006\003\125\035\016\004\026  
\004\024\012\205\251\167\145\005\230\174\100\201\370\017\227\054  
\070\361\012\354\074\317\060\016\006\003\125\035\017\001\001\377  
\004\004\003\002\001\006\060\017\006\003\125\035\023\001\001\377  
\004\005\060\003\001\001\377\060\015\006\011\052\206\110\206\367  
\015\001\001\013\005\000\003\202\001\001\000\114\072\243\104\254  
\271\105\261\307\223\176\310\013\012\102\337\144\352\034\356\131  
\154\010\272\211\137\152\312\112\225\236\172\217\007\305\332\105  
\162\202\161\016\072\322\314\157\247\264\241\043\273\366\044\237  
\313\027\376\214\246\316\302\322\333\314\215\374\161\374\003\051  
\301\154\135\063\137\144\266\145\073\211\157\030\166\170\365\334

```
\242\110\037\031\077\216\223\353\361\372\027\356\315\116\343\004
\022\125\326\345\344\335\373\076\005\174\342\035\136\306\247\274
\227\117\150\072\365\351\056\012\103\266\257\127\134\142\150\174
\267\375\243\212\204\240\254\142\276\053\011\207\064\360\152\001
\273\233\051\126\074\376\000\067\317\043\154\361\116\252\266\164
\106\022\154\221\356\064\325\354\232\221\347\104\276\220\061\162
\325\111\002\366\002\345\364\037\353\174\331\226\125\251\377\354
\212\371\231\107\377\065\132\002\252\004\313\212\133\207\161\051
\221\275\244\264\172\015\275\232\365\127\043\000\007\041\027\077
\112\071\321\005\111\013\247\266\067\201\245\135\214\252\063\136
\201\050\174\247\175\047\353\000\256\215\067
```

END

CKA\_NSS\_MOZILLA\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "Security Communication RootCA2"

# Issuer: OU=Security Communication RootCA2,O="SECOM Trust Systems CO.,LTD.",C=JP

# Serial Number: 0 (0x0)

# Subject: OU=Security Communication RootCA2,O="SECOM Trust Systems CO.,LTD.",C=JP

# Not Valid Before: Fri May 29 05:00:39 2009

# Not

Valid After : Tue May 29 05:00:39 2029

# Fingerprint (SHA-256):

51:3B:2C:EC:B8:10:D4:CD:E5:DD:85:39:1A:DF:C6:C2:DD:60:D8:7B:B7:36:D2:B5:21:48:4A:A4:7A:0E:BE:F6

# Fingerprint (SHA1): 5F:3B:8C:F2:F8:10:B3:7D:78:B4:CE:EC:19:19:C3:73:34:B9:C7:74

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "Security Communication RootCA2"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

```
\137\073\214\362\370\020\263\175\170\264\316\354\031\031\303\163
\064\271\307\164
```

END

CKA\_CERT\_MD5\_HASH MULTILINE\_OCTAL

```
\154\071\175\244\016\125\131\262\077\326\101\261\022\120\336\103
```

END

CKA\_ISSUER MULTILINE\_OCTAL

```
\060\135\061\013\060\011\006\003\125\004\006\023\002\112\120\061
\045\060\043\006\003\125\004\012\023\034\123\105\103\117\115\040
\124\162\165\163\164\040\123\171\163\164\145\155\163\040\103\117
\056\054\114\124\104\056\061\047\060\045\006\003\125\004\013\023
\036\123\145\143\165\162\151\164\171\040\103\157\155\155\165\156
\151\143\141\164\151\157\156\040\122\157\157\164\103\101\062
```

END

CKA\_SERIAL\_NUMBER

```

MULTILINE_OCTAL
\002\001\000
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "EC-ACC"
#
Issuer: CN=EC-ACC,OU=Jerarquia Entitats de Certificacio Catalanes,OU=Vegeu https://www.catcert.net/verarrel
(c)03,OU=Serveis Publics de Certificacio,O=Agencia Catalana de Certificacio (NIF Q-0801176-I),C=ES
Serial Number:ee:2b:3d:eb:d4:21:de:14:a8:62:ac:04:f3:dd:c4:01
Subject: CN=EC-ACC,OU=Jerarquia Entitats de Certificacio Catalanes,OU=Vegeu
https://www.catcert.net/verarrel (c)03,OU=Serveis Publics de Certificacio,O=Agencia Catalana de Certificacio (NIF
Q-0801176-I),C=ES
Not Valid Before: Tue Jan 07 23:00:00 2003
Not Valid After : Tue Jan 07 22:59:59 2031
Fingerprint (SHA-256):
88:49:7F:01:60:2F:31:54:24:6A:E2:8C:4D:5A:EF:10:F1:D8:7E:BB:76:62:6F:4A:E0:B7:F9:5B:A7:96:87:99
#
Fingerprint (SHA1): 28:90:3A:63:5B:52:80:FA:E6:77:4C:0B:6D:A7:D6:BA:A6:4A:F2:E8
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "EC-ACC"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\363\061\013\060\011\006\003\125\004\006\023\002\105\123
\061\073\060\071\006\003\125\004\012\023\062\101\147\145\156\143
\151\141\040\103\141\164\141\154\141\156\141\040\144\145\040\103
\145\162\164\151\146\151\143\141\143\151\157\040\050\116\111\106
\040\121\055\060\070\060\061\061\067\066\055\111\051\061\050\060
\046\006\003\125\004\013\023\037\123\145\162\166\145\151\163\040
\120\165\142\154\151\143\163\040\144\145\040\103\145\162\164\151
\146\151\143\141\143\151\157\061\065\060\063\006\003\125\004\013
\023\054\126\145\147\145\165\040\150\164\164\160\163\072\057\057
\167\167\167\056\143\141\164\143\145\162\164\056\156\145\164\057
\166\145\162\141\162\162\145\154\040\050\143\051\060\063\061\065
\060\063\006\003\125\004\013\023\054\112\145\162\141\162\161\165
\151\141\040\105\156\164\151\164\141\164\163\040\144\145\040\103
\145\162\164\151\146\151\143\141\143\151\157\040\103\141\164\141
\154\141\156\145\163\061\017\060\015\006\003\125\004\003\023\006
\105\103\055\101\103\103
END
CKA_ID

```

UTF8 "0"

CKA\_ISSUER MULTILINE\_OCTAL

\060\201\363\061\013\060\011\006\003\125\004\006\023\002\105\123  
\061\073\060\071\006\003\125\004\012\023\062\101\147\145\156\143  
\151\141\040\103\141\164\141\154\141\156\141\040\144\145\040\103  
\145\162\164\151\146\151\143\141\143\151\157\040\050\116\111\106  
\040\121\055\060\070\060\061\061\067\066\055\111\051\061\050\060  
\046\006\003\125\004\013\023\037\123\145\162\166\145\151\163\040  
\120\165\142\154\151\143\163\040\144\145\040\103\145\162\164\151  
\146\151\143\141\143\151\157\061\065\060\063\006\003\125\004\013  
\023\054\126\145\147\145\165\040\150\164\164\160\163\072\057\057  
\167\167\167\056\143\141\164\143\145\162\164\056\156\145\164\057  
\166\145\162\141\162\162\145\154\040\050\143\051\060\063\061\065  
\060\063\006\003\125\004\013\023\054\112\145\162\141\162\161\165  
\151\141\040\105\156\164\151\164\141\164\163\040\144\145\040\103  
\145\162\164\151\146\151\143\141\143\151\157\040\103\141\164\141  
\154\141\156\145\163\061\017\060\015\006\003\125\004\003\023\006  
\105\103\055\101\103\103

END

CKA\_SERIAL\_NUMBER

MULTILINE\_OCTAL

\002\020\356\053\075\353\324\041\336\024\250\142\254\004\363\335  
\304\001

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\005\126\060\202\004\076\240\003\002\001\002\002\020\356  
\053\075\353\324\041\336\024\250\142\254\004\363\335\304\001\060  
\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060\201  
\363\061\013\060\011\006\003\125\004\006\023\002\105\123\061\073  
\060\071\006\003\125\004\012\023\062\101\147\145\156\143\151\141  
\040\103\141\164\141\154\141\156\141\040\144\145\040\103\145\162  
\164\151\146\151\143\141\143\151\157\040\050\116\111\106\040\121  
\055\060\070\060\061\061\067\066\055\111\051\061\050\060\046\006  
\003\125\004\013\023\037\123\145\162\166\145\151\163\040\120\165  
\142\154\151\143\163\040\144\145\040\103\145\162\164\151\146\151  
\143\141\143\151\157\061\065\060\063\006\003\125\004\013\023\054  
\126\145\147\145\165\040\150\164\164\160\163\072\057\057\167\167  
\167\056\143\141\164\143\145\162\164\056\156\145\164\057\166\145  
\162\141\162\162\145\154\040\050\143\051\060\063\061\065\060\063  
\006\003\125\004\013\023\054\112\145\162\141\162\161\165\151\141  
\040\105\156\164\151\164\141\164\163\040\144\145\040\103\145\162  
\164\151\146\151\143\141\143\151\157\040\103\141\164\141\154\141  
\156\145\163\061\017\060\015\006\003\125\004\003\023\006\105\103  
\055\101\103\103\060\036\027\015\060\063\060\061\060\067\062\062\063  
\060\060\060\060\132\027\015\063\061\060\061\060\067\062\062\065  
\071\065\071\132\060\201\363\061\013\060\011\006\003\125\004\006  
\023\002\105\123\061\073\060\071\006\003\125\004\012\023\062\101  
\147\145\156\143\151\141\040\103\141\164\141\154\141\156\141\040

\144\145\040\103\145\162\164\151\146\151\143\141\143\151\157\040  
\050\116\111\106\040\121\055\060\070\060\061\061\067\066\055\111  
\051\061\050\060\046\006\003\125\004\013\023\037\123\145\162\166  
\145\151\163\040\120\165\142\154\151\143\163\040\144\145\040\103  
\145\162\164\151\146\151\143\141\143\151\157\061\065\060\063\006  
\003\125\004\013\023\054\126\145\147\145\165\040\150\164\164\160  
\163\072\057\057\167\167\167\056\143\141\164\143\145\162\164\056  
\156\145\164\057\166\145\162\141\162\162\145\154\040\050\143\051  
\060\063\061\065\060\063\006\003\125\004\013\023\054\112\145\162  
\141\162\161\165\151\141\040\105\156\164\151\164\141\164\163\040  
\144\145\040\103\145\162\164\151\146\151\143\141\143\151\157\040  
\103\141\164\141\154\141\156\145\163\061\017\060\015\006\003\125  
\004\003\023\006\105\103\055\101\103\103\060\202\001\042\060\015  
\006\011\052\206\110\206\367\015\001\001\001\005\000\003\202\001  
\017\000\060\202\001\012\002\202\001\001\000\263\042\307\117\342  
\227\102\225\210\107\203\100\366\035\027\363\203\163\044\036\121  
\363\230\212\303\222\270\377\100\220\005\160\207\140\311\000\251  
\265\224\145\031\042\025\027\302\103\154\146\104\232\015\004\076  
\071\157\245\113\172\252\143\267\212\104\235\331\143\221\204\146  
\340\050\017\272\102\343\156\216\367\024\047\223\151\356\221\016  
\243\137\016\261\353\146\242\162\117\022\023\206\145\172\076\333  
\117\007\364\247\011\140\332\072\102\231\307\262\177\263\026\225  
\034\307\371\064\265\224\205\325\231\136\240\110\240\176\347\027  
\145\270\242\165\270\036\363\345\102\175\257\355\363\212\110\144  
\135\202\024\223\330\300\344\377\263\120\162\362\166\366\263\135  
\102\120\171\320\224\076\153\014\000\276\330\153\016\116\052\354  
\076\322\314\202\242\030\145\063\023\167\236\232\135\032\023\330  
\303\333\075\310\227\172\356\160\355\247\346\174\333\161\317\055  
\224\142\337\155\326\365\070\276\077\245\205\012\031\270\250\330  
\011\165\102\160\304\352\357\313\016\310\064\250\022\042\230\014  
\270\023\224\266\113\354\360\320\220\347\047\002\003\001\000\001  
\243\201\343\060\201\340\060\035\006\003\125\035\021\004\026\060  
\024\201\022\145\143\137\141\143\143\100\143\141\164\143\145\162  
\164\056\156\145\164\060\017\006\003\125\035\023\001\001\377\004  
\005\060\003\001\001\377\060\016\006\003\125\035\017\001\001\377  
\004\004\003\002\001\006\060\035\006\003\125\035\016\004\026\004  
\024\240\303\213\104\252\067\245\105\277\227\200\132\321\361\170  
\242\233\351\135\215\060\177\006\003\125\035\040\004\170\060\166  
\060\164\006\013\053\006\001\004\001\365\170\001\003\001\012\060  
\145\060\054\006\010\053\006\001\005\005\007\002\001\026\040\150  
\164\164\160\163\072\057\057\167\167\167\056\143\141\164\143\145  
\162\164\056\156\145\164\057\166\145\162\141\162\162\145\154\060  
\065\006\010\053\006\001\005\005\007\002\002\060\051\032\047\126  
\145\147\145\165\040\150\164\164\160\163\072\057\057\167\167\167  
\056\143\141\164\143\145\162\164\056\156\145\164\057\166\145\162  
\141\162\162\145\154\040\060\015\006\011\052\206\110\206\367\015  
\001\001\005\005\000\003\202\001\001\000\240\110\133\202\001\366  
\115\110\270\071\125\065\234\200\172\123\231\325\132\377\261\161

```
\073\314\071\011\224\136\326\332\357\276\001\133\135\323\036\330
\375\175\117\315\240\101\340\064\223\277\313\342\206\234\067\222
\220\126\034\334\353\051\005\345\304\236\307\065\337\212\014\315
\305\041\103\351\252\210\345\065\300\031\102\143\132\002\136\244
\110\030\072\205\157\334\235\274\077\235\234\301\207\270\172\141
\010\351\167\013\177\160\253\172\335\331\227\054\144\036\205\277
\274\164\226\241\303\172\022\354\014\032\156\203\014\074\350\162
\106\237\373\110\325\136\227\346\261\241\370\344\357\106\045\224
\234\211\333\151\070\276\354\134\016\126\307\145\121\345\120\210
\210\277\102\325\053\075\345\371\272\236\056\263\312\364\163\222
\002\013\276\114\146\353\040\376\271\313\265\231\177\346\266\023
\372\312\113\115\331\356\123\106\006\073\306\116\255\223\132\201
\176\154\052\113\152\005\105\214\362\041\244\061\220\207\154\145
\234\235\245\140\225\072\122\177\365\321\253\010\156\363\356\133
\371\210\075\176\270\157\156\003\344\102
```

END

CKA\_NSS\_Mozilla\_CA\_POLICY

CK\_BBOOL CK\_TRUE

# For Server Distrust After: Sat Dec 28 00:00:00 2019

CKA\_NSS\_SERVER\_DISTRUSt\_AFTER MULTILINE\_OCTAL

```
\061\071\061\062\062\070\060\060\060\060\060\060\132
```

END

# For Email Distrust After: Wed Aug 31 00:00:00 2022

CKA\_NSS\_EMAIL\_DISTRUSt\_AFTER MULTILINE\_OCTAL

```
\062\062\060\070\063\061\060\060\060\060\060\060\132
```

END

# Trust for "EC-ACC"

# Issuer: CN=EC-ACC,OU=Jerarquia Entitats de Certificacio Catalanes,OU=Vegeu <https://www.catcert.net/verarrel> (c)03,OU=Serveis Publics de Certificacio,O=Agencia Catalana de Certificacio (NIF Q-0801176-I),C=ES

# Serial Number:ee:2b:3d:eb:d4:21:de:14:a8:62:ac:04:f3:dd:c4:01

# Subject: CN=EC-ACC,OU=Jerarquia Entitats de Certificacio Catalanes,OU=Vegeu

<https://www.catcert.net/verarrel> (c)03,OU=Serveis Publics de Certificacio,O=Agencia Catalana de Certificacio (NIF Q-0801176-I),C=ES

# Not Valid

Before: Tue Jan 07 23:00:00 2003

# Not Valid After : Tue Jan 07 22:59:59 2031

# Fingerprint (SHA-256):

88:49:7F:01:60:2F:31:54:24:6A:E2:8C:4D:5A:EF:10:F1:D8:7E:BB:76:62:6F:4A:E0:B7:F9:5B:A7:96:87:99

# Fingerprint (SHA1): 28:90:3A:63:5B:52:80:FA:E6:77:4C:0B:6D:A7:D6:BA:A6:4A:F2:E8

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "EC-ACC"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

```
\050\220\072\143\133\122\200\372\346\167\114\013\155\247\326\272
```

```
\246\112\362\350
```

END

CKA\_CERT\_MD5\_HASH MULTILINE\_OCTAL

\353\365\235\051\015\141\371\102\037\174\302\272\155\343\025\011

END

CKA\_ISSUER MULTILINE\_OCTAL

\060\201\363\061\013\060\011\006\003\125\004\006\023\002\105\123  
\061\073\060\071\006\003\125\004\012\023\062\101\147\145\156\143  
\151\141\040\103\141\164\141\154\141\156\141\040\144\145\040\103  
\145\162\164\151\146\151\143\141\143\151\157\040\050\116\111\106  
\040\121\055\060\070\060\061\061\067\066\055\111\051\061\050\060  
\046\006\003\125\004\013\023\037\123\145\162\166\145\151\163\040  
\120\165\142\154\151\143\163\040\144\145\040\103\145\162\164\151  
\146\151\143\141\143\151\157\061\065\060\063\006\003\125\004\013  
\023\054\126\145\147\145\165\040\150\164\164\160\163\072\057\057  
\167\167\167\056\143\141\164\143\145\162\164\056\156\145\164\057  
\166\145\162\141\162\162\145\154\040\050\143\051\060\063\061\065  
\060\063\006\003\125\004\013\023\054\112\145\162\141\162\161\165  
\151\141\040\105\156\164\151\164\141\164\163\040\144\145\040\103  
\145\162\164\151\146\151\143\141\143\151\157\040\103\141\164\141  
\154\141\156\145\163\061\017\060\015\006\003\125\004\003\023\006  
\105\103\055\101\103\103

END

CKA\_SERIAL\_NUMBER

MULTILINE\_OCTAL

\002\020\356\053\075\353\324\041\336\024\250\142\254\004\363\335  
\304\001

END

CKA\_TRUST\_SERVER\_AUTH CK\_TRUST CKT\_NSS\_TRUSTED\_DELEGATOR

CKA\_TRUST\_EMAIL\_PROTECTION CK\_TRUST CKT\_NSS\_MUST\_VERIFY\_TRUST

CKA\_TRUST\_CODE\_SIGNING CK\_TRUST CKT\_NSS\_MUST\_VERIFY\_TRUST

CKA\_TRUST\_STEP\_UP\_APPROVED

CK\_BBOOL CK\_FALSE

#

# Certificate "Actalis Authentication Root CA"

#

# Issuer: CN=Actalis Authentication Root CA,O=Actalis S.p.A./03358520967,L=Milan,C=IT

# Serial Number:57:0a:11:97:42:c4:e3:cc

# Subject: CN=Actalis Authentication Root CA,O=Actalis S.p.A./03358520967,L=Milan,C=IT

# Not Valid Before: Thu Sep 22 11:22:02 2011

# Not Valid After : Sun Sep 22 11:22:02 2030

# Fingerprint (SHA-256):

55:92:60:84:EC:96:3A:64:B9:6E:2A:BE:01:CE:0B:A8:6A:64:FB:FE:BC:C7:AA:B5:AF:C1:55:B3:7F:D7:60:66

# Fingerprint (SHA1): F3:73:B3:87:06:5A:28:84:8A:F2:F3:4A:CE:19:2B:DD:C7:8E:9C:AC

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_CERTIFICATE

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

```
CKA_LABEL UTF8 "Actalis Authentication Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\153\061\013\060\011\006\003\125\004\006\023\002\111\124\061
\016\060\014\006\003\125\004\007\014\005\115\151\154\141\156\061
\043\060\041\006\003\125\004\012\014\032\101\143\164\141\154\151
\163\040\123\056\160\056\101\056\057\060\063\063\065\070\065\062
\060\071\066\067\061\047\060\045\006\003\125\004\003\014\036\101
\143\164\141\154\151\163\040\101\165\164\150\145\156\164\151\143
\141\164\151\157\156\040\122\157\157\164\040\103\101
END
CKA_ID
UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\153\061\013\060\011\006\003\125\004\006\023\002\111\124\061
\016\060\014\006\003\125\004\007\014\005\115\151\154\141\156\061
\043\060\041\006\003\125\004\012\014\032\101\143\164\141\154\151
\163\040\123\056\160\056\101\056\057\060\063\063\065\070\065\062
\060\071\066\067\061\047\060\045\006\003\125\004\003\014\036\101
\143\164\141\154\151\163\040\101\165\164\150\145\156\164\151\143
\141\164\151\157\156\040\122\157\157\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\127\012\021\227\102\304\343\314
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\273\060\202\003\243\240\003\002\001\002\002\010\127
\012\021\227\102\304\343\314\060\015\006\011\052\206\110\206\367
\015\001\001\013\005\000\060\153\061\013\060\011\006\003\125\004
\006\023\002\111\124\061\016\060\014\006\003\125\004\007\014\005
\115\151\154\141\156\061\043\060\041\006\003\125\004\012\014\032
\101\143\164\141\154\151\163\040\123\056\160\056\101\056\057\060
\063\063\065\070\065\062\060\071\066\067\061\047\060\045\006\003
\125\004\003\014\036\101\143\164\141\154\151\163\040\101\165\164
\150\145\156\164\151\143\141\164\151\157\156\040\122\157\157\164
\040\103\101\060\036\027\015\061\061\060\071\062\062\061\061\062
\062\060\062\132\027\015\063\060\060\071\062\062\061\061\062\062
\060\062\132\060\153\061\013\060\011\006\003\125\004\006\023\002
\111\124\061\016\060\014\006\003\125\004\007\014\005\115\151\154
\141\156\061\043\060\041\006\003\125\004\012\014\032\101\143\164
\141\154\151\163\040\123\056\160\056\101\056\057\060\063\063\065
\070\065\062\060\071\066\067\061\047\060\045\006\003\125\004\003
\014\036\101\143\164\141\154\151\163\040\101\165\164\150\145\156
\164\151\143\141\164\151\157\156\040\122\157\157\164\040\103\101
\060\202\002\042\060\015\006\011\052\206\110\206\367\015\001\001
\001\005\000\003\202\002\017\000\060\202\002\012\002\202\002\001
\000\247\306\304\245\051\244\054\357\345\030\305\260\120\243\157
\121\073\237\012\132\311\302\110\070\012\302\034\240\030\177\221
```



\265\207\271\100\077\335\035\150\037\010\203\325\055\036\210\240  
\370\217\126\217\155\231\002\222\220\026\325\137\010\154\211\327  
\341\254\274\040\302\261\340\203\121\212\151\115\000\226\132\157  
\057\300\104\176\243\016\344\221\315\130\356\334\373\307\036\105  
\107\335\047\271\010\001\237\246\041\035\365\101\055\057\114\375  
\050\255\340\212\255\042\264\126\145\216\206\124\217\223\103\051  
\336\071\106\170\243\060\043\272\315\360\175\023\127\300\135\322  
\203\153\110\114\304\253\237\200\132\133\072\275\311\247\042\077  
\200\047\063\133\016\267\212\014\135\007\067\010\313\154\322\172  
\107\042\104\065\305\314\314\056\216\335\052\355\267\175\146\015  
\137\141\121\042\125\033\343\106\343\343\075\320\065\142\232\333  
\257\024\310\133\241\314\211\033\341\060\046\374\240\233\037\201  
\247\107\037\004\353\243\071\222\006\237\231\323\277\323\352\117  
\120\234\031\376\226\207\036\074\145\366\243\030\044\203\206\020  
\347\124\076\250\072\166\044\117\201\041\305\343\017\002\370\223  
\224\107\040\273\376\324\016\323\150\271\335\304\172\204\202\343  
\123\124\171\335\333\234\322\362\007\233\056\266\274\076\355\205  
\155\357\045\021\362\227\032\102\141\367\112\227\350\213\261\020  
\007\372\145\201\262\242\071\317\367\074\377\030\373\306\361\132  
\213\131\342\002\254\173\222\320\116\024\117\131\105\366\014\136  
\050\137\260\350\077\105\317\317\257\233\157\373\204\323\167\132  
\225\157\254\224\204\236\356\274\300\112\217\112\223\370\104\041  
\342\061\105\141\120\116\020\330\343\065\174\114\031\264\336\005  
\277\243\006\237\310\265\315\344\037\327\027\006\015\172\225\164  
\125\015\150\032\374\020\033\142\144\235\155\340\225\240\303\224  
\007\127\015\024\346\275\005\373\270\237\346\337\213\342\306\347  
\176\226\366\123\305\200\064\120\050\130\360\022\120\161\027\060  
\272\346\170\143\274\364\262\255\233\053\262\376\341\071\214\136  
\272\013\040\224\336\173\203\270\377\343\126\215\267\021\351\073  
\214\362\261\301\135\235\244\013\114\053\331\262\030\365\265\237  
\113\002\003\001\000\001\243\143\060\141\060\035\006\003\125\035  
\016\004\026\004\024\122\330\210\072\310\237\170\146\355\211\363  
\173\070\160\224\311\002\002\066\320\060\017\006\003\125\035\023  
\001\001\377\004\005\060\003\001\001\377\060\037\006\003\125\035  
\043\004\030\060\026\200\024\122\330\210\072\310\237\170\146\355  
\211\363\173\070\160\224\311\002\002\066\320\060\016\006\003\125  
\035\017\001\001\377\004\004\003\002\001\006\060\015\006\011\052  
\206\110\206\367\015\001\001\013\005\000\003\202\002\001\000\013  
\173\162\207\300\140\246\111\114\210\130\346\035\210\367\024\144  
\110\246\330\130\012\016\117\023\065\337\065\035\324\355\006\061  
\310\201\076\152\325\335\073\032\062\356\220\075\021\322\056\364  
\216\303\143\056\043\146\260\147\276\157\266\300\023\071\140\252  
\242\064\045\223\165\122\336\247\235\255\016\207\211\122\161\152  
\026\074\031\035\203\370\232\051\145\276\364\077\232\331\360\363  
\132\207\041\161\200\115\313\340\070\233\077\273\372\340\060\115  
\317\206\323\145\020\031\030\321\227\002\261\053\162\102\150\254  
\240\275\116\132\332\030\277\153\230\201\320\375\232\276\136\025  
\110\315\021\025\271\300\051\134\264\350\210\367\076\066\256\267

```
\142\375\036\142\336\160\170\020\034\110\133\332\274\244\070\272
\147\355\125\076\136\127\337\324\003\100\114\201\244\322\117\143
\247\011\102\011\024\374\000\251\302\200\163\117\056\300\100\331
\021\173\110\352\172\002\300\323\353\050\001\046\130\164\301\300
\163\042\155\223\225\375\071\175\273\052\343\366\202\343\054\227
\137\116\037\221\224\372\376\054\243\330\166\032\270\115\262\070
\117\233\372\035\110\140\171\046\342\363\375\251\320\232\350\160
\217\111\172\326\345\275\012\016\333\055\363\215\277\353\343\244
\175\313\307\225\161\350\332\243\174\305\302\370\164\222\004\033
\206\254\244\042\123\100\266\254\376\114\166\317\373\224\062\300
\065\237\166\077\156\345\220\156\240\246\046\242\270\054\276\321
\053\205\375\247\150\310\272\001\053\261\154\164\035\270\163\225
\347\356\267\307\045\360\000\114\000\262\176\266\013\213\034\363
\300\120\236\045\271\340\010\336\066\146\377\067\245\321\273\124
\144\054\311\047\265\113\222\176\145\377\323\055\341\271\116\274
\177\244\101\041\220\101\167\246\071\037\352\236\343\237\320\146
\157\005\354\252\166\176\277\153\026\240\353\265\307\374\222\124
\057\053\021\047\045\067\170\114\121\152\260\363\314\130\135\024
\361\152\110\025\377\302\007\266\261\215\017\216\134\120\106\263
\075\277\001\230\117\262\131\124\107\076\064\173\170\155\126\223
\056\163\352\146\050\170\315\035\024\277\240\217\057\056\270\056
\216\362\024\212\314\351\265\174\373\154\235\014\245\341\226
```

END

CKA\_NSS\_Mozilla\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

#

Trust for "Actalis Authentication Root CA"

# Issuer: CN=Actalis Authentication Root CA,O=Actalis S.p.A./03358520967,L=Milan,C=IT

# Serial Number:57:0a:11:97:42:c4:e3:cc

# Subject: CN=Actalis Authentication Root CA,O=Actalis S.p.A./03358520967,L=Milan,C=IT

# Not Valid Before: Thu Sep 22 11:22:02 2011

# Not Valid After : Sun Sep 22 11:22:02 2030

# Fingerprint (SHA-256):

55:92:60:84:EC:96:3A:64:B9:6E:2A:BE:01:CE:0B:A8:6A:64:FB:FE:BC:C7:AA:B5:AF:C1:55:B3:7F:D7:60:66

# Fingerprint (SHA1): F3:73:B3:87:06:5A:28:84:8A:F2:F3:4A:CE:19:2B:DD:C7:8E:9C:AC

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "Actalis Authentication Root CA"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

```
\363\163\263\207\006\132\050\204\212\362\363\112\316\031\053\335
\307\216\234\254
```

END

CKA\_CERT\_MD5\_HASH MULTILINE\_OCTAL

\151\301\015\117\007\243\033\303\376\126\075\004\274\021\366\246

END

CKA\_ISSUER MULTILINE\_OCTAL

\060\153\061\013\060\011\006\003\125\004\006\023\002\111\124\061  
\016\060\014\006\003\125\004\007\014\005\115\151\154\141\156\061  
\043\060\041\006\003\125\004\012\014\032\101\143\164\141\154\151  
\163\040\123\056\160\056\101\056\057\060\063\063\065\070\065\062  
\060\071\066\067\061\047\060\045\006\003\125\004\003\014\036\101  
\143\164\141\154\151\163\040\101\165\164\150\145\156\164\151\143  
\141\164\151\157\156\040\122\157\157\164\040\103\101

END

CKA\_SERIAL\_NUMBER

MULTILINE\_OCTAL

\002\010\127\012\021\227\102\304\343\314

END

CKA\_TRUST\_SERVER\_AUTH CK\_TRUST CKT\_NSS\_TRUSTED\_DELEGATOR

CKA\_TRUST\_EMAIL\_PROTECTION CK\_TRUST CKT\_NSS\_TRUSTED\_DELEGATOR

CKA\_TRUST\_CODE\_SIGNING CK\_TRUST CKT\_NSS\_MUST\_VERIFY\_TRUST

CKA\_TRUST\_STEP\_UP\_APPROVED CK\_BBOOL CK\_FALSE

#

# Certificate "Buypass Class 2 Root CA"

#

# Issuer: CN=Buypass Class 2 Root CA,O=Buypass AS-983163327,C=NO

# Serial Number: 2 (0x2)

# Subject: CN=Buypass Class 2 Root CA,O=Buypass AS-983163327,C=NO

# Not Valid Before: Tue Oct 26 08:38:03 2010

# Not Valid After :

Fri Oct 26 08:38:03 2040

# Fingerprint (SHA-256):

9A:11:40:25:19:7C:5B:B9:5D:94:E6:3D:55:CD:43:79:08:47:B6:46:B2:3C:DF:11:AD:A4:A0:0E:FF:15:FB:48

# Fingerprint (SHA1): 49:0A:75:74:DE:87:0A:47:FE:58:EE:F6:C7:6B:EB:C6:0B:12:40:99

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_CERTIFICATE

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "Buypass Class 2 Root CA"

CKA\_CERTIFICATE\_TYPE CK\_CERTIFICATE\_TYPE CKC\_X\_509

CKA\_SUBJECT MULTILINE\_OCTAL

\060\116\061\013\060\011\006\003\125\004\006\023\002\116\117\061  
\035\060\033\006\003\125\004\012\014\024\102\165\171\160\141\163  
\163\040\101\123\055\071\070\063\061\066\063\063\062\067\061\040  
\060\036\006\003\125\004\003\014\027\102\165\171\160\141\163\163  
\040\103\154\141\163\163\040\062\040\122\157\157\164\040\103\101

END

CKA\_ID UTF8 "0"

CKA\_ISSUER MULTILINE\_OCTAL

\060\116\061\013\060\011\006\003\125\004\006\023\002\116\117\061

\035\060\033\006\003\125\004\012\014\024\102\165\171\160\141\163  
\163\040\101\123\055\071\070\063\061\066\063\063\062\067\061\040  
\060\036\006\003\125\004\003\014\027\102\165\171\160\141\163\163  
\040\103\154\141\163\163\040\062\040\122\157\157\164\040\103\101  
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CKA\_SERIAL\_NUMBER

MULTILINE\_OCTAL

\002\001\002

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\005\131\060\202\003\101\240\003\002\001\002\002\001\002  
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\116\061\013\060\011\006\003\125\004\006\023\002\116\117\061\035  
\060\033\006\003\125\004\012\014\024\102\165\171\160\141\163\163  
\040\101\123\055\071\070\063\061\066\063\063\062\067\061\040\060  
\036\006\003\125\004\003\014\027\102\165\171\160\141\163\163\040  
\103\154\141\163\163\040\062\040\122\157\157\164\040\103\101\060  
\036\027\015\061\060\061\060\062\066\060\070\063\070\060\063\132  
\027\015\064\060\061\060\062\066\060\070\063\070\060\063\132\060  
\116\061\013\060\011\006\003\125\004\006\023\002\116\117\061\035  
\060\033\006\003\125\004\012\014\024\102\165\171\160\141\163\163  
\040\101\123\055\071\070\063\061\066\063\063\062\067\061\040\060  
\036\006\003\125\004\003\014\027\102\165\171\160\141\163\163\040  
\103\154\141\163\163\040\062\040\122\157\157\164\040\103\101\060  
\202\002\042\060\015\006\011\052\206\110\206\367\015\001\001\001  
\005\000\003\202\002\017\000\060\202\002\012\002\202\002\001\000  
\327\307\136\367\301\007\324\167\373\103\041\364\364\365\151\344  
\356\062\001\333\243\206\037\344\131\015\272\347\165\203\122\353  
\352\034\141\025\110\273\035\007\312\214\256\260\334\226\235\352  
\303\140\222\206\202\050\163\234\126\006\377\113\144\360\014\052  
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\057\203\266\176\343\347\365\236\253\140\371\323\361\235\222\164  
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\176\241\157\216\123\167\324\227\301\125\063\222\076\030\057\165  
\324\255\206\111\313\225\257\124\006\154\330\006\023\215\133\377  
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\137\270\263\021\361\051\101\141\243\101\313\043\066\325\301\361  
\062\120\020\116\177\364\206\223\354\204\323\216\274\113\277\134  
\001\116\007\075\334\024\212\224\012\244\352\163\373\013\121\350  
\023\007\030\372\016\361\053\321\124\025\175\074\341\367\264\031  
\102\147\142\136\167\340\242\125\354\266\331\151\027\325\072\257  
\104\355\112\305\236\344\172\047\174\345\165\327\252\313\045\347  
\337\153\012\333\017\115\223\116\250\240\315\173\056\362\131\001  
\152\267\015\270\007\201\176\213\070\033\070\346\012\127\231\075  
\356\041\350\243\365\014\026\335\213\354\064\216\234\052\034\000  
\025\027\215\150\203\322\160\237\030\010\315\021\150\325\311\153  
\122\315\304\106\217\334\265\363\330\127\163\036\351\224\071\004  
\277\323\336\070\336\264\123\354\151\034\242\176\304\217\344\033

\160\255\362\242\371\373\367\026\144\146\151\237\111\121\242\342  
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\337\352\215\330\006\100\143\252\021\344\376\303\067\236\024\122  
\077\364\342\314\362\141\223\321\375\147\153\327\122\256\277\150  
\253\100\103\240\127\065\123\170\360\123\370\141\102\007\144\306  
\327\157\233\114\070\015\143\254\142\257\066\213\242\163\012\015  
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\307\375\335\221\354\063\356\365\155\264\156\060\150\336\310\326  
\046\260\165\136\173\264\007\040\230\241\166\062\270\115\154\117  
\002\003\001\000\001\243\102\060\100\060\017\006\003\125\035\023  
\001\001\377\004\005\060\003\001\001\377\060\035\006\003\125\035  
\016\004\026\004\024\311\200\167\340\142\222\202\365\106\234\363  
\272\367\114\303\336\270\243\255\071\060\016\006\003\125\035\017  
\001\001\377\004\004\003\002\001\006\060\015\006\011\052\206\110  
\206\367\015\001\001\013\005\000\003\202\002\001\000\123\137\041  
\365\272\260\072\122\071\054\222\260\154\000\311\357\316\040\357  
\006\362\226\236\351\244\164\177\172\026\374\267\365\266\373\025  
\033\077\253\246\300\162\135\020\261\161\356\274\117\343\255\254  
\003\155\056\161\056\257\304\343\255\243\275\014\021\247\264\377  
\112\262\173\020\020\037\247\127\101\262\300\256\364\054\131\326  
\107\020\210\363\041\121\051\060\312\140\206\257\106\253\035\355  
\072\133\260\224\336\104\343\101\010\242\301\354\035\326\375\117  
\266\326\107\320\024\013\312\346\312\265\173\167\176\101\037\136  
\203\307\266\214\071\226\260\077\226\201\101\157\140\220\342\350  
\371\373\042\161\331\175\263\075\106\277\264\204\257\220\034\017  
\217\022\152\257\357\356\036\172\256\002\112\212\027\053\166\376  
\254\124\211\044\054\117\077\266\262\247\116\214\250\221\227\373  
\051\306\173\134\055\271\313\146\266\267\250\133\022\121\205\265  
\011\176\142\170\160\376\251\152\140\266\035\016\171\014\375\312  
\352\044\200\162\303\227\077\362\167\253\103\042\012\307\353\266  
\014\204\202\054\200\153\101\212\010\300\353\245\153\337\231\022  
\313\212\325\136\200\014\221\340\046\010\066\110\305\372\070\021  
\065\377\045\203\055\362\172\277\332\375\216\376\245\313\105\054  
\037\304\210\123\256\167\016\331\232\166\305\216\054\035\243\272  
\325\354\062\256\300\252\254\367\321\172\115\353\324\007\342\110  
\367\042\216\260\244\237\152\316\216\262\262\140\364\243\042\320  
\043\353\224\132\172\151\335\017\277\100\127\254\153\131\120\331  
\243\231\341\156\376\215\001\171\047\043\025\336\222\235\173\011  
\115\132\347\113\110\060\132\030\346\012\155\346\217\340\322\273  
\346\337\174\156\041\202\301\150\071\115\264\230\130\146\142\314  
\112\220\136\303\372\047\004\261\171\025\164\231\314\276\255\040  
\336\046\140\034\353\126\121\246\243\352\344\243\077\247\377\141  
\334\361\132\115\154\062\043\103\356\254\250\356\356\112\022\011  
\074\135\161\302\276\171\372\302\207\150\035\013\375\134\151\314  
\006\320\232\175\124\231\052\311\071\032\031\257\113\052\103\363  
\143\135\132\130\342\057\343\035\344\251\326\320\012\320\236\277  
\327\201\011\361\311\307\046\015\254\230\026\126\240

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END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRICT_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRICT_AFTER CK_BBOOL CK_FALSE

Trust for "Buypass
Class 2 Root CA"
Issuer: CN=Buypass Class 2 Root CA,O=Buypass AS-983163327,C=NO
Serial Number: 2 (0x2)
Subject: CN=Buypass Class 2 Root CA,O=Buypass AS-983163327,C=NO
Not Valid Before: Tue Oct 26 08:38:03 2010
Not Valid After : Fri Oct 26 08:38:03 2040
Fingerprint (SHA-256):
9A:11:40:25:19:7C:5B:B9:5D:94:E6:3D:55:CD:43:79:08:47:B6:46:B2:3C:DF:11:AD:A4:A0:0E:FF:15:FB:48
Fingerprint (SHA1): 49:0A:75:74:DE:87:0A:47:FE:58:EE:F6:C7:6B:EB:C6:0B:12:40:99
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Buypass Class 2 Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\111\012\165\164\336\207\012\107\376\130\356\366\307\153\353\306
\013\022\100\231
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\106\247\322\376\105\373\144\132\250\131\220\233\170\104\233\051
END
CKA_ISSUER MULTILINE_OCTAL
\060\116\061\013\060\011\006\003\125\004\006\023\002\116\117\061
\035\060\033\006\003\125\004\012\014\024\102\165\171\160\141\163
\163\040\101\123\055\071\070\063\061\066\063\063\062\067\061\040
\060\036\006\003\125\004\003\014\027\102\165\171\160\141\163\163
\040\103\154\141\163\163\040\062\040\122\157\157\164\040\103\101
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\001\002
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Buypass Class 3 Root CA"
#
Issuer: CN=Buypass Class 3 Root CA,O=Buypass AS-983163327,C=NO

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Serial Number: 2 (0x2)
Subject: CN=Buypass Class 3 Root CA,O=Buypass AS-983163327,C=NO
Not Valid Before: Tue Oct 26 08:28:58 2010
Not Valid After : Fri Oct 26 08:28:58 2040
Fingerprint (SHA-256):
ED:F7:EB:BC:A2:7A:2A:38:4D:38:7B:7D:40:10:C6:66:E2:ED:B4:84:3E:4C:29:B4:AE:1D:5B:93:32:E6:B2:4D
Fingerprint (SHA1): DA:FA:F7:FA:66:84:EC:06:8F:14:50:BD:C7:C2:81:A5:BC:A9:64:57
CKA_CLASS CK_OBJECT_CLASS
CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Buypass Class 3 Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\116\061\013\060\011\006\003\125\004\006\023\002\116\117\061
\035\060\033\006\003\125\004\012\014\024\102\165\171\160\141\163
\163\040\101\123\055\071\070\063\061\066\063\063\062\067\061\040
\060\036\006\003\125\004\003\014\027\102\165\171\160\141\163\163
\040\103\154\141\163\163\040\063\040\122\157\157\164\040\103\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\116\061\013\060\011\006\003\125\004\006\023\002\116\117\061
\035\060\033\006\003\125\004\012\014\024\102\165\171\160\141\163
\163\040\101\123\055\071\070\063\061\066\063\063\062\067\061\040
\060\036\006\003\125\004\003\014\027\102\165\171\160\141\163\163
\040\103\154\141\163\163\040\063\040\122\157\157\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\002
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\131\060\202\003\101\240\003\002\001\002\002\001\002
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\116\061\013\060\011\006\003\125\004\006\023\002\116\117\061\035
\060\033\006\003\125\004\012\014\024\102\165\171\160\141\163\163
\040\101\123\055\071\070\063\061\066\063\063\062\067\061\040\060
\036\006\003\125\004\003\014\027\102\165\171\160\141\163\163\040
\103\154\141\163\163\040\063\040\122\157\157\164\040\103\101\060
\036\027\015\061\060\061\060\062\066\060\070\062\070\065\070\132
\027\015\064\060\061\060\062\066\060\070\062\070\065\070\132\060
\116\061\013\060\011\006\003\125\004\006\023\002\116\117\061\035
\060\033\006\003\125\004\012\014\024\102\165\171\160\141\163\163
\040\101\123\055\071\070\063\061\066\063\063\062\067\061\040\060
\036\006\003\125\004\003\014\027\102\165\171\160\141\163\163\040
\103\154\141\163\163\040\063\040\122\157\157\164\040\103\101\060
\202\002\042\060\015\006\011\052\206\110\206\367\015\001\001\001

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\233\361\020\166\270\000\232\265\122\066\315\044\107\260\237\030  
\144\274\232\366\372\325\171\330\220\142\114\042\057\336\070\075  
\326\340\250\351\034\054\333\170\021\351\216\150\121\025\162\307  
\363\063\207\344\240\135\013\134\340\127\007\052\060\365\315\304  
\067\167\050\115\030\221\346\277\325\122\375\161\055\160\076\347  
\306\304\212\343\360\050\013\364\166\230\241\213\207\125\262\072  
\023\374\267\076\047\067\216\042\343\250\117\052\357\140\273\075  
\267\071\303\016\001\107\231\135\022\117\333\103\372\127\241\355  
\371\235\276\021\107\046\133\023\230\253\135\026\212\260\067\034  
\127\235\105\377\210\226\066\277\273\312\007\173\157\207\143\327  
\320\062\152\326\135\154\014\361\263\156\071\342\153\061\056\071  
\000\047\024\336\070\300\354\031\146\206\022\350\235\162\026\023  
\144\122\307\251\067\034\375\202\060\355\204\030\035\364\256\134  
\377\160\023\000\353\261\365\063\172\113\326\125\370\005\215\113  
\151\260\365\263\050\066\134\024\304\121\163\115\153\013\361\064  
\007\333\027\071\327\334\050\173\153\365\237\363\056\301\117\027  
\052\020\363\314\312\350\353\375\153\253\056\232\237\055\202\156  
\004\324\122\001\223\055\075\206\374\176\374\337\357\102\035\246  
\153\357\271\040\306\367\275\240\247\225\375\247\346\211\044\330  
\314\214\064\154\342\043\057\331\022\032\041\271\125\221\157\013  
\221\171\031\014\255\100\210\013\160\342\172\322\016\330\150\110  
\273\202\023\071\020\130\351\330\052\007\306\022\333\130\333\322  
\073\125\020\107\005\025\147\142\176\030\143\246\106\077\011\016  
\124\062\136\277\015\142\172\047\357\200\350\333\331\113\006\132  
\067\132\045\320\010\022\167\324\157\011\120\227\075\310\035\303  
\337\214\105\060\126\306\323\144\253\146\363\300\136\226\234\303  
\304\357\303\174\153\213\072\171\177\263\111\317\075\342\211\237  
\240\060\113\205\271\234\224\044\171\217\175\153\251\105\150\017  
\053\320\361\332\034\313\151\270\312\111\142\155\310\320\143\142  
\335\140\017\130\252\217\241\274\005\245\146\242\317\033\166\262  
\204\144\261\114\071\122\300\060\272\360\214\113\002\260\266\267  
\002\003\001\000\001\243\102\060\100\060\017\006\003\125\035\023  
\001\001\377\004\005\060\003\001\001\377\060\035\006\003\125\035  
\016\004\026\004\024\107\270\315\377\345\157\356\370\262\354\057  
\116\016\371\045\260\216\074\153\303\060\016\006\003\125\035\017  
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\161\044\062\366\310\013\362\274\152\370\223\254\262\007\302\137  
\237\333\314\310\212\252\276\152\157\341\111\020\314\061\327\200  
\273\273\310\330\242\016\144\127\352\242\365\302\251\061\025\322  
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\074\362\026\263\107\235\374\322\200\041\304\313\320\107\160\101  
\241\312\203\031\010\054\155\362\135\167\234\212\024\023\324\066



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\241\232\124\132\037\051\103\024\047\302\205\017\265\210\173\032
\073\224\267\035\140\247\265\234\347\051\151\127\132\233\223\172
\103\060\033\003\327\142\310\100\246\252\374\144\344\112\327\221
\123\001\250\040\210\156\234\137\104\271\313\140\201\064\354\157
\323\175\332\110\137\353\264\220\274\055\251\034\013\254\034\325
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\034\353\342\066\051\046\365\332\330\304\362\165\141\317\176\256
\166\143\112\172\100\145\223\207\370\036\200\214\206\345\206\326
\217\016\374\123\054\140\350\026\141\032\242\076\103\173\315\071
\140\124\152\365\362\211\046\001\150\203\110\242\063\350\311\004
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\334\341\014\135\273\240\121\224\313\176\026\353\021\057\243\222
\105\310\114\161\331\274\311\231\122\127\106\057\120\317\275\065
\151\364\075\025\316\006\245\054\017\076\366\201\272\224\273\303
\273\277\145\170\322\206\171\377\111\073\032\203\014\360\336\170
\354\310\362\115\114\032\336\202\051\370\301\132\332\355\356\346
\047\136\350\105\320\235\034\121\250\150\253\104\343\320\213\152
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END

CKA\_NSS\_MOZILLA\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "Buypass Class 3 Root CA"

# Issuer: CN=Buypass Class 3 Root CA,O=Buypass AS-983163327,C=NO

# Serial Number: 2 (0x2)

# Subject: CN=Buypass Class 3 Root CA,O=Buypass AS-983163327,C=NO

# Not Valid Before: Tue Oct 26 08:28:58 2010

# Not Valid After : Fri Oct

26 08:28:58 2040

# Fingerprint (SHA-256):

ED:F7:EB:BC:A2:7A:2A:38:4D:38:7B:7D:40:10:C6:66:E2:ED:B4:84:3E:4C:29:B4:AE:1D:5B:93:32:E6:B2:4D

# Fingerprint (SHA1): DA:FA:F7:FA:66:84:EC:06:8F:14:50:BD:C7:C2:81:A5:BC:A9:64:57

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "Buypass Class 3 Root CA"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

```
\332\372\367\372\146\204\354\006\217\024\120\275\307\302\201\245
\274\251\144\127
```

END

```

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\075\073\030\236\054\144\132\350\325\210\316\016\371\067\302\354
END
CKA_ISSUER MULTILINE_OCTAL
\060\116\061\013\060\011\006\003\125\004\006\023\002\116\117\061
\035\060\033\006\003\125\004\012\014\024\102\165\171\160\141\163
\163\040\101\123\055\071\070\063\061\066\063\063\062\067\061\040
\060\036\006\003\125\004\003\014\027\102\165\171\160\141\163\163
\040\103\154\141\163\163\040\063\040\122\157\157\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\002
END
CKA_TRUST_SERVER_AUTH
CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "T-TeleSec GlobalRoot Class 3"
#
Issuer: CN=T-TeleSec GlobalRoot Class 3,OU=T-Systems Trust Center,O=T-Systems Enterprise Services
GmbH,C=DE
Serial Number: 1 (0x1)
Subject: CN=T-TeleSec GlobalRoot Class 3,OU=T-Systems Trust Center,O=T-Systems Enterprise Services
GmbH,C=DE
Not Valid Before: Wed Oct 01 10:29:56 2008
Not Valid After : Sat Oct 01 23:59:59 2033
Fingerprint (SHA-256):
FD:73:DA:D3:1C:64:4F:F1:B4:3B:EF:0C:CD:DA:96:71:0B:9C:D9:87:5E:CA:7E:31:70:7A:F3:E9:6D:52:2B:BD
Fingerprint (SHA1): 55:A6:72:3E:CB:F2:EC:CD:C3:23:74:70:19:9D:2A:BE:11:E3:81:D1
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "T-TeleSec GlobalRoot
Class 3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\202\061\013\060\011\006\003\125\004\006\023\002\104\105
\061\053\060\051\006\003\125\004\012\014\042\124\055\123\171\163
\164\145\155\163\040\105\156\164\145\162\160\162\151\163\145\040
\123\145\162\166\151\143\145\163\040\107\155\142\110\061\037\060
\035\006\003\125\004\013\014\026\124\055\123\171\163\164\145\155
\163\040\124\162\165\163\164\040\103\145\156\164\145\162\061\045
\060\043\006\003\125\004\003\014\034\124\055\124\145\154\145\123
\145\143\040\107\154\157\142\141\154\122\157\157\164\040\103\154

```

```
\141\163\163\040\063
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\202\061\013\060\011\006\003\125\004\006\023\002\104\105
\061\053\060\051\006\003\125\004\012\014\042\124\055\123\171\163
\164\145\155\163\040\105\156\164\145\162\160\162\151\163\145\040
\123\145\162\166\151\143\145\163\040\107\155\142\110\061\037\060
\035\006\003\125\004\013\014\026\124\055\123\171\163\164\145\155
\163\040\124\162\165\163\164\040\103\145\156\164\145\162\061\045
\060\043\006\003\125\004\003\014\034\124\055\124\145\154\145\123
\145\143\040\107\154\157\142\141\154\122\157\157\164\040\103\154
\141\163\163\040\063
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\001\001
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\303\060\202\002\253\240\003\002\001\002\002\001\001
\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060
\201\202\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\053\060\051\006\003\125\004\012\014\042\124\055\123\171\163\164
\145\155\163\040\105\156\164\145\162\160\162\151\163\145\040\123
\145\162\166\151\143\145\163\040\107\155\142\110\061\037\060\035
\006\003\125\004\013\014\026\124\055\123\171\163\164\145\155\163
\040\124\162\165\163\164\040\103\145\156\164\145\162\061\045\060
\043\006\003\125\004\003\014\034\124\055\124\145\154\145\123\145
\143\040\107\154\157\142\141\154\122\157\157\164\040\103\154\141
\163\163\040\063\060\036\027\015\060\070\061\060\060\061\061\060
\062\071\065\066\132\027\015\063\063\061\060\060\061\062\063\065
\071\065\071\132\060\201\202\061\013\060\011\006\003\125\004\006
\023\002\104\105\061\053\060\051\006\003\125\004\012\014\042\124
\055\123\171\163\164\145\155\163\040\105\156\164\145\162\160\162
\151\163\145\040\123\145\162\166\151\143\145\163\040\107\155\142
\110\061\037\060\035\006\003\125\004\013\014\026\124\055\123\171
\163\164\145\155\163\040\124\162\165\163\164\040\103\145\156\164
\145\162\061\045\060\043\006\003\125\004\003\014\034\124\055\124
\145\154\145\123\145\143\040\107\154\157\142\141\154\122\157\157
\164\040\103\154\141\163\163\040\063\060\202\001\042\060\015\006
\011\052\206\110\206\367\015\001\001\001\005\000\003\202\001\017
\000\060\202\001\012\002\202\001\001\000\275\165\223\360\142\042
\157\044\256\340\172\166\254\175\275\331\044\325\270\267\374\315
\360\102\340\353\170\210\126\136\233\232\124\035\115\014\212\366
\323\317\160\364\122\265\330\223\004\343\106\206\161\101\112\053
\360\052\054\125\003\326\110\303\340\071\070\355\362\134\074\077
\104\274\223\075\141\253\116\315\015\276\360\040\047\130\016\104
\177\004\032\207\245\327\226\024\066\220\320\111\173\241\165\373
```

\032\153\163\261\370\316\251\011\054\362\123\325\303\024\104\270  
\206\245\366\213\053\071\332\243\063\124\331\372\162\032\367\042  
\025\034\210\221\153\177\146\345\303\152\200\260\044\363\337\206  
\105\210\375\031\177\165\207\037\037\261\033\012\163\044\133\271  
\145\340\054\124\310\140\323\146\027\077\341\314\124\063\163\221  
\002\072\246\177\173\166\071\242\037\226\266\070\256\265\310\223  
\164\035\236\271\264\345\140\235\057\126\321\340\353\136\133\114  
\022\160\014\154\104\040\253\021\330\364\031\366\322\234\122\067  
\347\372\266\302\061\073\112\324\024\231\255\307\032\365\135\137  
\372\007\270\174\015\037\326\203\036\263\002\003\001\000\001\243  
\102\060\100\060\017\006\003\125\035\023\001\001\377\004\005\060  
\003\001\001\377\060\016\006\003\125\035\017\001\001\377\004\004  
\003\002\001\006\060\035\006\003\125\035\016\004\026\004\024\265  
\003\367\166\073\141\202\152\022\252\030\123\353\003\041\224\277  
\376\316\312\060\015\006\011\052\206\110\206\367\015\001\001\013  
\005\000\003\202\001\001\000\126\075\357\224\325\275\332\163\262  
\130\276\256\220\255\230\047\227\376\001\261\260\122\000\270\115  
\344\033\041\164\033\176\300\356\136\151\052\045\257\134\326\035  
\332\322\171\311\363\227\051\340\206\207\336\004\131\017\361\131  
\324\144\205\113\231\257\045\004\036\311\106\251\227\336\202\262  
\033\160\237\234\366\257\161\061\335\173\005\245\054\323\271\312  
\107\366\312\362\366\347\255\271\110\077\274\026\267\301\155\364  
\352\011\257\354\363\265\347\005\236\246\036\212\123\121\326\223  
\201\314\164\223\366\271\332\246\045\005\164\171\132\176\100\076  
\202\113\046\021\060\156\341\077\101\307\107\000\065\325\365\323  
\367\124\076\201\075\332\111\152\232\263\357\020\075\346\353\157  
\321\310\042\107\313\314\317\001\061\222\331\030\343\042\276\011  
\036\032\076\132\262\344\153\014\124\172\175\103\116\270\211\245  
\173\327\242\075\226\206\314\362\046\064\055\152\222\235\232\032  
\320\060\342\135\116\004\260\137\213\040\176\167\301\075\225\202  
\321\106\232\073\074\170\270\157\241\320\015\144\242\170\036\051  
\116\223\303\244\124\024\133

END

CKA\_NSS\_MOZILLA\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "T-TeleSec GlobalRoot Class 3"

# Issuer: CN=T-TeleSec GlobalRoot Class 3,OU=T-Systems Trust Center,O=T-Systems Enterprise Services GmbH,C=DE

# Serial Number: 1 (0x1)

# Subject: CN=T-TeleSec GlobalRoot Class 3,OU=T-Systems Trust Center,O=T-Systems Enterprise Services GmbH,C=DE

# Not Valid Before: Wed Oct 01 10:29:56 2008

# Not Valid After : Sat Oct 01 23:59:59 2033

# Fingerprint (SHA-256):

FD:73:DA:D3:1C:64:4F:F1:B4:3B:EF:0C:CD:DA:96:71:0B:9C:D9:87:5E:CA:7E:31:70:7A:F3:E9:6D:52:2B:BD

```

Fingerprint (SHA1): 55:A6:72:3E:CB:F2:EC:CD:C3:23:74:70:19:9D:2A:BE:11:E3:81:D1
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN
CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "T-TeleSec GlobalRoot Class 3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\125\246\162\076\313\362\354\315\303\043\164\160\031\235\052\276
\021\343\201\321
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\312\373\100\250\116\071\222\212\035\376\216\057\304\047\352\357
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\202\061\013\060\011\006\003\125\004\006\023\002\104\105
\061\053\060\051\006\003\125\004\012\014\042\124\055\123\171\163
\164\145\155\163\040\105\156\164\145\162\160\162\151\163\145\040
\123\145\162\166\151\143\145\163\040\107\155\142\110\061\037\060
\035\006\003\125\004\013\014\026\124\055\123\171\163\164\145\155
\163\040\124\162\165\163\164\040\103\145\156\164\145\162\061\045
\060\043\006\003\125\004\003\014\034\124\055\124\145\154\145\123
\145\143\040\107\154\157\142\141\154\122\157\157\164\040\103\154
\141\163\163\040\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001
END
CKA_TRUST_SERVER_AUTH
CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "D-TRUST Root Class 3 CA 2 2009"
#
Issuer: CN=D-TRUST Root Class 3 CA 2 2009,O=D-Trust GmbH,C=DE
Serial Number: 623603 (0x983f3)
Subject: CN=D-TRUST Root Class 3 CA 2 2009,O=D-Trust GmbH,C=DE
Not Valid Before: Thu Nov 05 08:35:58 2009
Not Valid After : Mon Nov 05 08:35:58 2029
Fingerprint (SHA-256):
49:E7:A4:42:AC:F0:EA:62:87:05:00:54:B5:25:64:B6:50:E4:F4:9E:42:E3:48:D6:AA:38:E0:39:E9:57:B1:C1
Fingerprint (SHA1): 58:E8:AB:B0:36:15:33:FB:80:F7:9B:1B:6D:29:D3:FF:8D:5F:00:F0
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE

```

```
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "D-TRUST Root Class 3 CA 2 2009"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\115\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\025\060\023\006\003\125\004\012\014\014\104\055\124\162\165\163
\164\040\107\155\142\110\061\047\060\045\006\003\125\004\003\014
\036\104\055\124\122\125\123\124\040\122\157\157\164\040\103\154
\141\163\163\040\063\040\103\101\040\062\040\062\060\060\071
END
CKA_ID
UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\115\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\025\060\023\006\003\125\004\012\014\014\104\055\124\162\165\163
\164\040\107\155\142\110\061\047\060\045\006\003\125\004\003\014
\036\104\055\124\122\125\123\124\040\122\157\157\164\040\103\154
\141\163\163\040\063\040\103\101\040\062\040\062\060\060\071
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\003\011\203\363
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\063\060\202\003\033\240\003\002\001\002\002\003\011
\203\363\060\015\006\011\052\206\110\206\367\015\001\001\013\005
\000\060\115\061\013\060\011\006\003\125\004\006\023\002\104\105
\061\025\060\023\006\003\125\004\012\014\014\104\055\124\162\165
\163\164\040\107\155\142\110\061\047\060\045\006\003\125\004\003
\014\036\104\055\124\122\125\123\124\040\122\157\157\164\040\103
\154\141\163\163\040\063\040\103\101\040\062\040\062\060\060\071
\060\036\027\015\060\071\061\061\060\065\060\070\063\065\065\070
\132\027\015\062\071\061\061\060\065\060\070\063\065\065\070\132
\060\115\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\025\060\023\006\003\125\004\012\014\014\104\055\124\162\165\163
\164\040\107\155\142\110\061\047\060\045\006\003\125\004\003\014
\036\104\055\124\122\125\123\124\040\122\157\157\164\040\103\154
\141\163\163\040\063\040\103\101\040\062\040\062\060\060\071\060
\202\001\042\060\015\006\011\052\206\110\206\367\015\001\001\001
\005\000\003\202\001\017\000\060\202\001\012\002\202\001\001\000
\323\262\112\317\172\107\357\165\233\043\372\072\057\326\120\105
\211\065\072\306\153\333\376\333\000\150\250\340\003\021\035\067
\120\010\237\115\112\150\224\065\263\123\321\224\143\247\040\126
\257\336\121\170\354\052\075\363\110\110\120\076\012\337\106\125
\213\047\155\303\020\115\015\221\122\103\330\207\340\135\116\066
\265\041\312\137\071\100\004\137\133\176\314\243\306\053\251\100
\036\331\066\204\326\110\363\222\036\064\106\040\044\301\244\121
\216\112\032\357\120\077\151\135\031\177\105\303\307\001\217\121
\311\043\350\162\256\264\274\126\011\177\022\313\034\261\257\051
```

\220\012\311\125\314\017\323\264\032\355\107\065\132\112\355\234  
\163\004\041\320\252\275\014\023\265\000\312\046\154\304\153\014  
\224\132\225\224\332\120\232\361\377\245\053\146\061\244\311\070  
\240\337\035\037\270\011\056\363\247\350\147\122\253\225\037\340  
\106\076\330\244\303\312\132\305\061\200\350\110\232\237\224\151  
\376\031\335\330\163\174\201\312\226\336\216\355\263\062\005\145  
\204\064\346\346\375\127\020\265\137\166\277\057\260\020\015\305  
\002\003\001\000\001\243\202\001\032\060\202\001\026\060\017\006  
\003\125\035\023\001\001\377\004\005\060\003\001\001\377\060\035  
\006\003\125\035\016\004\026\004\024\375\332\024\304\237\060\336  
\041\275\036\102\071\374\253\143\043\111\340\361\204\060\016\006  
\003\125\035\017\001\001\377\004\004\003\002\001\006\060\201\323  
\006\003\125\035\037\004\201\313\060\201\310\060\201\200\240\176  
\240\174\206\172\154\144\141\160\072\057\057\144\151\162\145\143  
\164\157\162\171\056\144\055\164\162\165\163\164\056\156\145\164  
\057\103\116\075\104\055\124\122\125\123\124\045\062\060\122\157  
\157\164\045\062\060\103\154\141\163\163\045\062\060\063\045\062  
\060\103\101\045\062\060\062\045\062\060\062\060\060\071\054\117  
\075\104\055\124\162\165\163\164\045\062\060\107\155\142\110\054  
\103\075\104\105\077\143\145\162\164\151\146\151\143\141\164\145  
\162\145\166\157\143\141\164\151\157\156\154\151\163\164\060\103  
\240\101\240\077\206\075\150\164\164\160\072\057\057\167\167\167  
\056\144\055\164\162\165\163\164\056\156\145\164\057\143\162\154  
\057\144\055\164\162\165\163\164\137\162\157\157\164\137\143\154  
\141\163\163\137\063\137\143\141\137\062\137\062\060\060\071\056  
\143\162\154\060\015\006\011\052\206\110\206\367\015\001\001\013  
\005\000\003\202\001\001\000\177\227\333\060\310\337\244\234\175  
\041\172\200\160\316\024\022\151\210\024\225\140\104\001\254\262  
\351\060\117\233\120\302\146\330\176\215\060\265\160\061\351\342  
\151\307\363\160\333\040\025\206\320\015\360\276\254\001\165\204  
\316\176\237\115\277\267\140\073\234\363\312\035\342\136\150\330  
\243\235\227\345\100\140\322\066\041\376\320\264\270\027\332\164  
\243\177\324\337\260\230\002\254\157\153\153\054\045\044\162\241  
\145\356\045\132\345\346\062\347\362\337\253\111\372\363\220\151  
\043\333\004\331\347\134\130\374\145\324\227\276\314\374\056\012  
\314\045\052\065\004\370\140\221\025\165\075\101\377\043\037\031  
\310\154\353\202\123\004\246\344\114\042\115\215\214\272\316\133  
\163\354\144\124\120\155\321\234\125\373\151\303\066\303\214\274  
\074\205\246\153\012\046\015\340\223\230\140\256\176\306\044\227  
\212\141\137\221\216\146\222\011\207\066\315\213\233\055\076\366  
\121\324\120\324\131\050\275\203\362\314\050\173\123\206\155\330  
\046\210\160\327\352\221\315\076\271\312\300\220\156\132\306\136  
\164\145\327\134\376\243\342

END

CKA\_NSS\_MOZILLA\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

```

Trust for "D-TRUST Root Class 3 CA 2 2009"
Issuer: CN=D-TRUST Root Class 3 CA 2 2009,O=D-Trust GmbH,C=DE
Serial Number: 623603 (0x983f3)
Subject: CN=D-TRUST Root Class 3 CA 2 2009,O=D-Trust GmbH,C=DE
Not Valid Before: Thu Nov 05 08:35:58 2009
Not Valid After : Mon Nov 05 08:35:58 2029
Fingerprint (SHA-256):
49:E7:A4:42:AC:F0:EA:62:87:05:00:54:B5:25:64:B6:50:E4:F4:9E:42:E3:48:D6:AA:38:E0:39:E9:57:B1:C1
Fingerprint (SHA1): 58:E8:AB:B0:36:15:33:FB:80:F7:9B:1B:6D:29:D3:FF:8D:5F:00:F0
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "D-TRUST Root Class 3 CA 2 2009"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\130\350\253\260\066\025\063\373\200\367\233\033\155\051\323\377
\215\137\000\360
END
CKA_CERT_MD5_HASH
MULTILINE_OCTAL
\315\340\045\151\215\107\254\234\211\065\220\367\375\121\075\057
END
CKA_ISSUER MULTILINE_OCTAL
\060\115\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\025\060\023\006\003\125\004\012\014\014\104\055\124\162\165\163
\164\040\107\155\142\110\061\047\060\045\006\003\125\004\003\014
\036\104\055\124\122\125\123\124\040\122\157\157\164\040\103\154
\141\163\163\040\063\040\103\101\040\062\040\062\060\060\071
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\003\011\203\363
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "D-TRUST Root Class 3 CA 2 EV 2009"
#
Issuer: CN=D-TRUST Root Class 3 CA 2 EV 2009,O=D-Trust GmbH,C=DE
Serial Number: 623604 (0x983f4)
Subject: CN=D-TRUST Root Class 3
CA 2 EV 2009,O=D-Trust GmbH,C=DE
Not Valid Before: Thu Nov 05 08:50:46 2009
Not Valid After : Mon Nov 05 08:50:46 2029
Fingerprint (SHA-256):

```



EE:C5:49:6B:98:8C:E9:86:25:B9:34:09:2E:EC:29:08:BE:D0:B0:F3:16:C2:D4:73:0C:84:EA:F1:F3:D3:48:81

# Fingerprint (SHA1): 96:C9:1B:0B:95:B4:10:98:42:FA:D0:D8:22:79:FE:60:FA:B9:16:83

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_CERTIFICATE

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "D-TRUST Root Class 3 CA 2 EV 2009"

CKA\_CERTIFICATE\_TYPE CK\_CERTIFICATE\_TYPE CKC\_X\_509

CKA\_SUBJECT MULTILINE\_OCTAL

\060\120\061\013\060\011\006\003\125\004\006\023\002\104\105\061  
\025\060\023\006\003\125\004\012\014\014\104\055\124\162\165\163  
\164\040\107\155\142\110\061\052\060\050\006\003\125\004\003\014  
\041\104\055\124\122\125\123\124\040\122\157\157\164\040\103\154  
\141\163\163\040\063\040\103\101\040\062\040\105\126\040\062\060  
\060\071

END

CKA\_ID UTF8 "0"

CKA\_ISSUER MULTILINE\_OCTAL

\060\120\061\013\060\011\006\003\125\004\006\023\002\104\105\061  
\025\060\023\006\003\125\004\012\014\014\104\055\124\162\165\163  
\164\040\107\155\142\110\061\052\060\050\006\003\125\004\003\014  
\041\104\055\124\122\125\123\124\040\122\157\157\164\040\103\154  
\141\163\163\040\063\040\103\101\040\062\040\105\126\040\062\060  
\060\071

END

CKA\_SERIAL\_NUMBER

MULTILINE\_OCTAL

\002\003\011\203\364

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\004\103\060\202\003\053\240\003\002\001\002\002\003\011  
\203\364\060\015\006\011\052\206\110\206\367\015\001\001\013\005  
\000\060\120\061\013\060\011\006\003\125\004\006\023\002\104\105  
\061\025\060\023\006\003\125\004\012\014\014\104\055\124\162\165  
\163\164\040\107\155\142\110\061\052\060\050\006\003\125\004\003  
\014\041\104\055\124\122\125\123\124\040\122\157\157\164\040\103  
\154\141\163\163\040\063\040\103\101\040\062\040\105\126\040\062  
\060\060\071\060\036\027\015\060\071\061\061\060\065\060\070\065  
\060\064\066\132\027\015\062\071\061\061\060\065\060\070\065\060  
\064\066\132\060\120\061\013\060\011\006\003\125\004\006\023\002  
\104\105\061\025\060\023\006\003\125\004\012\014\014\104\055\124  
\162\165\163\164\040\107\155\142\110\061\052\060\050\006\003\125  
\004\003\014\041\104\055\124\122\125\123\124\040\122\157\157\164  
\040\103\154\141\163\163\040\063\040\103\101\040\062\040\105\126  
\040\062\060\060\071\060\202\001\042\060\015\006\011\052\206\110  
\206\367\015\001\001\001\005\000\003\202\001\017\000\060\202\001  
\012\002\202\001\001\000\231\361\204\064\160\272\057\267\060\240  
\216\275\174\004\317\276\142\274\231\375\202\227\322\172\012\147

\226\070\011\366\020\116\225\042\163\231\215\332\025\055\347\005  
\374\031\163\042\267\216\230\000\274\074\075\254\241\154\373\326  
\171\045\113\255\360\314\144\332\210\076\051\270\017\011\323\064  
\335\063\365\142\321\341\315\031\351\356\030\117\114\130\256\342  
\036\326\014\133\025\132\330\072\270\304\030\144\036\343\063\262  
\265\211\167\116\014\277\331\224\153\023\227\157\022\243\376\231  
\251\004\314\025\354\140\150\066\355\010\173\267\365\277\223\355  
\146\061\203\214\306\161\064\207\116\027\352\257\213\221\215\034  
\126\101\256\042\067\136\067\362\035\331\321\055\015\057\151\121  
\247\276\146\246\212\072\052\275\307\032\261\341\024\360\276\072  
\035\271\317\133\261\152\376\264\261\106\040\242\373\036\073\160  
\357\223\230\175\214\163\226\362\305\357\205\160\255\051\046\374  
\036\004\076\034\240\330\017\313\122\203\142\174\356\213\123\225  
\220\251\127\242\352\141\005\330\371\115\304\047\372\156\255\355  
\371\327\121\367\153\245\002\003\001\000\001\243\202\001\044\060  
\202\001\040\060\017\006\003\125\035\023\001\001\377\004\005\060  
\003\001\001\377\060\035\006\003\125\035\016\004\026\004\024\323  
\224\212\114\142\023\052\031\056\314\257\162\212\175\066\327\232  
\034\334\147\060\016\006\003\125\035\017\001\001\377\004\004\003  
\002\001\006\060\201\335\006\003\125\035\037\004\201\325\060\201  
\322\060\201\207\240\201\204\240\201\201\206\177\154\144\141\160  
\072\057\057\144\151\162\145\143\164\157\162\171\056\144\055\164  
\162\165\163\164\056\156\145\164\057\103\116\075\104\055\124\122  
\125\123\124\045\062\060\122\157\157\164\045\062\060\103\154\141  
\163\163\045\062\060\063\045\062\060\103\101\045\062\060\062\045  
\062\060\105\126\045\062\060\062\060\060\071\054\117\075\104\055  
\124\162\165\163\164\045\062\060\107\155\142\110\054\103\075\104  
\105\077\143\145\162\164\151\146\151\143\141\164\145\162\145\166  
\157\143\141\164\151\157\156\154\151\163\164\060\106\240\104\240  
\102\206\100\150\164\164\160\072\057\057\167\167\167\056\144\055  
\164\162\165\163\164\056\156\145\164\057\143\162\154\057\144\055  
\164\162\165\163\164\137\162\157\157\164\137\143\154\141\163\163  
\137\063\137\143\141\137\062\137\145\166\137\062\060\060\071\056  
\143\162\154\060\015\006\011\052\206\110\206\367\015\001\001\013  
\005\000\003\202\001\001\000\064\355\173\132\074\244\224\210\357  
\032\021\165\007\057\263\376\074\372\036\121\046\353\207\366\051  
\336\340\361\324\306\044\011\351\301\317\125\033\264\060\331\316  
\032\376\006\121\246\025\244\055\357\262\113\277\040\050\045\111  
\321\246\066\167\064\350\144\337\122\261\021\307\163\172\315\071  
\236\302\255\214\161\041\362\132\153\257\337\074\116\125\257\262  
\204\145\024\211\271\167\313\052\061\276\317\243\155\317\157\110  
\224\062\106\157\347\161\214\240\246\204\031\067\007\362\003\105  
\011\053\206\165\174\337\137\151\127\000\333\156\330\246\162\042  
\113\120\324\165\230\126\337\267\030\377\103\103\120\256\172\104  
\173\360\171\121\327\103\075\247\323\201\323\360\311\117\271\332  
\306\227\206\320\202\303\344\102\155\376\260\342\144\116\016\046  
\347\100\064\046\265\010\211\327\010\143\143\070\047\165\036\063  
\352\156\250\335\237\231\117\164\115\201\211\200\113\335\232\227

```
\051\134\057\276\201\101\271\214\377\352\175\140\006\236\315\327
\075\323\056\243\025\274\250\346\046\345\157\303\334\270\003\041
\352\237\026\361\054\124\265
```

END

CKA\_NSS\_Mozilla\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "D-TRUST

Root Class 3 CA 2 EV 2009"

# Issuer: CN=D-TRUST Root Class 3 CA 2 EV 2009,O=D-Trust GmbH,C=DE

# Serial Number: 623604 (0x983f4)

# Subject: CN=D-TRUST Root Class 3 CA 2 EV 2009,O=D-Trust GmbH,C=DE

# Not Valid Before: Thu Nov 05 08:50:46 2009

# Not Valid After : Mon Nov 05 08:50:46 2029

# Fingerprint (SHA-256):

EE:C5:49:6B:98:8C:E9:86:25:B9:34:09:2E:EC:29:08:BE:D0:B0:F3:16:C2:D4:73:0C:84:EA:F1:F3:D3:48:81

# Fingerprint (SHA1): 96:C9:1B:0B:95:B4:10:98:42:FA:D0:D8:22:79:FE:60:FA:B9:16:83

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "D-TRUST Root Class 3 CA 2 EV 2009"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

```
\226\311\033\013\225\264\020\230\102\372\320\330\042\171\376\140
\372\271\026\203
```

END

CKA\_CERT\_MD5\_HASH MULTILINE\_OCTAL

```
\252\306\103\054\136\055\315\304\064\300\120\117\021\002\117\266
```

END

CKA\_ISSUER MULTILINE\_OCTAL

```
\060\120\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\025\060\023\006\003\125\004\012\014\014\104\055\124\162\165\163
\164\040\107\155\142\110\061\052\060\050\006\003\125\004\003\014
\041\104\055\124\122\125\123\124\040\122\157\157\164\040\103\154
\141\163\163\040\063\040\103\101\040\062\040\105\126\040\062\060
\060\071
```

END

CKA\_SERIAL\_NUMBER

MULTILINE\_OCTAL

```
\002\003\011\203\364
```

END

CKA\_TRUST\_SERVER\_AUTH CK\_TRUST CKT\_NSS\_TRUSTED\_DELEGATOR

CKA\_TRUST\_EMAIL\_PROTECTION CK\_TRUST CKT\_NSS\_MUST\_VERIFY\_TRUST

CKA\_TRUST\_CODE\_SIGNING CK\_TRUST CKT\_NSS\_MUST\_VERIFY\_TRUST

CKA\_TRUST\_STEP\_UP\_APPROVED CK\_BBOOL CK\_FALSE

```
#
Certificate "CA Disig Root R2"
#
Issuer: CN=CA Disig Root R2,O=Disig a.s.,L=Bratislava,C=SK
Serial Number:00:92:b8:88:db:b0:8a:c1:63
Subject: CN=CA Disig Root R2,O=Disig a.s.,L=Bratislava,C=SK
Not Valid Before: Thu Jul 19 09:15:30 2012
Not Valid After : Sat Jul 19 09:15:30 2042
Fingerprint (SHA-256):
E2:3D:4A:03:6D:7B:70:E9:F5:95:B1:42:20:79:D2:B9:1E:DF:BB:1F:B6:51:A0:63:3E:AA:8A:9D:C5:F8:07:03
Fingerprint (SHA1): B5:61:EB:EA:A4:DE:E4:25:4B:69:1A:98:A5:57:47:C2:34:C7:D9:71
CKA_CLASS
CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "CA Disig Root R2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\122\061\013\060\011\006\003\125\004\006\023\002\123\113\061
\023\060\021\006\003\125\004\007\023\012\102\162\141\164\151\163
\154\141\166\141\061\023\060\021\006\003\125\004\012\023\012\104
\151\163\151\147\040\141\056\163\056\061\031\060\027\006\003\125
\004\003\023\020\103\101\040\104\151\163\151\147\040\122\157\157
\164\040\122\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\122\061\013\060\011\006\003\125\004\006\023\002\123\113\061
\023\060\021\006\003\125\004\007\023\012\102\162\141\164\151\163
\154\141\166\141\061\023\060\021\006\003\125\004\012\023\012\104
\151\163\151\147\040\141\056\163\056\061\031\060\027\006\003\125
\004\003\023\020\103\101\040\104\151\163\151\147\040\122\157\157
\164\040\122\062
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\011\000\222\270\210\333\260\212\301\143
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\151\060\202\003\121\240\003\002\001\002\002\011\000
\222\270\210\333\260\212\301\143\060\015\006\011\052\206\110\206
\367\015\001\001\013\005\000\060\122\061\013\060\011\006\003\125
\004\006\023\002\123\113\061\023\060\021\006\003\125\004\007\023
\012\102\162\141\164\151\163\154\141\166\141\061\023\060\021\006
\003\125\004\012\023\012\104\151\163\151\147\040\141\056\163\056
\061\031\060\027\006\003\125\004\003\023\020\103\101\040\104\151
\163\151\147\040\122\157\157\164\040\122\062\060\036\027\015\061
```

\062\060\067\061\071\060\071\061\065\063\060\132\027\015\064\062  
\060\067\061\071\060\071\061\065\063\060\132\060\122\061\013\060  
\011\006\003\125\004\006\023\002\123\113\061\023\060\021\006\003  
\125\004\007\023\012\102\162\141\164\151\163\154\141\166\141\061  
\023\060\021\006\003\125\004\012\023\012\104\151\163\151\147\040  
\141\056\163\056\061\031\060\027\006\003\125\004\003\023\020\103  
\101\040\104\151\163\151\147\040\122\157\157\164\040\122\062\060  
\202\002\042\060\015\006\011\052\206\110\206\367\015\001\001\001  
\005\000\003\202\002\017\000\060\202\002\012\002\202\002\001\000  
\242\243\304\000\011\326\205\135\055\155\024\366\302\303\163\236  
\065\302\161\125\176\201\373\253\106\120\340\301\174\111\170\346  
\253\171\130\074\332\377\174\034\237\330\227\002\170\076\153\101  
\004\351\101\275\276\003\054\105\366\057\144\324\253\135\243\107  
\075\144\233\351\150\232\306\314\033\077\272\276\262\213\064\002  
\056\230\125\031\374\214\157\252\137\332\114\316\115\003\041\243  
\330\322\064\223\126\226\313\114\014\000\026\074\137\032\315\310  
\307\154\246\255\323\061\247\274\350\345\341\146\326\322\373\003  
\264\101\145\311\020\256\016\005\143\306\200\152\151\060\375\322  
\356\220\357\015\047\337\237\225\163\364\341\045\332\154\026\336  
\101\070\064\352\213\374\321\350\004\024\141\055\101\176\254\307  
\167\116\313\121\124\373\136\222\030\033\004\132\150\306\311\304  
\372\267\023\240\230\267\021\053\267\326\127\314\174\236\027\321  
\313\045\376\206\116\044\056\126\014\170\115\236\001\022\246\053  
\247\001\145\156\174\142\035\204\204\337\352\300\153\265\245\052  
\225\203\303\123\021\014\163\035\013\262\106\220\321\102\072\316  
\100\156\225\255\377\306\224\255\156\227\204\216\175\157\236\212  
\200\015\111\155\163\342\173\222\036\303\363\301\363\353\056\005  
\157\331\033\317\067\166\004\310\264\132\344\027\247\313\335\166  
\037\320\031\166\350\054\005\263\326\234\064\330\226\334\141\207  
\221\005\344\104\010\063\301\332\271\010\145\324\256\262\066\015  
\353\272\070\272\014\345\233\236\353\215\146\335\231\317\326\211  
\101\366\004\222\212\051\051\155\153\072\034\347\165\175\002\161  
\016\363\300\347\275\313\031\335\235\140\262\302\146\140\266\261  
\004\356\311\346\206\271\232\146\100\250\347\021\355\201\105\003  
\213\366\147\131\350\301\006\021\275\335\317\200\002\117\145\100  
\170\134\107\120\310\233\346\037\201\173\344\104\250\133\205\232  
\342\336\132\325\307\371\072\104\146\113\344\062\124\174\344\154  
\234\263\016\075\027\242\262\064\022\326\176\262\250\111\273\321  
\172\050\100\276\242\026\037\337\344\067\037\021\163\373\220\012  
\145\103\242\015\174\370\006\001\125\063\175\260\015\270\364\365  
\256\245\102\127\174\066\021\214\173\136\304\003\235\214\171\235  
\002\003\001\000\001\243\102\060\100\060\017\006\003\125\035\023  
\001\001\377\004\005\060\003\001\001\377\060\016\006\003\125\035  
\017\001\001\377\004\004\003\002\001\006\060\035\006\003\125\035  
\016\004\026\004\024\265\231\370\257\260\224\365\343\040\326\012  
\255\316\116\126\244\056\156\102\355\060\015\006\011\052\206\110  
\206\367\015\001\001\013\005\000\003\202\002\001\000\046\006\136  
\160\347\145\063\310\202\156\331\234\027\072\033\172\146\262\001

\366\170\073\151\136\057\352\377\116\371\050\303\230\052\141\114  
\264\044\022\212\175\155\021\024\367\234\265\312\346\274\236\047  
\216\114\031\310\251\275\172\300\327\066\016\155\205\162\156\250  
\306\242\155\366\372\163\143\177\274\156\171\010\034\235\212\237  
\032\212\123\246\330\273\331\065\125\261\021\305\251\003\263\126  
\073\271\204\223\042\136\176\301\366\022\122\213\352\054\147\274  
\376\066\114\365\270\317\321\263\111\222\073\323\051\016\231\033  
\226\367\141\270\073\304\053\266\170\154\264\043\157\360\375\323  
\262\136\165\037\231\225\250\254\366\332\341\305\061\173\373\321  
\106\263\322\274\147\264\142\124\272\011\367\143\260\223\242\232  
\371\351\122\056\213\140\022\253\374\365\140\126\357\020\134\213  
\304\032\102\334\203\133\144\016\313\265\274\326\117\301\174\074  
\156\215\023\155\373\173\353\060\320\334\115\257\305\325\266\245  
\114\133\161\311\350\061\276\350\070\006\110\241\032\342\352\322  
\336\022\071\130\032\377\200\016\202\165\346\267\311\007\154\016  
\357\377\070\361\230\161\304\267\177\016\025\320\045\151\275\042  
\235\053\355\005\366\106\107\254\355\300\360\324\073\342\354\356  
\226\133\220\023\116\036\126\072\353\260\357\226\273\226\043\021  
\272\362\103\206\164\144\225\310\050\165\337\035\065\272\322\067  
\203\070\123\070\066\073\317\154\351\371\153\016\320\373\004\350  
\117\167\327\145\001\170\206\014\172\076\041\142\361\177\143\161  
\014\311\237\104\333\250\047\242\165\276\156\201\076\327\300\353  
\033\230\017\160\134\064\262\212\314\300\205\030\353\156\172\263  
\367\132\241\007\277\251\102\222\363\140\042\227\344\024\241\007  
\233\116\166\300\216\175\375\244\045\307\107\355\377\037\163\254  
\314\303\245\351\157\012\216\233\145\302\120\205\265\243\240\123  
\022\314\125\207\141\363\201\256\020\106\141\275\104\041\270\302  
\075\164\317\176\044\065\372\034\007\016\233\075\042\312\357\061  
\057\214\254\022\275\357\100\050\374\051\147\237\262\023\117\146  
\044\304\123\031\351\036\051\025\357\346\155\260\177\055\147\375  
\363\154\033\165\106\243\345\112\027\351\244\327\013

END

CKA\_NSS\_MOZILLA\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "CA Disig Root R2"

# Issuer: CN=CA Disig Root R2,O=Disig a.s.,L=Bratislava,C=SK

#

Serial Number:00:92:b8:88:db:b0:8a:c1:63

# Subject: CN=CA Disig Root R2,O=Disig a.s.,L=Bratislava,C=SK

# Not Valid Before: Thu Jul 19 09:15:30 2012

# Not Valid After : Sat Jul 19 09:15:30 2042

# Fingerprint (SHA-256):

E2:3D:4A:03:6D:7B:70:E9:F5:95:B1:42:20:79:D2:B9:1E:DF:BB:1F:B6:51:A0:63:3E:AA:8A:9D:C5:F8:07:03

# Fingerprint (SHA1): B5:61:EB:EA:A4:DE:E4:25:4B:69:1A:98:A5:57:47:C2:34:C7:D9:71

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

```

CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "CA Disig Root R2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\265\141\353\352\244\336\344\045\113\151\032\230\245\127\107\302
\064\307\331\161
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\046\001\373\330\047\247\027\232\105\124\070\032\103\001\073\003
END
CKA_ISSUER MULTILINE_OCTAL
\060\122\061\013\060\011\006\003\125\004\006\023\002\123\113\061
\023\060\021\006\003\125\004\007\023\012\102\162\141\164\151\163
\154\141\166\141\061\023\060\021\006\003\125\004\012\023\012\104
\151\163\151\147\040\141\056\163\056\061\031\060\027\006\003\125
\004\003\023\020\103\101\040\104\151\163\151\147\040\122\157\157
\164\040\122\062
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\011\000\222\270\210\333\260\212\301\143
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "ACCVRAIZ1"
#
Issuer: C=ES,O=ACCV,OU=PKIACCV,CN=ACCVRAIZ1
Serial Number:5e:c3:b7:a6:43:7f:a4:e0
Subject: C=ES,O=ACCV,OU=PKIACCV,CN=ACCVRAIZ1
Not Valid Before: Thu May 05 09:37:37 2011
Not Valid After : Tue Dec 31 09:37:37 2030
Fingerprint (SHA-256):
9A:6E:C0:12:E1:A7:DA:9D:BE:34:19:4D:47:8A:D7:C0:DB:18:22:FB:07:1D:F1:29:81:49:6E:D1:04:38:41:13
Fingerprint (SHA1): 93:05:7A:88:15:C6:4F:CE:88:2F:FA:91:16:52:28:78:BC:53:64:17
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE
CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ACCVRAIZ1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\102\061\022\060\020\006\003\125\004\003\014\011\101\103\103

```

\126\122\101\111\132\061\061\020\060\016\006\003\125\004\013\014  
\007\120\113\111\101\103\103\126\061\015\060\013\006\003\125\004  
\012\014\004\101\103\103\126\061\013\060\011\006\003\125\004\006  
\023\002\105\123

END

CKA\_ID UTF8 "0"

CKA\_ISSUER MULTILINE\_OCTAL

\060\102\061\022\060\020\006\003\125\004\003\014\011\101\103\103  
\126\122\101\111\132\061\061\020\060\016\006\003\125\004\013\014  
\007\120\113\111\101\103\103\126\061\015\060\013\006\003\125\004  
\012\014\004\101\103\103\126\061\013\060\011\006\003\125\004\006  
\023\002\105\123

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

\002\010\136\303\267\246\103\177\244\340

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\007\323\060\202\005\273\240\003\002\001\002\002\010\136  
\303\267\246\103\177\244\340\060\015\006\011\052\206\110\206\367  
\015\001\001\005\005\000\060\102\061\022\060\020\006\003\125\004  
\003\014\011\101\103\103\126\122\101\111\132\061\061\020\060\016  
\006\003\125\004\013\014\007\120\113\111\101\103\103\126\061\015  
\060\013\006\003\125\004\012\014\004\101\103\103\126\061\013\060  
\011\006\003\125\004\006\023\002\105\123\060\036\027\015\061\061  
\060\065\060\065\060\071\063\067\063\067\132\027\015\063\060\061  
\062\063\061\060\071\063\067\063\067\132\060\102\061\022\060\020  
\006\003\125\004\003\014\011\101\103\103\126\122\101\111\132\061  
\061\020\060\016\006\003\125\004\013\014\007\120\113\111\101\103  
\103\126\061\015\060\013\006\003\125\004\012\014\004\101\103\103  
\126\061\013\060\011\006\003\125\004\006\023\002\105\123\060\202  
\002\042\060\015\006\011\052\206\110\206\367\015\001\001\001\005  
\000\003\202\002\017\000\060\202\002\012\002\202\002\001\000\233  
\251\253\277\141\112\227\257\057\227\146\232\164\137\320\331\226  
\375\317\342\344\146\357\037\037\107\063\302\104\243\337\232\336  
\037\265\124\335\025\174\151\065\021\157\273\310\014\216\152\030  
\036\330\217\331\026\274\020\110\066\134\360\143\263\220\132\134  
\044\067\327\243\326\313\011\161\271\361\001\162\204\260\175\333  
\115\200\315\374\323\157\311\370\332\266\016\202\322\105\205\250  
\033\150\250\075\350\364\104\154\275\241\302\313\003\276\214\076  
\023\000\204\337\112\110\300\343\042\012\350\351\067\247\030\114  
\261\011\015\043\126\177\004\115\331\027\204\030\245\310\332\100  
\224\163\353\316\016\127\074\003\201\072\235\012\241\127\103\151  
\254\127\155\171\220\170\345\265\264\073\330\274\114\215\050\241  
\247\243\247\272\002\116\045\321\052\256\355\256\003\042\270\153  
\040\017\060\050\124\225\177\340\356\316\012\146\235\321\100\055  
\156\042\257\235\032\301\005\031\322\157\300\362\237\370\173\263  
\002\102\373\120\251\035\055\223\017\043\253\306\301\017\222\377  
\320\242\025\365\123\011\161\034\377\105\023\204\346\046\136\370



\340\210\034\012\374\026\266\250\163\006\270\360\143\204\002\240  
\306\132\354\347\164\337\160\256\243\203\045\352\326\307\227\207  
\223\247\306\212\212\063\227\140\067\020\076\227\076\156\051\025  
\326\241\017\321\210\054\022\237\157\252\244\306\102\353\101\242  
\343\225\103\323\001\205\155\216\273\073\363\043\066\307\376\073  
\340\241\045\007\110\253\311\211\164\377\010\217\200\277\300\226  
\145\363\356\354\113\150\275\235\210\303\061\263\100\361\350\317  
\366\070\273\234\344\321\177\324\345\130\233\174\372\324\363\016  
\233\165\221\344\272\122\056\031\176\321\365\315\132\031\374\272  
\006\366\373\122\250\113\231\004\335\370\371\264\213\120\243\116  
\142\211\360\207\044\372\203\102\301\207\372\325\055\051\052\132  
\161\172\144\152\327\047\140\143\015\333\316\111\365\215\037\220  
\211\062\027\370\163\103\270\322\132\223\206\141\326\341\165\012  
\352\171\146\166\210\117\161\353\004\045\326\012\132\172\223\345  
\271\113\027\100\017\261\266\271\365\336\117\334\340\263\254\073  
\021\160\140\204\112\103\156\231\040\300\051\161\012\300\145\002  
\003\001\000\001\243\202\002\313\060\202\002\307\060\175\006\010  
\053\006\001\005\005\007\001\001\004\161\060\157\060\114\006\010  
\053\006\001\005\005\007\060\002\206\100\150\164\164\160\072\057  
\057\167\167\167\056\141\143\143\166\056\145\163\057\146\151\154  
\145\141\144\155\151\156\057\101\162\143\150\151\166\157\163\057  
\143\145\162\164\151\146\151\143\141\144\157\163\057\162\141\151  
\172\141\143\143\166\061\056\143\162\164\060\037\006\010\053\006  
\001\005\005\007\060\001\206\023\150\164\164\160\072\057\057\157  
\143\163\160\056\141\143\143\166\056\145\163\060\035\006\003\125  
\035\016\004\026\004\024\322\207\264\343\337\067\047\223\125\366  
\126\352\201\345\066\314\214\036\077\275\060\017\006\003\125\035  
\023\001\001\377\004\005\060\003\001\001\377\060\037\006\003\125  
\035\043\004\030\060\026\200\024\322\207\264\343\337\067\047\223  
\125\366\126\352\201\345\066\314\214\036\077\275\060\202\001\163  
\006\003\125\035\040\004\202\001\152\060\202\001\146\060\202\001  
\142\006\004\125\035\040\000\060\202\001\130\060\202\001\042\006  
\010\053\006\001\005\005\007\002\002\060\202\001\024\036\202\001  
\020\000\101\000\165\000\164\000\157\000\162\000\151\000\144\000  
\141\000\144\000\040\000\144\000\145\000\040\000\103\000\145\000  
\162\000\164\000\151\000\146\000\151\000\143\000\141\000\143\000  
\151\000\363\000\156\000\040\000\122\000\141\000\355\000\172\000  
\040\000\144\000\145\000\040\000\154\000\141\000\040\000\101\000  
\103\000\103\000\126\000\040\000\050\000\101\000\147\000\145\000  
\156\000\143\000\151\000\141\000\040\000\144\000\145\000\040\000  
\124\000\145\000\143\000\156\000\157\000\154\000\157\000\147\000  
\355\000\141\000\040\000\171\000\040\000\103\000\145\000\162\000  
\164\000\151\000\146\000\151\000\143\000\141\000\143\000\151\000  
\363\000\156\000\040\000\105\000\154\000\145\000\143\000\164\000  
\162\000\363\000\156\000\151\000\143\000\141\000\054\000\040\000  
\103\000\111\000\106\000\040\000\121\000\064\000\066\000\060\000  
\061\000\061\000\065\000\066\000\105\000\051\000\056\000\040\000  
\103\000\120\000\123\000\040\000\145\000\156\000\040\000\150\000

\164\000\164\000\160\000\072\000\057\000\057\000\167\000\167\000  
\167\000\056\000\141\000\143\000\143\000\166\000\056\000\145\000  
\163\060\060\006\010\053\006\001\005\005\007\002\001\026\044\150  
\164\164\160\072\057\057\167\167\167\056\141\143\143\166\056\145  
\163\057\154\145\147\151\163\154\141\143\151\157\156\137\143\056  
\150\164\155\060\125\006\003\125\035\037\004\116\060\114\060\112  
\240\110\240\106\206\104\150\164\164\160\072\057\057\167\167\167  
\056\141\143\143\166\056\145\163\057\146\151\154\145\141\144\155  
\151\156\057\101\162\143\150\151\166\157\163\057\143\145\162\164  
\151\146\151\143\141\144\157\163\057\162\141\151\172\141\143\143  
\166\061\137\144\145\162\056\143\162\154\060\016\006\003\125\035  
\017\001\001\377\004\004\003\002\001\006\060\027\006\003\125\035  
\021\004\020\060\016\201\014\141\143\143\166\100\141\143\143\166  
\056\145\163\060\015\006\011\052\206\110\206\367\015\001\001\005  
\005\000\003\202\002\001\000\227\061\002\237\347\375\103\147\110  
\104\024\344\051\207\355\114\050\146\320\217\065\332\115\141\267  
\112\227\115\265\333\220\340\005\056\016\306\171\320\362\227\151  
\017\275\004\107\331\276\333\265\051\332\233\331\256\251\231\325  
\323\074\060\223\365\215\241\250\374\006\215\104\364\312\026\225  
\174\063\334\142\213\250\067\370\047\330\011\055\033\357\310\024  
\047\040\251\144\104\377\056\326\165\252\154\115\140\100\031\111  
\103\124\143\332\342\314\272\146\345\117\104\172\133\331\152\201  
\053\100\325\177\371\001\047\130\054\310\355\110\221\174\077\246  
\000\317\304\051\163\021\066\336\206\031\076\235\356\031\212\033  
\325\260\355\216\075\234\052\300\015\330\075\146\343\074\015\275  
\325\224\134\342\342\247\065\033\004\000\366\077\132\215\352\103  
\275\137\211\035\251\301\260\314\231\342\115\000\012\332\311\047  
\133\347\023\220\134\344\365\063\242\125\155\334\340\011\115\057  
\261\046\133\047\165\000\011\304\142\167\051\010\137\236\131\254  
\266\176\255\237\124\060\042\003\301\036\161\144\376\371\070\012  
\226\030\335\002\024\254\043\313\006\034\036\244\175\215\015\336  
\047\101\350\255\332\025\267\260\043\335\053\250\323\332\045\207  
\355\350\125\104\115\210\364\066\176\204\232\170\254\367\016\126  
\111\016\326\063\045\326\204\120\102\154\040\022\035\052\325\276  
\274\362\160\201\244\160\140\276\005\265\233\236\004\104\276\141  
\043\254\351\245\044\214\021\200\224\132\242\242\271\111\322\301  
\334\321\247\355\061\021\054\236\031\246\356\341\125\341\300\352  
\317\015\204\344\027\267\242\174\245\336\125\045\006\356\314\300  
\207\134\100\332\314\225\077\125\340\065\307\270\204\276\264\135  
\315\172\203\001\162\356\207\346\137\035\256\265\205\306\046\337  
\346\301\232\351\036\002\107\237\052\250\155\251\133\317\354\105  
\167\177\230\047\232\062\135\052\343\204\356\305\230\146\057\226  
\040\035\335\330\303\047\327\260\371\376\331\175\315\320\237\217  
\013\024\130\121\237\057\213\303\070\055\336\350\217\326\215\207  
\244\365\126\103\026\231\054\364\244\126\264\064\270\141\067\311  
\302\130\200\033\240\227\241\374\131\215\351\021\366\321\017\113  
\125\064\106\052\213\206\073

END

```

CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRICT_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRICT_AFTER CK_BBOOL CK_FALSE

Trust for "ACCVRAIZ1"
Issuer: C=ES,O=ACCV,OU=PKIACCV,CN=ACCVRAIZ1
Serial Number:5e:c3:b7:a6:43:7f:a4:e0
Subject: C=ES,O=ACCV,OU=PKIACCV,CN=ACCVRAIZ1
Not Valid Before: Thu May 05 09:37:37 2011
Not Valid After : Tue Dec 31 09:37:37 2030
Fingerprint (SHA-256):
9A:6E:C0:12:E1:A7:DA:9D:BE:34:19:4D:47:8A:D7:C0:DB:18:22:FB:07:1D:F1:29:81:49:6E:D1:04:38:41:13
Fingerprint (SHA1): 93:05:7A:88:15:C6:4F:CE:88:2F:FA:91:16:52:28:78:BC:53:64:17
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ACCVRAIZ1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\223\005\172\210\025\306\117\316\210\057\372\221\026\122\050\170
\274\123\144\027
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\320\240\132\356\005\266\011\224\041\241\175\361\262\051\202\002
END
CKA_ISSUER
MULTILINE_OCTAL
\060\102\061\022\060\020\006\003\125\004\003\014\011\101\103\103
\126\122\101\111\132\061\061\020\060\016\006\003\125\004\013\014
\007\120\113\111\101\103\103\126\061\015\060\013\006\003\125\004
\012\014\004\101\103\103\126\061\013\060\011\006\003\125\004\006
\023\002\105\123
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\136\303\267\246\103\177\244\340
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "TWCA Global Root CA"
#
Issuer: CN=TWCA Global Root CA,OU=Root CA,O=TAIWAN-CA,C=TW
Serial Number: 3262 (0xcbe)
Subject: CN=TWCA Global Root CA,OU=Root CA,O=TAIWAN-CA,C=TW

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Not Valid Before: Wed Jun 27 06:28:33 2012
Not Valid After : Tue Dec 31 15:59:59 2030
Fingerprint (SHA-256):
59:76:90:07:F7:68:5D:0F:CD:50:87:2F:9F:95:D5:75:5A:5B:2B:45:7D:81:F3:69:2B:61:0A:98:67:2F:0E:1B
#
Fingerprint (SHA1): 9C:BB:48:53:F6:A4:F6:D3:52:A4:E8:32:52:55:60:13:F5:AD:AF:65
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TWCA Global Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\121\061\013\060\011\006\003\125\004\006\023\002\124\127\061
\022\060\020\006\003\125\004\012\023\011\124\101\111\127\101\116
\055\103\101\061\020\060\016\006\003\125\004\013\023\007\122\157
\157\164\040\103\101\061\034\060\032\006\003\125\004\003\023\023
\124\127\103\101\040\107\154\157\142\141\154\040\122\157\157\164
\040\103\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\121\061\013\060\011\006\003\125\004\006\023\002\124\127\061
\022\060\020\006\003\125\004\012\023\011\124\101\111\127\101\116
\055\103\101\061\020\060\016\006\003\125\004\013\023\007\122\157
\157\164\040\103\101\061\034\060\032\006\003\125\004\003\023\023
\124\127\103\101\040\107\154\157\142\141\154\040\122\157\157\164
\040\103\101
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\002\014\276
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\101\060\202\003\051\240\003\002\001\002\002\002\014
\276\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000
\060\121\061\013\060\011\006\003\125\004\006\023\002\124\127\061
\022\060\020\006\003\125\004\012\023\011\124\101\111\127\101\116
\055\103\101\061\020\060\016\006\003\125\004\013\023\007\122\157
\157\164\040\103\101\061\034\060\032\006\003\125\004\003\023\023
\124\127\103\101\040\107\154\157\142\141\154\040\122\157\157\164
\040\103\101\060\036\027\015\061\062\060\066\062\067\060\066\062
\070\063\063\132\027\015\063\060\061\062\063\061\061\065\065\071
\065\071\132\060\121\061\013\060\011\006\003\125\004\006\023\002
\124\127\061\022\060\020\006\003\125\004\012\023\011\124\101\111
\127\101\116\055\103\101\061\020\060\016\006\003\125\004\013\023
\007\122\157\157\164\040\103\101\061\034\060\032\006\003\125\004
\003\023\023\124\127\103\101\040\107\154\157\142\141\154\040\122
```

\157\157\164\040\103\101\060\202\002\042\060\015\006\011\052\206  
\110\206\367\015\001\001\001\005\000\003\202\002\017\000\060\202  
\002\012\002\202\002\001\000\260\005\333\310\353\214\304\156\212  
\041\357\216\115\234\161\012\037\122\160\355\155\202\234\227\305  
\327\114\116\105\111\313\100\102\265\022\064\154\031\302\164\244  
\061\137\205\002\227\354\103\063\012\123\322\234\214\216\267\270  
\171\333\053\325\152\362\216\146\304\356\053\001\007\222\324\263  
\320\002\337\120\366\125\257\146\016\313\340\107\140\057\053\062  
\071\065\122\072\050\203\370\173\026\306\030\270\142\326\107\045  
\221\316\360\031\022\115\255\143\365\323\077\165\137\051\360\241  
\060\034\052\240\230\246\025\275\356\375\031\066\360\342\221\103  
\217\372\312\326\020\047\111\114\357\335\301\361\205\160\233\312  
\352\250\132\103\374\155\206\157\163\351\067\105\251\360\066\307  
\314\210\165\036\273\154\006\377\233\153\076\027\354\141\252\161  
\174\306\035\242\367\111\351\025\265\074\326\241\141\365\021\367  
\005\157\035\375\021\276\320\060\007\302\051\260\011\116\046\334  
\343\242\250\221\152\037\302\221\105\210\134\345\230\270\161\245  
\025\031\311\174\165\021\314\160\164\117\055\233\035\221\104\375  
\126\050\240\376\273\206\152\310\372\134\013\130\334\306\113\166  
\310\253\042\331\163\017\245\364\132\002\211\077\117\236\042\202  
\356\242\164\123\052\075\123\047\151\035\154\216\062\054\144\000  
\046\143\141\066\116\243\106\267\077\175\263\055\254\155\220\242  
\225\242\316\317\332\202\347\007\064\031\226\351\270\041\252\051  
\176\246\070\276\216\051\112\041\146\171\037\263\303\265\011\147  
\336\326\324\007\106\363\052\332\346\042\067\140\313\201\266\017  
\240\017\351\310\225\177\277\125\221\005\172\317\075\025\300\157  
\336\011\224\001\203\327\064\033\314\100\245\360\270\233\147\325  
\230\221\073\247\204\170\225\046\244\132\010\370\053\164\264\000  
\004\074\337\270\024\216\350\337\251\215\154\147\222\063\035\300  
\267\322\354\222\310\276\011\277\054\051\005\157\002\153\236\357  
\274\277\052\274\133\300\120\217\101\160\161\207\262\115\267\004  
\251\204\243\062\257\256\356\153\027\213\262\261\376\154\341\220  
\214\210\250\227\110\316\310\115\313\363\006\317\137\152\012\102  
\261\036\036\167\057\216\240\346\222\016\006\374\005\042\322\046  
\341\061\121\175\062\334\017\002\003\001\000\001\243\043\060\041  
\060\016\006\003\125\035\017\001\001\377\004\004\003\002\001\006  
\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001  
\377\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000  
\003\202\002\001\000\137\064\201\166\357\226\035\325\345\265\331  
\002\143\204\026\301\256\240\160\121\247\367\114\107\065\310\013  
\327\050\075\211\161\331\252\063\101\352\024\033\154\041\000\300  
\154\102\031\176\237\151\133\040\102\337\242\322\332\304\174\227  
\113\215\260\350\254\310\356\245\151\004\231\012\222\246\253\047  
\056\032\115\201\277\204\324\160\036\255\107\376\375\112\235\063  
\340\362\271\304\105\010\041\012\332\151\151\163\162\015\276\064  
\376\224\213\255\303\036\065\327\242\203\357\345\070\307\245\205  
\037\253\317\064\354\077\050\376\014\361\127\206\116\311\125\367  
\034\324\330\245\175\006\172\157\325\337\020\337\201\116\041\145

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\261\266\341\027\171\225\105\006\316\137\314\334\106\211\143\150
\104\215\223\364\144\160\240\075\235\050\005\303\071\160\270\142
\173\040\375\344\333\351\010\241\270\236\075\011\307\117\373\054
\370\223\166\101\336\122\340\341\127\322\235\003\274\167\236\376
\236\051\136\367\301\121\140\037\336\332\013\262\055\165\267\103
\110\223\347\366\171\306\204\135\200\131\140\224\374\170\230\217
\074\223\121\355\100\220\007\337\144\143\044\313\116\161\005\241
\327\224\032\210\062\361\042\164\042\256\245\246\330\022\151\114
\140\243\002\356\053\354\324\143\222\013\136\276\057\166\153\243
\266\046\274\217\003\330\012\362\114\144\106\275\071\142\345\226
\353\064\143\021\050\314\225\361\255\357\357\334\200\130\110\351
\113\270\352\145\254\351\374\200\265\265\310\105\371\254\301\237
\331\271\352\142\210\216\304\361\113\203\022\255\346\213\204\326
\236\302\353\203\030\237\152\273\033\044\140\063\160\314\354\367
\062\363\134\331\171\175\357\236\244\376\311\043\303\044\356\025
\222\261\075\221\117\046\206\275\146\163\044\023\352\244\256\143
\301\255\175\204\003\074\020\170\206\033\171\343\304\363\362\004
\225\040\256\043\202\304\263\072\000\142\277\346\066\044\341\127
\272\307\036\220\165\325\137\077\225\141\053\301\073\315\345\263
\150\141\320\106\046\251\041\122\151\055\353\056\307\353\167\316
\246\072\265\003\063\117\166\321\347\134\124\001\135\313\170\364
\311\014\277\317\022\216\027\055\043\150\224\347\253\376\251\262
\053\006\320\004\315
```

END

CKA\_NSS\_Mozilla\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "TWCA Global Root CA"

# Issuer: CN=TWCA Global Root CA,OU=Root CA,O=TAIWAN-CA,C=TW

# Serial Number: 3262 (0xcbe)

# Subject: CN=TWCA Global Root CA,OU=Root CA,O=TAIWAN-CA,C=TW

# Not Valid Before: Wed Jun 27

06:28:33 2012

# Not Valid After : Tue Dec 31 15:59:59 2030

# Fingerprint (SHA-256):

59:76:90:07:F7:68:5D:0F:CD:50:87:2F:9F:95:D5:75:5A:5B:2B:45:7D:81:F3:69:2B:61:0A:98:67:2F:0E:1B

# Fingerprint (SHA1): 9C:BB:48:53:F6:A4:F6:D3:52:A4:E8:32:52:55:60:13:F5:AD:AF:65

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "TWCA Global Root CA"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

```
\234\273\110\123\366\244\366\323\122\244\350\062\122\125\140\023
\365\255\257\145
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END

```

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\371\003\176\317\346\236\074\163\172\052\220\007\151\377\053\226
END
CKA_ISSUER MULTILINE_OCTAL
\060\121\061\013\060\011\006\003\125\004\006\023\002\124\127\061
\022\060\020\006\003\125\004\012\023\011\124\101\111\127\101\116
\055\103\101\061\020\060\016\006\003\125\004\013\023\007\122\157
\157\164\040\103\101\061\034\060\032\006\003\125\004\003\023\023
\124\127\103\101\040\107\154\157\142\141\154\040\122\157\157\164
\040\103\101
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\002\014\276
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "TeliaSonera Root CA v1"
#
Issuer: CN=TeliaSonera Root CA v1,O=TeliaSonera
Serial Number:00:95:be:16:a0:f7:2e:46:f1:7b:39:82:72:fa:8b:cd:96
Subject: CN=TeliaSonera Root CA v1,O=TeliaSonera
Not Valid Before: Thu Oct 18 12:00:50 2007
Not Valid After : Mon Oct 18 12:00:50 2032
Fingerprint (SHA-256):
DD:69:36:FE:21:F8:F0:77:C1:23:A1:A5:21:C1:22:24:F7:22:55:B7:3E:03:A7:26:06:93:E8:A2:4B:0F:A3:89
Fingerprint (SHA1): 43:13:BB:96:F1:D5:86:9B:C1:4E:6A:92:F6:CF:F6:34:69:87:82:37
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TeliaSonera Root CA v1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE
CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\067\061\024\060\022\006\003\125\004\012\014\013\124\145\154
\151\141\123\157\156\145\162\141\061\037\060\035\006\003\125\004
\003\014\026\124\145\154\151\141\123\157\156\145\162\141\040\122
\157\157\164\040\103\101\040\166\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\067\061\024\060\022\006\003\125\004\012\014\013\124\145\154
\151\141\123\157\156\145\162\141\061\037\060\035\006\003\125\004

```

\003\014\026\124\145\154\151\141\123\157\156\145\162\141\040\122  
\157\157\164\040\103\101\040\166\061

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

\002\021\000\225\276\026\240\367\056\106\361\173\071\202\162\372  
\213\315\226

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\005\070\060\202\003\040\240\003\002\001\002\002\021\000  
\225\276\026\240\367\056\106\361\173\071\202\162\372\213\315\226  
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060  
\067\061\024\060\022\006\003\125\004\012\014\013\124\145\154\151  
\141\123\157\156\145\162\141\061\037\060\035\006\003\125\004\003  
\014\026\124\145\154\151\141\123\157\156\145\162\141\040\122\157  
\157\164\040\103\101\040\166\061\060\036\027\015\060\067\061\060  
\061\070\061\062\060\060\065\060\132\027\015\063\062\061\060\061  
\070\061\062\060\060\065\060\132\060\067\061\024\060\022\006\003  
\125\004\012\014\013\124\145\154\151\141\123\157\156\145\162\141  
\061\037\060\035\006\003\125\004\003\014\026\124\145\154\151\141  
\123\157\156\145\162\141\040\122\157\157\164\040\103\101\040\166  
\061\060\202\002\042\060\015\006\011\052\206\110\206\367\015\001  
\001\001\005\000\003\202\002\017\000\060\202\002\012\002\202\002  
\001\000\302\276\353\047\360\041\243\363\151\046\125\176\235\305  
\125\026\221\134\375\357\041\277\123\200\172\055\322\221\214\143  
\061\360\354\044\360\303\245\322\162\174\020\155\364\067\267\345  
\346\174\171\352\214\265\202\213\256\110\266\254\000\334\145\165  
\354\052\115\137\301\207\365\040\145\053\201\250\107\076\211\043  
\225\060\026\220\177\350\127\007\110\347\031\256\277\105\147\261  
\067\033\006\052\376\336\371\254\175\203\373\136\272\344\217\227  
\147\276\113\216\215\144\007\127\070\125\151\064\066\075\023\110  
\357\117\342\323\146\036\244\317\032\267\136\066\063\324\264\006  
\275\030\001\375\167\204\120\000\105\365\214\135\350\043\274\176  
\376\065\341\355\120\173\251\060\215\031\323\011\216\150\147\135  
\277\074\227\030\123\273\051\142\305\312\136\162\301\307\226\324  
\333\055\240\264\037\151\003\354\352\342\120\361\014\074\360\254  
\363\123\055\360\034\365\355\154\071\071\163\200\026\310\122\260  
\043\315\340\076\334\335\074\107\240\273\065\212\342\230\150\213  
\276\345\277\162\356\322\372\245\355\022\355\374\230\030\251\046  
\166\334\050\113\020\040\034\323\177\026\167\055\355\157\200\367  
\111\273\123\005\273\135\150\307\324\310\165\026\077\211\132\213  
\367\027\107\324\114\361\322\211\171\076\115\075\230\250\141\336  
\072\036\322\370\136\003\340\301\311\034\214\323\215\115\323\225  
\066\263\067\137\143\143\233\063\024\360\055\046\153\123\174\211  
\214\062\302\156\354\075\041\000\071\311\241\150\342\120\203\056  
\260\072\053\363\066\240\254\057\344\157\141\302\121\011\071\076  
\213\123\271\273\147\332\334\123\271\166\131\066\235\103\345\040  
\340\075\062\140\205\042\121\267\307\063\273\335\025\057\244\170  
\246\007\173\201\106\066\004\206\335\171\065\307\225\054\073\260



\243\027\065\345\163\037\264\134\131\357\332\352\020\145\173\172  
\320\177\237\263\264\052\067\073\160\213\233\133\271\053\267\354  
\262\121\022\227\123\051\132\324\360\022\020\334\117\002\273\022  
\222\057\142\324\077\151\103\174\015\326\374\130\165\001\210\235  
\130\026\113\336\272\220\377\107\001\211\006\152\366\137\262\220  
\152\263\002\246\002\210\277\263\107\176\052\331\325\372\150\170  
\065\115\002\003\001\000\001\243\077\060\075\060\017\006\003\125  
\035\023\001\001\377\004\005\060\003\001\001\377\060\013\006\003  
\125\035\017\004\004\003\002\001\006\060\035\006\003\125\035\016  
\004\026\004\024\360\217\131\070\000\263\365\217\232\226\014\325  
\353\372\173\252\027\350\023\022\060\015\006\011\052\206\110\206  
\367\015\001\001\005\005\000\003\202\002\001\000\276\344\134\142  
\116\044\364\014\010\377\360\323\014\150\344\223\111\042\077\104  
\047\157\273\155\336\203\146\316\250\314\015\374\365\232\006\345  
\167\024\221\353\235\101\173\231\052\204\345\377\374\041\301\135  
\360\344\037\127\267\165\251\241\137\002\046\377\327\307\367\116  
\336\117\370\367\034\106\300\172\117\100\054\042\065\360\031\261  
\320\153\147\054\260\250\340\300\100\067\065\366\204\134\134\343  
\257\102\170\376\247\311\015\120\352\015\204\166\366\121\357\203  
\123\306\172\377\016\126\111\056\217\172\326\014\346\047\124\343  
\115\012\140\162\142\315\221\007\326\245\277\310\231\153\355\304  
\031\346\253\114\021\070\305\157\061\342\156\111\310\077\166\200  
\046\003\046\051\340\066\366\366\040\123\343\027\160\064\027\235  
\143\150\036\153\354\303\115\206\270\023\060\057\135\106\015\107  
\103\325\033\252\131\016\271\134\215\006\110\255\164\207\137\307  
\374\061\124\101\023\342\307\041\016\236\340\036\015\341\300\173  
\103\205\220\305\212\130\306\145\012\170\127\362\306\043\017\001  
\331\040\113\336\017\373\222\205\165\052\134\163\215\155\173\045  
\221\312\356\105\256\006\113\000\314\323\261\131\120\332\072\210  
\073\051\103\106\136\227\053\124\316\123\157\215\112\347\226\372  
\277\161\016\102\213\174\375\050\240\320\110\312\332\304\201\114  
\273\242\163\223\046\310\353\014\326\046\210\266\300\044\317\273  
\275\133\353\165\175\351\010\216\206\063\054\171\167\011\151\245  
\211\374\263\160\220\207\166\217\323\042\273\102\316\275\163\013  
\040\046\052\320\233\075\160\036\044\154\315\207\166\251\027\226  
\267\317\015\222\373\216\030\251\230\111\321\236\376\140\104\162  
\041\271\031\355\302\365\061\361\071\110\210\220\044\165\124\026  
\255\316\364\370\151\024\144\071\373\243\270\272\160\100\307\047  
\034\277\304\126\123\372\143\145\320\363\034\016\026\365\153\206  
\130\115\030\324\344\015\216\245\235\133\221\334\166\044\120\077  
\306\052\373\331\267\234\265\326\346\320\331\350\031\213\025\161  
\110\255\267\352\330\131\210\324\220\277\026\263\331\351\254\131  
\141\124\310\034\272\312\301\312\341\271\040\114\217\072\223\211  
\245\240\314\277\323\366\165\244\165\226\155\126

END

CKA\_NSS\_MOZILLA\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "TeliaSonera Root CA v1"

# Issuer: CN=TeliaSonera Root CA v1,O=TeliaSonera

# Serial Number:00:95:be:16:a0:f7:2e:46:f1:7b:39:82:72:fa:8b:cd:96

# Subject: CN=TeliaSonera Root CA v1,O=TeliaSonera

# Not Valid Before: Thu Oct 18 12:00:50 2007

# Not Valid After : Mon Oct 18 12:00:50 2032

# Fingerprint (SHA-256):

DD:69:36:FE:21:F8:F0:77:C1:23:A1:A5:21:C1:22:24:F7:22:55:B7:3E:03:A7:26:06:93:E8:A2:4B:0F:A3:89

# Fingerprint (SHA1): 43:13:BB:96:F1:D5:86:9B:C1:4E:6A:92:F6:CF:F6:34:69:87:82:37

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "TeliaSonera Root CA v1"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

\103\023\273\226\361\325\206\233\301\116\152\222\366\317\366\064  
\151\207\202\067

END

CKA\_CERT\_MD5\_HASH

MULTILINE\_OCTAL

\067\101\111\033\030\126\232\046\365\255\302\146\373\100\245\114  
END

CKA\_ISSUER MULTILINE\_OCTAL

\060\067\061\024\060\022\006\003\125\004\012\014\013\124\145\154  
\151\141\123\157\156\145\162\141\061\037\060\035\006\003\125\004  
\003\014\026\124\145\154\151\141\123\157\156\145\162\141\040\122  
\157\157\164\040\103\101\040\166\061

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

\002\021\000\225\276\026\240\367\056\106\361\173\071\202\162\372  
\213\315\226

END

CKA\_TRUST\_SERVER\_AUTH CK\_TRUST CKT\_NSS\_TRUSTED\_DELEGATOR

CKA\_TRUST\_EMAIL\_PROTECTION CK\_TRUST CKT\_NSS\_TRUSTED\_DELEGATOR

CKA\_TRUST\_CODE\_SIGNING CK\_TRUST CKT\_NSS\_MUST\_VERIFY\_TRUST

CKA\_TRUST\_STEP\_UP\_APPROVED CK\_BBOOL CK\_FALSE

#

# Certificate "E-Tugra Certification Authority"

#

# Issuer: CN=E-Tugra Certification Authority,OU=E-Tugra Sertifikasyon Merkezi,O=E-Tu..ra EBG Bili..im  
Teknolojileri ve Hizmetleri A...,L=Ankara,C=TR

# Serial

Number:6a:68:3e:9c:51:9b:cb:53

# Subject: CN=E-Tugra Certification Authority,OU=E-Tugra Sertifikasyon Merkezi,O=E-Tu..ra EBG Bili..im  
Teknolojileri ve Hizmetleri A...,L=Ankara,C=TR

```
Not Valid Before: Tue Mar 05 12:09:48 2013
Not Valid After : Fri Mar 03 12:09:48 2023
Fingerprint (SHA-256):
B0:BF:D5:2B:B0:D7:D9:BD:92:BF:5D:4D:C1:3D:A2:55:C0:2C:54:2F:37:83:65:EA:89:39:11:F5:5E:55:F2:3C
Fingerprint (SHA1): 51:C6:E7:08:49:06:6E:F3:92:D4:5C:A0:0D:6D:A3:62:8F:C3:52:39
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "E-Tugra Certification Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\262\061\013\060\011\006\003\125\004\006\023\002\124\122
\061\017\060\015\006\003\125\004\007\014\006\101\156\153\141\162
\141\061\100\060\076\006\003\125\004\012\014\067\105\055\124\165
\304\237\162\141\040\105\102\107\040\102\151\154\151\305\237\151
\155\040\124\145\153\156\157\154\157\152\151\154\145\162\151\040
\166\145\040\110\151\172\155\145\164\154\145\162\151\040\101\056
\305\236\056\061\046\060\044\006\003\125\004\013\014\035\105\055
\124\165\147\162\141\040\123\145\162\164\151\146\151\153\141\163
\171\157\156\040\115\145\162\153\145\172\151\061\050\060\046\006
\003\125\004\003\014\037\105\055\124\165\147\162\141\040\103\145
\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150
\157\162\151\164\171
END
CKA_ID
UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\262\061\013\060\011\006\003\125\004\006\023\002\124\122
\061\017\060\015\006\003\125\004\007\014\006\101\156\153\141\162
\141\061\100\060\076\006\003\125\004\012\014\067\105\055\124\165
\304\237\162\141\040\105\102\107\040\102\151\154\151\305\237\151
\155\040\124\145\153\156\157\154\157\152\151\154\145\162\151\040
\166\145\040\110\151\172\155\145\164\154\145\162\151\040\101\056
\305\236\056\061\046\060\044\006\003\125\004\013\014\035\105\055
\124\165\147\162\141\040\123\145\162\164\151\146\151\153\141\163
\171\157\156\040\115\145\162\153\145\172\151\061\050\060\046\006
\003\125\004\003\014\037\105\055\124\165\147\162\141\040\103\145
\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150
\157\162\151\164\171
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\010\152\150\076\234\121\233\313\123
END
CKA_VALUE MULTILINE_OCTAL
\060\202\006\113\060\202\004\063\240\003\002\001\002\002\010\152
\150\076\234\121\233\313\123\060\015\006\011\052\206\110\206\367
```

\015\001\001\013\005\000\060\201\262\061\013\060\011\006\003\125  
\004\006\023\002\124\122\061\017\060\015\006\003\125\004\007\014  
\006\101\156\153\141\162\141\061\100\060\076\006\003\125\004\012  
\014\067\105\055\124\165\304\237\162\141\040\105\102\107\040\102  
\151\154\151\305\237\151\155\040\124\145\153\156\157\154\157\152  
\151\154\145\162\151\040\166\145\040\110\151\172\155\145\164\154  
\145\162\151\040\101\056\305\236\056\061\046\060\044\006\003\125  
\004\013\014\035\105\055\124\165\147\162\141\040\123\145\162\164  
\151\146\151\153\141\163\171\157\156\040\115\145\162\153\145\172  
\151\061\050\060\046\006\003\125\004\003\014\037\105\055\124\165  
\147\162\141\040\103\145\162\164\151\146\151\143\141\164\151\157  
\156\040\101\165\164\150\157\162\151\164\171\060\036\027\015\061  
\063\060\063\060\065\061\062\060\071\064\070\132\027\015\062\063  
\060\063\060\063\061\062\060\071\064\070\132\060\201\262\061\013  
\060\011\006\003\125\004\006\023\002\124\122\061\017\060\015\006  
\003\125\004\007\014\006\101\156\153\141\162\141\061\100\060\076  
\006\003\125\004\012\014\067\105\055\124\165\304\237\162\141\040  
\105\102\107\040\102\151\154\151\305\237\151\155\040\124\145\153  
\156\157\154\157\152\151\154\145\162\151\040\166\145\040\110\151  
\172\155\145\164\154\145\162\151\040\101\056\305\236\056\061\046  
\060\044\006\003\125\004\013\014\035\105\055\124\165\147\162\141  
\040\123\145\162\164\151\146\151\153\141\163\171\157\156\040\115  
\145\162\153\145\172\151\061\050\060\046\006\003\125\004\003\014  
\037\105\055\124\165\147\162\141\040\103\145\162\164\151\146\151  
\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171  
\060\202\002\042\060\015\006\011\052\206\110\206\367\015\001\001  
\001\005\000\003\202\002\017\000\060\202\002\012\002\202\002\001  
\000\342\365\077\223\005\121\036\205\142\124\136\172\013\365\030  
\007\203\256\176\257\174\367\324\212\153\245\143\103\071\271\113  
\367\303\306\144\211\075\224\056\124\200\122\071\071\007\113\113  
\335\205\007\166\207\314\277\057\225\114\314\175\247\075\274\107  
\017\230\160\370\214\205\036\164\216\222\155\033\100\321\231\015  
\273\165\156\310\251\153\232\300\204\061\257\312\103\313\353\053  
\064\350\217\227\153\001\233\325\016\112\010\252\133\222\164\205  
\103\323\200\256\241\210\133\256\263\352\136\313\026\232\167\104  
\310\241\366\124\150\316\336\217\227\053\272\133\100\002\014\144  
\027\300\265\223\315\341\361\023\146\316\014\171\357\321\221\050  
\253\137\240\022\122\060\163\031\216\217\341\214\007\242\303\273  
\112\360\352\037\025\250\356\045\314\244\106\370\033\042\357\263  
\016\103\272\054\044\270\305\054\134\324\034\370\135\144\275\303  
\223\136\050\247\077\047\361\216\036\323\052\120\005\243\125\331  
\313\347\071\123\300\230\236\214\124\142\213\046\260\367\175\215  
\174\344\306\236\146\102\125\202\107\347\262\130\215\146\367\007  
\174\056\066\346\120\034\077\333\103\044\305\277\206\107\171\263  
\171\034\367\132\364\023\354\154\370\077\342\131\037\225\356\102  
\076\271\255\250\062\205\111\227\106\376\113\061\217\132\313\255  
\164\107\037\351\221\267\337\050\004\042\240\324\017\135\342\171  
\117\352\154\205\206\275\250\246\316\344\372\303\341\263\256\336

\074\121\356\313\023\174\001\177\204\016\135\121\224\236\023\014  
\266\056\245\114\371\071\160\066\157\226\312\056\014\104\125\305  
\312\372\135\002\243\337\326\144\214\132\263\001\012\251\265\012  
\107\027\377\357\221\100\052\216\241\106\072\061\230\345\021\374  
\314\273\111\126\212\374\271\320\141\232\157\145\154\346\303\313  
\076\165\111\376\217\247\342\211\305\147\327\235\106\023\116\061  
\166\073\044\263\236\021\145\206\253\177\357\035\324\370\274\347  
\254\132\134\267\132\107\134\125\316\125\264\042\161\133\133\013  
\360\317\334\240\141\144\352\251\327\150\012\143\247\340\015\077  
\240\257\323\252\322\176\357\121\240\346\121\053\125\222\025\027  
\123\313\267\146\016\146\114\370\371\165\114\220\347\022\160\307  
\105\002\003\001\000\001\243\143\060\141\060\035\006\003\125\035  
\016\004\026\004\024\056\343\333\262\111\320\234\124\171\134\372  
\047\052\376\314\116\322\350\116\124\060\017\006\003\125\035\023  
\001\001\377\004\005\060\003\001\001\377\060\037\006\003\125\035  
\043\004\030\060\026\200\024\056\343\333\262\111\320\234\124\171  
\134\372\047\052\376\314\116\322\350\116\124\060\016\006\003\125  
\035\017\001\001\377\004\004\003\002\001\006\060\015\006\011\052  
\206\110\206\367\015\001\001\013\005\000\003\202\002\001\000\005  
\067\072\364\115\267\105\342\105\165\044\217\266\167\122\350\034  
\330\020\223\145\363\362\131\006\244\076\036\051\354\135\321\320  
\253\174\340\012\220\110\170\355\116\230\003\231\376\050\140\221  
\035\060\035\270\143\174\250\346\065\265\372\323\141\166\346\326  
\007\113\312\151\232\262\204\172\167\223\105\027\025\237\044\320  
\230\023\022\377\273\240\056\375\116\114\207\370\316\134\252\230  
\033\005\340\000\106\112\202\200\245\063\213\050\334\355\070\323  
\337\345\076\351\376\373\131\335\141\204\117\322\124\226\023\141  
\023\076\217\200\151\276\223\107\265\065\103\322\132\273\075\134  
\357\263\102\107\315\073\125\023\006\260\011\333\375\143\366\072  
\210\012\231\157\176\341\316\033\123\152\104\146\043\121\010\173  
\274\133\122\242\375\006\067\070\100\141\217\112\226\270\220\067  
\370\146\307\170\220\000\025\056\213\255\121\065\123\007\250\153  
\150\256\371\116\074\007\046\315\010\005\160\314\071\077\166\275  
\245\323\147\046\001\206\246\123\322\140\073\174\103\177\125\212  
\274\225\032\301\050\071\114\037\103\322\221\364\162\131\212\271  
\126\374\077\264\235\332\160\234\166\132\214\103\120\356\216\060  
\162\115\337\377\111\367\306\251\147\331\155\254\002\021\342\072  
\026\045\247\130\010\313\157\123\101\234\110\070\107\150\063\321  
\327\307\217\324\164\041\324\303\005\220\172\377\316\226\210\261  
\025\051\135\043\253\320\140\241\022\117\336\364\027\315\062\345  
\311\277\310\103\255\375\056\216\361\257\342\364\230\372\022\037  
\040\330\300\247\014\205\305\220\364\073\055\226\046\261\054\276  
\114\253\353\261\322\212\311\333\170\023\017\036\011\235\155\217  
\000\237\002\332\301\372\037\172\172\011\304\112\346\210\052\227  
\237\211\213\375\067\137\137\072\316\070\131\206\113\257\161\013  
\264\330\362\160\117\237\062\023\343\260\247\127\345\332\332\103  
\313\204\064\362\050\304\352\155\364\052\357\301\153\166\332\373  
\176\273\205\074\322\123\302\115\276\161\341\105\321\375\043\147

```
\015\023\165\373\317\145\147\042\235\256\260\011\321\011\377\035
\064\277\376\043\227\067\322\071\372\075\015\006\013\264\333\073
\243\253\157\134\035\266\176\350\263\202\064\355\006\134\044
END
```

```
CKA_NSS_MOZILLA_CA_POLICY
```

```
CK_BBOOL CK_TRUE
```

```
CKA_NSS_SERVER_DISTRUST_AFTER
```

```
CK_BBOOL CK_FALSE
```

```
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
```

```
Trust for "E-Tugra Certification Authority"
```

```
Issuer: CN=E-Tugra Certification Authority,OU=E-Tugra Sertifikasyon Merkezi,O=E-Tu..ra EBG Bili..im
Teknolojileri ve Hizmetleri A...,L=Ankara,C=TR
```

```
Serial Number:6a:68:3e:9c:51:9b:cb:53
```

```
Subject: CN=E-Tugra Certification Authority,OU=E-Tugra Sertifikasyon Merkezi,O=E-Tu..ra EBG Bili..im
Teknolojileri ve Hizmetleri A...,L=Ankara,C=TR
```

```
Not Valid Before: Tue Mar 05 12:09:48 2013
```

```
Not Valid After : Fri Mar 03 12:09:48 2023
```

```
Fingerprint (SHA-256):
```

```
B0:BF:D5:2B:B0:D7:D9:BD:92:BF:5D:4D:C1:3D:A2:55:C0:2C:54:2F:37:83:65:EA:89:39:11:F5:5E:55:F2:3C
```

```
Fingerprint (SHA1): 51:C6:E7:08:49:06:6E:F3:92:D4:5C:A0:0D:6D:A3:62:8F:C3:52:39
```

```
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
```

```
CKA_TOKEN CK_BBOOL CK_TRUE
```

```
CKA_PRIVATE CK_BBOOL CK_FALSE
```

```
CKA_MODIFIABLE CK_BBOOL CK_FALSE
```

```
CKA_LABEL UTF8 "E-Tugra Certification Authority"
```

```
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
```

```
\121\306\347\010\111\006\156\363\222\324\134\240\015\155\243\142
\217\303\122\071
```

```
END
```

```
CKA_CERT_MD5_HASH
```

```
MULTILINE_OCTAL
```

```
\270\241\003\143\260\275\041\161\160\212\157\023\072\273\171\111
```

```
END
```

```
CKA_ISSUER MULTILINE_OCTAL
```

```
\060\201\262\061\013\060\011\006\003\125\004\006\023\002\124\122
\061\017\060\015\006\003\125\004\007\014\006\101\156\153\141\162
\141\061\100\060\076\006\003\125\004\012\014\067\105\055\124\165
\304\237\162\141\040\105\102\107\040\102\151\154\151\305\237\151
\155\040\124\145\153\156\157\154\157\152\151\154\145\162\151\040
\166\145\040\110\151\172\155\145\164\154\145\162\151\040\101\056
\305\236\056\061\046\060\044\006\003\125\004\013\014\035\105\055
\124\165\147\162\141\040\123\145\162\164\151\146\151\153\141\163
\171\157\156\040\115\145\162\153\145\172\151\061\050\060\046\006
\003\125\004\003\014\037\105\055\124\165\147\162\141\040\103\145
\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150
\157\162\151\164\171
```

```
END
```

```

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\152\150\076\234\121\233\313\123
END
CKA_TRUST_SERVER_AUTH
CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "T-TeleSec GlobalRoot Class 2"
#
Issuer: CN=T-TeleSec GlobalRoot Class 2,OU=T-Systems Trust Center,O=T-Systems Enterprise Services
GmbH,C=DE
Serial Number: 1 (0x1)
Subject: CN=T-TeleSec GlobalRoot Class 2,OU=T-Systems Trust Center,O=T-Systems Enterprise Services
GmbH,C=DE
Not Valid Before: Wed Oct 01 10:40:14 2008
Not Valid After : Sat Oct 01 23:59:59 2033
Fingerprint (SHA-256):
91:E2:F5:78:8D:58:10:EB:A7:BA:58:73:7D:E1:54:8A:8E:CA:CD:01:45:98:BC:0B:14:3E:04:1B:17:05:25:52
Fingerprint (SHA1): 59:0D:2D:7D:88:4F:40:2E:61:7E:A5:62:32:17:65:CF:17:D8:94:E9
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "T-TeleSec GlobalRoot Class 2"
CKA_CERTIFICATE_TYPE
CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\202\061\013\060\011\006\003\125\004\006\023\002\104\105
\061\053\060\051\006\003\125\004\012\014\042\124\055\123\171\163
\164\145\155\163\040\105\156\164\145\162\160\162\151\163\145\040
\123\145\162\166\151\143\145\163\040\107\155\142\110\061\037\060
\035\006\003\125\004\013\014\026\124\055\123\171\163\164\145\155
\163\040\124\162\165\163\164\040\103\145\156\164\145\162\061\045
\060\043\006\003\125\004\003\014\034\124\055\124\145\154\145\123
\145\143\040\107\154\157\142\141\154\122\157\157\164\040\103\154
\141\163\163\040\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\202\061\013\060\011\006\003\125\004\006\023\002\104\105
\061\053\060\051\006\003\125\004\012\014\042\124\055\123\171\163
\164\145\155\163\040\105\156\164\145\162\160\162\151\163\145\040
\123\145\162\166\151\143\145\163\040\107\155\142\110\061\037\060
\035\006\003\125\004\013\014\026\124\055\123\171\163\164\145\155
\163\040\124\162\165\163\164\040\103\145\156\164\145\162\061\045

```

\060\043\006\003\125\004\003\014\034\124\055\124\145\154\145\123  
\145\143\040\107\154\157\142\141\154\122\157\157\164\040\103\154  
\141\163\163\040\062

END

CKA\_SERIAL\_NUMBER

MULTILINE\_OCTAL

\002\001\001

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\003\303\060\202\002\253\240\003\002\001\002\002\001\001  
\060\015\006\011\052\206\110\206\367\015\001\001\001\013\005\000\060  
\201\202\061\013\060\011\006\003\125\004\006\023\002\104\105\061  
\053\060\051\006\003\125\004\012\014\042\124\055\123\171\163\164  
\145\155\163\040\105\156\164\145\162\160\162\151\163\145\040\123  
\145\162\166\151\143\145\163\040\107\155\142\110\061\037\060\035  
\006\003\125\004\013\014\026\124\055\123\171\163\164\145\155\163  
\040\124\162\165\163\164\040\103\145\156\164\145\162\061\045\060  
\043\006\003\125\004\003\014\034\124\055\124\145\154\145\123\145  
\143\040\107\154\157\142\141\154\122\157\157\164\040\103\154\141  
\163\163\040\062\060\036\027\015\060\070\061\060\060\061\061\060  
\064\060\061\064\132\027\015\063\063\061\060\060\061\062\063\065  
\071\065\071\132\060\201\202\061\013\060\011\006\003\125\004\006  
\023\002\104\105\061\053\060\051\006\003\125\004\012\014\042\124  
\055\123\171\163\164\145\155\163\040\105\156\164\145\162\160\162  
\151\163\145\040\123\145\162\166\151\143\145\163\040\107\155\142  
\110\061\037\060\035\006\003\125\004\013\014\026\124\055\123\171  
\163\164\145\155\163\040\124\162\165\163\164\040\103\145\156\164  
\145\162\061\045\060\043\006\003\125\004\003\014\034\124\055\124  
\145\154\145\123\145\143\040\107\154\157\142\141\154\122\157\157  
\164\040\103\154\141\163\163\040\062\060\202\001\042\060\015\006  
\011\052\206\110\206\367\015\001\001\001\005\000\003\202\001\017  
\000\060\202\001\012\002\202\001\001\000\252\137\332\033\137\350  
\163\221\345\332\134\364\242\346\107\345\363\150\125\140\005\035  
\002\244\263\233\131\363\036\212\257\064\255\374\015\302\331\110  
\031\356\151\217\311\040\374\041\252\007\031\355\260\134\254\145  
\307\137\355\002\174\173\174\055\033\326\272\271\200\302\030\202  
\026\204\372\146\260\010\306\124\043\201\344\315\271\111\077\366  
\117\156\067\110\050\070\017\305\276\347\150\160\375\071\227\115  
\322\307\230\221\120\252\304\104\263\043\175\071\107\351\122\142  
\326\022\223\136\267\061\226\102\005\373\166\247\036\243\365\302  
\374\351\172\305\154\251\161\117\352\313\170\274\140\257\307\336  
\364\331\313\276\176\063\245\156\224\203\360\064\372\041\253\352  
\216\162\240\077\244\336\060\133\357\206\115\152\225\133\103\104  
\250\020\025\034\345\001\127\305\230\361\346\006\050\221\252\040  
\305\267\123\046\121\103\262\013\021\225\130\341\300\017\166\331  
\300\215\174\201\363\162\160\236\157\376\032\216\331\137\065\306  
\262\157\064\174\276\110\117\342\132\071\327\330\235\170\236\237  
\206\076\003\136\031\213\104\242\325\307\002\003\001\000\001\243



```
\102\060\100\060\017\006\003\125\035\023\001\001\377\004\005\060
\003\001\001\377\060\016\006\003\125\035\017\001\001\377\004\004
\003\002\001\006\060\035\006\003\125\035\016\004\026\004\024\277
\131\040\066\000\171\240\240\042\153\214\325\362\141\322\270\054
\313\202\112\060\015\006\011\052\206\110\206\367\015\001\001\013
\005\000\003\202\001\001\000\061\003\242\141\013\037\164\350\162
\066\306\155\371\115\236\372\042\250\341\201\126\317\315\273\237
\352\253\221\031\070\257\252\174\025\115\363\266\243\215\245\364
\216\366\104\251\247\350\041\225\255\076\000\142\026\210\360\002
\272\374\141\043\346\063\233\060\172\153\066\142\173\255\004\043
\204\130\145\342\333\053\212\347\045\123\067\142\123\137\274\332
\001\142\051\242\246\047\161\346\072\042\176\301\157\035\225\160
\040\112\007\064\337\352\377\025\200\345\272\327\172\330\133\165
\174\005\172\051\107\176\100\250\061\023\167\315\100\073\264\121
\107\172\056\021\343\107\021\336\235\146\320\213\325\124\146\372
\203\125\352\174\302\051\211\033\351\157\263\316\342\005\204\311
\057\076\170\205\142\156\311\137\301\170\143\164\130\300\110\030
\014\231\071\353\244\314\032\265\171\132\215\025\234\330\024\015
\366\172\007\127\307\042\203\005\055\074\233\045\046\075\030\263
\251\103\174\310\310\253\144\217\016\243\277\234\033\235\060\333
\332\320\031\056\252\074\361\373\063\200\166\344\315\255\031\117
\005\047\216\023\241\156\302
```

END

CKA\_NSS\_MOZILLA\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "T-TeleSec GlobalRoot Class 2"

# Issuer: CN=T-TeleSec GlobalRoot Class 2,OU=T-Systems Trust Center,O=T-Systems Enterprise Services GmbH,C=DE

# Serial Number: 1 (0x1)

# Subject: CN=T-TeleSec GlobalRoot Class 2,OU=T-Systems Trust Center,O=T-Systems Enterprise Services GmbH,C=DE

# Not Valid Before: Wed Oct 01 10:40:14 2008

# Not Valid After : Sat Oct 01 23:59:59 2033

# Fingerprint (SHA-256):

91:E2:F5:78:8D:58:10:EB:A7:BA:58:73:7D:E1:54:8A:8E:CA:CD:01:45:98:BC:0B:14:3E:04:1B:17:05:25:52

# Fingerprint (SHA1): 59:0D:2D:7D:88:4F:40:2E:61:7E:A5:62:32:17:65:CF:17:D8:94:E9

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE

CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "T-TeleSec GlobalRoot Class 2"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

```
\131\015\055\175\210\117\100\056\141\176\245\142\062\027\145\317
\027\330\224\351
```

```

END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\053\233\236\344\173\154\037\000\162\032\314\301\167\171\337\152
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\202\061\013\060\011\006\003\125\004\006\023\002\104\105
\061\053\060\051\006\003\125\004\012\014\042\124\055\123\171\163
\164\145\155\163\040\105\156\164\145\162\160\162\151\163\145\040
\123\145\162\166\151\143\145\163\040\107\155\142\110\061\037\060
\035\006\003\125\004\013\014\026\124\055\123\171\163\164\145\155
\163\040\124\162\165\163\164\040\103\145\156\164\145\162\061\045
\060\043\006\003\125\004\003\014\034\124\055\124\145\154\145\123
\145\143\040\107\154\157\142\141\154\122\157\157\164\040\103\154
\141\163\163\040\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION
CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Atos TrustedRoot 2011"
#
Issuer: C=DE,O=Atos,CN=Atos TrustedRoot 2011
Serial Number:5c:33:cb:62:2c:5f:b3:32
Subject: C=DE,O=Atos,CN=Atos TrustedRoot 2011
Not Valid Before: Thu Jul 07 14:58:30 2011
Not Valid After : Tue Dec 31 23:59:59 2030
Fingerprint (SHA-256):
F3:56:BE:A2:44:B7:A9:1E:B3:5D:53:CA:9A:D7:86:4A:CE:01:8E:2D:35:D5:F8:F9:6D:DF:68:A6:F4:1A:A4:74
Fingerprint (SHA1): 2B:B1:F5:3E:55:0C:1D:C5:F1:D4:E6:B7:6A:46:4B:55:06:02:AC:21
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Atos TrustedRoot 2011"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\074\061\036\060\034\006\003\125\004\003\014\025\101\164\157
\163\040\124\162\165\163\164\145\144\122\157\157\164\040\062\060
\061\061\061\015\060\013\006\003\125\004\012\014\004\101\164\157
\163\061\013\060\011\006\003\125\004\006\023\002\104\105
END
CKA_ID

```

UTF8 "0"

CKA\_ISSUER MULTILINE\_OCTAL

\060\074\061\036\060\034\006\003\125\004\003\014\025\101\164\157  
\163\040\124\162\165\163\164\145\144\122\157\157\164\040\062\060  
\061\061\061\015\060\013\006\003\125\004\012\014\004\101\164\157  
\163\061\013\060\011\006\003\125\004\006\023\002\104\105

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

\002\010\134\063\313\142\054\137\263\062

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\003\167\060\202\002\137\240\003\002\001\002\002\010\134  
\063\313\142\054\137\263\062\060\015\006\011\052\206\110\206\367  
\015\001\001\013\005\000\060\074\061\036\060\034\006\003\125\004  
\003\014\025\101\164\157\163\040\124\162\165\163\164\145\144\122  
\157\157\164\040\062\060\061\061\061\015\060\013\006\003\125\004  
\012\014\004\101\164\157\163\061\013\060\011\006\003\125\004\006  
\023\002\104\105\060\036\027\015\061\061\060\067\060\067\061\064  
\065\070\063\060\132\027\015\063\060\061\062\063\061\062\063\065  
\071\065\071\132\060\074\061\036\060\034\006\003\125\004\003\014  
\025\101\164\157\163\040\124\162\165\163\164\145\144\122\157\157  
\164\040\062\060\061\061\061\015\060\013\006\003\125\004\012\014  
\004\101\164\157\163\061\013\060\011\006\003\125\004\006\023\002  
\104\105\060\202\001\042\060\015\006\011\052\206\110\206\367\015  
\001\001\001\005\000\003\202\001\017\000\060\202\001\012\002\202  
\001\001\000\225\205\073\227\157\052\073\056\073\317\246\363\051  
\065\276\317\030\254\076\252\331\370\115\240\076\032\107\271\274  
\232\337\362\376\314\076\107\350\172\226\302\044\216\065\364\251  
\014\374\202\375\155\301\162\142\047\275\352\153\353\347\212\314  
\124\076\220\120\317\200\324\225\373\350\265\202\324\024\305\266  
\251\125\045\127\333\261\120\366\260\140\144\131\172\151\317\003  
\267\157\015\276\312\076\157\164\162\352\252\060\052\163\142\276  
\111\221\141\310\021\376\016\003\052\367\152\040\334\002\025\015  
\136\025\152\374\343\202\301\265\305\235\144\011\154\243\131\230  
\007\047\307\033\226\053\141\164\161\154\103\361\367\065\211\020  
\340\236\354\125\241\067\042\242\207\004\005\054\107\175\264\034  
\271\142\051\146\050\312\267\341\223\365\244\224\003\231\271\160  
\205\265\346\110\352\215\120\374\331\336\314\157\007\016\335\013  
\162\235\200\060\026\007\225\077\050\016\375\305\165\117\123\326  
\164\232\264\044\056\216\002\221\317\166\305\233\036\125\164\234  
\170\041\261\360\055\361\013\237\302\325\226\030\037\360\124\042  
\172\214\007\002\003\001\000\001\243\175\060\173\060\035\006\003  
\125\035\016\004\026\004\024\247\245\006\261\054\246\011\140\356  
\321\227\351\160\256\274\073\031\154\333\041\060\017\006\003\125  
\035\023\001\001\377\004\005\060\003\001\001\377\060\037\006\003  
\125\035\043\004\030\060\026\200\024\247\245\006\261\054\246\011  
\140\356\321\227\351\160\256\274\073\031\154\333\041\060\030\006  
\003\125\035\040\004\021\060\017\060\015\006\013\053\006\001\004

```
\001\260\055\003\004\001\001\060\016\006\003\125\035\017\001\001
\377\004\004\003\002\001\206\060\015\006\011\052\206\110\206\367
\015\001\001\013\005\000\003\202\001\001\000\046\167\064\333\224
\110\206\052\101\235\054\076\006\220\140\304\214\254\013\124\270
\037\271\173\323\007\071\344\372\076\173\262\075\116\355\237\043
\275\227\363\153\134\357\356\375\100\246\337\241\223\241\012\206
\254\357\040\320\171\001\275\170\367\031\330\044\061\064\004\001
\246\272\025\232\303\047\334\330\117\017\314\030\143\377\231\017
\016\221\153\165\026\341\041\374\330\046\307\107\267\246\317\130
\162\161\176\272\341\115\225\107\073\311\257\155\241\264\301\354
\211\366\264\017\070\265\342\144\334\045\317\246\333\353\232\134
\231\241\305\010\336\375\346\332\325\326\132\105\014\304\267\302
\265\024\357\264\021\377\016\025\265\365\365\333\306\275\353\132
\247\360\126\042\251\074\145\124\306\025\250\275\206\236\315\203
\226\150\172\161\201\211\341\013\341\352\021\033\150\010\314\151
\236\354\236\101\236\104\062\046\172\342\207\012\161\075\353\344
\132\244\322\333\305\315\306\336\140\177\271\363\117\104\222\357
\052\267\030\076\247\031\331\013\175\261\067\101\102\260\272\140
\035\362\376\011\021\260\360\207\173\247\235
```

END

CKA\_NSS\_MOZILLA\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "Atos TrustedRoot 2011"

# Issuer: C=DE,O=Atos,CN=Atos TrustedRoot 2011

# Serial Number:5c:33:cb:62:2c:5f:b3:32

# Subject: C=DE,O=Atos,CN=Atos TrustedRoot 2011

# Not Valid Before: Thu Jul 07 14:58:30 2011

# Not Valid After : Tue Dec 31 23:59:59 2030

# Fingerprint (SHA-256):

F3:56:BE:A2:44:B7:A9:1E:B3:5D:53:CA:9A:D7:86:4A:CE:01:8E:2D:35:D5:F8:F9:6D:DF:68:A6:F4:1A:A4:74

# Fingerprint (SHA1): 2B:B1:F5:3E:55:0C:1D:C5:F1:D4:E6:B7:6A:46:4B:55:06:02:AC:21

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "Atos TrustedRoot 2011"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

```
\053\261\365\076\125\014\035\305\361\324\346\267\152\106\113\125
\006\002\254\041
```

END

CKA\_CERT\_MD5\_HASH

MULTILINE\_OCTAL

```
\256\271\304\062\113\254\177\135\146\314\167\224\273\052\167\126
```

END

CKA\_ISSUER MULTILINE\_OCTAL

```
\060\074\061\036\060\034\006\003\125\004\003\014\025\101\164\157
\163\040\124\162\165\163\164\145\144\122\157\157\164\040\062\060
\061\061\061\015\060\013\006\003\125\004\012\014\004\101\164\157
\163\061\013\060\011\006\003\125\004\006\023\002\104\105
```

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

```
\002\010\134\063\313\142\054\137\263\062
```

END

CKA\_TRUST\_SERVER\_AUTH CK\_TRUST CKT\_NSS\_TRUSTED\_DELEGATOR

CKA\_TRUST\_EMAIL\_PROTECTION CK\_TRUST CKT\_NSS\_TRUSTED\_DELEGATOR

CKA\_TRUST\_CODE\_SIGNING CK\_TRUST CKT\_NSS\_MUST\_VERIFY\_TRUST

CKA\_TRUST\_STEP\_UP\_APPROVED CK\_BBOOL CK\_FALSE

#

# Certificate "QuoVadis Root CA 1 G3"

#

# Issuer: CN=QuoVadis Root CA 1 G3,O=QuoVadis Limited,C=BM

# Serial Number:78:58:5f:2e:ad:2c:19:4b:e3:37:07:35:34:13:28:b5:96:d4:65:93

# Subject: CN=QuoVadis Root CA 1 G3,O=QuoVadis Limited,C=BM

#

Not Valid Before: Thu Jan 12 17:27:44 2012

# Not Valid After : Sun Jan 12 17:27:44 2042

# Fingerprint (SHA-256):

8A:86:6F:D1:B2:76:B5:7E:57:8E:92:1C:65:82:8A:2B:ED:58:E9:F2:F2:88:05:41:34:B7:F1:F4:BF:C9:CC:74

# Fingerprint (SHA1): 1B:8E:EA:57:96:29:1A:C9:39:EA:B8:0A:81:1A:73:73:C0:93:79:67

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_CERTIFICATE

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "QuoVadis Root CA 1 G3"

CKA\_CERTIFICATE\_TYPE CK\_CERTIFICATE\_TYPE CKC\_X\_509

CKA\_SUBJECT MULTILINE\_OCTAL

```
\060\110\061\013\060\011\006\003\125\004\006\023\002\102\115\061
```

```
\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144
```

```
\151\163\040\114\151\155\151\164\145\144\061\036\060\034\006\003
```

```
\125\004\003\023\025\121\165\157\126\141\144\151\163\040\122\157
```

```
\157\164\040\103\101\040\061\040\107\063
```

END

CKA\_ID UTF8 "0"

CKA\_ISSUER MULTILINE\_OCTAL

```
\060\110\061\013\060\011\006\003\125\004\006\023\002\102\115\061
```

```
\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144
```

```
\151\163\040\114\151\155\151\164\145\144\061\036\060\034\006\003
```

```
\125\004\003\023\025\121\165\157\126\141\144\151\163\040\122\157
```

```
\157\164\040\103\101\040\061\040\107\063
```

END

CKA\_SERIAL\_NUMBER

MULTILINE\_OCTAL

\002\024\170\130\137\056\255\054\031\113\343\067\007\065\064\023  
\050\265\226\324\145\223

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\005\140\060\202\003\110\240\003\002\001\002\002\024\170  
\130\137\056\255\054\031\113\343\067\007\065\064\023\050\265\226  
\324\145\223\060\015\006\011\052\206\110\206\367\015\001\001\013  
\005\000\060\110\061\013\060\011\006\003\125\004\006\023\002\102  
\115\061\031\060\027\006\003\125\004\012\023\020\121\165\157\126  
\141\144\151\163\040\114\151\155\151\164\145\144\061\036\060\034  
\006\003\125\004\003\023\025\121\165\157\126\141\144\151\163\040  
\122\157\157\164\040\103\101\040\061\040\107\063\060\036\027\015  
\061\062\060\061\061\062\061\067\062\067\064\064\132\027\015\064  
\062\060\061\061\062\061\067\062\067\064\064\132\060\110\061\013  
\060\011\006\003\125\004\006\023\002\102\115\061\031\060\027\006  
\003\125\004\012\023\020\121\165\157\126\141\144\151\163\040\114  
\151\155\151\164\145\144\061\036\060\034\006\003\125\004\003\023  
\025\121\165\157\126\141\144\151\163\040\122\157\157\164\040\103  
\101\040\061\040\107\063\060\202\002\042\060\015\006\011\052\206  
\110\206\367\015\001\001\001\005\000\003\202\002\017\000\060\202  
\002\012\002\202\002\001\000\240\276\120\020\216\351\362\154\100  
\264\004\234\205\271\061\312\334\055\344\021\251\004\074\033\125  
\301\347\130\060\035\044\264\303\357\205\336\214\054\341\301\075  
\337\202\346\117\255\107\207\154\354\133\111\301\112\325\273\217  
\354\207\254\177\202\232\206\354\075\003\231\122\001\322\065\236  
\254\332\360\123\311\146\074\324\254\002\001\332\044\323\073\250  
\002\106\257\244\034\343\370\163\130\166\267\366\016\220\015\265  
\360\317\314\372\371\306\114\345\303\206\060\012\215\027\176\065  
\353\305\337\273\016\234\300\215\207\343\210\070\205\147\372\076  
\307\253\340\023\234\005\030\230\317\223\365\261\222\264\374\043  
\323\317\325\304\047\111\340\236\074\233\010\243\213\135\052\041  
\340\374\071\252\123\332\175\176\317\032\011\123\274\135\005\004  
\317\241\112\217\213\166\202\015\241\370\322\307\024\167\133\220  
\066\007\201\233\076\006\372\122\136\143\305\246\000\376\245\351  
\122\033\122\265\222\071\162\003\011\142\275\260\140\026\156\246  
\335\045\302\003\146\335\363\004\321\100\342\116\213\206\364\157  
\345\203\240\047\204\136\004\301\365\220\275\060\075\304\357\250  
\151\274\070\233\244\244\226\321\142\332\151\300\001\226\256\313  
\304\121\064\352\014\252\377\041\216\131\217\112\134\344\141\232  
\247\322\351\052\170\215\121\075\072\025\356\242\131\216\251\134  
\336\305\371\220\042\345\210\105\161\335\221\231\154\172\237\075  
\075\230\174\136\366\276\026\150\240\136\256\013\043\374\132\017  
\252\042\166\055\311\241\020\035\344\323\104\043\220\210\237\306  
\052\346\327\365\232\263\130\036\057\060\211\010\033\124\242\265  
\230\043\354\010\167\034\225\135\141\321\313\211\234\137\242\112  
\221\232\357\041\252\111\026\010\250\275\141\050\061\311\164\255  
\205\366\331\305\261\213\321\345\020\062\115\137\213\040\072\074

\111\037\063\205\131\015\333\313\011\165\103\151\163\373\153\161  
\175\360\337\304\114\175\306\243\056\310\225\171\313\163\242\216  
\116\115\044\373\136\344\004\276\162\033\246\047\055\111\132\231  
\172\327\134\011\040\267\177\224\271\117\361\015\034\136\210\102  
\033\021\267\347\221\333\236\154\364\152\337\214\006\230\003\255  
\314\050\357\245\107\363\123\002\003\001\000\001\243\102\060\100  
\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001  
\377\060\016\006\003\125\035\017\001\001\377\004\004\003\002\001  
\006\060\035\006\003\125\035\016\004\026\004\024\243\227\326\363  
\136\242\020\341\253\105\237\074\027\144\074\356\001\160\234\314  
\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\003  
\202\002\001\000\030\372\133\165\374\076\172\307\137\167\307\312  
\337\317\137\303\022\304\100\135\324\062\252\270\152\327\325\025  
\025\106\230\043\245\346\220\133\030\231\114\343\255\102\243\202  
\061\066\210\315\351\373\304\004\226\110\213\001\307\215\001\317  
\133\063\006\226\106\146\164\035\117\355\301\266\271\264\015\141  
\314\143\176\327\056\167\214\226\034\052\043\150\153\205\127\166  
\160\063\023\376\341\117\246\043\167\030\372\032\214\350\275\145  
\311\317\077\364\311\027\334\353\307\274\300\004\056\055\106\057  
\151\146\303\033\217\376\354\076\323\312\224\277\166\012\045\015  
\251\173\002\034\251\320\073\137\013\300\201\072\075\144\341\277  
\247\055\116\275\115\304\330\051\306\042\030\320\305\254\162\002  
\202\077\252\072\242\072\042\227\061\335\010\143\303\165\024\271  
\140\050\055\133\150\340\026\251\146\202\043\121\365\353\123\330  
\061\233\173\351\267\235\113\353\210\026\317\371\135\070\212\111  
\060\217\355\361\353\031\364\167\032\061\030\115\147\124\154\057  
\157\145\371\333\075\354\041\354\136\364\364\213\312\140\145\124  
\321\161\144\364\371\246\243\201\063\066\063\161\360\244\170\137  
\116\255\203\041\336\064\111\215\350\131\254\235\362\166\132\066  
\362\023\364\257\340\011\307\141\052\154\367\340\235\256\273\206  
\112\050\157\056\356\264\171\315\220\063\303\263\166\372\365\360  
\154\235\001\220\372\236\220\366\234\162\317\107\332\303\037\344  
\065\040\123\362\124\321\337\141\203\246\002\342\045\070\336\205  
\062\055\136\163\220\122\135\102\304\316\075\113\341\371\031\204  
\035\325\242\120\314\101\373\101\024\303\275\326\311\132\243\143  
\146\002\200\275\005\072\073\107\234\354\000\046\114\365\210\121  
\277\250\043\177\030\007\260\013\355\213\046\241\144\323\141\112  
\353\134\237\336\263\257\147\003\263\037\335\155\135\151\150\151  
\253\136\072\354\174\151\274\307\073\205\116\236\025\271\264\025  
\117\303\225\172\130\327\311\154\351\154\271\363\051\143\136\264  
\054\360\055\075\355\132\145\340\251\133\100\302\110\231\201\155  
\236\037\006\052\074\022\264\213\017\233\242\044\360\246\215\326  
\172\340\113\266\144\226\143\225\204\302\112\315\034\056\044\207  
\063\140\345\303

END

CKA\_NSS\_MOZILLA\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRUST\_AFTER

```

CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "QuoVadis Root CA 1 G3"
Issuer: CN=QuoVadis Root CA 1 G3,O=QuoVadis Limited,C=BM
Serial Number:78:58:5f:2e:ad:2c:19:4b:e3:37:07:35:34:13:28:b5:96:d4:65:93
Subject: CN=QuoVadis Root CA 1 G3,O=QuoVadis Limited,C=BM
Not Valid Before: Thu Jan 12 17:27:44 2012
Not Valid After : Sun Jan 12 17:27:44 2042
Fingerprint (SHA-256):
8A:86:6F:D1:B2:76:B5:7E:57:8E:92:1C:65:82:8A:2B:ED:58:E9:F2:F2:88:05:41:34:B7:F1:F4:BF:C9:CC:74
Fingerprint (SHA1): 1B:8E:EA:57:96:29:1A:C9:39:EA:B8:0A:81:1A:73:73:C0:93:79:67
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "QuoVadis Root CA 1 G3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\033\216\352\127\226\051\032\311\071\352\270\012\201\032\163\163
\300\223\171\147
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\244\274\133\077\376\067\232\372\144\360\342\372\005\075\013\253
END
CKA_ISSUER
MULTILINE_OCTAL
\060\110\061\013\060\011\006\003\125\004\006\023\002\102\115\061
\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144
\151\163\040\114\151\155\151\164\145\144\061\036\060\034\006\003
\125\004\003\023\025\121\165\157\126\141\144\151\163\040\122\157
\157\164\040\103\101\040\061\040\107\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\170\130\137\056\255\054\031\113\343\067\007\065\064\023
\050\265\226\324\145\223
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "QuoVadis Root CA 2 G3"
#
Issuer: CN=QuoVadis Root CA 2 G3,O=QuoVadis Limited,C=BM
Serial Number:44:57:34:24:5b:81:89:9b:35:f2:ce:b8:2b:3b:5b:a7:26:f0:75:28
Subject: CN=QuoVadis Root CA 2 G3,O=QuoVadis Limited,C=BM
Not Valid Before: Thu Jan 12 18:59:32 2012

```



```
Not Valid After
: Sun Jan 12 18:59:32 2042
Fingerprint (SHA-256):
8F:E4:FB:0A:F9:3A:4D:0D:67:DB:0B:EB:B2:3E:37:C7:1B:F3:25:DC:BC:DD:24:0E:A0:4D:AF:58:B4:7E:18:40
Fingerprint (SHA1): 09:3C:61:F3:8B:8B:DC:7D:55:DF:75:38:02:05:00:E1:25:F5:C8:36
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "QuoVadis Root CA 2 G3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\110\061\013\060\011\006\003\125\004\006\023\002\102\115\061
\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144
\151\163\040\114\151\155\151\164\145\144\061\036\060\034\006\003
\125\004\003\023\025\121\165\157\126\141\144\151\163\040\122\157
\157\164\040\103\101\040\062\040\107\063
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\110\061\013\060\011\006\003\125\004\006\023\002\102\115\061
\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144
\151\163\040\114\151\155\151\164\145\144\061\036\060\034\006\003
\125\004\003\023\025\121\165\157\126\141\144\151\163\040\122\157
\157\164\040\103\101\040\062\040\107\063
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\024\104\127\064\044\133\201\211\233\065\362\316\270\053\073
\133\247\046\360\165\050
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\140\060\202\003\110\240\003\002\001\002\002\024\104
\127\064\044\133\201\211\233\065\362\316\270\053\073\133\247\046
\360\165\050\060\015\006\011\052\206\110\206\367\015\001\001\013
\005\000\060\110\061\013\060\011\006\003\125\004\006\023\002\102
\115\061\031\060\027\006\003\125\004\012\023\020\121\165\157\126
\141\144\151\163\040\114\151\155\151\164\145\144\061\036\060\034
\006\003\125\004\003\023\025\121\165\157\126\141\144\151\163\040
\122\157\157\164\040\103\101\040\062\040\107\063\060\036\027\015
\061\062\060\061\061\062\061\070\065\071\063\062\132\027\015\064
\062\060\061\061\062\061\070\065\071\063\062\132\060\110\061\013
\060\011\006\003\125\004\006\023\002\102\115\061\031\060\027\006
\003\125\004\012\023\020\121\165\157\126\141\144\151\163\040\114
\151\155\151\164\145\144\061\036\060\034\006\003\125\004\003\023
\025\121\165\157\126\141\144\151\163\040\122\157\157\164\040\103
\101\040\062\040\107\063\060\202\002\042\060\015\006\011\052\206
\110\206\367\015\001\001\001\005\000\003\202\002\017\000\060\202
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\002\012\002\202\002\001\000\241\256\045\262\001\030\334\127\210  
\077\106\353\371\257\342\353\043\161\342\232\321\141\146\041\137  
\252\257\047\121\345\156\033\026\324\055\175\120\260\123\167\275  
\170\072\140\342\144\002\233\174\206\233\326\032\216\255\377\037  
\025\177\325\225\036\022\313\346\024\204\004\301\337\066\263\026  
\237\212\343\311\333\230\064\316\330\063\027\050\106\374\247\311  
\360\322\264\325\115\011\162\111\371\362\207\343\251\332\175\241  
\175\153\262\072\045\251\155\122\104\254\370\276\156\373\334\246  
\163\221\220\141\246\003\024\040\362\347\207\243\210\255\255\240  
\214\377\246\013\045\122\045\347\026\001\325\313\270\065\201\014  
\243\073\360\341\341\374\132\135\316\200\161\155\370\111\253\076  
\073\272\270\327\200\001\373\245\353\133\263\305\136\140\052\061  
\240\257\067\350\040\072\237\250\062\054\014\314\011\035\323\236  
\216\135\274\114\230\356\305\032\150\173\354\123\246\351\024\065  
\243\337\315\200\237\014\110\373\034\364\361\277\112\270\372\325  
\214\161\112\307\037\255\376\101\232\263\203\135\362\204\126\357  
\245\127\103\316\051\255\214\253\125\277\304\373\133\001\335\043  
\041\241\130\000\216\303\320\152\023\355\023\343\022\053\200\334  
\147\346\225\262\315\036\042\156\052\370\101\324\362\312\024\007  
\215\212\125\022\306\151\365\270\206\150\057\123\136\260\322\252  
\041\301\230\346\060\343\147\125\307\233\156\254\031\250\125\246  
\105\006\320\043\072\333\353\145\135\052\021\021\360\073\117\312  
\155\364\064\304\161\344\377\000\132\366\134\256\043\140\205\163  
\361\344\020\261\045\256\325\222\273\023\301\014\340\071\332\264  
\071\127\265\253\065\252\162\041\073\203\065\347\061\337\172\041  
\156\270\062\010\175\035\062\221\025\112\142\162\317\343\167\241  
\274\325\021\033\166\001\147\010\340\101\013\303\353\025\156\370  
\244\031\331\242\253\257\342\047\122\126\053\002\212\054\024\044  
\371\277\102\002\277\046\310\306\217\340\156\070\175\123\055\345  
\355\230\263\225\143\150\177\371\065\364\337\210\305\140\065\222  
\300\174\151\034\141\225\026\320\353\336\013\257\076\004\020\105  
\145\130\120\070\257\110\362\131\266\026\362\074\015\220\002\306  
\160\056\001\255\074\025\327\002\003\001\000\001\243\102\060\100  
\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001  
\377\060\016\006\003\125\035\017\001\001\377\004\004\003\002\001  
\006\060\035\006\003\125\035\016\004\026\004\024\355\347\157\166  
\132\277\140\354\111\133\306\245\167\273\162\026\161\233\304\075  
\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\003  
\202\002\001\000\221\337\200\077\103\011\176\161\302\367\353\263  
\210\217\341\121\262\274\075\165\371\050\135\310\274\231\233\173  
\135\252\345\312\341\012\367\350\262\323\237\335\147\061\176\272  
\001\252\307\152\101\073\220\324\010\134\262\140\152\220\360\310  
\316\003\142\371\213\355\373\156\052\334\006\115\074\051\017\211  
\026\212\130\114\110\017\350\204\141\352\074\162\246\167\344\102  
\256\210\243\103\130\171\176\256\312\245\123\015\251\075\160\275  
\040\031\141\244\154\070\374\103\062\341\301\107\377\370\354\361  
\021\042\062\226\234\302\366\133\151\226\173\040\014\103\101\232  
\133\366\131\031\210\336\125\210\067\121\013\170\134\012\036\243

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\102\375\307\235\210\017\300\362\170\002\044\124\223\257\211\207
\210\311\112\200\035\352\320\156\076\141\056\066\273\065\016\047
\226\375\146\064\073\141\162\163\361\026\134\107\006\124\111\000
\172\130\022\260\012\357\205\375\261\270\063\165\152\223\034\022
\346\140\136\157\035\177\311\037\043\313\204\141\237\036\202\104
\371\137\255\142\125\044\232\122\230\355\121\347\241\176\227\072
\346\057\037\021\332\123\200\054\205\236\253\065\020\333\042\137
\152\305\136\227\123\362\062\002\011\060\243\130\360\015\001\325
\162\306\261\174\151\173\303\365\066\105\314\141\156\136\114\224
\305\136\256\350\016\136\213\277\367\315\340\355\241\016\033\063
\356\124\030\376\017\276\357\176\204\153\103\343\160\230\333\135
\165\262\015\131\007\205\025\043\071\326\361\337\251\046\017\326
\110\307\263\246\042\365\063\067\132\225\107\237\173\272\030\025
\157\377\326\024\144\203\111\322\012\147\041\333\017\065\143\140
\050\042\343\261\225\203\315\205\246\335\057\017\347\147\122\156
\273\057\205\174\365\112\163\347\305\076\300\275\041\022\005\077
\374\267\003\111\002\133\310\045\346\342\124\070\365\171\207\214
\035\123\262\116\205\173\006\070\307\054\370\370\260\162\215\045
\345\167\122\364\003\034\110\246\120\137\210\040\060\156\362\202
\103\253\075\227\204\347\123\373\041\301\117\017\042\232\206\270
\131\052\366\107\075\031\210\055\350\205\341\236\354\205\010\152
\261\154\064\311\035\354\110\053\073\170\355\146\304\216\171\151
\203\336\177\214
```

END

CKA\_NSS\_MOZILLA\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER

CK\_BBOOL CK\_FALSE

# Trust for "QuoVadis Root CA 2 G3"

# Issuer: CN=QuoVadis Root CA 2 G3,O=QuoVadis Limited,C=BM

# Serial Number:44:57:34:24:5b:81:89:9b:35:f2:ce:b8:2b:3b:5b:a7:26:f0:75:28

# Subject: CN=QuoVadis Root CA 2 G3,O=QuoVadis Limited,C=BM

# Not Valid Before: Thu Jan 12 18:59:32 2012

# Not Valid After : Sun Jan 12 18:59:32 2042

# Fingerprint (SHA-256):

8F:E4:FB:0A:F9:3A:4D:0D:67:DB:0B:EB:B2:3E:37:C7:1B:F3:25:DC:BC:DD:24:0E:A0:4D:AF:58:B4:7E:18:40

# Fingerprint (SHA1): 09:3C:61:F3:8B:8B:DC:7D:55:DF:75:38:02:05:00:E1:25:F5:C8:36

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "QuoVadis Root CA 2 G3"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

```
\011\074\141\363\213\213\334\175\125\337\165\070\002\005\000\341
```

```
\045\365\310\066
```

END

```

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\257\014\206\156\277\100\055\177\013\076\022\120\272\022\075\006
END
CKA_ISSUER MULTILINE_OCTAL
\060\110\061\013\060\011\006\003\125\004\006\023\002\102\115\061
\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144
\151\163\040\114\151\155\151\164\145\144\061\036\060\034\006\003
\125\004\003\023\025\121\165\157\126\141\144\151\163\040\122\157
\157\164\040\103\101\040\062\040\107\063
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\024\104\127\064\044\133\201\211\233\065\362\316\270\053\073
\133\247\046\360\165\050
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "QuoVadis Root CA 3 G3"
#
Issuer: CN=QuoVadis Root CA 3 G3,O=QuoVadis Limited,C=BM
Serial Number:2e:f5:9b:02:28:a7:db:7a:ff:d5:a3:a9:ee:bd:03:a0:cf:12:6a:1d
Subject: CN=QuoVadis Root CA 3 G3,O=QuoVadis Limited,C=BM
Not Valid Before: Thu Jan 12 20:26:32 2012
Not Valid After : Sun Jan 12 20:26:32 2042
Fingerprint (SHA-256):
88:EF:81:DE:20:2E:B0:18:45:2E:43:F8:64:72:5C:EA:5F:BD:1F:C2:D9:D2:05:73:07:09:C5:D8:B8:69:0F:46
#
Fingerprint (SHA1): 48:12:BD:92:3C:A8:C4:39:06:E7:30:6D:27:96:E6:A4:CF:22:2E:7D
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "QuoVadis Root CA 3 G3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\110\061\013\060\011\006\003\125\004\006\023\002\102\115\061
\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144
\151\163\040\114\151\155\151\164\145\144\061\036\060\034\006\003
\125\004\003\023\025\121\165\157\126\141\144\151\163\040\122\157
\157\164\040\103\101\040\063\040\107\063
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\110\061\013\060\011\006\003\125\004\006\023\002\102\115\061

```

\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144  
\151\163\040\114\151\155\151\164\145\144\061\036\060\034\006\003  
\125\004\003\023\025\121\165\157\126\141\144\151\163\040\122\157  
\157\164\040\103\101\040\063\040\107\063

END

CKA\_SERIAL\_NUMBER

MULTILINE\_OCTAL

\002\024\056\365\233\002\050\247\333\172\377\325\243\251\356\275  
\003\240\317\022\152\035

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\005\140\060\202\003\110\240\003\002\001\002\002\024\056  
\365\233\002\050\247\333\172\377\325\243\251\356\275\003\240\317  
\022\152\035\060\015\006\011\052\206\110\206\367\015\001\001\013  
\005\000\060\110\061\013\060\011\006\003\125\004\006\023\002\102  
\115\061\031\060\027\006\003\125\004\012\023\020\121\165\157\126  
\141\144\151\163\040\114\151\155\151\164\145\144\061\036\060\034  
\006\003\125\004\003\023\025\121\165\157\126\141\144\151\163\040  
\122\157\157\164\040\103\101\040\063\040\107\063\060\036\027\015  
\061\062\060\061\061\062\062\060\062\066\063\062\132\027\015\064  
\062\060\061\061\062\062\060\062\066\063\062\132\060\110\061\013  
\060\011\006\003\125\004\006\023\002\102\115\061\031\060\027\006  
\003\125\004\012\023\020\121\165\157\126\141\144\151\163\040\114  
\151\155\151\164\145\144\061\036\060\034\006\003\125\004\003\023  
\025\121\165\157\126\141\144\151\163\040\122\157\157\164\040\103  
\101\040\063\040\107\063\060\202\002\042\060\015\006\011\052\206  
\110\206\367\015\001\001\001\005\000\003\202\002\017\000\060\202  
\002\012\002\202\002\001\000\263\313\016\020\147\216\352\024\227  
\247\062\052\012\126\066\177\150\114\307\263\157\072\043\024\221  
\377\031\177\245\312\254\356\263\166\235\172\351\213\033\253\153  
\061\333\372\013\123\114\257\305\245\032\171\074\212\114\377\254  
\337\045\336\116\331\202\062\013\104\336\312\333\214\254\243\156  
\026\203\073\246\144\113\062\211\373\026\026\070\176\353\103\342  
\323\164\112\302\142\012\163\012\335\111\263\127\322\260\012\205  
\235\161\074\336\243\313\300\062\363\001\071\040\103\033\065\321  
\123\263\261\356\305\223\151\202\076\026\265\050\106\241\336\352  
\211\011\355\103\270\005\106\212\206\365\131\107\276\033\157\001  
\041\020\271\375\251\322\050\312\020\071\011\312\023\066\317\234  
\255\255\100\164\171\053\002\077\064\377\372\040\151\175\323\356  
\141\365\272\263\347\060\320\067\043\206\162\141\105\051\110\131  
\150\157\167\246\056\201\276\007\115\157\257\316\304\105\023\221  
\024\160\006\217\037\237\370\207\151\261\016\357\303\211\031\353  
\352\034\141\374\172\154\212\334\326\003\013\236\046\272\022\335  
\324\124\071\253\046\243\063\352\165\201\332\055\315\017\117\344  
\003\321\357\025\227\033\153\220\305\002\220\223\146\002\041\261  
\107\336\213\232\112\200\271\125\217\265\242\057\300\326\063\147  
\332\176\304\247\264\004\104\353\107\373\346\130\271\367\014\360  
\173\053\261\300\160\051\303\100\142\055\073\110\151\334\043\074

\110\353\173\011\171\251\155\332\250\060\230\317\200\162\003\210  
\246\133\106\256\162\171\174\010\003\041\145\256\267\341\034\245  
\261\052\242\061\336\146\004\367\300\164\350\161\336\377\075\131  
\314\226\046\022\213\205\225\127\032\253\153\165\013\104\075\021  
\050\074\173\141\267\342\217\147\117\345\354\074\114\140\200\151  
\127\070\036\001\133\215\125\350\307\337\300\314\167\043\064\111  
\165\174\366\230\021\353\055\336\355\101\056\024\005\002\177\340  
\376\040\353\065\347\021\254\042\316\127\075\336\311\060\155\020  
\003\205\315\361\377\214\026\265\301\262\076\210\154\140\177\220  
\117\225\367\366\055\255\001\071\007\004\372\165\200\175\277\111  
\120\355\357\311\304\174\034\353\200\176\333\266\320\335\023\376  
\311\323\234\327\262\227\251\002\003\001\000\001\243\102\060\100  
\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001  
\377\060\016\006\003\125\035\017\001\001\377\004\004\003\002\001  
\006\060\035\006\003\125\035\016\004\026\004\024\306\027\320\274  
\250\352\002\103\362\033\006\231\135\053\220\040\271\327\234\344  
\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\003  
\202\002\001\000\064\141\331\126\265\022\207\125\115\335\243\065  
\061\106\273\244\007\162\274\137\141\142\350\245\373\013\067\261  
\074\266\263\372\051\235\177\002\365\244\311\250\223\267\172\161  
\050\151\217\163\341\122\220\332\325\276\072\345\267\166\152\126  
\200\041\337\135\346\351\072\236\345\076\366\242\151\307\052\012  
\260\030\107\334\040\160\175\122\243\076\131\174\301\272\311\310  
\025\100\141\312\162\326\160\254\322\267\360\034\344\206\051\360  
\316\357\150\143\320\265\040\212\025\141\232\176\206\230\264\311  
\302\166\373\314\272\060\026\314\243\141\306\164\023\345\153\357  
\243\025\352\003\376\023\213\144\344\323\301\322\350\204\373\111  
\321\020\115\171\146\353\252\375\364\215\061\036\160\024\255\334  
\336\147\023\114\201\025\141\274\267\331\221\167\161\031\201\140  
\273\360\130\245\265\234\013\367\217\042\125\047\300\113\001\155  
\073\231\015\324\035\233\143\147\057\320\356\015\312\146\274\224  
\117\246\255\355\374\356\143\254\127\077\145\045\317\262\206\217  
\320\010\377\270\166\024\156\336\345\047\354\253\170\265\123\271  
\266\077\350\040\371\322\250\276\141\106\312\207\214\204\363\371  
\361\240\150\233\042\036\201\046\233\020\004\221\161\300\006\037  
\334\240\323\271\126\247\343\230\055\177\203\235\337\214\053\234  
\062\216\062\224\360\001\074\042\052\237\103\302\056\303\230\071  
\007\070\173\374\136\000\102\037\363\062\046\171\203\204\366\345  
\360\301\121\022\300\013\036\004\043\014\124\245\114\057\111\305  
\112\321\266\156\140\015\153\374\153\213\205\044\144\267\211\016  
\253\045\107\133\074\317\176\111\275\307\351\012\306\332\367\176  
\016\027\010\323\110\227\320\161\222\360\017\071\076\064\152\034  
\175\330\362\042\256\273\151\364\063\264\246\110\125\321\017\016  
\046\350\354\266\013\055\247\205\065\315\375\131\310\237\321\315  
\076\132\051\064\271\075\204\316\261\145\324\131\221\221\126\165  
\041\301\167\236\371\172\341\140\235\323\255\004\030\364\174\353  
\136\223\217\123\112\042\051\370\110\053\076\115\206\254\133\177  
\313\006\231\131\140\330\130\145\225\215\104\321\367\177\176\047

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\177\175\256\200\365\007\114\266\076\234\161\124\231\004\113\375
\130\371\230\364
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRICT_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRICT_AFTER CK_BBOOL CK_FALSE

Trust for "QuoVadis Root
CA 3 G3"
Issuer: CN=QuoVadis Root CA 3 G3,O=QuoVadis Limited,C=BM
Serial Number:2e:f5:9b:02:28:a7:db:7a:ff:d5:a3:a9:ee:bd:03:a0:cf:12:6a:1d
Subject: CN=QuoVadis Root CA 3 G3,O=QuoVadis Limited,C=BM
Not Valid Before: Thu Jan 12 20:26:32 2012
Not Valid After : Sun Jan 12 20:26:32 2042
Fingerprint (SHA-256):
88:EF:81:DE:20:2E:B0:18:45:2E:43:F8:64:72:5C:EA:5F:BD:1F:C2:D9:D2:05:73:07:09:C5:D8:B8:69:0F:46
Fingerprint (SHA1): 48:12:BD:92:3C:A8:C4:39:06:E7:30:6D:27:96:E6:A4:CF:22:2E:7D
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "QuoVadis Root CA 3 G3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\110\022\275\222\074\250\304\071\006\347\060\155\047\226\346\244
\317\042\056\175
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\337\175\271\255\124\157\150\241\337\211\127\003\227\103\260\327
END
CKA_ISSUER MULTILINE_OCTAL
\060\110\061\013\060\011\006\003\125\004\006\023\002\102\115\061
\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144
\151\163\040\114\151\155\151\164\145\144\061\036\060\034\006\003
\125\004\003\023\025\121\165\157\126\141\144\151\163\040\122\157
\157\164\040\103\101\040\063\040\107\063
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\024\056\365\233\002\050\247\333\172\377\325\243\251\356\275
\003\240\317\022\152\035
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
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Certificate "DigiCert Assured ID Root G2"
#
Issuer: CN=DigiCert Assured ID Root G2,OU=www.digicert.com,O=DigiCert Inc,C=US
Serial Number:0b:93:1c:3a:d6:39:67:ea:67:23:bf:c3:af:9a:f4:4b
Subject: CN=DigiCert Assured ID Root G2,OU=www.digicert.com,O=DigiCert Inc,C=US
Not Valid Before: Thu Aug 01 12:00:00 2013
Not Valid After : Fri Jan 15 12:00:00 2038
Fingerprint (SHA-256):
7D:05:EB:B6:82:33:9F:8C:94:51:EE:09:4E:EB:FE:FA:79:53:A1:14:ED:B2:F4:49:49:45:2F:AB:7D:2F:C1:85
#
Fingerprint (SHA1): A1:4B:48:D9:43:EE:0A:0E:40:90:4F:3C:E0:A4:C0:91:93:51:5D:3F
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Assured ID Root G2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\145\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\044\060\042\006\003\125\004\003\023\033\104\151\147\151
\103\145\162\164\040\101\163\163\165\162\145\144\040\111\104\040
\122\157\157\164\040\107\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\145\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\044\060\042\006\003\125\004\003\023\033\104\151\147\151
\103\145\162\164\040\101\163\163\165\162\145\144\040\111\104\040
\122\157\157\164\040\107\062
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\020\013\223\034\072\326\071\147\352\147\043\277\303\257\232
\364\113
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\226\060\202\002\176\240\003\002\001\002\002\020\013
\223\034\072\326\071\147\352\147\043\277\303\257\232\364\113\060
\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060\145
\061\013\060\011\006\003\125\004\006\023\002\125\123\061\025\060
\023\006\003\125\004\012\023\014\104\151\147\151\103\145\162\164
\040\111\156\143\061\031\060\027\006\003\125\004\013\023\020\167

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\167\167\056\144\151\147\151\143\145\162\164\056\143\157\155\061  
\044\060\042\006\003\125\004\003\023\033\104\151\147\151\103\145  
\162\164\040\101\163\163\165\162\145\144\040\111\104\040\122\157  
\157\164\040\107\062\060\036\027\015\061\063\060\070\060\061\061  
\062\060\060\060\060\132\027\015\063\070\060\061\061\065\061\062  
\060\060\060\060\132\060\145\061\013\060\011\006\003\125\004\006  
\023\002\125\123\061\025\060\023\006\003\125\004\012\023\014\104  
\151\147\151\103\145\162\164\040\111\156\143\061\031\060\027\006  
\003\125\004\013\023\020\167\167\167\056\144\151\147\151\143\145  
\162\164\056\143\157\155\061\044\060\042\006\003\125\004\003\023  
\033\104\151\147\151\103\145\162\164\040\101\163\163\165\162\145  
\144\040\111\104\040\122\157\157\164\040\107\062\060\202\001\042  
\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003  
\202\001\017\000\060\202\001\012\002\202\001\001\000\331\347\050  
\057\122\077\066\162\111\210\223\064\363\370\152\036\061\124\200  
\237\255\124\101\265\107\337\226\250\324\257\200\055\271\012\317  
\165\375\211\245\175\044\372\343\042\014\053\274\225\027\013\063  
\277\031\115\101\006\220\000\275\014\115\020\376\007\265\347\034  
\156\042\125\061\145\227\275\323\027\322\036\142\363\333\352\154  
\120\214\077\204\014\226\317\267\313\003\340\312\155\241\024\114  
\033\211\335\355\000\260\122\174\257\221\154\261\070\023\321\351  
\022\010\300\000\260\034\053\021\332\167\160\066\233\256\316\171  
\207\334\202\160\346\011\164\160\125\151\257\243\150\237\277\335  
\266\171\263\362\235\160\051\125\364\253\377\225\141\363\311\100  
\157\035\321\276\223\273\323\210\052\273\235\277\162\132\126\161  
\073\077\324\363\321\012\376\050\357\243\356\331\231\257\003\323  
\217\140\267\362\222\241\261\275\211\211\037\060\315\303\246\056  
\142\063\256\026\002\167\104\132\347\201\012\074\247\104\056\171  
\270\077\004\274\134\240\207\341\033\257\121\216\315\354\054\372  
\370\376\155\360\072\174\252\213\344\147\225\061\215\002\003\001  
\000\001\243\102\060\100\060\017\006\003\125\035\023\001\001\377  
\004\005\060\003\001\001\377\060\016\006\003\125\035\017\001\001  
\377\004\004\003\002\001\206\060\035\006\003\125\035\016\004\026  
\004\024\316\303\112\271\231\125\362\270\333\140\277\251\176\275  
\126\265\227\066\247\326\060\015\006\011\052\206\110\206\367\015  
\001\001\013\005\000\003\202\001\001\000\312\245\125\214\343\310  
\101\156\151\047\247\165\021\357\074\206\066\157\322\235\306\170  
\070\035\151\226\242\222\151\056\070\154\233\175\004\324\211\245  
\261\061\067\212\311\041\314\253\154\315\213\034\232\326\277\110  
\322\062\146\301\212\300\363\057\072\357\300\343\324\221\206\321  
\120\343\003\333\163\167\157\112\071\123\355\336\046\307\265\175  
\257\053\102\321\165\142\343\112\053\002\307\120\113\340\151\342  
\226\154\016\104\146\020\104\217\255\005\353\370\171\254\246\033  
\350\067\064\235\123\311\141\252\242\122\257\112\160\026\206\302  
\072\310\261\023\160\066\330\317\356\364\012\064\325\133\114\375  
\007\234\242\272\331\001\162\134\363\115\301\335\016\261\034\015  
\304\143\276\255\364\024\373\211\354\242\101\016\114\314\310\127  
\100\320\156\003\252\315\014\216\211\231\231\154\360\074\060\257

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\070\337\157\274\243\276\051\040\047\253\164\377\023\042\170\336
\227\122\125\036\203\265\124\040\003\356\256\300\117\126\336\067
\314\303\177\252\004\047\273\323\167\270\142\333\027\174\234\050
\042\023\163\154\317\046\365\212\051\347
```

END

CKA\_NSS\_MOZILLA\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "DigiCert Assured ID Root G2"

# Issuer: CN=DigiCert Assured ID Root G2,OU=www.digicert.com,O=DigiCert Inc,C=US

# Serial Number:0b:93:1c:3a:d6:39:67:ea:67:23:bf:c3:af:9a:f4:4b

# Subject: CN=DigiCert Assured ID Root G2,OU=www.digicert.com,O=DigiCert Inc,C=US

# Not Valid Before: Thu Aug 01 12:00:00 2013

# Not Valid After : Fri Jan 15 12:00:00 2038

# Fingerprint (SHA-256):

7D:05:EB:B6:82:33:9F:8C:94:51:EE:09:4E:EB:FE:FA:79:53:A1:14:ED:B2:F4:49:49:45:2F:AB:7D:2F:C1:85

# Fingerprint (SHA1): A1:4B:48:D9:43:EE:0A:0E:40:90:4F:3C:E0:A4:C0:91:93:51:5D:3F

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL

UTF8 "DigiCert Assured ID Root G2"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

```
\241\113\110\331\103\356\012\016\100\220\117\074\340\244\300\221
\223\121\135\077
```

END

CKA\_CERT\_MD5\_HASH MULTILINE\_OCTAL

```
\222\070\271\370\143\044\202\145\054\127\063\346\376\201\217\235
```

END

CKA\_ISSUER MULTILINE\_OCTAL

```
\060\145\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\044\060\042\006\003\125\004\003\023\033\104\151\147\151
\103\145\162\164\040\101\163\163\165\162\145\144\040\111\104\040
\122\157\157\164\040\107\062
```

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

```
\002\020\013\223\034\072\326\071\147\352\147\043\277\303\257\232
\364\113
```

END

CKA\_TRUST\_SERVER\_AUTH CK\_TRUST CKT\_NSS\_TRUSTED\_DELEGATOR

CKA\_TRUST\_EMAIL\_PROTECTION CK\_TRUST CKT\_NSS\_TRUSTED\_DELEGATOR

CKA\_TRUST\_CODE\_SIGNING CK\_TRUST CKT\_NSS\_MUST\_VERIFY\_TRUST

CKA\_TRUST\_STEP\_UP\_APPROVED

CK\_BBOOL CK\_FALSE

#

# Certificate "DigiCert Assured ID Root G3"

#

# Issuer: CN=DigiCert Assured ID Root G3,OU=www.digicert.com,O=DigiCert Inc,C=US

# Serial Number:0b:a1:5a:fa:1d:df:a0:b5:49:44:af:cd:24:a0:6c:ec

# Subject: CN=DigiCert Assured ID Root G3,OU=www.digicert.com,O=DigiCert Inc,C=US

# Not Valid Before: Thu Aug 01 12:00:00 2013

# Not Valid After : Fri Jan 15 12:00:00 2038

# Fingerprint (SHA-256):

7E:37:CB:8B:4C:47:09:0C:AB:36:55:1B:A6:F4:5D:B8:40:68:0F:BA:16:6A:95:2D:B1:00:71:7F:43:05:3F:C2

# Fingerprint (SHA1): F5:17:A2:4F:9A:48:C6:C9:F8:A2:00:26:9F:DC:0F:48:2C:AB:30:89

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_CERTIFICATE

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "DigiCert Assured ID Root G3"

CKA\_CERTIFICATE\_TYPE CK\_CERTIFICATE\_TYPE CKC\_X\_509

CKA\_SUBJECT MULTILINE\_OCTAL

\060\145\061\013\060\011\006\003\125\004\006\023\002\125\123\061  
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145  
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023  
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157  
\155\061\044\060\042\006\003\125\004\003\023\033\104\151\147\151  
\103\145\162\164\040\101\163\163\165\162\145\144\040\111\104\040  
\122\157\157\164\040\107\063

END

CKA\_ID

UTF8 "0"

CKA\_ISSUER MULTILINE\_OCTAL

\060\145\061\013\060\011\006\003\125\004\006\023\002\125\123\061  
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145  
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023  
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157  
\155\061\044\060\042\006\003\125\004\003\023\033\104\151\147\151  
\103\145\162\164\040\101\163\163\165\162\145\144\040\111\104\040  
\122\157\157\164\040\107\063

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

\002\020\013\241\132\372\035\337\240\265\111\104\257\315\044\240  
\154\354

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\002\106\060\202\001\315\240\003\002\001\002\002\020\013  
\241\132\372\035\337\240\265\111\104\257\315\044\240\154\354\060  
\012\006\010\052\206\110\316\075\004\003\003\060\145\061\013\060

\011\006\003\125\004\006\023\002\125\123\061\025\060\023\006\003  
\125\004\012\023\014\104\151\147\151\103\145\162\164\040\111\156  
\143\061\031\060\027\006\003\125\004\013\023\020\167\167\167\056  
\144\151\147\151\143\145\162\164\056\143\157\155\061\044\060\042  
\006\003\125\004\003\023\033\104\151\147\151\103\145\162\164\040  
\101\163\163\165\162\145\144\040\111\104\040\122\157\157\164\040  
\107\063\060\036\027\015\061\063\060\070\060\061\061\062\060\060  
\060\060\132\027\015\063\070\060\061\061\065\061\062\060\060\060  
\060\132\060\145\061\013\060\011\006\003\125\004\006\023\002\125  
\123\061\025\060\023\006\003\125\004\012\023\014\104\151\147\151  
\103\145\162\164\040\111\156\143\061\031\060\027\006\003\125\004  
\013\023\020\167\167\167\056\144\151\147\151\143\145\162\164\056  
\143\157\155\061\044\060\042\006\003\125\004\003\023\033\104\151  
\147\151\103\145\162\164\040\101\163\163\165\162\145\144\040\111  
\104\040\122\157\157\164\040\107\063\060\166\060\020\006\007\052  
\206\110\316\075\002\001\006\005\053\201\004\000\042\003\142\000  
\004\031\347\274\254\104\145\355\315\270\077\130\373\215\261\127  
\251\104\055\005\025\362\357\013\377\020\164\237\265\142\122\137  
\146\176\037\345\334\033\105\171\013\314\306\123\012\235\215\135  
\002\331\251\131\336\002\132\366\225\052\016\215\070\112\212\111  
\306\274\306\003\070\007\137\125\332\176\011\156\342\177\136\320  
\105\040\017\131\166\020\326\240\044\360\055\336\066\362\154\051  
\071\243\102\060\100\060\017\006\003\125\035\023\001\001\377\004  
\005\060\003\001\001\377\060\016\006\003\125\035\017\001\001\377  
\004\004\003\002\001\206\060\035\006\003\125\035\016\004\026\004  
\024\313\320\275\251\341\230\005\121\241\115\067\242\203\171\316  
\215\035\052\344\204\060\012\006\010\052\206\110\316\075\004\003  
\003\003\147\000\060\144\002\060\045\244\201\105\002\153\022\113  
\165\164\117\310\043\343\160\362\165\162\336\174\211\360\317\221  
\162\141\236\136\020\222\131\126\271\203\307\020\347\070\351\130  
\046\066\175\325\344\064\206\071\002\060\174\066\123\360\060\345  
\142\143\072\231\342\266\243\073\233\064\372\036\332\020\222\161  
\136\221\023\247\335\244\156\222\314\062\326\365\041\146\307\057  
\352\226\143\152\145\105\222\225\001\264

END

CKA\_NSS\_MOZILLA\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "DigiCert Assured ID Root G3"

# Issuer: CN=DigiCert Assured ID Root G3,OU=www.digicert.com,O=DigiCert Inc,C=US

# Serial Number:0b:a1:5a:fa:1d:df:a0:b5:49:44:af:cd:24:a0:6c:ec

# Subject: CN=DigiCert Assured ID Root G3,OU=www.digicert.com,O=DigiCert Inc,C=US

# Not Valid Before: Thu Aug 01 12:00:00 2013

# Not Valid After : Fri Jan 15 12:00:00 2038

# Fingerprint (SHA-256):

7E:37:CB:8B:4C:47:09:0C:AB:36:55:1B:A6:F4:5D:B8:40:68:0F:BA:16:6A:95:2D:B1:00:71:7F:43:05:3F:C2

```

Fingerprint (SHA1): F5:17:A2:4F:9A:48:C6:C9:F8:A2:00:26:9F:DC:0F:48:2C:AB:30:89
CKA_CLASS
CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Assured ID Root G3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\365\027\242\117\232\110\306\311\370\242\000\046\237\334\017\110
\054\253\060\211
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\174\177\145\061\014\201\337\215\272\076\231\342\134\255\156\373
END
CKA_ISSUER MULTILINE_OCTAL
\060\145\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\044\060\042\006\003\125\004\003\023\033\104\151\147\151
\103\145\162\164\040\101\163\163\165\162\145\144\040\111\104\040
\122\157\157\164\040\107\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\013\241\132\372\035\337\240\265\111\104\257\315\044\240
\154\354
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION
CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "DigiCert Global Root G2"
#
Issuer: CN=DigiCert Global Root G2,OU=www.digicert.com,O=DigiCert Inc,C=US
Serial Number:03:3a:f1:e6:a7:11:a9:a0:bb:28:64:b1:1d:09:fa:e5
Subject: CN=DigiCert Global Root G2,OU=www.digicert.com,O=DigiCert Inc,C=US
Not Valid Before: Thu Aug 01 12:00:00 2013
Not Valid After : Fri Jan 15 12:00:00 2038
Fingerprint (SHA-256):
CB:3C:CB:B7:60:31:E5:E0:13:8F:8D:D3:9A:23:F9:DE:47:FF:C3:5E:43:C1:14:4C:EA:27:D4:6A:5A:B1:CB:5F
Fingerprint (SHA1): DF:3C:24:F9:BF:D6:66:76:1B:26:80:73:FE:06:D1:CC:8D:4F:82:A4
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE

```

```
CKA_LABEL UTF8 "DigiCert Global Root G2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\141\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\040\060\036\006\003\125\004\003\023\027\104\151\147\151
\103\145\162\164\040\107\154\157\142\141\154\040\122\157\157\164
\040\107\062
END
CKA_ID
UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\141\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\040\060\036\006\003\125\004\003\023\027\104\151\147\151
\103\145\162\164\040\107\154\157\142\141\154\040\122\157\157\164
\040\107\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\003\072\361\346\247\021\251\240\273\050\144\261\035\011
\372\345
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\216\060\202\002\166\240\003\002\001\002\002\020\003
\072\361\346\247\021\251\240\273\050\144\261\035\011\372\345\060
\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060\141
\061\013\060\011\006\003\125\004\006\023\002\125\123\061\025\060
\023\006\003\125\004\012\023\014\104\151\147\151\103\145\162\164
\040\111\156\143\061\031\060\027\006\003\125\004\013\023\020\167
\167\167\056\144\151\147\151\143\145\162\164\056\143\157\155\061
\040\060\036\006\003\125\004\003\023\027\104\151\147\151\103\145
\162\164\040\107\154\157\142\141\154\040\122\157\157\164\040\107
\062\060\036\027\015\061\063\060\070\060\061\061\062\060\060\060
\060\132\027\015\063\070\060\061\061\065\061\062\060\060\060\060
\132\060\141\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103
\145\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013
\023\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143
\157\155\061\040\060\036\006\003\125\004\003\023\027\104\151\147
\151\103\145\162\164\040\107\154\157\142\141\154\040\122\157\157
\164\040\107\062\060\202\001\042\060\015\006\011\052\206\110\206
\367\015\001\001\001\005\000\003\202\001\017\000\060\202\001\012
\002\202\001\001\000\273\067\315\064\334\173\153\311\262\150\220
\255\112\165\377\106\272\041\012\010\215\365\031\124\311\373\210
```

\333\363\256\362\072\211\221\074\172\346\253\006\032\153\317\254  
\055\350\136\011\044\104\272\142\232\176\326\243\250\176\340\124  
\165\040\005\254\120\267\234\143\032\154\060\334\332\037\031\261  
\327\036\336\375\327\340\313\224\203\067\256\354\037\103\116\335  
\173\054\322\275\056\245\057\344\251\270\255\072\324\231\244\266  
\045\351\233\153\000\140\222\140\377\117\041\111\030\367\147\220  
\253\141\006\234\217\362\272\351\264\351\222\062\153\265\363\127  
\350\135\033\315\214\035\253\225\004\225\111\363\065\055\226\343  
\111\155\335\167\343\373\111\113\264\254\125\007\251\217\225\263  
\264\043\273\114\155\105\360\366\251\262\225\060\264\375\114\125  
\214\047\112\127\024\174\202\235\315\163\222\323\026\112\006\014  
\214\120\321\217\036\011\276\027\241\346\041\312\375\203\345\020  
\274\203\245\012\304\147\050\366\163\024\024\075\106\166\303\207  
\024\211\041\064\115\257\017\105\014\246\111\241\272\273\234\305  
\261\063\203\051\205\002\003\001\000\001\243\102\060\100\060\017  
\006\003\125\035\023\001\001\377\004\005\060\003\001\001\377\060  
\016\006\003\125\035\017\001\001\377\004\004\003\002\001\206\060  
\035\006\003\125\035\016\004\026\004\024\116\042\124\040\030\225  
\346\343\156\346\017\372\372\271\022\355\006\027\217\071\060\015  
\006\011\052\206\110\206\367\015\001\001\013\005\000\003\202\001  
\001\000\140\147\050\224\157\016\110\143\353\061\335\352\147\030  
\325\211\175\074\305\213\112\177\351\276\333\053\027\337\260\137  
\163\167\052\062\023\071\201\147\102\204\043\362\105\147\065\354  
\210\277\370\217\260\141\014\064\244\256\040\114\204\306\333\370  
\065\341\166\331\337\246\102\273\307\104\010\206\177\066\164\044  
\132\332\154\015\024\131\065\275\362\111\335\266\037\311\263\015  
\107\052\075\231\057\273\134\273\265\324\040\341\231\137\123\106  
\025\333\150\233\360\363\060\325\076\061\342\215\204\236\343\212  
\332\332\226\076\065\023\245\137\360\371\160\120\160\107\101\021  
\127\031\116\300\217\256\006\304\225\023\027\057\033\045\237\165  
\362\261\216\231\241\157\023\261\101\161\376\210\052\310\117\020  
\040\125\327\363\024\105\345\340\104\364\352\207\225\062\223\016  
\376\123\106\372\054\235\377\213\042\271\113\331\011\105\244\336  
\244\270\232\130\335\033\175\122\237\216\131\103\210\201\244\236  
\046\325\157\255\335\015\306\067\175\355\003\222\033\345\167\137  
\166\356\074\215\304\135\126\133\242\331\146\156\263\065\067\345  
\062\266

END

CKA\_NSS\_MOZILLA\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRUST\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRUST\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "DigiCert Global Root G2"

# Issuer: CN=DigiCert Global Root G2,OU=www.digicert.com,O=DigiCert Inc,C=US

# Serial Number:03:3a:f1:e6:a7:11:a9:a0:bb:28:64:b1:1d:09:fa:e5

#

```
Subject: CN=DigiCert Global Root G2,OU=www.digicert.com,O=DigiCert Inc,C=US
Not Valid Before: Thu Aug 01 12:00:00 2013
Not Valid After : Fri Jan 15 12:00:00 2038
Fingerprint (SHA-256):
CB:3C:CB:B7:60:31:E5:E0:13:8F:8D:D3:9A:23:F9:DE:47:FF:C3:5E:43:C1:14:4C:EA:27:D4:6A:5A:B1:CB:5F
Fingerprint (SHA1): DF:3C:24:F9:BF:D6:66:76:1B:26:80:73:FE:06:D1:CC:8D:4F:82:A4
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Global Root G2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\337\074\044\371\277\326\146\166\033\046\200\163\376\006\321\314
\215\117\202\244
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\344\246\212\310\124\254\122\102\106\012\375\162\110\033\052\104
END
CKA_ISSUER MULTILINE_OCTAL
\060\141\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\040\060\036\006\003\125\004\003\023\027\104\151\147\151
\103\145\162\164\040\107\154\157\142\141\154\040\122\157\157\164
\040\107\062
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\020\003\072\361\346\247\021\251\240\273\050\144\261\035\011
\372\345
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "DigiCert Global Root G3"
#
Issuer: CN=DigiCert Global Root G3,OU=www.digicert.com,O=DigiCert Inc,C=US
Serial Number:05:55:56:bc:f2:5e:a4:35:35:c3:a4:0f:d5:ab:45:72
Subject: CN=DigiCert Global Root G3,OU=www.digicert.com,O=DigiCert Inc,C=US
Not Valid Before: Thu Aug 01 12:00:00 2013
Not Valid After : Fri Jan 15 12:00:00 2038
Fingerprint (SHA-256):
31:AD:66:48:F8:10:41:38:C7:38:F3:9E:A4:32:01:33:39:3E:3A:18:CC:02:29:6E:F9:7C:2A:C9:EF:67:31:DO
#
```



Fingerprint (SHA1): 7E:04:DE:89:6A:3E:66:6D:00:E6:87:D3:3F:FA:D9:3B:E8:3D:34:9E

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_CERTIFICATE

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "DigiCert Global Root G3"

CKA\_CERTIFICATE\_TYPE CK\_CERTIFICATE\_TYPE CKC\_X\_509

CKA\_SUBJECT MULTILINE\_OCTAL

\060\141\061\013\060\011\006\003\125\004\006\023\002\125\123\061  
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145  
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023  
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157  
\155\061\040\060\036\006\003\125\004\003\023\027\104\151\147\151  
\103\145\162\164\040\107\154\157\142\141\154\040\122\157\157\164  
\040\107\063

END

CKA\_ID UTF8 "0"

CKA\_ISSUER MULTILINE\_OCTAL

\060\141\061\013\060\011\006\003\125\004\006\023\002\125\123\061  
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145  
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023  
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157  
\155\061\040\060\036\006\003\125\004\003\023\027\104\151\147\151  
\103\145\162\164\040\107\154\157\142\141\154\040\122\157\157\164  
\040\107\063

END

CKA\_SERIAL\_NUMBER

MULTILINE\_OCTAL

\002\020\005\125\126\274\362\136\244\065\065\303\244\017\325\253  
\105\162

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\002\077\060\202\001\305\240\003\002\001\002\002\020\005  
\125\126\274\362\136\244\065\065\303\244\017\325\253\105\162\060  
\012\006\010\052\206\110\316\075\004\003\003\060\141\061\013\060  
\011\006\003\125\004\006\023\002\125\123\061\025\060\023\006\003  
\125\004\012\023\014\104\151\147\151\103\145\162\164\040\111\156  
\143\061\031\060\027\006\003\125\004\013\023\020\167\167\167\056  
\144\151\147\151\143\145\162\164\056\143\157\155\061\040\060\036  
\006\003\125\004\003\023\027\104\151\147\151\103\145\162\164\040  
\107\154\157\142\141\154\040\122\157\157\164\040\107\063\060\036  
\027\015\061\063\060\070\060\061\061\062\060\060\060\060\132\027  
\015\063\070\060\061\061\065\061\062\060\060\060\060\132\060\141  
\061\013\060\011\006\003\125\004\006\023\002\125\123\061\025\060  
\023\006\003\125\004\012\023\014\104\151\147\151\103\145\162\164  
\040\111\156\143\061\031\060\027\006\003\125\004\013\023\020\167  
\167\167\056\144\151\147\151\143\145\162\164\056\143\157\155\061  
\040\060\036\006\003\125\004\003\023\027\104\151\147\151\103\145

```
\162\164\040\107\154\157\142\141\154\040\122\157\157\164\040\107
\063\060\166\060\020\006\007\052\206\110\316\075\002\001\006\005
\053\201\004\000\042\003\142\000\004\335\247\331\273\212\270\013
\373\013\177\041\322\360\276\276\163\363\063\135\032\274\064\352
\336\306\233\274\320\225\366\360\314\320\013\272\141\133\121\106
\176\236\055\237\356\216\143\014\027\354\007\160\365\317\204\056
\100\203\234\350\077\101\155\073\255\323\244\024\131\066\170\235
\003\103\356\020\023\154\162\336\256\210\247\241\153\265\103\316
\147\334\043\377\003\034\243\342\076\243\102\060\100\060\017\006
\003\125\035\023\001\001\377\004\005\060\003\001\001\377\060\016
\006\003\125\035\017\001\001\377\004\004\003\002\001\206\060\035
\006\003\125\035\016\004\026\004\024\263\333\110\244\371\241\305
\330\256\066\101\314\021\143\151\142\051\274\113\306\060\012\006
\010\052\206\110\316\075\004\003\003\003\150\000\060\145\002\061
\000\255\274\362\154\077\022\112\321\055\071\303\012\011\227\163
\364\210\066\214\210\047\273\346\210\215\120\205\247\143\371\236
\062\336\146\223\017\361\314\261\011\217\335\154\253\372\153\177
\240\002\060\071\146\133\302\144\215\270\236\120\334\250\325\111
\242\355\307\334\321\111\177\027\001\270\310\206\217\116\214\210
\053\250\232\251\212\305\321\000\275\370\124\342\232\345\133\174
\263\047\027
```

END

CKA\_NSS\_MOZILLA\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "DigiCert Global Root G3"

# Issuer: CN=DigiCert Global Root G3,OU=www.digicert.com,O=DigiCert Inc,C=US

# Serial Number:05:55:56:bc:f2:5e:a4:35:35:c3:a4:0f:d5:ab:45:72

#

Subject: CN=DigiCert Global Root G3,OU=www.digicert.com,O=DigiCert Inc,C=US

# Not Valid Before: Thu Aug 01 12:00:00 2013

# Not Valid After : Fri Jan 15 12:00:00 2038

# Fingerprint (SHA-256):

31:AD:66:48:F8:10:41:38:C7:38:F3:9E:A4:32:01:33:39:3E:3A:18:CC:02:29:6E:F9:7C:2A:C9:EF:67:31:D0

# Fingerprint (SHA1): 7E:04:DE:89:6A:3E:66:6D:00:E6:87:D3:3F:FA:D9:3B:E8:3D:34:9E

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "DigiCert Global Root G3"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

```
\176\004\336\211\152\076\146\155\000\346\207\323\077\372\331\073
\350\075\064\236
```

END

CKA\_CERT\_MD5\_HASH MULTILINE\_OCTAL

```
\365\135\244\120\245\373\050\176\036\017\015\314\226\127\126\312
```

```

END
CKA_ISSUER MULTILINE_OCTAL
\060\141\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\040\060\036\006\003\125\004\003\023\027\104\151\147\151
\103\145\162\164\040\107\154\157\142\141\154\040\122\157\157\164
\040\107\063
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\020\005\125\126\274\362\136\244\065\065\303\244\017\325\253
\105\162
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "DigiCert Trusted Root G4"
#
Issuer: CN=DigiCert Trusted Root G4,OU=www.digicert.com,O=DigiCert Inc,C=US
Serial Number:05:9b:1b:57:9e:8e:21:32:e2:39:07:bd:a7:77:75:5c
Subject: CN=DigiCert Trusted Root G4,OU=www.digicert.com,O=DigiCert Inc,C=US
Not Valid Before: Thu Aug 01 12:00:00 2013
Not Valid After : Fri Jan 15 12:00:00 2038
Fingerprint (SHA-256):
55:2F:7B:DC:F1:A7:AF:9E:6C:E6:72:01:7F:4F:12:AB:F7:72:40:C7:8E:76:1A:C2:03:D1:D9:D2:0A:C8:99:88
#
Fingerprint (SHA1): DD:FB:16:CD:49:31:C9:73:A2:03:7D:3F:C8:3A:4D:7D:77:5D:05:E4
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Trusted Root G4"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\142\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\041\060\037\006\003\125\004\003\023\030\104\151\147\151
\103\145\162\164\040\124\162\165\163\164\145\144\040\122\157\157
\164\040\107\064
END
CKA_ID UTF8 "0"

```

CKA\_ISSUER MULTILINE\_OCTAL

\060\142\061\013\060\011\006\003\125\004\006\023\002\125\123\061  
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145  
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023  
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157  
\155\061\041\060\037\006\003\125\004\003\023\030\104\151\147\151  
\103\145\162\164\040\124\162\165\163\164\145\144\040\122\157\157  
\164\040\107\064

END

CKA\_SERIAL\_NUMBER

MULTILINE\_OCTAL

\002\020\005\233\033\127\236\216\041\062\342\071\007\275\247\167  
\165\134

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\005\220\060\202\003\170\240\003\002\001\002\002\020\005  
\233\033\127\236\216\041\062\342\071\007\275\247\167\165\134\060  
\015\006\011\052\206\110\206\367\015\001\001\014\005\000\060\142  
\061\013\060\011\006\003\125\004\006\023\002\125\123\061\025\060  
\023\006\003\125\004\012\023\014\104\151\147\151\103\145\162\164  
\040\111\156\143\061\031\060\027\006\003\125\004\013\023\020\167  
\167\167\056\144\151\147\151\143\145\162\164\056\143\157\155\061  
\041\060\037\006\003\125\004\003\023\030\104\151\147\151\103\145  
\162\164\040\124\162\165\163\164\145\144\040\122\157\157\164\040  
\107\064\060\036\027\015\061\063\060\070\060\061\061\065\061\062\060\060  
\060\060\132\027\015\063\070\060\061\061\065\061\062\060\060\060  
\060\132\060\142\061\013\060\011\006\003\125\004\006\023\002\125  
\123\061\025\060\023\006\003\125\004\012\023\014\104\151\147\151  
\103\145\162\164\040\111\156\143\061\031\060\027\006\003\125\004  
\013\023\020\167\167\167\056\144\151\147\151\143\145\162\164\056  
\143\157\155\061\041\060\037\006\003\125\004\003\023\030\104\151  
\147\151\103\145\162\164\040\124\162\165\163\164\145\144\040\122  
\157\157\164\040\107\064\060\202\002\042\060\015\006\011\052\206  
\110\206\367\015\001\001\001\005\000\003\202\002\017\000\060\202  
\002\012\002\202\002\001\000\277\346\220\163\150\336\273\344\135  
\112\074\060\042\060\151\063\354\302\247\045\056\311\041\075\362  
\212\330\131\302\341\051\247\075\130\253\166\232\315\256\173\033  
\204\015\304\060\037\363\033\244\070\026\353\126\306\227\155\035  
\253\262\171\362\312\021\322\344\137\326\005\074\122\017\122\037  
\306\236\025\245\176\276\237\251\127\026\131\125\162\257\150\223  
\160\302\262\272\165\231\152\163\062\224\321\020\104\020\056\337  
\202\363\007\204\346\164\073\155\161\342\055\014\033\356\040\325  
\311\040\035\143\051\055\316\354\136\116\310\223\370\041\141\233  
\064\353\005\306\136\354\133\032\274\353\311\317\315\254\064\100  
\137\261\172\146\356\167\310\110\250\146\127\127\237\124\130\216  
\014\053\267\117\247\060\331\126\356\312\173\135\343\255\311\117  
\136\345\065\347\061\313\332\223\136\334\216\217\200\332\266\221  
\230\100\220\171\303\170\307\266\261\304\265\152\030\070\003\020

\215\330\324\067\244\056\005\175\210\365\202\076\020\221\160\253  
\125\202\101\062\327\333\004\163\052\156\221\001\174\041\114\324  
\274\256\033\003\165\135\170\146\331\072\061\104\232\063\100\277  
\010\327\132\111\244\302\346\251\240\147\335\244\047\274\241\117  
\071\265\021\130\027\367\044\134\106\217\144\367\301\151\210\166  
\230\166\075\131\135\102\166\207\211\227\151\172\110\360\340\242  
\022\033\146\232\164\312\336\113\036\347\016\143\256\346\324\357  
\222\222\072\236\075\334\000\344\105\045\211\266\232\104\031\053  
\176\300\224\264\322\141\155\353\063\331\305\337\113\004\000\314  
\175\034\225\303\217\367\041\262\262\021\267\273\177\362\325\214  
\160\054\101\140\252\261\143\030\104\225\032\166\142\176\366\200  
\260\373\350\144\246\063\321\211\007\341\275\267\346\103\244\030  
\270\246\167\001\341\017\224\014\041\035\262\124\051\045\211\154  
\345\016\122\121\107\164\276\046\254\266\101\165\336\172\254\137  
\215\077\311\274\323\101\021\022\133\345\020\120\353\061\305\312  
\162\026\042\011\337\174\114\165\077\143\354\041\137\304\040\121  
\153\157\261\253\206\213\117\302\326\105\137\235\040\374\241\036  
\305\300\217\242\261\176\012\046\231\365\344\151\057\230\035\055  
\365\331\251\262\035\345\033\002\003\001\000\001\243\102\060\100  
\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001  
\377\060\016\006\003\125\035\017\001\001\377\004\004\003\002\001  
\206\060\035\006\003\125\035\016\004\026\004\024\354\327\343\202  
\322\161\135\144\114\337\056\147\077\347\272\230\256\034\017\117  
\060\015\006\011\052\206\110\206\367\015\001\001\014\005\000\003  
\202\002\001\000\273\141\331\175\251\154\276\027\304\221\033\303  
\241\242\000\215\343\144\150\017\126\317\167\256\160\371\375\232  
\112\231\271\311\170\134\014\014\137\344\346\024\051\126\013\066  
\111\135\104\143\340\255\234\226\030\146\033\043\015\075\171\351  
\155\153\326\124\370\322\074\301\103\100\256\035\120\365\122\374  
\220\073\273\230\231\151\153\307\301\247\250\150\244\047\334\235  
\371\047\256\060\205\271\366\147\115\072\076\217\131\071\042\123  
\104\353\310\135\003\312\355\120\172\175\142\041\012\200\310\163  
\146\321\240\005\140\137\350\245\264\247\257\250\367\155\065\234  
\174\132\212\326\242\070\231\363\170\213\364\115\322\040\013\336  
\004\356\214\233\107\201\162\015\300\024\062\357\060\131\056\256  
\340\161\362\126\344\152\227\157\222\120\155\226\215\150\172\232  
\262\066\024\172\006\362\044\271\011\021\120\327\010\261\270\211  
\172\204\043\141\102\051\345\243\315\242\040\101\327\321\234\144  
\331\352\046\241\213\024\327\114\031\262\120\101\161\075\077\115  
\160\043\206\014\112\334\201\322\314\062\224\204\015\010\011\227  
\034\117\300\356\153\040\164\060\322\340\071\064\020\205\041\025  
\001\010\350\125\062\336\161\111\331\050\027\120\115\346\276\115  
\321\165\254\320\312\373\101\270\103\245\252\323\303\005\104\117  
\054\066\233\342\372\342\105\270\043\123\154\006\157\147\125\177  
\106\265\114\077\156\050\132\171\046\322\244\250\142\227\322\036  
\342\355\112\213\274\033\375\107\112\015\337\147\146\176\262\133  
\101\320\073\344\364\073\364\004\143\351\357\302\124\000\121\240  
\212\052\311\316\170\314\325\352\207\004\030\263\316\257\111\210

```
\257\363\222\231\266\263\346\141\017\322\205\000\347\120\032\344
\033\225\235\031\241\271\234\261\233\261\000\036\357\320\017\117
\102\154\311\012\274\356\103\372\072\161\245\310\115\046\245\065
\375\211\135\274\205\142\035\062\322\240\053\124\355\232\127\301
\333\372\020\317\031\267\213\112\033\217\001\266\047\225\123\350
\266\211\155\133\274\150\324\043\350\213\121\242\126\371\360\246
\200\240\326\036\263\274\017\017\123\165\051\252\352\023\167\344
\336\214\201\041\255\007\020\107\021\255\207\075\007\321\165\274
\317\363\146\176
```

END

CKA\_NSS\_MOZILLA\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRUST\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRUST\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "DigiCert Trusted Root G4"

# Issuer: CN=DigiCert Trusted Root G4,OU=www.digicert.com,O=DigiCert Inc,C=US

# Serial Number:05:9b:1b:57:9e:8e:21:32:e2:39:07:bd:a7:77:75:5c

# Subject: CN=DigiCert Trusted Root G4,OU=www.digicert.com,O=DigiCert Inc,C=US

# Not Valid Before: Thu Aug 01 12:00:00 2013

# Not Valid After : Fri Jan 15 12:00:00 2038

# Fingerprint (SHA-256):

55:2F:7B:DC:F1:A7:AF:9E:6C:E6:72:01:7F:4F:12:AB:F7:72:40:C7:8E:76:1A:C2:03:D1:D9:D2:0A:C8:99:88

# Fingerprint (SHA1): DD:FB:16:CD:49:31:C9:73:A2:03:7D:3F:C8:3A:4D:7D:77:5D:05:E4

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL

CK\_FALSE

CKA\_LABEL UTF8 "DigiCert Trusted Root G4"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

```
\335\373\026\315\111\061\311\163\242\003\175\077\310\072\115\175
\167\135\005\344
```

END

CKA\_CERT\_MD5\_HASH MULTILINE\_OCTAL

```
\170\362\374\252\140\037\057\264\353\311\067\272\123\056\165\111
```

END

CKA\_ISSUER MULTILINE\_OCTAL

```
\060\142\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\041\060\037\006\003\125\004\003\023\030\104\151\147\151
\103\145\162\164\040\124\162\165\163\164\145\144\040\122\157\157
\164\040\107\064
```

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

```
\002\020\005\233\033\127\236\216\041\062\342\071\007\275\247\167
```

```
\165\134
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED
CK_BBOOL CK_FALSE

#
Certificate "COMODO RSA Certification Authority"
#
Issuer: CN=COMODO RSA Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater
Manchester,C=GB
Serial Number:4c:aa:f9:ca:db:63:6f:e0:1f:f7:4e:d8:5b:03:86:9d
Subject: CN=COMODO RSA Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater
Manchester,C=GB
Not Valid Before: Tue Jan 19 00:00:00 2010
Not Valid After : Mon Jan 18 23:59:59 2038
Fingerprint (SHA-256):
52:F0:E1:C4:E5:8E:C6:29:29:1B:60:31:7F:07:46:71:B8:5D:7E:A8:0D:5B:07:27:34:63:53:4B:32:B4:02:34
Fingerprint (SHA1): AF:E5:D2:44:A8:D1:19:42:30:FF:47:9F:E2:F8:97:BB:CD:7A:8C:B4
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "COMODO RSA Certification Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\205\061\013\060\011\006\003\125\004\006\023\002\107\102
\061\033\060\031\006\003\125\004\010\023\022\107\162\145\141\164
\145\162\040\115\141\156\143\150\145\163\164\145\162\061\020\060
\016\006\003\125\004\007\023\007\123\141\154\146\157\162\144\061
\032\060\030\006\003\125\004\012\023\021\103\117\115\117\104\117
\040\103\101\040\114\151\155\151\164\145\144\061\053\060\051\006
\003\125\004\003\023\042\103\117\115\117\104\117\040\122\123\101
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171
END
CKA_ID
UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\205\061\013\060\011\006\003\125\004\006\023\002\107\102
\061\033\060\031\006\003\125\004\010\023\022\107\162\145\141\164
\145\162\040\115\141\156\143\150\145\163\164\145\162\061\020\060
\016\006\003\125\004\007\023\007\123\141\154\146\157\162\144\061
\032\060\030\006\003\125\004\012\023\021\103\117\115\117\104\117
\040\103\101\040\114\151\155\151\164\145\144\061\053\060\051\006
\003\125\004\003\023\042\103\117\115\117\104\117\040\122\123\101
```

\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101  
\165\164\150\157\162\151\164\171

END

CKA\_SERIAL\_NUMBER

MULTILINE\_OCTAL

\002\020\114\252\371\312\333\143\157\340\037\367\116\330\133\003  
\206\235

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\005\330\060\202\003\300\240\003\002\001\002\002\020\114  
\252\371\312\333\143\157\340\037\367\116\330\133\003\206\235\060  
\015\006\011\052\206\110\206\367\015\001\001\014\005\000\060\201  
\205\061\013\060\011\006\003\125\004\006\023\002\107\102\061\033  
\060\031\006\003\125\004\010\023\022\107\162\145\141\164\145\162  
\040\115\141\156\143\150\145\163\164\145\162\061\020\060\016\006  
\003\125\004\007\023\007\123\141\154\146\157\162\144\061\032\060  
\030\006\003\125\004\012\023\021\103\117\115\117\104\117\040\103  
\101\040\114\151\155\151\164\145\144\061\053\060\051\006\003\125  
\004\003\023\042\103\117\115\117\104\117\040\122\123\101\040\103  
\145\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164  
\150\157\162\151\164\171\060\036\027\015\061\060\060\061\061\071  
\060\060\060\060\060\060\132\027\015\063\070\060\061\061\070\062  
\063\065\071\065\071\132\060\201\205\061\013\060\011\006\003\125  
\004\006\023\002\107\102\061\033\060\031\006\003\125\004\010\023  
\022\107\162\145\141\164\145\162\040\115\141\156\143\150\145\163  
\164\145\162\061\020\060\016\006\003\125\004\007\023\007\123\141  
\154\146\157\162\144\061\032\060\030\006\003\125\004\012\023\021  
\103\117\115\117\104\117\040\103\101\040\114\151\155\151\164\145  
\144\061\053\060\051\006\003\125\004\003\023\042\103\117\115\117  
\104\117\040\122\123\101\040\103\145\162\164\151\146\151\143\141  
\164\151\157\156\040\101\165\164\150\157\162\151\164\171\060\202  
\002\042\060\015\006\011\052\206\110\206\367\015\001\001\001\005  
\000\003\202\002\017\000\060\202\002\012\002\202\002\001\000\221  
\350\124\222\322\012\126\261\254\015\044\335\305\317\104\147\164  
\231\053\067\243\175\043\160\000\161\274\123\337\304\372\052\022  
\217\113\177\020\126\275\237\160\162\267\141\177\311\113\017\027  
\247\075\343\260\004\141\356\377\021\227\307\364\206\076\012\372  
\076\134\371\223\346\064\172\331\024\153\347\234\263\205\240\202  
\172\166\257\161\220\327\354\375\015\372\234\154\372\337\260\202  
\364\024\176\371\276\304\246\057\117\177\231\177\265\374\147\103  
\162\275\014\000\326\211\353\153\054\323\355\217\230\034\024\253  
\176\345\343\156\374\330\250\344\222\044\332\103\153\142\270\125  
\375\352\301\274\154\266\213\363\016\215\232\344\233\154\151\231  
\370\170\110\060\105\325\255\341\015\074\105\140\374\062\226\121  
\047\274\147\303\312\056\266\153\352\106\307\307\040\240\261\037  
\145\336\110\010\272\244\116\251\362\203\106\067\204\353\350\314  
\201\110\103\147\116\162\052\233\134\275\114\033\050\212\134\042  
\173\264\253\230\331\356\340\121\203\303\011\106\116\155\076\231



\372\225\027\332\174\063\127\101\074\215\121\355\013\266\134\257  
\054\143\032\337\127\310\077\274\351\135\304\233\257\105\231\342  
\243\132\044\264\272\251\126\075\317\157\252\377\111\130\276\360  
\250\377\364\270\255\351\067\373\272\270\364\013\072\371\350\103  
\102\036\211\330\204\313\023\361\331\273\341\211\140\270\214\050  
\126\254\024\035\234\012\347\161\353\317\016\335\075\251\226\241  
\110\275\074\367\257\265\015\042\114\300\021\201\354\126\073\366  
\323\242\342\133\267\262\004\042\122\225\200\223\151\350\216\114  
\145\361\221\003\055\160\164\002\352\213\147\025\051\151\122\002  
\273\327\337\120\152\125\106\277\240\243\050\141\177\160\320\303  
\242\252\054\041\252\107\316\050\234\006\105\166\277\202\030\047  
\264\325\256\264\313\120\346\153\364\114\206\161\060\351\246\337  
\026\206\340\330\377\100\335\373\320\102\210\177\243\063\072\056  
\134\036\101\021\201\143\316\030\161\153\053\354\246\212\267\061  
\134\072\152\107\340\303\171\131\326\040\032\257\362\152\230\252  
\162\274\127\112\322\113\235\273\020\374\260\114\101\345\355\035  
\075\136\050\235\234\314\277\263\121\332\247\107\345\204\123\002  
\003\001\000\001\243\102\060\100\060\035\006\003\125\035\016\004  
\026\004\024\273\257\176\002\075\372\246\361\074\204\216\255\356  
\070\230\354\331\062\062\324\060\016\006\003\125\035\017\001\001  
\377\004\004\003\002\001\006\060\017\006\003\125\035\023\001\001  
\377\004\005\060\003\001\001\377\060\015\006\011\052\206\110\206  
\367\015\001\001\014\005\000\003\202\002\001\000\012\361\325\106  
\204\267\256\121\273\154\262\115\101\024\000\223\114\234\313\345  
\300\124\317\240\045\216\002\371\375\260\242\015\365\040\230\074  
\023\055\254\126\242\260\326\176\021\222\351\056\272\236\056\232  
\162\261\275\031\104\154\141\065\242\232\264\026\022\151\132\214  
\341\327\076\244\032\350\057\003\364\256\141\035\020\033\052\244  
\213\172\305\376\005\246\341\300\326\310\376\236\256\217\053\272  
\075\231\370\330\163\011\130\106\156\246\234\364\327\047\323\225  
\332\067\203\162\034\323\163\340\242\107\231\003\070\135\325\111  
\171\000\051\034\307\354\233\040\034\007\044\151\127\170\262\071  
\374\072\204\240\265\234\174\215\277\056\223\142\047\267\071\332  
\027\030\256\275\074\011\150\377\204\233\074\325\326\013\003\343  
\127\236\024\367\321\353\117\310\275\207\043\267\266\111\103\171  
\205\134\272\353\222\013\241\306\350\150\250\114\026\261\032\231  
\012\350\123\054\222\273\241\011\030\165\014\145\250\173\313\043  
\267\032\302\050\205\303\033\377\320\053\142\357\244\173\011\221  
\230\147\214\024\001\315\150\006\152\143\041\165\003\200\210\212  
\156\201\306\205\362\251\244\055\347\364\245\044\020\107\203\312  
\315\364\215\171\130\261\006\233\347\032\052\331\235\001\327\224  
\175\355\003\112\312\360\333\350\251\001\076\365\126\231\311\036  
\216\111\075\273\345\011\271\340\117\111\222\075\026\202\100\314  
\314\131\306\346\072\355\022\056\151\074\154\225\261\375\252\035  
\173\177\206\276\036\016\062\106\373\373\023\217\165\177\114\213  
\113\106\143\376\000\064\100\160\301\303\271\241\335\246\160\342  
\004\263\101\274\351\200\221\352\144\234\172\341\042\003\251\234  
\156\157\016\145\117\154\207\207\136\363\156\240\371\165\245\233

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\100\350\123\262\047\235\112\271\300\167\041\215\377\207\362\336
\274\214\357\027\337\267\111\013\321\362\156\060\013\032\016\116
\166\355\021\374\365\351\126\262\175\277\307\155\012\223\214\245
\320\300\266\035\276\072\116\224\242\327\156\154\013\302\212\174
\372\040\363\304\344\345\315\015\250\313\221\222\261\174\205\354
\265\024\151\146\016\202\347\315\316\310\055\246\121\177\041\301
\065\123\205\006\112\135\237\255\273\033\137\164
```

END

CKA\_NSS\_Mozilla\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "COMODO RSA Certification Authority"

# Issuer: CN=COMODO RSA Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB

# Serial Number:4c:aa:f9:ca:db:63:6f:e0:1f:f7:4e:d8:5b:03:86:9d

# Subject: CN=COMODO RSA Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB

# Not Valid Before: Tue Jan 19 00:00:00 2010

# Not Valid After : Mon Jan 18 23:59:59 2038

# Fingerprint (SHA-256):

52:F0:E1:C4:E5:8E:C6:29:29:1B:60:31:7F:07:46:71:B8:5D:7E:A8:0D:5B:07:27:34:63:53:4B:32:B4:02:34

#

Fingerprint (SHA1): AF:E5:D2:44:A8:D1:19:42:30:FF:47:9F:E2:F8:97:BB:CD:7A:8C:B4

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "COMODO RSA Certification Authority"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

```
\257\345\322\104\250\321\031\102\060\377\107\237\342\370\227\273
\315\172\214\264
```

END

CKA\_CERT\_MD5\_HASH MULTILINE\_OCTAL

```
\033\061\260\161\100\066\314\024\066\221\255\304\076\375\354\030
```

END

CKA\_ISSUER MULTILINE\_OCTAL

```
\060\201\205\061\013\060\011\006\003\125\004\006\023\002\107\102
\061\033\060\031\006\003\125\004\010\023\022\107\162\145\141\164
\145\162\040\115\141\156\143\150\145\163\164\145\162\061\020\060
\016\006\003\125\004\007\023\007\123\141\154\146\157\162\144\061
\032\060\030\006\003\125\004\012\023\021\103\117\115\117\104\117
\040\103\101\040\114\151\155\151\164\145\144\061\053\060\051\006
\003\125\004\003\023\042\103\117\115\117\104\117\040\122\123\101
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171
```

END

```

CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\020\114\252\371\312\333\143\157\340\037\367\116\330\133\003
\206\235
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "USERTrust RSA Certification Authority"
#
Issuer: CN=USERTrust RSA Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New
Jersey,C=US
Serial Number:01:fd:6d:30:fc:a3:ca:51:a8:1b:bc:64:0e:35:03:2d
Subject: CN=USERTrust RSA Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New
Jersey,C=US
Not Valid Before: Mon Feb 01 00:00:00 2010
Not Valid After : Mon Jan 18 23:59:59 2038
Fingerprint (SHA-256):
E7:93:C9:B0:2F:D8:AA:13:E2:1C:31:22:8A:CC:B0:81:19:64:3B:74:9C:89:89:64:B1:74:6D:46:C3:D4:CB:D2
Fingerprint (SHA1): 2B:8F:1B:57:33:0D:BB:A2:D0:7A:6C:51:F7:0E:E9:0D:DA:B9:AD:8E
CKA_CLASS
CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "USERTrust RSA Certification Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\210\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\023\060\021\006\003\125\004\010\023\012\116\145\167\040\112
\145\162\163\145\171\061\024\060\022\006\003\125\004\007\023\013
\112\145\162\163\145\171\040\103\151\164\171\061\036\060\034\006
\003\125\004\012\023\025\124\150\145\040\125\123\105\122\124\122
\125\123\124\040\116\145\164\167\157\162\153\061\056\060\054\006
\003\125\004\003\023\045\125\123\105\122\124\162\165\163\164\040
\122\123\101\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\210\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\023\060\021\006\003\125\004\010\023\012\116\145\167\040\112
\145\162\163\145\171\061\024\060\022\006\003\125\004\007\023\013
\112\145\162\163\145\171\040\103\151\164\171\061\036\060\034\006
\003\125\004\012\023\025\124\150\145\040\125\123\105\122\124\122

```

\125\123\124\040\116\145\164\167\157\162\153\061\056\060\054\006  
\003\125\004\003\023\045\125\123\105\122\124\162\165\163\164\040  
\122\123\101\040\103\145\162\164\151\146\151\143\141\164\151\157  
\156\040\101\165\164\150\157\162\151\164\171

END

CKA\_SERIAL\_NUMBER

MULTILINE\_OCTAL

\002\020\001\375\155\060\374\243\312\121\250\033\274\144\016\065  
\003\055

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\005\336\060\202\003\306\240\003\002\001\002\002\020\001  
\375\155\060\374\243\312\121\250\033\274\144\016\065\003\055\060  
\015\006\011\052\206\110\206\367\015\001\001\014\005\000\060\201  
\210\061\013\060\011\006\003\125\004\006\023\002\125\123\061\023  
\060\021\006\003\125\004\010\023\012\116\145\167\040\112\145\162  
\163\145\171\061\024\060\022\006\003\125\004\007\023\013\112\145  
\162\163\145\171\040\103\151\164\171\061\036\060\034\006\003\125  
\004\012\023\025\124\150\145\040\125\123\105\122\124\122\125\123  
\124\040\116\145\164\167\157\162\153\061\056\060\054\006\003\125  
\004\003\023\045\125\123\105\122\124\162\165\163\164\040\122\123  
\101\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040  
\101\165\164\150\157\162\151\164\171\060\036\027\015\061\060\060  
\062\060\061\060\060\060\060\060\060\132\027\015\063\070\060\061  
\061\070\062\063\065\071\065\071\132\060\201\210\061\013\060\011  
\006\003\125\004\006\023\002\125\123\061\023\060\021\006\003\125  
\004\010\023\012\116\145\167\040\112\145\162\163\145\171\061\024  
\060\022\006\003\125\004\007\023\013\112\145\162\163\145\171\040  
\103\151\164\171\061\036\060\034\006\003\125\004\012\023\025\124  
\150\145\040\125\123\105\122\124\122\125\123\124\040\116\145\164  
\167\157\162\153\061\056\060\054\006\003\125\004\003\023\045\125  
\123\105\122\124\162\165\163\164\040\122\123\101\040\103\145\162  
\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157  
\162\151\164\171\060\202\002\042\060\015\006\011\052\206\110\206  
\367\015\001\001\001\005\000\003\202\002\017\000\060\202\002\012  
\002\202\002\001\000\200\022\145\027\066\016\303\333\010\263\320  
\254\127\015\166\355\315\047\323\114\255\120\203\141\342\252\040  
\115\011\055\144\011\334\316\211\237\314\075\251\354\366\317\301  
\334\361\323\261\326\173\067\050\021\053\107\332\071\306\274\072  
\031\264\137\246\275\175\235\243\143\102\266\166\362\251\073\053  
\221\370\342\157\320\354\026\040\220\011\076\342\350\164\311\030  
\264\221\324\142\144\333\177\243\006\361\210\030\152\220\042\074  
\274\376\023\360\207\024\173\366\344\037\216\324\344\121\306\021  
\147\106\010\121\313\206\024\124\077\274\063\376\176\154\234\377  
\026\235\030\275\121\216\065\246\247\146\310\162\147\333\041\146  
\261\324\233\170\003\300\120\072\350\314\360\334\274\236\114\376  
\257\005\226\065\037\127\132\267\377\316\371\075\267\054\266\366  
\124\335\310\347\022\072\115\256\114\212\267\134\232\264\267\040

\075\312\177\042\064\256\176\073\150\146\001\104\347\001\116\106  
\123\233\063\140\367\224\276\123\067\220\163\103\363\062\303\123  
\357\333\252\376\164\116\151\307\153\214\140\223\336\304\307\014  
\337\341\062\256\314\223\073\121\170\225\147\213\356\075\126\376  
\014\320\151\017\033\017\363\045\046\153\063\155\367\156\107\372  
\163\103\345\176\016\245\146\261\051\174\062\204\143\125\211\304  
\015\301\223\124\060\031\023\254\323\175\067\247\353\135\072\154  
\065\134\333\101\327\022\332\251\111\013\337\330\200\212\011\223  
\142\216\265\146\317\045\210\315\204\270\261\077\244\071\017\331  
\002\236\353\022\114\225\174\363\153\005\251\136\026\203\314\270  
\147\342\350\023\235\314\133\202\323\114\263\355\133\377\336\345  
\163\254\043\073\055\000\277\065\125\164\011\111\330\111\130\032  
\177\222\066\346\121\222\016\363\046\175\034\115\027\274\311\354  
\103\046\320\277\101\137\100\251\104\104\364\231\347\127\207\236  
\120\037\127\124\250\076\375\164\143\057\261\120\145\011\346\130  
\102\056\103\032\114\264\360\045\107\131\372\004\036\223\324\046  
\106\112\120\201\262\336\276\170\267\374\147\025\341\311\127\204  
\036\017\143\326\351\142\272\326\137\125\056\352\134\306\050\010  
\004\045\071\270\016\053\251\362\114\227\034\007\077\015\122\365  
\355\357\057\202\017\002\003\001\000\001\243\102\060\100\060\035  
\006\003\125\035\016\004\026\004\024\123\171\277\132\252\053\112  
\317\124\200\341\330\233\300\235\362\262\003\146\313\060\016\006  
\003\125\035\017\001\001\377\004\004\003\002\001\006\060\017\006  
\003\125\035\023\001\001\377\004\005\060\003\001\001\377\060\015  
\006\011\052\206\110\206\367\015\001\001\014\005\000\003\202\002  
\001\000\134\324\174\015\317\367\001\175\101\231\145\014\163\305  
\122\237\313\370\317\231\006\177\033\332\103\025\237\236\002\125  
\127\226\024\361\122\074\047\207\224\050\355\037\072\001\067\242  
\166\374\123\120\300\204\233\306\153\116\272\214\041\117\242\216  
\125\142\221\363\151\025\330\274\210\343\304\252\013\375\357\250  
\351\113\125\052\006\040\155\125\170\051\031\356\137\060\134\113  
\044\021\125\377\044\232\156\136\052\053\356\013\115\237\177\367  
\001\070\224\024\225\103\007\011\373\140\251\356\034\253\022\214  
\240\232\136\247\230\152\131\155\213\077\010\373\310\321\105\257  
\030\025\144\220\022\017\163\050\056\305\342\044\116\374\130\354  
\360\364\105\376\042\263\353\057\216\322\331\105\141\005\301\227  
\157\250\166\162\217\213\214\066\257\277\015\005\316\161\215\346  
\246\157\037\154\246\161\142\305\330\320\203\162\014\361\147\021  
\211\014\234\023\114\162\064\337\274\325\161\337\252\161\335\341  
\271\154\214\074\022\135\145\332\275\127\022\266\103\153\377\345  
\336\115\146\021\121\317\231\256\354\027\266\350\161\221\214\336  
\111\376\335\065\161\242\025\047\224\034\317\141\343\046\273\157  
\243\147\045\041\135\346\335\035\013\056\150\033\073\202\257\354  
\203\147\205\324\230\121\164\261\271\231\200\211\377\177\170\031  
\134\171\112\140\056\222\100\256\114\067\052\054\311\307\142\310  
\016\135\367\066\133\312\340\045\045\001\264\335\032\007\234\167  
\000\077\320\334\325\354\075\324\372\273\077\314\205\326\157\177  
\251\055\337\271\002\367\365\227\232\265\065\332\303\147\260\207

```
\112\251\050\236\043\216\377\134\047\153\341\260\117\363\007\356
\000\056\324\131\207\313\122\101\225\352\364\107\327\356\144\101
\125\174\215\131\002\225\335\142\235\302\271\356\132\050\164\204
\245\233\267\220\307\014\007\337\365\211\066\164\062\326\050\301
\260\260\013\340\234\114\303\034\326\374\343\151\265\107\106\201
\057\242\202\253\323\143\104\160\304\215\377\055\063\272\255\217
\173\265\160\210\256\076\031\317\100\050\330\374\310\220\273\135
\231\042\365\122\346\130\305\037\210\061\103\356\210\035\327\306
\216\074\103\152\035\247\030\336\175\075\026\361\142\371\312\220
\250\375
```

END

CKA\_NSS\_MOZILLA\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "USERTrust RSA Certification Authority"

# Issuer: CN=USERTrust RSA Certification Authority,O=The USERTRUST

Network,L=Jersey City,ST=New Jersey,C=US

# Serial Number:01:fd:6d:30:fc:a3:ca:51:a8:1b:bc:64:0e:35:03:2d

# Subject: CN=USERTrust RSA Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New Jersey,C=US

# Not Valid Before: Mon Feb 01 00:00:00 2010

# Not Valid After : Mon Jan 18 23:59:59 2038

# Fingerprint (SHA-256):

E7:93:C9:B0:2F:D8:AA:13:E2:1C:31:22:8A:CC:B0:81:19:64:3B:74:9C:89:89:64:B1:74:6D:46:C3:D4:CB:D2

# Fingerprint (SHA1): 2B:8F:1B:57:33:0D:BB:A2:D0:7A:6C:51:F7:0E:E9:0D:DA:B9:AD:8E

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "USERTrust RSA Certification Authority"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

```
\053\217\033\127\063\015\273\242\320\172\154\121\367\016\351\015
\332\271\255\216
```

END

CKA\_CERT\_MD5\_HASH MULTILINE\_OCTAL

```
\033\376\151\321\221\267\031\063\243\162\250\017\341\125\345\265
```

END

CKA\_ISSUER MULTILINE\_OCTAL

```
\060\201\210\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\023\060\021\006\003\125\004\010\023\012\116\145\167\040\112
\145\162\163\145\171\061\024\060\022\006\003\125\004\007\023\013
\112\145\162\163\145\171\040\103\151\164\171\061\036\060\034\006
\003\125\004\012\023\025\124\150\145\040\125\123\105\122\124\122
\125\123\124\040\116\145\164\167\157\162\153\061\056\060\054\006
\003\125\004\003\023\045\125\123\105\122\124\162\165\163\164\040
\122\123\101\040\103\145\162\164\151\146\151\143\141\164\151\157
```

```

\156\040\101\165\164\150\157\162\151\164\171
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\020\001\375\155\060\374\243\312\121\250\033\274\144\016\065
\003\055
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "USERTrust ECC Certification Authority"
#
Issuer: CN=USERTrust ECC Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New
Jersey,C=US
Serial Number:5c:8b:99:c5:5a:94:c5:d2:71:56:de:cd:89:80:cc:26
Subject: CN=USERTrust ECC Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New
Jersey,C=US
Not Valid Before: Mon Feb 01 00:00:00 2010
Not Valid After : Mon Jan 18 23:59:59 2038
Fingerprint (SHA-256):
4F:F4:60:D5:4B:9C:86:DA:BF:BC:FC:57:12:E0:40:0D:2B:ED:3F:BC:4D:4F:BD:AA:86:E0:6A:DC:D2:A9:AD:7A
Fingerprint (SHA1): D1:CB:CA:5D:B2:D5:2A:7F:69:3B:67:4D:E5:F0:5A:1D:0C:95:7D:F0
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "USERTrust ECC Certification Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\210\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\023\060\021\006\003\125\004\010\023\012\116\145\167\040\112
\145\162\163\145\171\061\024\060\022\006\003\125\004\007\023\013
\112\145\162\163\145\171\040\103\151\164\171\061\036\060\034\006
\003\125\004\012\023\025\124\150\145\040\125\123\105\122\124\122
\125\123\124\040\116\145\164\167\157\162\153\061\056\060\054\006
\003\125\004\003\023\045\125\123\105\122\124\162\165\163\164\040
\105\103\103\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171
END
CKA_ID
UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\210\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\023\060\021\006\003\125\004\010\023\012\116\145\167\040\112
\145\162\163\145\171\061\024\060\022\006\003\125\004\007\023\013

```

\112\145\162\163\145\171\040\103\151\164\171\061\036\060\034\006  
\003\125\004\012\023\025\124\150\145\040\125\123\105\122\124\122  
\125\123\124\040\116\145\164\167\157\162\153\061\056\060\054\006  
\003\125\004\003\023\045\125\123\105\122\124\162\165\163\164\040  
\105\103\103\040\103\145\162\164\151\146\151\143\141\164\151\157  
\156\040\101\165\164\150\157\162\151\164\171

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

\002\020\134\213\231\305\132\224\305\322\161\126\336\315\211\200  
\314\046

END

CKA\_VALUE

MULTILINE\_OCTAL

\060\202\002\217\060\202\002\025\240\003\002\001\002\002\020\134  
\213\231\305\132\224\305\322\161\126\336\315\211\200\314\046\060  
\012\006\010\052\206\110\316\075\004\003\003\060\201\210\061\013  
\060\011\006\003\125\004\006\023\002\125\123\061\023\060\021\006  
\003\125\004\010\023\012\116\145\167\040\112\145\162\163\145\171  
\061\024\060\022\006\003\125\004\007\023\013\112\145\162\163\145  
\171\040\103\151\164\171\061\036\060\034\006\003\125\004\012\023  
\025\124\150\145\040\125\123\105\122\124\122\125\123\124\040\116  
\145\164\167\157\162\153\061\056\060\054\006\003\125\004\003\023  
\045\125\123\105\122\124\162\165\163\164\040\105\103\103\040\103  
\145\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164  
\150\157\162\151\164\171\060\036\027\015\061\060\060\062\060\061  
\060\060\060\060\060\060\132\027\015\063\070\060\061\061\070\062  
\063\065\071\065\071\132\060\201\210\061\013\060\011\006\003\125  
\004\006\023\002\125\123\061\023\060\021\006\003\125\004\010\023  
\012\116\145\167\040\112\145\162\163\145\171\061\024\060\022\006  
\003\125\004\007\023\013\112\145\162\163\145\171\040\103\151\164  
\171\061\036\060\034\006\003\125\004\012\023\025\124\150\145\040  
\125\123\105\122\124\122\125\123\124\040\116\145\164\167\157\162  
\153\061\056\060\054\006\003\125\004\003\023\045\125\123\105\122  
\124\162\165\163\164\040\105\103\103\040\103\145\162\164\151\146  
\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164  
\171\060\166\060\020\006\007\052\206\110\316\075\002\001\006\005  
\053\201\004\000\042\003\142\000\004\032\254\124\132\251\371\150  
\043\347\172\325\044\157\123\306\132\330\113\253\306\325\266\321  
\346\163\161\256\335\234\326\014\141\375\333\240\211\003\270\005  
\024\354\127\316\356\135\077\342\041\263\316\367\324\212\171\340  
\243\203\176\055\227\320\141\304\361\231\334\045\221\143\253\177  
\060\243\264\160\342\307\241\063\234\363\277\056\134\123\261\137  
\263\175\062\177\212\064\343\171\171\243\102\060\100\060\035\006  
\003\125\035\016\004\026\004\024\072\341\011\206\324\317\031\302  
\226\166\164\111\166\334\340\065\306\143\143\232\060\016\006\003  
\125\035\017\001\001\377\004\004\003\002\001\006\060\017\006\003  
\125\035\023\001\001\377\004\005\060\003\001\001\377\060\012\006  
\010\052\206\110\316\075\004\003\003\003\150\000\060\145\002\060



```
\066\147\241\026\010\334\344\227\000\101\035\116\276\341\143\001
\317\073\252\102\021\144\240\235\224\071\002\021\171\134\173\035
\372\144\271\356\026\102\263\277\212\302\011\304\354\344\261\115
\002\061\000\351\052\141\107\214\122\112\113\116\030\160\366\326
\104\326\156\365\203\272\155\130\275\044\331\126\110\352\357\304
\242\106\201\210\152\072\106\321\251\233\115\311\141\332\321\135
\127\152\030
```

END

CKA\_NSS\_MOZILLA\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "USERTrust ECC Certification Authority"

# Issuer: CN=USERTrust ECC Certification Authority,O=The

USERTRUST Network,L=Jersey City,ST=New Jersey,C=US

# Serial Number:5c:8b:99:c5:5a:94:c5:d2:71:56:de:cd:89:80:cc:26

# Subject: CN=USERTrust ECC Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New Jersey,C=US

# Not Valid Before: Mon Feb 01 00:00:00 2010

# Not Valid After : Mon Jan 18 23:59:59 2038

# Fingerprint (SHA-256):

4F:F4:60:D5:4B:9C:86:DA:BF:BC:FC:57:12:E0:40:0D:2B:ED:3F:BC:4D:4F:BD:AA:86:E0:6A:DC:D2:A9:AD:7A

# Fingerprint (SHA1): D1:CB:CA:5D:B2:D5:2A:7F:69:3B:67:4D:E5:F0:5A:1D:0C:95:7D:F0

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "USERTrust ECC Certification Authority"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

```
\321\313\312\135\262\325\052\177\151\073\147\115\345\360\132\035
\014\225\175\360
```

END

CKA\_CERT\_MD5\_HASH MULTILINE\_OCTAL

```
\372\150\274\331\265\177\255\375\311\035\006\203\050\314\044\301
```

END

CKA\_ISSUER MULTILINE\_OCTAL

```
\060\201\210\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\023\060\021\006\003\125\004\010\023\012\116\145\167\040\112
\145\162\163\145\171\061\024\060\022\006\003\125\004\007\023\013
\112\145\162\163\145\171\040\103\151\164\171\061\036\060\034\006
\003\125\004\012\023\025\124\150\145\040\125\123\105\122\124\122
\125\123\124\040\116\145\164\167\157\162\153\061\056\060\054\006
\003\125\004\003\023\045\125\123\105\122\124\162\165\163\164\040
\105\103\103\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171
```

END

CKA\_SERIAL\_NUMBER

```

MULTILINE_OCTAL
\002\020\134\213\231\305\132\224\305\322\161\126\336\315\211\200
\314\046
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "GlobalSign ECC Root CA - R5"
#
Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R5
Serial Number:60:59:49:e0:26:2e:bb:55:f9:0a:77:8a:71:f9:4a:d8:6c
#
Subject: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R5
Not Valid Before: Tue Nov 13 00:00:00 2012
Not Valid After : Tue Jan 19 03:14:07 2038
Fingerprint (SHA-256):
17:9F:BC:14:8A:3D:D0:0F:D2:4E:A1:34:58:CC:43:BF:A7:F5:9C:81:82:D7:83:A5:13:F6:EB:EC:10:0C:89:24
Fingerprint (SHA1): 1F:24:C6:30:CD:A4:18:EF:20:69:FF:AD:4F:DD:5F:46:3A:1B:69:AA
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign ECC Root CA - R5"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\120\061\044\060\042\006\003\125\004\013\023\033\107\154\157
\142\141\154\123\151\147\156\040\105\103\103\040\122\157\157\164
\040\103\101\040\055\040\122\065\061\023\060\021\006\003\125\004
\012\023\012\107\154\157\142\141\154\123\151\147\156\061\023\060
\021\006\003\125\004\003\023\012\107\154\157\142\141\154\123\151
\147\156
END
CKA_ID
UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\120\061\044\060\042\006\003\125\004\013\023\033\107\154\157
\142\141\154\123\151\147\156\040\105\103\103\040\122\157\157\164
\040\103\101\040\055\040\122\065\061\023\060\021\006\003\125\004
\012\023\012\107\154\157\142\141\154\123\151\147\156\061\023\060
\021\006\003\125\004\003\023\012\107\154\157\142\141\154\123\151
\147\156
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\021\140\131\111\340\046\056\273\125\371\012\167\212\161\371
\112\330\154

```

END

CKA\_VALUE MULTILINE\_OCTAL

```
\060\202\002\036\060\202\001\244\240\003\002\001\002\002\021\140
\131\111\340\046\056\273\125\371\012\167\212\161\371\112\330\154
\060\012\006\010\052\206\110\316\075\004\003\003\060\120\061\044
\060\042\006\003\125\004\013\023\033\107\154\157\142\141\154\123
\151\147\156\040\105\103\103\040\122\157\157\164\040\103\101\040
\055\040\122\065\061\023\060\021\006\003\125\004\012\023\012\107
\154\157\142\141\154\123\151\147\156\061\023\060\021\006\003\125
\004\003\023\012\107\154\157\142\141\154\123\151\147\156\060\036
\027\015\061\062\061\061\061\063\060\060\060\060\060\132\027
\015\063\070\060\061\061\071\060\063\061\064\060\067\132\060\120
\061\044\060\042\006\003\125\004\013\023\033\107\154\157\142\141
\154\123\151\147\156\040\105\103\103\040\122\157\157\164\040\103
\101\040\055\040\122\065\061\023\060\021\006\003\125\004\012\023
\012\107\154\157\142\141\154\123\151\147\156\061\023\060\021\006
\003\125\004\003\023\012\107\154\157\142\141\154\123\151\147\156
\060\166\060\020\006\007\052\206\110\316\075\002\001\006\005\053
\201\004\000\042\003\142\000\004\107\105\016\226\373\175\135\277
\351\071\321\041\370\237\013\266\325\173\036\222\072\110\131\034
\360\142\061\055\300\172\050\376\032\247\134\263\266\314\227\347
\105\324\130\372\321\167\155\103\242\300\207\145\064\012\037\172
\335\353\074\063\241\305\235\115\244\157\101\225\070\177\311\036
\204\353\321\236\111\222\207\224\207\014\072\205\112\146\237\235
\131\223\115\227\141\006\206\112\243\102\060\100\060\016\006\003
\125\035\017\001\001\377\004\004\003\002\001\006\060\017\006\003
\125\035\023\001\001\377\004\005\060\003\001\001\377\060\035\006
\003\125\035\016\004\026\004\024\075\346\051\110\233\352\007\312
\041\104\112\046\336\156\336\322\203\320\237\131\060\012\006\010
\052\206\110\316\075\004\003\003\003\150\000\060\145\002\061\000
\345\151\022\311\156\333\306\061\272\011\101\341\227\370\373\375
\232\342\175\022\311\355\174\144\323\313\005\045\213\126\331\240
\347\136\135\116\013\203\234\133\166\051\240\011\046\041\152\142
\002\060\161\322\265\217\134\352\073\341\170\011\205\250\165\222
\073\310\134\375\110\357\015\164\042\250\010\342\156\305\111\316
\307\014\274\247\141\151\361\367\073\341\052\313\371\053\363\146
\220\067
```

END

CKA\_NSS\_MOZILLA\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRUST\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRUST\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "GlobalSign ECC Root CA - R5"

# Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R5

# Serial

Number:60:59:49:e0:26:2e:bb:55:f9:0a:77:8a:71:f9:4a:d8:6c

# Subject: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R5

```

Not Valid Before: Tue Nov 13 00:00:00 2012
Not Valid After : Tue Jan 19 03:14:07 2038
Fingerprint (SHA-256):
17:9F:BC:14:8A:3D:D0:0F:D2:4E:A1:34:58:CC:43:BF:A7:F5:9C:81:82:D7:83:A5:13:F6:EB:EC:10:0C:89:24
Fingerprint (SHA1): 1F:24:C6:30:CD:A4:18:EF:20:69:FF:AD:4F:DD:5F:46:3A:1B:69:AA
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign ECC Root CA - R5"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\037\044\306\060\315\244\030\357\040\151\377\255\117\335\137\106
\072\033\151\252
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\237\255\073\034\002\036\212\272\027\164\070\201\014\242\274\010
END
CKA_ISSUER MULTILINE_OCTAL
\060\120\061\044\060\042\006\003\125\004\013\023\033\107\154\157
\142\141\154\123\151\147\156\040\105\103\103\040\122\157\157\164
\040\103\101\040\055\040\122\065\061\023\060\021\006\003\125\004
\012\023\012\107\154\157\142\141\154\123\151\147\156\061\023\060
\021\006\003\125\004\003\023\012\107\154\157\142\141\154\123\151
\147\156
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\021\140\131\111\340\046\056\273\125\371\012\167\212\161\371
\112\330\154
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Staat der Nederlanden Root CA - G3"
#
Issuer: CN=Staat der Nederlanden Root CA - G3,O=Staat der Nederlanden,C=NL
Serial Number: 10003001 (0x98a239)
Subject: CN=Staat der Nederlanden Root CA - G3,O=Staat der Nederlanden,C=NL
Not Valid Before: Thu Nov 14 11:28:42 2013
Not Valid After : Mon Nov 13 23:00:00 2028
Fingerprint (SHA-256):
3C:4F:B0:B9:5A:B8:B3:00:32:F4:32:B8:6F:53:5F:E1:72:C1:85:D0:FD:39:86:58:37:CF:36:18:7F:A6:F4:28
Fingerprint (SHA1):
D8:EB:6B:41:51:92:59:E0:F3:E7:85:00:C0:3D:B6:88:97:C9:EE:FC
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

```

```
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Staat der Nederlanden Root CA - G3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\132\061\013\060\011\006\003\125\004\006\023\002\116\114\061
\036\060\034\006\003\125\004\012\014\025\123\164\141\141\164\040
\144\145\162\040\116\145\144\145\162\154\141\156\144\145\156\061
\053\060\051\006\003\125\004\003\014\042\123\164\141\141\164\040
\144\145\162\040\116\145\144\145\162\154\141\156\144\145\156\040
\122\157\157\164\040\103\101\040\055\040\107\063
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\132\061\013\060\011\006\003\125\004\006\023\002\116\114\061
\036\060\034\006\003\125\004\012\014\025\123\164\141\141\164\040
\144\145\162\040\116\145\144\145\162\154\141\156\144\145\156\061
\053\060\051\006\003\125\004\003\014\042\123\164\141\141\164\040
\144\145\162\040\116\145\144\145\162\154\141\156\144\145\156\040
\122\157\157\164\040\103\101\040\055\040\107\063
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\004\000\230\242\071
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\164\060\202\003\134\240\003\002\001\002\002\004\000
\230\242\071\060\015\006\011\052\206\110\206\367\015\001\001\013
\005\000\060\132\061\013\060\011\006\003\125\004\006\023\002\116
\114\061\036\060\034\006\003\125\004\012\014\025\123\164\141\141
\164\040\144\145\162\040\116\145\144\145\162\154\141\156\144\145
\156\061\053\060\051\006\003\125\004\003\014\042\123\164\141\141
\164\040\144\145\162\040\116\145\144\145\162\154\141\156\144\145
\156\040\122\157\157\164\040\103\101\040\055\040\107\063\060\036
\027\015\061\063\061\061\061\064\061\061\062\070\064\062\132\027
\015\062\070\061\061\061\063\062\063\060\060\060\060\132\060\132
\061\013\060\011\006\003\125\004\006\023\002\116\114\061\036\060
\034\006\003\125\004\012\014\025\123\164\141\141\164\040\144\145
\162\040\116\145\144\145\162\154\141\156\144\145\156\061\053\060
\051\006\003\125\004\003\014\042\123\164\141\141\164\040\144\145
\162\040\116\145\144\145\162\154\141\156\144\145\156\040\122\157
\157\164\040\103\101\040\055\040\107\063\060\202\002\042\060\015
\006\011\052\206\110\206\367\015\001\001\001\005\000\003\202\002
\017\000\060\202\002\012\002\202\002\001\000\276\062\242\124\017
\160\373\054\134\131\353\154\304\244\121\350\205\052\263\314\112
\064\362\260\137\363\016\307\034\075\123\036\210\010\150\330\157
\075\255\302\236\314\202\147\007\047\207\150\161\072\237\165\226
```

|042|106|005|260|355|255|307|133|236|052|336|234|374|072|306|225  
|247|365|027|147|030|347|057|111|010|014|134|317|346|314|064|355  
|170|373|120|261|334|153|062|360|242|376|266|074|344|354|132|227  
|307|077|036|160|010|060|240|334|305|263|155|157|320|202|162|021  
|253|322|201|150|131|202|027|267|170|222|140|372|314|336|077|204  
|353|215|070|063|220|012|162|043|372|065|314|046|161|061|321|162  
|050|222|331|133|043|155|146|265|155|007|102|353|246|063|316|222  
|333|300|366|154|143|170|315|312|116|075|265|345|122|233|361|276  
|073|346|124|140|260|146|036|011|253|007|376|124|211|021|102|321  
|367|044|272|140|170|032|230|367|311|021|375|026|301|065|032|124  
|165|357|103|323|345|256|116|316|347|173|303|306|116|141|121|113  
|253|232|105|113|241|037|101|275|110|123|025|161|144|013|206|263  
|345|056|276|316|244|033|301|051|204|242|265|313|010|043|166|103  
|042|044|037|027|004|324|156|234|306|374|177|053|146|032|354|212  
|345|326|317|115|365|143|011|267|025|071|326|173|254|353|343|174  
|351|116|374|165|102|310|355|130|225|014|006|102|242|234|367|344  
|160|263|337|162|157|132|067|100|211|330|205|244|327|361|013|336  
|103|031|324|112|130|054|214|212|071|236|277|204|207|361|026|073  
|066|014|351|323|264|312|154|031|101|122|011|241|035|260|152|277  
|202|357|160|121|041|062|334|005|166|214|313|367|144|344|003|120  
|257|214|221|147|253|305|362|356|130|330|336|276|367|347|061|317  
|154|311|073|161|301|325|210|265|145|274|300|350|027|027|007|022  
|265|134|322|253|040|223|264|346|202|203|160|066|305|315|243|215  
|255|213|354|243|301|103|207|346|103|342|064|276|225|213|065|355  
|007|071|332|250|035|172|237|066|236|022|260|014|145|022|220|025  
|140|331|046|100|104|343|126|140|245|020|324|152|074|375|101|334  
|016|132|107|266|357|227|141|165|117|331|376|307|262|035|324|355  
|135|111|263|251|152|313|146|204|023|325|134|240|334|337|156|167  
|006|321|161|165|310|127|157|257|017|167|133|002|003|001|000|001  
|243|102|060|100|060|017|006|003|125|035|023|001|001|377|004|005  
|060|003|001|001|377|060|016|006|003|125|035|017|001|001|377|004  
|004|003|002|001|006|060|035|006|003|125|035|016|004|026|004|024  
|124|255|372|307|222|127|256|312|065|234|056|022|373|344|272|135  
|040|334|224|127|060|015|006|011|052|206|110|206|367|015|001|001  
|013|005|000|003|202|002|001|000|060|231|235|005|062|310|136|016  
|073|230|001|072|212|244|347|007|367|172|370|347|232|337|120|103  
|123|227|052|075|312|074|107|230|056|341|025|173|361|222|363|141  
|332|220|045|026|145|300|237|124|135|016|003|073|133|167|002|234  
|204|266|015|230|137|064|335|073|143|302|303|050|201|302|234|051  
|056|051|342|310|303|001|362|063|352|052|252|314|011|010|367|145  
|147|306|315|337|323|266|053|247|275|314|321|016|160|137|270|043  
|321|313|221|116|012|364|310|172|345|331|143|066|301|324|337|374  
|042|227|367|140|135|352|051|057|130|262|275|130|275|215|226|117  
|020|165|277|110|173|075|121|207|241|074|164|042|302|374|007|177  
|200|334|304|254|376|152|301|160|060|260|351|216|151|342|054|151  
|201|224|011|272|335|376|115|300|203|214|224|130|300|106|040|257  
|234|037|002|370|065|125|111|057|106|324|300|360|240|226|002|017  
|063|305|161|363|236|043|175|224|267|375|072|323|011|203|006|041

```
\375\140\075\256\062\300\322\356\215\246\360\347\264\202\174\012
\314\160\311\171\200\370\376\114\367\065\204\031\212\061\373\012
\331\327\177\233\360\242\232\153\303\005\112\355\101\140\024\060
\321\252\021\102\156\323\043\002\004\013\306\145\335\335\122\167
\332\201\153\262\250\372\001\070\271\226\352\052\154\147\227\211
\224\236\274\341\124\325\344\152\170\357\112\275\053\232\075\100
\176\306\300\165\322\156\373\150\060\354\354\213\235\371\111\065
\232\032\054\331\263\225\071\325\036\222\367\246\271\145\057\345
\075\155\072\110\114\010\334\344\050\022\050\276\175\065\134\352
\340\026\176\023\033\152\327\076\327\236\374\055\165\262\301\024
\325\043\003\333\133\157\013\076\170\057\015\336\063\215\026\267
\110\347\203\232\201\017\173\301\103\115\125\004\027\070\112\121
\325\131\242\211\164\323\237\276\036\113\327\306\155\267\210\044
\157\140\221\244\202\205\133\126\101\274\320\104\253\152\023\276
\321\054\130\267\022\063\130\262\067\143\334\023\365\224\035\077
\100\121\365\117\365\072\355\310\305\353\302\036\035\026\225\172
\307\176\102\161\223\156\113\025\267\060\337\252\355\127\205\110
\254\035\152\335\071\151\344\341\171\170\276\316\005\277\241\014
\367\200\173\041\147\047\060\131
```

END

CKA\_NSS\_MOZILLA\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER

CK\_BBOOL CK\_FALSE

# Trust for "Staat der Nederlanden Root CA - G3"

# Issuer: CN=Staat der Nederlanden Root CA - G3,O=Staat der Nederlanden,C=NL

# Serial Number: 10003001 (0x98a239)

# Subject: CN=Staat der Nederlanden Root CA - G3,O=Staat der Nederlanden,C=NL

# Not Valid Before: Thu Nov 14 11:28:42 2013

# Not Valid After : Mon Nov 13 23:00:00 2028

# Fingerprint (SHA-256):

3C:4F:B0:B9:5A:B8:B3:00:32:F4:32:B8:6F:53:5F:E1:72:C1:85:D0:FD:39:86:58:37:CF:36:18:7F:A6:F4:28

# Fingerprint (SHA1): D8:EB:6B:41:51:92:59:E0:F3:E7:85:00:C0:3D:B6:88:97:C9:EE:FC

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "Staat der Nederlanden Root CA - G3"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

```
\330\353\153\101\121\222\131\340\363\347\205\000\300\075\266\210
\227\311\356\374
```

END

CKA\_CERT\_MD5\_HASH MULTILINE\_OCTAL

```
\013\106\147\007\333\020\057\031\214\065\120\140\321\013\364\067
```

END

CKA\_ISSUER MULTILINE\_OCTAL

```

\060\132\061\013\060\011\006\003\125\004\006\023\002\116\114\061
\036\060\034\006\003\125\004\012\014\025\123\164\141\141\164\040
\144\145\162\040\116\145\144\145\162\154\141\156\144\145\156\061
\053\060\051\006\003\125\004\003\014\042\123\164\141\141\164\040
\144\145\162\040\116\145\144\145\162\154\141\156\144\145\156\040
\122\157\157\164\040\103\101\040\055\040\107\063
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\004\000\230\242\071
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Staat der Nederlanden EV Root CA"
#
Issuer: CN=Staat der Nederlanden EV Root CA,O=Staat der Nederlanden,C=NL
Serial Number: 10000013 (0x98968d)
Subject: CN=Staat der Nederlanden EV Root CA,O=Staat der Nederlanden,C=NL
Not Valid Before: Wed Dec 08 11:19:29 2010
Not Valid After : Thu Dec 08 11:10:28
2022
Fingerprint (SHA-256):
4D:24:91:41:4C:FE:95:67:46:EC:4C:EF:A6:CF:6F:72:E2:8A:13:29:43:2F:9D:8A:90:7A:C4:CB:5D:AD:C1:5A
Fingerprint (SHA1): 76:E2:7E:C1:4F:DB:82:C1:C0:A6:75:B5:05:BE:3D:29:B4:ED:DB:BB
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Staat der Nederlanden EV Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\130\061\013\060\011\006\003\125\004\006\023\002\116\114\061
\036\060\034\006\003\125\004\012\014\025\123\164\141\141\164\040
\144\145\162\040\116\145\144\145\162\154\141\156\144\145\156\061
\051\060\047\006\003\125\004\003\014\040\123\164\141\141\164\040
\144\145\162\040\116\145\144\145\162\154\141\156\144\145\156\040
\105\126\040\122\157\157\164\040\103\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\130\061\013\060\011\006\003\125\004\006\023\002\116\114\061
\036\060\034\006\003\125\004\012\014\025\123\164\141\141\164\040
\144\145\162\040\116\145\144\145\162\154\141\156\144\145\156\061
\051\060\047\006\003\125\004\003\014\040\123\164\141\141\164\040

```



\144\145\162\040\116\145\144\145\162\154\141\156\144\145\156\040  
\105\126\040\122\157\157\164\040\103\101  
END  
CKA\_SERIAL\_NUMBER  
MULTILINE\_OCTAL  
\002\004\000\230\226\215  
END  
CKA\_VALUE MULTILINE\_OCTAL  
\060\202\005\160\060\202\003\130\240\003\002\001\002\002\004\000  
\230\226\215\060\015\006\011\052\206\110\206\367\015\001\001\013  
\005\000\060\130\061\013\060\011\006\003\125\004\006\023\002\116  
\114\061\036\060\034\006\003\125\004\012\014\025\123\164\141\141  
\164\040\144\145\162\040\116\145\144\145\162\154\141\156\144\145  
\156\061\051\060\047\006\003\125\004\003\014\040\123\164\141\141  
\164\040\144\145\162\040\116\145\144\145\162\154\141\156\144\145  
\156\040\105\126\040\122\157\157\164\040\103\101\060\036\027\015  
\061\060\061\062\060\070\061\061\061\071\062\071\132\027\015\062  
\062\061\062\060\070\061\061\061\060\062\070\132\060\130\061\013  
\060\011\006\003\125\004\006\023\002\116\114\061\036\060\034\006  
\003\125\004\012\014\025\123\164\141\141\164\040\144\145\162\040  
\116\145\144\145\162\154\141\156\144\145\156\061\051\060\047\006  
\003\125\004\003\014\040\123\164\141\141\164\040\144\145\162\040  
\116\145\144\145\162\154\141\156\144\145\156\040\105\126\040\122  
\157\157\164\040\103\101\060\202\002\042\060\015\006\011\052\206  
\110\206\367\015\001\001\001\005\000\003\202\002\017\000\060\202  
\002\012\002\202\002\001\000\343\307\176\211\371\044\113\072\322  
\063\203\065\054\151\354\334\011\244\343\121\250\045\053\171\270  
\010\075\340\221\272\204\205\306\205\244\312\346\311\056\123\244  
\311\044\036\375\125\146\161\135\054\305\140\150\004\267\331\302  
\122\046\070\210\244\326\073\100\246\302\315\077\315\230\223\263  
\124\024\130\226\125\325\120\376\206\255\244\143\177\134\207\366  
\216\346\047\222\147\027\222\002\003\054\334\326\146\164\355\335  
\147\377\301\141\215\143\117\017\233\155\027\060\046\357\253\322  
\037\020\240\371\305\177\026\151\201\003\107\355\036\150\215\162  
\241\115\262\046\306\272\154\137\155\326\257\321\261\023\216\251  
\255\363\136\151\165\046\030\076\101\053\041\177\356\213\135\007  
\006\235\103\304\051\012\053\374\052\076\206\313\074\203\072\371  
\311\015\332\305\231\342\274\170\101\063\166\341\277\057\135\345  
\244\230\120\014\025\335\340\372\234\177\070\150\320\262\246\172  
\247\321\061\275\176\212\130\047\103\263\272\063\221\323\247\230  
\025\134\232\346\323\017\165\331\374\101\230\227\076\252\045\333  
\217\222\056\260\173\014\137\361\143\251\067\371\233\165\151\114  
\050\046\045\332\325\362\022\160\105\125\343\337\163\136\067\365  
\041\154\220\216\065\132\311\323\043\353\323\300\276\170\254\102  
\050\130\146\245\106\155\160\002\327\020\371\113\124\374\135\206  
\112\207\317\177\312\105\254\021\132\265\040\121\215\057\210\107  
\227\071\300\317\272\300\102\001\100\231\110\041\013\153\247\322  
\375\226\325\321\276\106\235\111\340\013\246\240\042\116\070\320

\301\074\060\274\160\217\054\165\314\320\305\214\121\073\075\224  
\010\144\046\141\175\271\303\145\217\024\234\041\320\252\375\027  
\162\003\217\275\233\214\346\136\123\236\271\235\357\202\273\341  
\274\342\162\101\133\041\224\323\105\067\224\321\337\011\071\135  
\347\043\252\232\035\312\155\250\012\206\205\212\202\276\102\007  
\326\362\070\202\163\332\207\133\345\074\323\236\076\247\073\236  
\364\003\263\371\361\175\023\164\002\377\273\241\345\372\000\171  
\034\246\146\101\210\134\140\127\246\056\011\304\272\375\232\317  
\247\037\100\303\273\314\132\012\125\113\073\070\166\121\270\143  
\213\204\224\026\346\126\363\002\003\001\000\001\243\102\060\100  
\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001  
\377\060\016\006\003\125\035\017\001\001\377\004\004\003\002\001  
\006\060\035\006\003\125\035\016\004\026\004\024\376\253\000\220  
\230\236\044\374\251\314\032\212\373\047\270\277\060\156\250\073  
\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\003  
\202\002\001\000\317\167\054\156\126\276\116\263\266\204\000\224  
\253\107\311\015\322\166\307\206\237\035\007\323\266\264\273\010  
\170\257\151\322\013\111\336\063\305\254\255\302\210\002\175\006  
\267\065\002\301\140\311\277\304\350\224\336\324\323\251\023\045  
\132\376\156\242\256\175\005\334\175\363\154\360\176\246\215\356  
\331\327\316\130\027\350\251\051\256\163\110\207\347\233\312\156  
\051\241\144\137\031\023\367\256\006\020\377\121\306\233\115\125  
\045\117\223\231\020\001\123\165\361\023\316\307\246\101\101\322  
\277\210\245\177\105\374\254\270\245\265\063\014\202\304\373\007  
\366\152\345\045\204\137\006\312\301\206\071\021\333\130\315\167  
\073\054\302\114\017\136\232\343\360\253\076\141\033\120\044\302  
\300\364\361\031\360\021\051\266\245\030\002\233\327\143\114\160  
\214\107\243\003\103\134\271\135\106\240\015\157\377\131\216\276  
\335\237\162\303\133\053\337\214\133\316\345\014\106\154\222\262  
\012\243\114\124\102\030\025\022\030\275\332\374\272\164\156\377  
\301\266\240\144\330\251\137\125\256\237\134\152\166\226\330\163  
\147\207\373\115\177\134\356\151\312\163\020\373\212\251\375\236  
\275\066\070\111\111\207\364\016\024\360\351\207\270\077\247\117  
\172\132\216\171\324\223\344\273\150\122\204\254\154\351\363\230  
\160\125\162\062\371\064\253\053\111\265\315\040\142\344\072\172  
\147\143\253\226\334\155\256\227\354\374\237\166\126\210\056\146  
\317\133\266\311\244\260\327\005\272\341\047\057\223\273\046\052  
\242\223\260\033\363\216\276\035\100\243\271\066\217\076\202\032  
\032\136\210\352\120\370\131\342\203\106\051\013\343\104\134\341  
\225\266\151\220\232\024\157\227\256\201\317\150\357\231\232\276  
\265\347\341\177\370\372\023\107\026\114\314\155\010\100\347\213  
\170\157\120\202\104\120\077\146\006\212\253\103\204\126\112\017  
\040\055\206\016\365\322\333\322\172\212\113\315\245\350\116\361  
\136\046\045\001\131\043\240\176\322\366\176\041\127\327\047\274  
\025\127\114\244\106\301\340\203\036\014\114\115\037\117\006\031  
\342\371\250\364\072\202\241\262\171\103\171\326\255\157\172\047  
\220\003\244\352\044\207\077\331\275\331\351\362\137\120\111\034  
\356\354\327\056

```

END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRICT_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRICT_AFTER CK_BBOOL CK_FALSE

Trust for "Staat der Nederlanden EV Root CA"
Issuer: CN=Staat der Nederlanden EV Root CA,O=Staat der Nederlanden,C=NL
Serial Number: 10000013 (0x98968d)
Subject: CN=Staat der Nederlanden EV Root CA,O=Staat der Nederlanden,C=NL
Not Valid Before: Wed Dec 08 11:19:29 2010
Not Valid After : Thu Dec 08 11:10:28 2022
Fingerprint (SHA-256):
4D:24:91:41:4C:FE:95:67:46:EC:4C:EF:A6:CF:6F:72:E2:8A:13:29:43:2F:9D:8A:90:7A:C4:CB:5D:AD:C1:5A
Fingerprint (SHA1): 76:E2:7E:C1:4F:DB:82:C1:C0:A6:75:B5:05:BE:3D:29:B4:ED:DB:BB
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Staat der Nederlanden EV Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\166\342\176\301\117\333\202\301\300\246\165\265\005\276\075\051
\264\355\333\273
END
CKA_CERT_MD5_HASH
MULTILINE_OCTAL
\374\006\257\173\350\032\361\232\264\350\322\160\037\300\365\272
END
CKA_ISSUER MULTILINE_OCTAL
\060\130\061\013\060\011\006\003\125\004\006\023\002\116\114\061
\036\060\034\006\003\125\004\012\014\025\123\164\141\141\164\040
\144\145\162\040\116\145\144\145\162\154\141\156\144\145\156\061
\051\060\047\006\003\125\004\003\014\040\123\164\141\141\164\040
\144\145\162\040\116\145\144\145\162\154\141\156\144\145\156\040
\105\126\040\122\157\157\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\000\230\226\215
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "IdenTrust Commercial Root CA 1"
#
Issuer: CN=IdenTrust Commercial Root CA 1,O=IdenTrust,C=US

```

```
Serial Number:0a:01:42:80:00:00:01:45:23:c8:44:b5:00:00:00:02
Subject: CN=IdenTrust Commercial Root CA 1,O=IdenTrust,C=US
#
Not Valid Before: Thu Jan 16 18:12:23 2014
Not Valid After : Mon Jan 16 18:12:23 2034
Fingerprint (SHA-256):
5D:56:49:9B:E4:D2:E0:8B:CF:CA:D0:8A:3E:38:72:3D:50:50:3B:DE:70:69:48:E4:2F:55:60:30:19:E5:28:AE
Fingerprint (SHA1): DF:71:7E:AA:4A:D9:4E:C9:55:84:99:60:2D:48:DE:5F:BC:F0:3A:25
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "IdenTrust Commercial Root CA 1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\112\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\022\060\020\006\003\125\004\012\023\011\111\144\145\156\124\162
\165\163\164\061\047\060\045\006\003\125\004\003\023\036\111\144
\145\156\124\162\165\163\164\040\103\157\155\155\145\162\143\151
\141\154\040\122\157\157\164\040\103\101\040\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\112\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\022\060\020\006\003\125\004\012\023\011\111\144\145\156\124\162
\165\163\164\061\047\060\045\006\003\125\004\003\023\036\111\144
\145\156\124\162\165\163\164\040\103\157\155\155\145\162\143\151
\141\154\040\122\157\157\164\040\103\101\040\061
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\020\012\001\102\200\000\000\001\105\043\310\104\265\000\000
\000\002
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\140\060\202\003\110\240\003\002\001\002\002\020\012
\001\102\200\000\000\001\105\043\310\104\265\000\000\000\002\060
\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060\112
\061\013\060\011\006\003\125\004\006\023\002\125\123\061\022\060
\020\006\003\125\004\012\023\011\111\144\145\156\124\162\165\163
\164\061\047\060\045\006\003\125\004\003\023\036\111\144\145\156
\124\162\165\163\164\040\103\157\155\155\145\162\143\151\141\154
\040\122\157\157\164\040\103\101\040\061\060\036\027\015\061\064
\060\061\061\066\061\070\061\062\062\063\132\027\015\063\064\060
\061\061\066\061\070\061\062\062\063\132\060\112\061\013\060\011
\006\003\125\004\006\023\002\125\123\061\022\060\020\006\003\125
\004\012\023\011\111\144\145\156\124\162\165\163\164\061\047\060
\045\006\003\125\004\003\023\036\111\144\145\156\124\162\165\163
```

\164\040\103\157\155\155\145\162\143\151\141\154\040\122\157\157  
\164\040\103\101\040\061\060\202\002\042\060\015\006\011\052\206  
\110\206\367\015\001\001\001\005\000\003\202\002\017\000\060\202  
\002\012\002\202\002\001\000\247\120\031\336\077\231\075\324\063  
\106\361\157\121\141\202\262\251\117\217\147\211\135\204\331\123  
\335\014\050\331\327\360\377\256\225\103\162\231\371\265\135\174  
\212\301\102\341\061\120\164\321\201\015\174\315\233\041\253\103  
\342\254\255\136\206\156\363\011\212\037\132\062\275\242\353\224  
\371\350\134\012\354\377\230\322\257\161\263\264\123\237\116\207  
\357\222\274\275\354\117\062\060\210\113\027\136\127\304\123\302  
\366\002\227\215\331\142\053\277\044\037\142\215\337\303\270\051  
\113\111\170\074\223\140\210\042\374\231\332\066\310\302\242\324  
\054\124\000\147\065\156\163\277\002\130\360\244\335\345\260\242  
\046\172\312\340\066\245\031\026\365\375\267\357\256\077\100\365  
\155\132\004\375\316\064\312\044\334\164\043\033\135\063\023\022  
\135\304\001\045\366\060\335\002\135\237\340\325\107\275\264\353  
\033\241\273\111\111\330\237\133\002\363\212\344\044\220\344\142  
\117\117\301\257\213\016\164\027\250\321\162\210\152\172\001\111  
\314\264\106\171\306\027\261\332\230\036\007\131\372\165\041\205  
\145\335\220\126\316\373\253\245\140\235\304\235\371\122\260\213  
\275\207\371\217\053\043\012\043\166\073\367\063\341\311\000\363  
\151\371\113\242\340\116\274\176\223\071\204\007\367\104\160\176  
\376\007\132\345\261\254\321\030\314\362\065\345\111\111\010\312  
\126\311\075\373\017\030\175\213\073\301\023\302\115\217\311\117  
\016\067\351\037\241\016\152\337\142\056\313\065\006\121\171\054  
\310\045\070\364\372\113\247\211\134\234\322\343\015\071\206\112  
\164\174\325\131\207\302\077\116\014\134\122\364\075\367\122\202  
\361\352\243\254\375\111\064\032\050\363\101\210\072\023\356\350  
\336\377\231\035\137\272\313\350\036\362\271\120\140\300\061\323  
\163\345\357\276\240\355\063\013\164\276\040\040\304\147\154\360  
\010\003\172\125\200\177\106\116\226\247\364\036\076\341\366\330  
\011\341\063\144\053\143\327\062\136\237\371\300\173\017\170\157  
\227\274\223\232\371\234\022\220\170\172\200\207\025\327\162\164  
\234\125\164\170\261\272\341\156\160\004\272\117\240\272\150\303  
\173\377\061\360\163\075\075\224\052\261\013\101\016\240\376\115  
\210\145\153\171\063\264\327\002\003\001\000\001\243\102\060\100  
\060\016\006\003\125\035\017\001\001\377\004\004\003\002\001\006  
\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001  
\377\060\035\006\003\125\035\016\004\026\004\024\355\104\031\300  
\323\360\006\213\356\244\173\276\102\347\046\124\310\216\066\166  
\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\003  
\202\002\001\000\015\256\220\062\366\246\113\174\104\166\031\141  
\036\047\050\315\136\124\357\045\274\343\010\220\371\051\327\256  
\150\010\341\224\000\130\357\056\056\176\123\122\214\266\134\007  
\352\210\272\231\213\120\224\327\202\200\337\141\011\000\223\255  
\015\024\346\316\301\362\067\224\170\260\137\234\263\242\163\270  
\217\005\223\070\315\215\076\260\270\373\300\317\261\362\354\055  
\055\033\314\354\252\232\263\252\140\202\033\055\073\303\204\075

\127\212\226\036\234\165\270\323\060\315\140\010\203\220\323\216  
\124\361\115\146\300\135\164\003\100\243\356\205\176\302\037\167  
\234\006\350\301\247\030\135\122\225\355\311\335\045\236\155\372  
\251\355\243\072\064\320\131\173\332\355\120\363\065\277\355\353  
\024\115\061\307\140\364\332\361\207\234\342\110\342\306\305\067  
\373\006\020\372\165\131\146\061\107\051\332\166\232\034\351\202  
\256\357\232\271\121\367\210\043\232\151\225\142\074\345\125\200  
\066\327\124\002\377\361\271\135\316\324\043\157\330\105\204\112  
\133\145\357\211\014\335\024\247\040\313\030\245\045\264\015\371  
\001\360\242\322\364\000\310\164\216\241\052\110\216\145\333\023  
\304\342\045\027\175\353\276\207\133\027\040\124\121\223\112\123  
\003\013\354\135\312\063\355\142\375\105\307\057\133\334\130\240  
\200\071\346\372\327\376\023\024\246\355\075\224\112\102\164\324  
\303\167\131\163\315\217\106\276\125\070\357\372\350\221\062\352  
\227\130\004\042\336\070\303\314\274\155\311\063\072\152\012\151  
\077\240\310\352\162\217\214\143\206\043\275\155\074\226\236\225  
\340\111\114\252\242\271\052\033\234\066\201\170\355\303\350\106  
\342\046\131\104\165\036\331\165\211\121\315\020\204\235\141\140  
\313\135\371\227\042\115\216\230\346\343\177\366\133\273\256\315  
\312\112\201\153\136\013\363\121\341\164\053\351\176\047\247\331  
\231\111\116\370\245\200\333\045\017\034\143\142\212\311\063\147  
\153\074\020\203\306\255\336\250\315\026\216\215\360\007\067\161  
\237\362\253\374\101\365\301\213\354\000\067\135\011\345\116\200  
\357\372\261\134\070\006\245\033\112\341\334\070\055\074\334\253  
\037\220\032\325\112\234\356\321\160\154\314\356\364\127\370\030  
\272\204\156\207

END

CKA\_NSS\_MOZILLA\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "IdenTrust Commercial Root CA 1"

# Issuer: CN=IdenTrust Commercial Root CA 1,O=IdenTrust,C=US

# Serial Number:0a:01:42:80:00:00:01:45:23:c8:44:b5:00:00:00:02

# Subject: CN=IdenTrust Commercial Root CA 1,O=IdenTrust,C=US

# Not Valid Before: Thu Jan 16 18:12:23 2014

# Not Valid After : Mon Jan 16 18:12:23 2034

# Fingerprint (SHA-256):

5D:56:49:9B:E4:D2:E0:8B:CF:CA:D0:8A:3E:38:72:3D:50:50:3B:DE:70:69:48:E4:2F:55:60:30:19:E5:28:AE

# Fingerprint (SHA1): DF:71:7E:AA:4A:D9:4E:C9:55:84:99:60:2D:48:DE:5F:BC:F0:3A:25

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "IdenTrust Commercial Root CA 1"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

\337\161\176\252\112\331\116\311\125\204\231\140\055\110\336\137

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\274\360\072\045
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\263\076\167\163\165\356\240\323\343\176\111\143\111\131\273\307
END
CKA_ISSUER
MULTILINE_OCTAL
\060\112\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\022\060\020\006\003\125\004\012\023\011\111\144\145\156\124\162
\165\163\164\061\047\060\045\006\003\125\004\003\023\036\111\144
\145\156\124\162\165\163\164\040\103\157\155\155\145\162\143\151
\141\154\040\122\157\157\164\040\103\101\040\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\012\001\102\200\000\000\001\105\043\310\104\265\000\000
\000\002
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "IdenTrust Public Sector Root CA 1"
#
Issuer: CN=IdenTrust Public Sector Root CA 1,O=IdenTrust,C=US
Serial Number:0a:01:42:80:00:00:01:45:23:cf:46:7c:00:00:00:02
Subject: CN=IdenTrust Public Sector Root CA 1,O=IdenTrust,C=US
Not Valid Before: Thu Jan 16
17:53:32 2014
Not Valid After : Mon Jan 16 17:53:32 2034
Fingerprint (SHA-256):
30:D0:89:5A:9A:44:8A:26:20:91:63:55:22:D1:F5:20:10:B5:86:7A:CA:E1:2C:78:EF:95:8F:D4:F4:38:9F:2F
Fingerprint (SHA1): BA:29:41:60:77:98:3F:F4:F3:EF:F2:31:05:3B:2E:EA:6D:4D:45:FD
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "IdenTrust Public Sector Root CA 1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\115\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\022\060\020\006\003\125\004\012\023\011\111\144\145\156\124\162
\165\163\164\061\052\060\050\006\003\125\004\003\023\041\111\144
\145\156\124\162\165\163\164\040\120\165\142\154\151\143\040\123
\145\143\164\157\162\040\122\157\157\164\040\103\101\040\061
END
CKA_ID UTF8 "0"

```

CKA\_ISSUER MULTILINE\_OCTAL

\060\115\061\013\060\011\006\003\125\004\006\023\002\125\123\061  
\022\060\020\006\003\125\004\012\023\011\111\144\145\156\124\162  
\165\163\164\061\052\060\050\006\003\125\004\003\023\041\111\144  
\145\156\124\162\165\163\164\040\120\165\142\154\151\143\040\123  
\145\143\164\157\162\040\122\157\157\164\040\103\101\040\061

END

CKA\_SERIAL\_NUMBER

MULTILINE\_OCTAL

\002\020\012\001\102\200\000\000\001\105\043\317\106\174\000\000  
\000\002

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\005\146\060\202\003\116\240\003\002\001\002\002\020\012  
\001\102\200\000\000\001\105\043\317\106\174\000\000\000\002\060  
\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060\115  
\061\013\060\011\006\003\125\004\006\023\002\125\123\061\022\060  
\020\006\003\125\004\012\023\011\111\144\145\156\124\162\165\163  
\164\061\052\060\050\006\003\125\004\003\023\041\111\144\145\156  
\124\162\165\163\164\040\120\165\142\154\151\143\040\123\145\143  
\164\157\162\040\122\157\157\164\040\103\101\040\061\060\036\027  
\015\061\064\060\061\061\066\061\067\065\063\063\062\132\027\015  
\063\064\060\061\061\066\061\067\065\063\063\062\132\060\115\061  
\013\060\011\006\003\125\004\006\023\002\125\123\061\022\060\020  
\006\003\125\004\012\023\011\111\144\145\156\124\162\165\163\164  
\061\052\060\050\006\003\125\004\003\023\041\111\144\145\156\124  
\162\165\163\164\040\120\165\142\154\151\143\040\123\145\143\164  
\157\162\040\122\157\157\164\040\103\101\040\061\060\202\002\042  
\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003  
\202\002\017\000\060\202\002\012\002\202\002\001\000\266\042\224  
\374\244\110\257\350\107\153\012\373\047\166\344\362\077\212\073  
\172\112\054\061\052\214\215\260\251\303\061\153\250\167\166\204  
\046\266\254\201\102\015\010\353\125\130\273\172\370\274\145\175  
\362\240\155\213\250\107\351\142\166\036\021\356\010\024\321\262  
\104\026\364\352\320\372\036\057\136\333\313\163\101\256\274\000  
\260\112\053\100\262\254\341\073\113\302\055\235\344\241\233\354  
\032\072\036\360\010\263\320\344\044\065\007\237\234\264\311\122  
\155\333\007\312\217\265\133\360\203\363\117\307\055\245\310\255  
\313\225\040\244\061\050\127\130\132\344\215\033\232\253\236\015  
\014\362\012\063\071\042\071\012\227\056\363\123\167\271\104\105  
\375\204\313\066\040\201\131\055\232\157\155\110\110\141\312\114  
\337\123\321\257\122\274\104\237\253\057\153\203\162\357\165\200  
\332\006\063\033\135\310\332\143\306\115\315\254\146\061\315\321  
\336\076\207\020\066\341\271\244\172\357\140\120\262\313\312\246  
\126\340\067\257\253\064\023\071\045\350\071\146\344\230\172\252  
\022\230\234\131\146\206\076\255\361\260\312\076\006\017\173\360  
\021\113\067\240\104\155\173\313\250\214\161\364\325\265\221\066  
\314\360\025\306\053\336\121\027\261\227\114\120\075\261\225\131



\174\005\175\055\041\325\000\277\001\147\242\136\173\246\134\362  
\367\042\361\220\015\223\333\252\104\121\146\314\175\166\003\353  
\152\250\052\070\031\227\166\015\153\212\141\371\274\366\356\166  
\375\160\053\335\051\074\370\012\036\133\102\034\213\126\057\125  
\033\034\241\056\265\307\026\346\370\252\074\222\216\151\266\001  
\301\265\206\235\211\017\013\070\224\124\350\352\334\236\075\045  
\274\123\046\355\325\253\071\252\305\100\114\124\253\262\264\331  
\331\370\327\162\333\034\274\155\275\145\137\357\210\065\052\146  
\057\356\366\263\145\360\063\215\174\230\101\151\106\017\103\034  
\151\372\233\265\320\141\152\315\312\113\331\114\220\106\253\025  
\131\241\107\124\051\056\203\050\137\034\302\242\253\162\027\000  
\006\216\105\354\213\342\063\075\177\332\031\104\344\142\162\303  
\337\042\306\362\126\324\335\137\225\162\355\155\137\367\110\003  
\133\375\305\052\240\366\163\043\204\020\033\001\347\002\003\001  
\000\001\243\102\060\100\060\016\006\003\125\035\017\001\001\377  
\004\004\003\002\001\006\060\017\006\003\125\035\023\001\001\377  
\004\005\060\003\001\001\377\060\035\006\003\125\035\016\004\026  
\004\024\343\161\340\236\330\247\102\331\333\161\221\153\224\223  
\353\303\243\321\024\243\060\015\006\011\052\206\110\206\367\015  
\001\001\013\005\000\003\202\002\001\000\107\372\335\012\260\021  
\221\070\255\115\135\367\345\016\227\124\031\202\110\207\124\214  
\252\144\231\330\132\376\210\001\305\130\245\231\261\043\124\043  
\267\152\035\040\127\345\001\142\101\027\323\011\333\165\313\156  
\124\220\165\376\032\237\201\012\302\335\327\367\011\320\133\162  
\025\344\036\011\152\075\063\363\041\232\346\025\176\255\121\325  
\015\020\355\175\102\300\217\356\300\232\010\325\101\326\134\016  
\041\151\156\200\141\016\025\300\270\317\305\111\022\122\314\276  
\072\314\324\056\070\005\336\065\375\037\157\270\200\150\230\075  
\115\240\312\100\145\322\163\174\365\213\331\012\225\077\330\077  
\043\155\032\321\052\044\031\331\205\263\027\357\170\156\251\130  
\321\043\323\307\023\355\162\045\177\135\261\163\160\320\177\006  
\227\011\204\051\200\141\035\372\136\377\163\254\240\343\211\270  
\034\161\025\306\336\061\177\022\334\341\155\233\257\347\350\237  
\165\170\114\253\106\073\232\316\277\005\030\135\115\025\074\026  
\232\031\120\004\232\262\232\157\145\213\122\137\074\130\004\050  
\045\300\146\141\061\176\271\340\165\271\032\250\201\326\162\027  
\263\305\003\061\065\021\170\170\242\340\351\060\214\177\200\337  
\130\337\074\272\047\226\342\200\064\155\343\230\323\144\047\254  
\110\176\050\167\134\306\045\141\045\370\205\014\145\372\304\062  
\057\245\230\005\344\370\013\147\026\026\306\202\270\062\031\371  
\371\271\171\334\037\315\353\257\253\016\335\033\333\105\344\172  
\347\002\342\225\135\374\151\360\123\151\141\225\165\171\013\136  
\125\346\070\034\224\251\131\063\236\310\161\164\171\177\121\211  
\266\310\152\270\060\310\152\070\303\156\236\341\067\026\352\005  
\142\114\133\022\107\355\247\264\263\130\126\307\111\363\177\022  
\150\011\061\161\360\155\370\116\107\373\326\205\356\305\130\100  
\031\244\035\247\371\113\103\067\334\150\132\117\317\353\302\144  
\164\336\264\025\331\364\124\124\032\057\034\327\227\161\124\220

```
\216\331\040\235\123\053\177\253\217\342\352\060\274\120\067\357
\361\107\265\175\174\054\004\354\150\235\264\111\104\020\364\162
\113\034\144\347\374\346\153\220\335\151\175\151\375\000\126\245
\267\254\266\255\267\312\076\001\357\234
```

END

CKA\_NSS\_MOZILLA\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "IdenTrust Public Sector Root CA 1"

# Issuer: CN=IdenTrust Public Sector Root CA 1,O=IdenTrust,C=US

# Serial Number:0a:01:42:80:00:00:01:45:23:cf:46:7c:00:00:00:02

# Subject: CN=IdenTrust Public Sector Root CA 1,O=IdenTrust,C=US

# Not Valid Before: Thu Jan 16 17:53:32 2014

# Not Valid After : Mon Jan 16 17:53:32 2034

# Fingerprint (SHA-256):

30:D0:89:5A:9A:44:8A:26:20:91:63:55:22:D1:F5:20:10:B5:86:7A:CA:E1:2C:78:EF:95:8F:D4:F4:38:9F:2F

# Fingerprint (SHA1): BA:29:41:60:77:98:3F:F4:F3:EF:F2:31:05:3B:2E:EA:6D:4D:45:FD

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "IdenTrust Public Sector Root CA 1"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

```
\272\051\101\140\167\230\077\364\363\357\362\061\005\073\056\352
\155\115\105\375
```

END

CKA\_CERT\_MD5\_HASH MULTILINE\_OCTAL

```
\067\006\245\260\374\211\235\272\364\153\214\032\144\315\325\272
```

END

CKA\_ISSUER

MULTILINE\_OCTAL

```
\060\115\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\022\060\020\006\003\125\004\012\023\011\111\144\145\156\124\162
\165\163\164\061\052\060\050\006\003\125\004\003\023\041\111\144
\145\156\124\162\165\163\164\040\120\165\142\154\151\143\040\123
\145\143\164\157\162\040\122\157\157\164\040\103\101\040\061
```

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

```
\002\020\012\001\102\200\000\000\001\105\043\317\106\174\000\000
\000\002
```

END

CKA\_TRUST\_SERVER\_AUTH CK\_TRUST CKT\_NSS\_TRUSTED\_DELEGATOR

CKA\_TRUST\_EMAIL\_PROTECTION CK\_TRUST CKT\_NSS\_TRUSTED\_DELEGATOR

CKA\_TRUST\_CODE\_SIGNING CK\_TRUST CKT\_NSS\_MUST\_VERIFY\_TRUST

CKA\_TRUST\_STEP\_UP\_APPROVED CK\_BBOOL CK\_FALSE

```

#
Certificate "Entrust Root Certification Authority - G2"
#
Issuer: CN=Entrust Root Certification Authority - G2,OU="(c) 2009 Entrust, Inc. - for authorized use
only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US
Serial Number:
1246989352 (0x4a538c28)
Subject: CN=Entrust Root Certification Authority - G2,OU="(c) 2009 Entrust, Inc. - for authorized use
only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US
Not Valid Before: Tue Jul 07 17:25:54 2009
Not Valid After : Sat Dec 07 17:55:54 2030
Fingerprint (SHA-256):
43:DF:57:74:B0:3E:7F:EF:5F:E4:0D:93:1A:7B:ED:F1:BB:2E:6B:42:73:8C:4E:6D:38:41:10:3D:3A:A7:F3:39
Fingerprint (SHA1): 8C:F4:27:FD:79:0C:3A:D1:66:06:8D:E8:1E:57:EF:BB:93:22:72:D4
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Entrust Root Certification Authority - G2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\276\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\026\060\024\006\003\125\004\012\023\015\105\156\164\162\165
\163\164\054\040\111\156\143\056\061\050\060\046\006\003\125\004
\013\023\037\123\145\145\040\167\167\167\056\145\156\164\162\165
\163\164\056\156\145\164\057\154\145\147\141\154\055\164\145\162
\155\163\061\071\060\067\006\003\125\004\013\023\060\050\143\051
\040\062\060\060\071\040\105\156\164\162\165\163\164\054\040\111
\156\143\056\040\055\040\146\157\162\040\141\165\164\150\157\162
\151\172\145\144\040\165\163\145\040\157\156\154\171\061\062\060
\060\006\003\125\004\003\023\051\105\156\164\162\165\163\164\040
\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164\151
\157\156\040\101\165\164\150\157\162\151\164\171\040\055\040\107
\062
END
CKA_ID
UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\276\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\026\060\024\006\003\125\004\012\023\015\105\156\164\162\165
\163\164\054\040\111\156\143\056\061\050\060\046\006\003\125\004
\013\023\037\123\145\145\040\167\167\167\056\145\156\164\162\165
\163\164\056\156\145\164\057\154\145\147\141\154\055\164\145\162
\155\163\061\071\060\067\006\003\125\004\013\023\060\050\143\051
\040\062\060\060\071\040\105\156\164\162\165\163\164\054\040\111
\156\143\056\040\055\040\146\157\162\040\141\165\164\150\157\162
\151\172\145\144\040\165\163\145\040\157\156\154\171\061\062\060
\060\006\003\125\004\003\023\051\105\156\164\162\165\163\164\040

```

\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164\151  
\157\156\040\101\165\164\150\157\162\151\164\171\040\055\040\107  
\062  
END  
CKA\_SERIAL\_NUMBER  
MULTILINE\_OCTAL  
\002\004\112\123\214\050  
END  
CKA\_VALUE MULTILINE\_OCTAL  
\060\202\004\076\060\202\003\046\240\003\002\001\002\002\004\112  
\123\214\050\060\015\006\011\052\206\110\206\367\015\001\001\013  
\005\000\060\201\276\061\013\060\011\006\003\125\004\006\023\002  
\125\123\061\026\060\024\006\003\125\004\012\023\015\105\156\164  
\162\165\163\164\054\040\111\156\143\056\061\050\060\046\006\003  
\125\004\013\023\037\123\145\145\040\167\167\167\056\145\156\164  
\162\165\163\164\056\156\145\164\057\154\145\147\141\154\055\164  
\145\162\155\163\061\071\060\067\006\003\125\004\013\023\060\050  
\143\051\040\062\060\060\071\040\105\156\164\162\165\163\164\054  
\040\111\156\143\056\040\055\040\146\157\162\040\141\165\164\150  
\157\162\151\172\145\144\040\165\163\145\040\157\156\154\171\061  
\062\060\060\006\003\125\004\003\023\051\105\156\164\162\165\163  
\164\040\122\157\157\164\040\103\145\162\164\151\146\151\143\141  
\164\151\157\156\040\101\165\164\150\157\162\151\164\171\040\055  
\040\107\062\060\036\027\015\060\071\060\067\060\067\061\067\062  
\065\065\064\132\027\015\063\060\061\062\060\067\061\067\065\065  
\065\064\132\060\201\276\061\013\060\011\006\003\125\004\006\023  
\002\125\123\061\026\060\024\006\003\125\004\012\023\015\105\156  
\164\162\165\163\164\054\040\111\156\143\056\061\050\060\046\006  
\003\125\004\013\023\037\123\145\145\040\167\167\167\056\145\156  
\164\162\165\163\164\056\156\145\164\057\154\145\147\141\154\055  
\164\145\162\155\163\061\071\060\067\006\003\125\004\013\023\060  
\050\143\051\040\062\060\060\071\040\105\156\164\162\165\163\164  
\054\040\111\156\143\056\040\055\040\146\157\162\040\141\165\164  
\150\157\162\151\172\145\144\040\165\163\145\040\157\156\154\171  
\061\062\060\060\006\003\125\004\003\023\051\105\156\164\162\165  
\163\164\040\122\157\157\164\040\103\145\162\164\151\146\151\143  
\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171\040  
\055\040\107\062\060\202\001\042\060\015\006\011\052\206\110\206  
\367\015\001\001\001\005\000\003\202\001\017\000\060\202\001\012  
\002\202\001\001\000\272\204\266\162\333\236\014\153\342\231\351  
\060\001\247\166\352\062\270\225\101\032\311\332\141\116\130\162  
\317\376\366\202\171\277\163\141\006\012\245\047\330\263\137\323  
\105\116\034\162\326\116\062\362\162\212\017\367\203\031\320\152  
\200\200\000\105\036\260\307\347\232\277\022\127\047\034\243\150  
\057\012\207\275\152\153\016\136\145\363\034\167\325\324\205\215  
\160\041\264\263\062\347\213\242\325\206\071\002\261\270\322\107  
\316\344\311\111\304\073\247\336\373\124\175\127\276\360\350\156  
\302\171\262\072\013\125\342\120\230\026\062\023\134\057\170\126

\301\302\224\263\362\132\344\047\232\237\044\327\306\354\320\233  
\045\202\343\314\302\304\105\305\214\227\172\006\153\052\021\237  
\251\012\156\110\073\157\333\324\021\031\102\367\217\007\277\365  
\123\137\234\076\364\027\054\346\151\254\116\062\114\142\167\352  
\267\350\345\273\064\274\031\213\256\234\121\347\267\176\265\123  
\261\063\042\345\155\317\160\074\032\372\342\233\147\266\203\364  
\215\245\257\142\114\115\340\130\254\144\064\022\003\370\266\215  
\224\143\044\244\161\002\003\001\000\001\243\102\060\100\060\016  
\006\003\125\035\017\001\001\377\004\004\003\002\001\006\060\017  
\006\003\125\035\023\001\001\377\004\005\060\003\001\001\377\060  
\035\006\003\125\035\016\004\026\004\024\152\162\046\172\320\036  
\357\175\347\073\151\121\324\154\215\237\220\022\146\253\060\015  
\006\011\052\206\110\206\367\015\001\001\013\005\000\003\202\001  
\001\000\171\237\035\226\306\266\171\077\042\215\207\323\207\003  
\004\140\152\153\232\056\131\211\163\021\254\103\321\365\023\377  
\215\071\053\300\362\275\117\160\214\251\057\352\027\304\013\124  
\236\324\033\226\230\063\074\250\255\142\242\000\166\253\131\151  
\156\006\035\176\304\271\104\215\230\257\022\324\141\333\012\031  
\106\107\363\353\367\143\301\100\005\100\245\322\267\364\265\232  
\066\277\251\210\166\210\004\125\004\053\234\207\177\032\067\074  
\176\055\245\032\330\324\211\136\312\275\254\075\154\330\155\257  
\325\363\166\017\315\073\210\070\042\235\154\223\232\304\075\277  
\202\033\145\077\246\017\135\252\374\345\262\025\312\265\255\306  
\274\075\320\204\350\352\006\162\260\115\071\062\170\277\076\021  
\234\013\244\235\232\041\363\360\233\013\060\170\333\301\334\207  
\103\376\274\143\232\312\305\302\034\311\307\215\377\073\022\130  
\010\346\266\075\354\172\054\116\373\203\226\316\014\074\151\207  
\124\163\244\163\302\223\377\121\020\254\025\124\001\330\374\005  
\261\211\241\177\164\203\232\111\327\334\116\173\212\110\157\213  
\105\366

END

CKA\_NSS\_MOZILLA\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER

CK\_BBOOL CK\_FALSE

# Trust for "Entrust Root Certification Authority - G2"

# Issuer: CN=Entrust Root Certification Authority - G2,OU="(c) 2009 Entrust, Inc. - for authorized use only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US

# Serial Number: 1246989352 (0x4a538c28)

# Subject: CN=Entrust Root Certification Authority - G2,OU="(c) 2009 Entrust, Inc. - for authorized use only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US

# Not Valid Before: Tue Jul 07 17:25:54 2009

# Not Valid After : Sat Dec 07 17:55:54 2030

# Fingerprint (SHA-256):

43:DF:57:74:B0:3E:7F:EF:5F:E4:0D:93:1A:7B:ED:F1:BB:2E:6B:42:73:8C:4E:6D:38:41:10:3D:3A:A7:F3:39

# Fingerprint (SHA1): 8C:F4:27:FD:79:0C:3A:D1:66:06:8D:E8:1E:57:EF:BB:93:22:72:D4

```

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Entrust Root Certification Authority - G2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\214\364\047\375\171\014\072\321\146\006\215\350\036\127\357\273
\223\042\162\324
END
CKA_CERT_MD5_HASH
MULTILINE_OCTAL
\113\342\311\221\226\145\014\364\016\132\223\222\240\012\376\262
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\276\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\026\060\024\006\003\125\004\012\023\015\105\156\164\162\165
\163\164\054\040\111\156\143\056\061\050\060\046\006\003\125\004
\013\023\037\123\145\145\040\167\167\167\056\145\156\164\162\165
\163\164\056\156\145\164\057\154\145\147\141\154\055\164\145\162
\155\163\061\071\060\067\006\003\125\004\013\023\060\050\143\051
\040\062\060\060\071\040\105\156\164\162\165\163\164\054\040\111
\156\143\056\040\055\040\146\157\162\040\141\165\164\150\157\162
\151\172\145\144\040\165\163\145\040\157\156\154\171\061\062\060
\060\006\003\125\004\003\023\051\105\156\164\162\165\163\164\040
\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164\151
\157\156\040\101\165\164\150\157\162\151\164\171\040\055\040\107
\062
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\004\112\123\214\050
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Entrust Root Certification Authority - EC1"
#
Issuer: CN=Entrust Root Certification Authority - EC1,OU="(c) 2012 Entrust, Inc. - for authorized use
only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US
Serial Number:00:a6:8b:79:29:00:00:00:50:d0:91:f9
Subject: CN=Entrust Root Certification Authority - EC1,OU="(c) 2012 Entrust, Inc. - for authorized use
only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US
Not Valid Before: Tue Dec 18 15:25:36 2012
Not Valid After : Fri Dec 18 15:55:36 2037
Fingerprint (SHA-256):

```

02:ED:0E:B2:8C:14:DA:45:16:5C:56:67:91:70:0D:64:51:D7:FB:56:F0:B2:AB:1D:3B:8E:B0:70:E5:6E:DF:F5

# Fingerprint (SHA1): 20:D8:06:40:DF:9B:25:F5:12:25:3A:11:EA:F7:59:8A:EB:14:B5:47

CKA\_CLASS

CK\_OBJECT\_CLASS CKO\_CERTIFICATE

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "Entrust Root Certification Authority - EC1"

CKA\_CERTIFICATE\_TYPE CK\_CERTIFICATE\_TYPE CKC\_X\_509

CKA\_SUBJECT MULTILINE\_OCTAL

\060\201\277\061\013\060\011\006\003\125\004\006\023\002\125\123  
\061\026\060\024\006\003\125\004\012\023\015\105\156\164\162\165  
\163\164\054\040\111\156\143\056\061\050\060\046\006\003\125\004  
\013\023\037\123\145\145\040\167\167\167\056\145\156\164\162\165  
\163\164\056\156\145\164\057\154\145\147\141\154\055\164\145\162  
\155\163\061\071\060\067\006\003\125\004\013\023\060\050\143\051  
\040\062\060\061\062\040\105\156\164\162\165\163\164\054\040\111  
\156\143\056\040\055\040\146\157\162\040\141\165\164\150\157\162  
\151\172\145\144\040\165\163\145\040\157\156\154\171\061\063\060  
\061\006\003\125\004\003\023\052\105\156\164\162\165\163\164\040  
\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164\151  
\157\156\040\101\165\164\150\157\162\151\164\171\040\055\040\105  
\103\061

END

CKA\_ID

UTF8 "0"

CKA\_ISSUER MULTILINE\_OCTAL

\060\201\277\061\013\060\011\006\003\125\004\006\023\002\125\123  
\061\026\060\024\006\003\125\004\012\023\015\105\156\164\162\165  
\163\164\054\040\111\156\143\056\061\050\060\046\006\003\125\004  
\013\023\037\123\145\145\040\167\167\167\056\145\156\164\162\165  
\163\164\056\156\145\164\057\154\145\147\141\154\055\164\145\162  
\155\163\061\071\060\067\006\003\125\004\013\023\060\050\143\051  
\040\062\060\061\062\040\105\156\164\162\165\163\164\054\040\111  
\156\143\056\040\055\040\146\157\162\040\141\165\164\150\157\162  
\151\172\145\144\040\165\163\145\040\157\156\154\171\061\063\060  
\061\006\003\125\004\003\023\052\105\156\164\162\165\163\164\040  
\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164\151  
\157\156\040\101\165\164\150\157\162\151\164\171\040\055\040\105  
\103\061

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

\002\015\000\246\213\171\051\000\000\000\000\120\320\221\371

END

CKA\_VALUE

MULTILINE\_OCTAL

\060\202\002\371\060\202\002\200\240\003\002\001\002\002\015\000  
\246\213\171\051\000\000\000\000\120\320\221\371\060\012\006\010

\052\206\110\316\075\004\003\003\060\201\277\061\013\060\011\006  
\003\125\004\006\023\002\125\123\061\026\060\024\006\003\125\004  
\012\023\015\105\156\164\162\165\163\164\054\040\111\156\143\056  
\061\050\060\046\006\003\125\004\013\023\037\123\145\145\040\167  
\167\167\056\145\156\164\162\165\163\164\056\156\145\164\057\154  
\145\147\141\154\055\164\145\162\155\163\061\071\060\067\006\003  
\125\004\013\023\060\050\143\051\040\062\060\061\062\040\105\156  
\164\162\165\163\164\054\040\111\156\143\056\040\055\040\146\157  
\162\040\141\165\164\150\157\162\151\172\145\144\040\165\163\145  
\040\157\156\154\171\061\063\060\061\006\003\125\004\003\023\052  
\105\156\164\162\165\163\164\040\122\157\157\164\040\103\145\162  
\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157  
\162\151\164\171\040\055\040\105\103\061\060\036\027\015\061\062  
\061\062\061\070\061\065\062\065\063\066\132\027\015\063\067\061  
\062\061\070\061\065\065\065\063\066\132\060\201\277\061\013\060  
\011\006\003\125\004\006\023\002\125\123\061\026\060\024\006\003  
\125\004\012\023\015\105\156\164\162\165\163\164\054\040\111\156  
\143\056\061\050\060\046\006\003\125\004\013\023\037\123\145\145  
\040\167\167\167\056\145\156\164\162\165\163\164\056\156\145\164  
\057\154\145\147\141\154\055\164\145\162\155\163\061\071\060\067  
\006\003\125\004\013\023\060\050\143\051\040\062\060\061\062\040  
\105\156\164\162\165\163\164\054\040\111\156\143\056\040\055\040  
\146\157\162\040\141\165\164\150\157\162\151\172\145\144\040\165  
\163\145\040\157\156\154\171\061\063\060\061\006\003\125\004\003  
\023\052\105\156\164\162\165\163\164\040\122\157\157\164\040\103  
\145\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164  
\150\157\162\151\164\171\040\055\040\105\103\061\060\166\060\020  
\006\007\052\206\110\316\075\002\001\006\005\053\201\004\000\042  
\003\142\000\004\204\023\311\320\272\155\101\173\342\154\320\353  
\125\137\146\002\032\044\364\133\211\151\107\343\270\302\175\361  
\362\002\305\237\240\366\133\325\213\006\031\206\117\123\020\155  
\007\044\047\241\240\370\325\107\031\141\114\175\312\223\047\352  
\164\014\357\157\226\011\376\143\354\160\135\066\255\147\167\256  
\311\235\174\125\104\072\242\143\121\037\365\343\142\324\251\107  
\007\076\314\040\243\102\060\100\060\016\006\003\125\035\017\001  
\001\377\004\004\003\002\001\006\060\017\006\003\125\035\023\001  
\001\377\004\005\060\003\001\001\377\060\035\006\003\125\035\016  
\004\026\004\024\267\143\347\032\335\215\351\010\246\125\203\244  
\340\152\120\101\145\021\102\111\060\012\006\010\052\206\110\316  
\075\004\003\003\003\147\000\060\144\002\060\141\171\330\345\102  
\107\337\034\256\123\231\027\266\157\034\175\341\277\021\224\321  
\003\210\165\344\215\211\244\212\167\106\336\155\141\357\002\365  
\373\265\337\314\376\116\377\376\251\346\247\002\060\133\231\327  
\205\067\006\265\173\010\375\353\047\213\112\224\371\341\372\247  
\216\046\010\350\174\222\150\155\163\330\157\046\254\041\002\270  
\231\267\046\101\133\045\140\256\320\110\032\356\006

END

CKA\_NSS\_MOZILLA\_CA\_POLICY



```

CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "Entrust Root Certification Authority - EC1"
Issuer: CN=Entrust Root Certification Authority - EC1,OU="(c) 2012 Entrust, Inc. - for authorized use
only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US
Serial Number:00:a6:8b:79:29:00:00:00:50:d0:91:f9
Subject: CN=Entrust Root Certification Authority - EC1,OU="(c) 2012 Entrust, Inc. - for authorized use
only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US
Not Valid Before: Tue Dec 18 15:25:36 2012
Not Valid After : Fri Dec 18 15:55:36 2037
Fingerprint (SHA-256):
02:ED:0E:B2:8C:14:DA:45:16:5C:56:67:91:70:0D:64:51:D7:FB:56:F0:B2:AB:1D:3B:8E:B0:70:E5:6E:DF:F5
Fingerprint (SHA1): 20:D8:06:40:DF:9B:25:F5:12:25:3A:11:EA:F7:59:8A:EB:14:B5:47
CKA_CLASS
CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Entrust Root Certification Authority - EC1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\040\330\006\100\337\233\045\365\022\045\072\021\352\367\131\212
\353\024\265\107
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\266\176\035\360\130\305\111\154\044\073\075\355\230\030\355\274
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\277\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\026\060\024\006\003\125\004\012\023\015\105\156\164\162\165
\163\164\054\040\111\156\143\056\061\050\060\046\006\003\125\004
\013\023\037\123\145\145\040\167\167\167\056\145\156\164\162\165
\163\164\056\156\145\164\057\154\145\147\141\154\055\164\145\162
\155\163\061\071\060\067\006\003\125\004\013\023\060\050\143\051
\040\062\060\061\062\040\105\156\164\162\165\163\164\054\040\111
\156\143\056\040\055\040\146\157\162\040\141\165\164\150\157\162
\151\172\145\144\040\165\163\145\040\157\156\154\171\061\063\060
\061\006\003\125\004\003\023\052\105\156\164\162\165\163\164\040
\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164\151
\157\156\040\101\165\164\150\157\162\151\164\171\040\055\040\105
\103\061
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\015\000\246\213\171\051\000\000\000\000\120\320\221\371
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR

```

```
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
```

```
#
```

```
Certificate "CFCA EV ROOT"
```

```
#
```

```
Issuer: CN=CFCA EV ROOT,O=China Financial Certification Authority,C=CN
```

```
Serial Number: 407555286 (0x184accd6)
```

```
Subject: CN=CFCA EV ROOT,O=China Financial Certification Authority,C=CN
```

```
Not Valid Before: Wed Aug 08 03:07:01 2012
```

```
Not Valid After : Mon Dec 31 03:07:01 2029
```

```
Fingerprint (SHA-256):
```

```
5C:C3:D7:8E:4E:1D:5E:45:54:7A:04:E6:87:3E:64:F9:0C:F9:53:6D:1C:CC:2E:F8:00:F3:55:C4:C5:FD:70:FD
```

```
#
```

```
Fingerprint (SHA1): E2:B8:29:4B:55:84:AB:6B:58:C2:90:46:6C:AC:3F:B8:39:8F:84:83
```

```
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
```

```
CKA_TOKEN CK_BBOOL CK_TRUE
```

```
CKA_PRIVATE CK_BBOOL CK_FALSE
```

```
CKA_MODIFIABLE CK_BBOOL CK_FALSE
```

```
CKA_LABEL UTF8 "CFCA EV ROOT"
```

```
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
```

```
CKA_SUBJECT MULTILINE_OCTAL
```

```
\060\126\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\060\060\056\006\003\125\004\012\014\047\103\150\151\156\141\040
\106\151\156\141\156\143\151\141\154\040\103\145\162\164\151\146
\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164
\171\061\025\060\023\006\003\125\004\003\014\014\103\106\103\101
\040\105\126\040\122\117\117\124
```

```
END
```

```
CKA_ID UTF8 "0"
```

```
CKA_ISSUER MULTILINE_OCTAL
```

```
\060\126\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\060\060\056\006\003\125\004\012\014\047\103\150\151\156\141\040
\106\151\156\141\156\143\151\141\154\040\103\145\162\164\151\146
\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164
\171\061\025\060\023\006\003\125\004\003\014\014\103\106\103\101
\040\105\126\040\122\117\117\124
```

```
END
```

```
CKA_SERIAL_NUMBER
```

```
MULTILINE_OCTAL
```

```
\002\004\030\112\314\326
```

```
END
```

```
CKA_VALUE MULTILINE_OCTAL
```

```
\060\202\005\215\060\202\003\165\240\003\002\001\002\002\004\030
\112\314\326\060\015\006\011\052\206\110\206\367\015\001\001\013
\005\000\060\126\061\013\060\011\006\003\125\004\006\023\002\103
\116\061\060\060\056\006\003\125\004\012\014\047\103\150\151\156
```

\141\040\106\151\156\141\156\143\151\141\154\040\103\145\162\164  
\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162  
\151\164\171\061\025\060\023\006\003\125\004\003\014\014\103\106  
\103\101\040\105\126\040\122\117\117\124\060\036\027\015\061\062  
\060\070\060\070\060\063\060\067\060\061\132\027\015\062\071\061  
\062\063\061\060\063\060\067\060\061\132\060\126\061\013\060\011  
\006\003\125\004\006\023\002\103\116\061\060\060\056\006\003\125  
\004\012\014\047\103\150\151\156\141\040\106\151\156\141\156\143  
\151\141\154\040\103\145\162\164\151\146\151\143\141\164\151\157  
\156\040\101\165\164\150\157\162\151\164\171\061\025\060\023\006  
\003\125\004\003\014\014\103\106\103\101\040\105\126\040\122\117  
\117\124\060\202\002\042\060\015\006\011\052\206\110\206\367\015  
\001\001\001\005\000\003\202\002\017\000\060\202\002\012\002\202  
\002\001\000\327\135\153\315\020\077\037\005\131\325\005\115\067  
\261\016\354\230\053\216\025\035\372\223\113\027\202\041\161\020  
\122\327\121\144\160\026\302\125\151\115\216\025\155\237\277\014  
\033\302\340\243\147\326\014\254\317\042\256\257\167\124\052\113  
\114\212\123\122\172\303\356\056\336\263\161\045\301\351\135\075  
\356\241\057\243\367\052\074\311\043\035\152\253\035\241\247\361  
\363\354\240\325\104\317\025\317\162\057\035\143\227\350\231\371  
\375\223\244\124\200\114\122\324\122\253\056\111\337\220\315\270  
\137\276\077\336\241\312\115\040\324\045\350\204\051\123\267\261  
\210\037\377\372\332\220\237\012\251\055\101\077\261\361\030\051  
\356\026\131\054\064\111\032\250\006\327\250\210\322\003\162\172  
\062\342\352\150\115\156\054\226\145\173\312\131\372\362\342\335  
\356\060\054\373\314\106\254\304\143\353\157\177\066\053\064\163  
\022\224\177\337\314\046\236\361\162\135\120\145\131\217\151\263  
\207\136\062\157\303\030\212\265\225\217\260\172\067\336\132\105  
\073\307\066\341\357\147\321\071\323\227\133\163\142\031\110\055  
\207\034\006\373\164\230\040\111\163\360\005\322\033\261\240\243  
\267\033\160\323\210\151\271\132\326\070\364\142\334\045\213\170  
\277\370\350\176\270\134\311\225\117\137\247\055\271\040\153\317  
\153\335\365\015\364\202\267\364\262\146\056\020\050\366\227\132  
\173\226\026\217\001\031\055\154\156\177\071\130\006\144\203\001  
\203\203\303\115\222\335\062\306\207\244\067\351\026\316\252\055  
\150\257\012\201\145\072\160\301\233\255\115\155\124\312\052\055  
\113\205\033\263\200\346\160\105\015\153\136\065\360\177\073\270  
\234\344\004\160\211\022\045\223\332\012\231\042\140\152\143\140  
\116\166\006\230\116\275\203\255\035\130\212\045\205\322\307\145  
\036\055\216\306\337\266\306\341\177\212\004\041\025\051\164\360  
\076\234\220\235\014\056\361\212\076\132\252\014\011\036\307\325  
\074\243\355\227\303\036\064\372\070\371\010\016\343\300\135\053  
\203\321\126\152\311\266\250\124\123\056\170\062\147\075\202\177  
\164\320\373\341\266\005\140\271\160\333\216\013\371\023\130\157  
\161\140\020\122\020\271\301\101\011\357\162\037\147\061\170\377  
\226\005\215\002\003\001\000\001\243\143\060\141\060\037\006\003  
\125\035\043\004\030\060\026\200\024\343\376\055\375\050\320\013  
\265\272\266\242\304\277\006\252\005\214\223\373\057\060\017\006

\003\125\035\023\001\001\377\004\005\060\003\001\001\377\060\016  
\006\003\125\035\017\001\001\377\004\004\003\002\001\006\060\035  
\006\003\125\035\016\004\026\004\024\343\376\055\375\050\320\013  
\265\272\266\242\304\277\006\252\005\214\223\373\057\060\015\006  
\011\052\206\110\206\367\015\001\001\013\005\000\003\202\002\001  
\000\045\306\272\153\353\207\313\336\202\071\226\075\360\104\247  
\153\204\163\003\336\235\053\117\272\040\177\274\170\262\317\227  
\260\033\234\363\327\171\056\365\110\266\322\373\027\210\346\323  
\172\077\355\123\023\320\342\057\152\171\313\000\043\050\346\036  
\067\127\065\211\204\302\166\117\064\066\255\147\303\316\101\006  
\210\305\367\356\330\032\270\326\013\177\120\377\223\252\027\113  
\214\354\355\122\140\262\244\006\352\116\353\364\153\031\375\353  
\365\032\340\045\052\232\334\307\101\066\367\310\164\005\204\071  
\225\071\326\013\073\244\047\372\010\330\134\036\370\004\140\122  
\021\050\050\003\377\357\123\146\000\245\112\064\026\146\174\375  
\011\244\256\236\147\032\157\101\013\153\006\023\233\217\206\161  
\005\264\057\215\211\146\063\051\166\124\232\021\370\047\372\262  
\077\221\340\316\015\033\363\060\032\255\277\042\135\033\323\277  
\045\005\115\341\222\032\177\231\237\074\104\223\312\324\100\111  
\154\200\207\327\004\072\303\062\122\065\016\126\370\245\335\175  
\304\213\015\021\037\123\313\036\262\027\266\150\167\132\340\324  
\313\310\007\256\365\072\056\216\067\267\320\001\113\103\051\167  
\214\071\227\217\202\132\370\121\345\211\240\030\347\150\177\135  
\012\056\373\243\107\016\075\246\043\172\306\001\307\217\310\136  
\277\155\200\126\276\212\044\272\063\352\237\341\062\021\236\361  
\322\117\200\366\033\100\257\070\236\021\120\171\163\022\022\315  
\346\154\235\054\210\162\074\060\201\006\221\042\352\131\255\332  
\031\056\042\302\215\271\214\207\340\146\274\163\043\137\041\144  
\143\200\110\365\240\074\030\075\224\310\110\101\035\100\272\136  
\376\376\126\071\241\310\317\136\236\031\144\106\020\332\027\221  
\267\005\200\254\213\231\222\175\347\242\330\007\013\066\047\347  
\110\171\140\212\303\327\023\134\370\162\100\337\112\313\317\231  
\000\012\000\013\021\225\332\126\105\003\210\012\237\147\320\325  
\171\261\250\215\100\155\015\302\172\100\372\363\137\144\107\222  
\313\123\271\273\131\316\117\375\320\025\123\001\330\337\353\331  
\346\166\357\320\043\273\073\251\171\263\325\002\051\315\211\243  
\226\017\112\065\347\116\102\300\165\315\007\317\346\054\353\173  
\056

END

CKA\_NSS\_MOZILLA\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "CFCA EV ROOT"

# Issuer: CN=CFCA EV ROOT,O=China Financial Certification Authority,C=CN

# Serial Number: 407555286 (0x184accd6)

# Subject: CN=CFCA EV ROOT,O=China Financial Certification Authority,C=CN

```

Not Valid Before: Wed Aug 08 03:07:01 2012
Not Valid After : Mon Dec 31 03:07:01 2029
Fingerprint (SHA-256):
5C:C3:D7:8E:4E:1D:5E:45:54:7A:04:E6:87:3E:64:F9:0C:F9:53:6D:1C:CC:2E:F8:00:F3:55:C4:C5:FD:70:FD
Fingerprint (SHA1): E2:B8:29:4B:55:84:AB:6B:58:C2:90:46:6C:AC:3F:B8:39:8F:84:83
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "CFCA EV ROOT"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\342\270\051\113\125\204\253\153\130\302\220\106\154\254\077\270
\071\217\204\203
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\164\341\266\355\046\172\172\104\060\063\224\253\173\047\201\060
END
CKA_ISSUER
MULTILINE_OCTAL
\060\126\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\060\060\056\006\003\125\004\012\014\047\103\150\151\156\141\040
\106\151\156\141\156\143\151\141\154\040\103\145\162\164\151\146
\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164
\171\061\025\060\023\006\003\125\004\003\014\014\103\106\103\101
\040\105\126\040\122\117\117\124
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\030\112\314\326
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "OISTE WISeKey Global Root GB CA"
#
Issuer: CN=OISTE WISeKey Global Root GB CA,OU=OISTE Foundation Endorsed,O=WISeKey,C=CH
Serial Number:76:b1:20:52:74:f0:85:87:46:b3:f8:23:1a:f6:c2:c0
Subject: CN=OISTE WISeKey Global Root GB CA,OU=OISTE Foundation Endorsed,O=WISeKey,C=CH
#
Not Valid Before: Mon Dec 01 15:00:32 2014
Not Valid After : Thu Dec 01 15:10:31 2039
Fingerprint (SHA-256):
6B:9C:08:E8:6E:B0:F7:67:CF:AD:65:CD:98:B6:21:49:E5:49:4A:67:F5:84:5E:7B:D1:ED:01:9F:27:B8:6B:D6
Fingerprint (SHA1): 0F:F9:40:76:18:D3:D7:6A:4B:98:F0:A8:35:9E:0C:FD:27:AC:CC:ED
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE

```

```
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "OISTE WISeKey Global Root GB CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\155\061\013\060\011\006\003\125\004\006\023\002\103\110\061
\020\060\016\006\003\125\004\012\023\007\127\111\123\145\113\145
\171\061\042\060\040\006\003\125\004\013\023\031\117\111\123\124
\105\040\106\157\165\156\144\141\164\151\157\156\040\105\156\144
\157\162\163\145\144\061\050\060\046\006\003\125\004\003\023\037
\117\111\123\124\105\040\127\111\123\145\113\145\171\040\107\154
\157\142\141\154\040\122\157\157\164\040\107\102\040\103\101
END
CKA_ID
UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\155\061\013\060\011\006\003\125\004\006\023\002\103\110\061
\020\060\016\006\003\125\004\012\023\007\127\111\123\145\113\145
\171\061\042\060\040\006\003\125\004\013\023\031\117\111\123\124
\105\040\106\157\165\156\144\141\164\151\157\156\040\105\156\144
\157\162\163\145\144\061\050\060\046\006\003\125\004\003\023\037
\117\111\123\124\105\040\127\111\123\145\113\145\171\040\107\154
\157\142\141\154\040\122\157\157\164\040\107\102\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\166\261\040\122\164\360\205\207\106\263\370\043\032\366
\302\300
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\265\060\202\002\235\240\003\002\001\002\002\020\166
\261\040\122\164\360\205\207\106\263\370\043\032\366\302\300\060
\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060\155
\061\013\060\011\006\003\125\004\006\023\002\103\110\061\020\060
\016\006\003\125\004\012\023\007\127\111\123\145\113\145\171\061
\042\060\040\006\003\125\004\013\023\031\117\111\123\124\105\040
\106\157\165\156\144\141\164\151\157\156\040\105\156\144\157\162
\163\145\144\061\050\060\046\006\003\125\004\003\023\037\117\111
\123\124\105\040\127\111\123\145\113\145\171\040\107\154\157\142
\141\154\040\122\157\157\164\040\107\102\040\103\101\060\036\027
\015\061\064\061\062\060\061\061\065\060\060\063\062\132\027\015
\063\071\061\062\060\061\061\065\061\060\063\061\132\060\155\061
\013\060\011\006\003\125\004\006\023\002\103\110\061\020\060\016
\006\003\125\004\012\023\007\127\111\123\145\113\145\171\061\042
\060\040\006\003\125\004\013\023\031\117\111\123\124\105\040\106
\157\165\156\144\141\164\151\157\156\040\105\156\144\157\162\163
\145\144\061\050\060\046\006\003\125\004\003\023\037\117\111\123
\124\105\040\127\111\123\145\113\145\171\040\107\154\157\142\141
\154\040\122\157\157\164\040\107\102\040\103\101\060\202\001\042
```

\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003  
\202\001\017\000\060\202\001\012\002\202\001\001\000\330\027\267  
\034\112\044\052\326\227\261\312\342\036\373\175\070\357\230\365  
\262\071\230\116\047\270\021\135\173\322\045\224\210\202\025\046  
\152\033\061\273\250\133\041\041\053\330\017\116\237\132\361\261  
\132\344\171\326\062\043\053\341\123\314\231\105\134\173\117\255  
\274\277\207\112\013\113\227\132\250\366\110\354\175\173\015\315  
\041\006\337\236\025\375\101\212\110\267\040\364\241\172\033\127  
\324\135\120\377\272\147\330\043\231\037\310\077\343\336\377\157  
\133\167\261\153\156\270\311\144\367\341\312\101\106\016\051\161  
\320\271\043\374\311\201\137\116\367\157\337\277\204\255\163\144  
\273\267\102\216\151\366\324\166\035\176\235\247\270\127\212\121  
\147\162\327\324\250\270\225\124\100\163\003\366\352\364\353\376  
\050\102\167\077\235\043\033\262\266\075\200\024\007\114\056\117  
\367\325\012\026\015\275\146\103\067\176\043\103\171\303\100\206  
\365\114\051\332\216\232\255\015\245\004\207\210\036\205\343\351  
\123\325\233\310\213\003\143\170\353\340\031\112\156\273\057\153  
\063\144\130\223\255\151\277\217\033\357\202\110\307\002\003\001  
\000\001\243\121\060\117\060\013\006\003\125\035\017\004\004\003  
\002\001\206\060\017\006\003\125\035\023\001\001\377\004\005\060  
\003\001\001\377\060\035\006\003\125\035\016\004\026\004\024\065  
\017\310\066\143\136\342\243\354\371\073\146\025\316\121\122\343  
\221\232\075\060\020\006\011\053\006\001\004\001\202\067\025\001  
\004\003\002\001\000\060\015\006\011\052\206\110\206\367\015\001  
\001\013\005\000\003\202\001\001\000\100\114\373\207\262\231\201  
\220\176\235\305\260\260\046\315\210\173\053\062\215\156\270\041  
\161\130\227\175\256\067\024\257\076\347\367\232\342\175\366\161  
\230\231\004\252\103\164\170\243\343\111\141\076\163\214\115\224  
\340\371\161\304\266\026\016\123\170\037\326\242\207\057\002\071  
\201\051\074\257\025\230\041\060\376\050\220\000\214\321\341\313  
\372\136\310\375\370\020\106\073\242\170\102\221\027\164\125\012  
\336\120\147\115\146\321\247\377\375\331\300\265\250\243\212\316  
\146\365\017\103\315\247\053\127\173\143\106\152\252\056\122\330  
\364\355\341\155\255\051\220\170\110\272\341\043\252\243\211\354  
\265\253\226\300\264\113\242\035\227\236\172\362\156\100\161\337  
\150\361\145\115\316\174\005\337\123\145\251\245\360\261\227\004  
\160\025\106\003\230\324\322\277\124\264\240\130\175\122\157\332  
\126\046\142\324\330\333\211\061\157\034\360\042\302\323\142\034  
\065\315\114\151\025\124\032\220\230\336\353\036\137\312\167\307  
\313\216\075\103\151\234\232\130\320\044\073\337\033\100\226\176  
\065\255\201\307\116\161\272\210\023

END

CKA\_NSS\_MOZILLA\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "OISTE WISEKey Global Root GB CA"

```

Issuer: CN=OISTE WISEKey Global Root GB CA,OU=OISTE Foundation Endorsed,O=WISEKey,C=CH
Serial Number:76:b1:20:52:74:f0:85:87:46:b3:f8:23:1a:f6:c2:c0
Subject: CN=OISTE WISEKey Global Root GB CA,OU=OISTE Foundation Endorsed,O=WISEKey,C=CH
Not Valid Before: Mon Dec 01 15:00:32 2014
#
Not Valid After : Thu Dec 01 15:10:31 2039
Fingerprint (SHA-256):
6B:9C:08:E8:6E:B0:F7:67:CF:AD:65:CD:98:B6:21:49:E5:49:4A:67:F5:84:5E:7B:D1:ED:01:9F:27:B8:6B:D6
Fingerprint (SHA1): 0F:F9:40:76:18:D3:D7:6A:4B:98:F0:A8:35:9E:0C:FD:27:AC:CC:ED
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "OISTE WISEKey Global Root GB CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\017\371\100\166\030\323\327\152\113\230\360\250\065\236\014\375
\047\254\314\355
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\244\353\271\141\050\056\267\057\230\260\065\046\220\231\121\035
END
CKA_ISSUER MULTILINE_OCTAL
\060\155\061\013\060\011\006\003\125\004\006\023\002\103\110\061
\020\060\016\006\003\125\004\012\023\007\127\111\123\145\113\145
\171\061\042\060\040\006\003\125\004\013\023\031\117\111\123\124
\105\040\106\157\165\156\144\141\164\151\157\156\040\105\156\144
\157\162\163\145\144\061\050\060\046\006\003\125\004\003\023\037
\117\111\123\124\105\040\127\111\123\145\113\145\171\040\107\154
\157\142\141\154\040\122\157\157\164\040\107\102\040\103\101
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\020\166\261\040\122\164\360\205\207\106\263\370\043\032\366
\302\300
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "SZAFIR ROOT CA2"
#
Issuer: CN=SZAFIR ROOT CA2,O=Krajowa Izba Rozliczeniowa S.A.,C=PL
Serial Number:3e:8a:5d:07:ec:55:d2:32:d5:b7:e3:b6:5f:01:eb:2d:dc:e4:d6:e4
Subject: CN=SZAFIR ROOT CA2,O=Krajowa Izba Rozliczeniowa S.A.,C=PL
Not Valid Before: Mon Oct 19 07:43:30 2015
Not Valid After : Fri Oct 19 07:43:30 2035

```



```
Fingerprint (SHA-256):
A1:33:9D:33:28:1A:0B:56:E5:57:D3:D3:2B:1C:E7:F9:36:7E:B0:94:BD:5F:A7:2A:7E:50:04:C8:DE:D7:CA:FE
Fingerprint (SHA1): E2:52:FA:95:3F:ED:DB:24:60:BD:6E:28:F3:9C:CC:CF:5E:B3:3F:DE
CKA_CLASS
 CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SZAFIR ROOT CA2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\121\061\013\060\011\006\003\125\004\006\023\002\120\114\061
\050\060\046\006\003\125\004\012\014\037\113\162\141\152\157\167
\141\040\111\172\142\141\040\122\157\172\154\151\143\172\145\156
\151\157\167\141\040\123\056\101\056\061\030\060\026\006\003\125
\004\003\014\017\123\132\101\106\111\122\040\122\117\117\124\040
\103\101\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\121\061\013\060\011\006\003\125\004\006\023\002\120\114\061
\050\060\046\006\003\125\004\012\014\037\113\162\141\152\157\167
\141\040\111\172\142\141\040\122\157\172\154\151\143\172\145\156
\151\157\167\141\040\123\056\101\056\061\030\060\026\006\003\125
\004\003\014\017\123\132\101\106\111\122\040\122\117\117\124\040
\103\101\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\076\212\135\007\354\125\322\062\325\267\343\266\137\001
\353\055\334\344\326\344
END
CKA_VALUE
 MULTILINE_OCTAL
\060\202\003\162\060\202\002\132\240\003\002\001\002\002\024\076
\212\135\007\354\125\322\062\325\267\343\266\137\001\353\055\334
\344\326\344\060\015\006\011\052\206\110\206\367\015\001\001\013
\005\000\060\121\061\013\060\011\006\003\125\004\006\023\002\120
\114\061\050\060\046\006\003\125\004\012\014\037\113\162\141\152
\157\167\141\040\111\172\142\141\040\122\157\172\154\151\143\172
\145\156\151\157\167\141\040\123\056\101\056\061\030\060\026\006
\003\125\004\003\014\017\123\132\101\106\111\122\040\122\117\117
\124\040\103\101\062\060\036\027\015\061\065\061\060\061\071\060
\067\064\063\063\060\132\027\015\063\065\061\060\061\071\060\067
\064\063\063\060\132\060\121\061\013\060\011\006\003\125\004\006
\023\002\120\114\061\050\060\046\006\003\125\004\012\014\037\113
\162\141\152\157\167\141\040\111\172\142\141\040\122\157\172\154
\151\143\172\145\156\151\157\167\141\040\123\056\101\056\061\030
\060\026\006\003\125\004\003\014\017\123\132\101\106\111\122\040
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\122\117\117\124\040\103\101\062\060\202\001\042\060\015\006\011  
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\100\265\316\141\347\226\312\264\241\332\014\042\260\372\265\173  
\166\000\167\214\013\317\175\250\206\314\046\121\344\040\075\205  
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\334\364\220\326\023\112\014\220\074\303\364\332\322\216\015\222  
\072\334\261\261\377\070\336\303\272\055\137\200\271\002\275\112  
\235\033\017\264\303\302\301\147\003\335\334\033\234\075\263\260  
\336\000\036\250\064\107\273\232\353\376\013\024\275\066\204\332  
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\347\227\234\371\076\375\176\115\157\115\057\357\210\015\152\372  
\335\361\075\156\040\245\240\022\264\115\160\271\316\327\162\073  
\211\223\247\200\204\034\047\111\162\111\265\377\073\225\236\301  
\314\310\001\354\350\016\212\012\226\347\263\246\207\345\326\371  
\005\053\015\227\100\160\074\272\254\165\132\234\325\115\235\002  
\012\322\113\233\146\113\106\007\027\145\255\237\154\210\000\334  
\042\211\340\341\144\324\147\274\061\171\141\074\273\312\101\315  
\134\152\000\310\074\070\216\130\257\002\003\001\000\001\243\102  
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\002\001\006\060\035\006\003\125\035\016\004\026\004\024\056\026  
\251\112\030\265\313\314\365\157\120\363\043\137\370\135\347\254  
\360\310\060\015\006\011\052\206\110\206\367\015\001\001\013\005  
\000\003\202\001\001\000\265\163\370\003\334\131\133\035\166\351  
\243\052\173\220\050\262\115\300\063\117\252\232\261\324\270\344  
\047\377\251\226\231\316\106\340\155\174\114\242\070\244\006\160  
\360\364\101\021\354\077\107\215\077\162\207\371\073\375\244\157  
\053\123\000\340\377\071\271\152\007\016\353\035\034\366\242\162  
\220\313\202\075\021\202\213\322\273\237\052\257\041\346\143\206  
\235\171\031\357\367\273\014\065\220\303\212\355\117\017\365\314  
\022\331\244\076\273\240\374\040\225\137\117\046\057\021\043\203  
\116\165\007\017\277\233\321\264\035\351\020\004\376\312\140\217  
\242\114\270\255\317\341\220\017\315\256\012\307\135\173\267\120  
\322\324\141\372\325\025\333\327\237\207\121\124\353\245\343\353  
\311\205\240\045\040\067\373\216\316\014\064\204\341\074\201\262  
\167\116\103\245\210\137\206\147\241\075\346\264\134\141\266\076  
\333\376\267\050\305\242\007\256\265\312\312\215\052\022\357\227  
\355\302\060\244\311\052\172\373\363\115\043\033\231\063\064\240  
\056\365\251\013\077\324\135\341\317\204\237\342\031\302\137\212  
\326\040\036\343\163\267

END

CKA\_NSS\_MOZILLA\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRUST\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRUST\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "SZAFIR ROOT CA2"

```
Issuer: CN=SZAFIR ROOT CA2,O=Krajowa Izba Rozliczeniowa S.A.,C=PL
Serial Number:3e:8a:5d:07:ec:55:d2:32:d5:b7:e3:b6:5f:01:eb:2d:dc:e4:d6:e4
#
Subject: CN=SZAFIR ROOT CA2,O=Krajowa Izba Rozliczeniowa S.A.,C=PL
Not Valid Before: Mon Oct 19 07:43:30 2015
Not Valid After : Fri Oct 19 07:43:30 2035
Fingerprint (SHA-256):
A1:33:9D:33:28:1A:0B:56:E5:57:D3:D3:2B:1C:E7:F9:36:7E:B0:94:BD:5F:A7:2A:7E:50:04:C8:DE:D7:CA:FE
Fingerprint (SHA1): E2:52:FA:95:3F:ED:DB:24:60:BD:6E:28:F3:9C:CC:CF:5E:B3:3F:DE
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SZAFIR ROOT CA2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\342\122\372\225\077\355\333\044\140\275\156\050\363\234\314\317
\136\263\077\336
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\021\144\301\211\260\044\261\214\261\007\176\211\236\121\236\231
END
CKA_ISSUER MULTILINE_OCTAL
\060\121\061\013\060\011\006\003\125\004\006\023\002\120\114\061
\050\060\046\006\003\125\004\012\014\037\113\162\141\152\157\167
\141\040\111\172\142\141\040\122\157\172\154\151\143\172\145\156
\151\157\167\141\040\123\056\101\056\061\030\060\026\006\003\125
\004\003\014\017\123\132\101\106\111\122\040\122\117\117\124\040
\103\101\062
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\024\076\212\135\007\354\125\322\062\325\267\343\266\137\001
\353\055\334\344\326\344
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Certum Trusted Network CA 2"
#
Issuer: CN=Certum Trusted Network CA 2,OU=Certum Certification Authority,O=Unizeto Technologies
S.A.,C=PL
Serial Number:21:d6:d0:4a:4f:25:0f:c9:32:37:fc:aa:5e:12:8d:e9
Subject: CN=Certum Trusted Network CA 2,OU=Certum Certification Authority,O=Unizeto Technologies
S.A.,C=PL
Not Valid Before: Thu Oct 06 08:39:56 2011
```

```
Not Valid After : Sat Oct 06 08:39:56 2046
Fingerprint (SHA-256):
B6:76:F2:ED:DA:E8:77:5C:D3:6C:B0:F6:3C:D1:D4:60:39:61:F4:9E:62:65:BA:01:3A:2F:03:07:B6:D0:B8:04
#
Fingerprint (SHA1): D3:DD:48:3E:2B:BF:4C:05:E8:AF:10:F5:FA:76:26:CF:D3:DC:30:92
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certum Trusted Network CA 2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\200\061\013\060\011\006\003\125\004\006\023\002\120\114
\061\042\060\040\006\003\125\004\012\023\031\125\156\151\172\145
\164\157\040\124\145\143\150\156\157\154\157\147\151\145\163\040
\123\056\101\056\061\047\060\045\006\003\125\004\013\023\036\103
\145\162\164\165\155\040\103\145\162\164\151\146\151\143\141\164
\151\157\156\040\101\165\164\150\157\162\151\164\171\061\044\060
\042\006\003\125\004\003\023\033\103\145\162\164\165\155\040\124
\162\165\163\164\145\144\040\116\145\164\167\157\162\153\040\103
\101\040\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\200\061\013\060\011\006\003\125\004\006\023\002\120\114
\061\042\060\040\006\003\125\004\012\023\031\125\156\151\172\145
\164\157\040\124\145\143\150\156\157\154\157\147\151\145\163\040
\123\056\101\056\061\047\060\045\006\003\125\004\013\023\036\103
\145\162\164\165\155\040\103\145\162\164\151\146\151\143\141\164
\151\157\156\040\101\165\164\150\157\162\151\164\171\061\044\060
\042\006\003\125\004\003\023\033\103\145\162\164\165\155\040\124
\162\165\163\164\145\144\040\116\145\164\167\157\162\153\040\103
\101\040\062
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\020\041\326\320\112\117\045\017\311\062\067\374\252\136\022
\215\351
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\322\060\202\003\272\240\003\002\001\002\002\020\041
\326\320\112\117\045\017\311\062\067\374\252\136\022\215\351\060
\015\006\011\052\206\110\206\367\015\001\001\015\005\000\060\201
\200\061\013\060\011\006\003\125\004\006\023\002\120\114\061\042
\060\040\006\003\125\004\012\023\031\125\156\151\172\145\164\157
\040\124\145\143\150\156\157\154\157\147\151\145\163\040\123\056
\101\056\061\047\060\045\006\003\125\004\013\023\036\103\145\162
\164\165\155\040\103\145\162\164\151\146\151\143\141\164\151\157
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\156\040\101\165\164\150\157\162\151\164\171\061\044\060\042\006  
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\163\164\145\144\040\116\145\164\167\157\162\153\040\103\101\040  
\062\060\042\030\017\062\060\061\061\061\060\060\066\060\070\063  
\071\065\066\132\030\017\062\060\064\066\061\060\060\066\060\070  
\063\071\065\066\132\060\201\200\061\013\060\011\006\003\125\004  
\006\023\002\120\114\061\042\060\040\006\003\125\004\012\023\031  
\125\156\151\172\145\164\157\040\124\145\143\150\156\157\154\157  
\147\151\145\163\040\123\056\101\056\061\047\060\045\006\003\125  
\004\013\023\036\103\145\162\164\165\155\040\103\145\162\164\151  
\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151  
\164\171\061\044\060\042\006\003\125\004\003\023\033\103\145\162  
\164\165\155\040\124\162\165\163\164\145\144\040\116\145\164\167  
\157\162\153\040\103\101\040\062\060\202\002\042\060\015\006\011  
\052\206\110\206\367\015\001\001\001\005\000\003\202\002\017\000  
\060\202\002\012\002\202\002\001\000\275\371\170\370\346\325\200  
\014\144\235\206\033\226\144\147\077\042\072\036\165\001\175\357  
\373\134\147\214\311\314\134\153\251\221\346\271\102\345\040\113  
\233\332\233\173\271\231\135\331\233\200\113\327\204\100\053\047  
\323\350\272\060\273\076\011\032\247\111\225\357\053\100\044\302  
\227\307\247\356\233\045\357\250\012\000\227\205\132\252\235\334  
\051\311\342\065\007\353\160\115\112\326\301\263\126\270\241\101  
\070\233\321\373\061\177\217\340\137\341\261\077\017\216\026\111  
\140\327\006\215\030\371\252\046\020\253\052\323\320\321\147\215  
\033\106\276\107\060\325\056\162\321\305\143\332\347\143\171\104  
\176\113\143\044\211\206\056\064\077\051\114\122\213\052\247\300  
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\227\301\306\120\222\233\002\054\275\251\271\064\131\012\277\204  
\112\377\337\376\263\237\353\331\236\340\230\043\354\246\153\167  
\026\052\333\314\255\073\034\244\207\334\106\163\136\031\142\150  
\105\127\344\220\202\102\273\102\326\360\141\340\301\243\075\146  
\243\135\364\030\356\210\311\215\027\105\051\231\062\165\002\061  
\356\051\046\310\153\002\346\265\142\105\177\067\025\132\043\150  
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\263\036\320\006\132\335\366\223\317\127\165\231\365\372\206\032  
\147\170\263\277\226\376\064\334\275\347\122\126\345\263\345\165  
\173\327\101\221\005\334\135\151\343\225\015\103\271\374\203\226  
\071\225\173\154\200\132\117\023\162\306\327\175\051\172\104\272  
\122\244\052\325\101\106\011\040\376\042\240\266\133\060\215\274  
\211\014\325\327\160\370\207\122\375\332\357\254\121\056\007\263  
\116\376\320\011\332\160\357\230\372\126\346\155\333\265\127\113  
\334\345\054\045\025\310\236\056\170\116\370\332\234\236\206\054  
\312\127\363\032\345\310\222\213\032\202\226\172\303\274\120\022  
\151\330\016\132\106\213\072\353\046\372\043\311\266\260\201\276  
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\001\006\060\015\006\011\052\206\110\206\367\015\001\001\015\005  
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\134\336\064\207\076\101\260\016\366\271\326\077\011\023\226\024  
\057\336\232\035\132\271\126\316\065\072\260\137\160\115\136\343  
\051\361\043\050\162\131\266\253\302\214\146\046\034\167\054\046  
\166\065\213\050\247\151\240\371\073\365\043\335\205\020\164\311  
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\224\154\347\267\224\113\272\055\244\332\063\213\114\246\104\377  
\132\074\306\035\144\330\265\061\344\246\074\172\250\127\013\333  
\355\141\032\313\361\316\163\167\143\244\207\157\114\121\070\326  
\344\137\307\237\266\201\052\344\205\110\171\130\136\073\370\333  
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\150\133\250\104\031\041\360\247\350\201\015\054\350\223\066\264  
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\077\373\243\232\376\163\062\161\302\236\306\162\341\212\150\047  
\361\344\017\264\304\114\245\141\223\370\227\020\007\052\060\045  
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\150\004\106\256\266\331\233\214\276\031\276\261\306\362\031\343  
\134\002\312\054\330\157\112\007\331\311\065\332\100\165\362\304  
\247\031\157\236\102\020\230\165\346\225\213\140\274\355\305\022  
\327\212\316\325\230\134\126\226\003\305\356\167\006\065\377\317  
\344\356\077\023\141\356\333\332\055\205\360\315\256\235\262\030  
\011\105\303\222\241\162\027\374\107\266\240\013\054\361\304\336  
\103\150\010\152\137\073\360\166\143\373\314\006\054\246\306\342  
\016\265\271\276\044\217

END

CKA\_NSS\_MOZILLA\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "Certum Trusted Network CA 2"

# Issuer: CN=Certum Trusted Network CA 2,OU=Certum Certification Authority,O=Unizeto Technologies  
S.A.,C=PL

# Serial Number:21:d6:d0:4a:4f:25:0f:c9:32:37:fc:aa:5e:12:8d:e9

```
Subject: CN=Certum Trusted Network CA 2,OU=Certum Certification Authority,O=Unizeto Technologies
S.A.,C=PL
Not Valid Before: Thu Oct 06 08:39:56 2011
Not Valid After : Sat Oct 06 08:39:56 2046
Fingerprint (SHA-256):
B6:76:F2:ED:DA:E8:77:5C:D3:6C:B0:F6:3C:D1:D4:60:39:61:F4:9E:62:65:BA:01:3A:2F:03:07:B6:D0:B8:04
Fingerprint (SHA1): D3:DD:48:3E:2B:BF:4C:05:E8:AF:10:F5:FA:76:26:CF:D3:DC:30:92
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certum Trusted Network CA 2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\323\335\110\076\053\277\114\005\350\257\020\365\372\166\046\317
\323\334\060\222
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\155\106\236\331\045\155\010\043\133\136\164\175\036\047\333\362
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\200\061\013\060\011\006\003\125\004\006\023\002\120\114
\061\042\060\040\006\003\125\004\012\023\031\125\156\151\172\145
\164\157\040\124\145\143\150\156\157\154\157\147\151\145\163\040
\123\056\101\056\061\047\060\045\006\003\125\004\013\023\036\103
\145\162\164\165\155\040\103\145\162\164\151\146\151\143\141\164
\151\157\156\040\101\165\164\150\157\162\151\164\171\061\044\060
\042\006\003\125\004\003\023\033\103\145\162\164\165\155\040\124
\162\165\163\164\145\144\040\116\145\164\167\157\162\153\040\103
\101\040\062
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\020\041\326\320\112\117\045\017\311\062\067\374\252\136\022
\215\351
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Hellenic Academic and Research Institutions RootCA 2015"
#
Issuer: CN=Hellenic Academic and Research Institutions RootCA 2015,O=Hellenic Academic and Research
Institutions Cert. Authority,L=Athens,C=GR
#
Serial Number: 0 (0x0)
Subject: CN=Hellenic Academic and Research Institutions RootCA 2015,O=Hellenic Academic and Research
```

```
Institutions Cert. Authority,L=Athens,C=GR
Not Valid Before: Tue Jul 07 10:11:21 2015
Not Valid After : Sat Jun 30 10:11:21 2040
Fingerprint (SHA-256):
A0:40:92:9A:02:CE:53:B4:AC:F4:F2:FF:C6:98:1C:E4:49:6F:75:5E:6D:45:FE:0B:2A:69:2B:CD:52:52:3F:36
Fingerprint (SHA1): 01:0C:06:95:A6:98:19:14:FF:BF:5F:C6:B0:B6:95:EA:29:E9:12:A6
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Hellenic Academic and Research Institutions RootCA 2015"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\246\061\013\060\011\006\003\125\004\006\023\002\107\122
\061\017\060\015\006\003\125\004\007\023\006\101\164\150\145\156
\163\061\104\060\102\006\003\125\004\012\023\073\110\145\154\154
\145\156\151\143\040\101\143\141\144\145\155\151\143\040\141\156
\144\040\122\145\163\145\141\162\143\150\040\111\156\163\164\151
\164\165\164\151\157\156\163\040\103\145\162\164\056\040\101\165
\164\150\157\162\151\164\171\061\100\060\076\006\003\125\004\003
\023\067\110\145\154\154\145\156\151\143\040\101\143\141\144\145
\155\151\143\040\141\156\144\040\122\145\163\145\141\162\143\150
\040\111\156\163\164\151\164\165\164\151\157\156\163\040\122\157
\157\164\103\101\040\062\060\061\065
END
CKA_ID
UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\246\061\013\060\011\006\003\125\004\006\023\002\107\122
\061\017\060\015\006\003\125\004\007\023\006\101\164\150\145\156
\163\061\104\060\102\006\003\125\004\012\023\073\110\145\154\154
\145\156\151\143\040\101\143\141\144\145\155\151\143\040\141\156
\144\040\122\145\163\145\141\162\143\150\040\111\156\163\164\151
\164\165\164\151\157\156\163\040\103\145\162\164\056\040\101\165
\164\150\157\162\151\164\171\061\100\060\076\006\003\125\004\003
\023\067\110\145\154\154\145\156\151\143\040\101\143\141\144\145
\155\151\143\040\141\156\144\040\122\145\163\145\141\162\143\150
\040\111\156\163\164\151\164\165\164\151\157\156\163\040\122\157
\157\164\103\101\040\062\060\061\065
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\001\000
END
CKA_VALUE MULTILINE_OCTAL
\060\202\006\013\060\202\003\363\240\003\002\001\002\002\001\000
\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060
\201\246\061\013\060\011\006\003\125\004\006\023\002\107\122\061
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\017\060\015\006\003\125\004\007\023\006\101\164\150\145\156\163  
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\165\164\151\157\156\163\040\103\145\162\164\056\040\101\165\164  
\150\157\162\151\164\171\061\100\060\076\006\003\125\004\003\023  
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\060\067\061\060\061\061\062\061\132\027\015\064\060\060\066\063  
\060\061\060\061\061\062\061\132\060\201\246\061\013\060\011\006  
\003\125\004\006\023\002\107\122\061\017\060\015\006\003\125\004  
\007\023\006\101\164\150\145\156\163\061\104\060\102\006\003\125  
\004\012\023\073\110\145\154\154\145\156\151\143\040\101\143\141  
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\143\150\040\111\156\163\164\151\164\165\164\151\157\156\163\040  
\103\145\162\164\056\040\101\165\164\150\157\162\151\164\171\061  
\100\060\076\006\003\125\004\003\023\067\110\145\154\154\145\156  
\151\143\040\101\143\141\144\145\155\151\143\040\141\156\144\040  
\122\145\163\145\141\162\143\150\040\111\156\163\164\151\164\165  
\164\151\157\156\163\040\122\157\157\164\103\101\040\062\060\061  
\065\060\202\002\042\060\015\006\011\052\206\110\206\367\015\001  
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\001\000\302\370\251\077\033\211\374\074\074\004\135\075\220\066  
\260\221\072\171\074\146\132\357\155\071\001\111\032\264\267\317  
\177\115\043\123\267\220\000\343\023\052\050\246\061\361\221\000  
\343\050\354\256\041\101\316\037\332\375\175\022\133\001\203\017  
\271\260\137\231\341\362\022\203\200\115\006\076\337\254\257\347  
\241\210\153\061\257\360\213\320\030\063\270\333\105\152\064\364  
\002\200\044\050\012\002\025\225\136\166\052\015\231\072\024\133  
\366\313\313\123\274\023\115\001\210\067\224\045\033\102\274\042  
\330\216\243\226\136\072\331\062\333\076\350\360\020\145\355\164  
\341\057\247\174\257\047\064\273\051\175\233\266\317\011\310\345  
\323\012\374\210\145\145\164\012\334\163\034\134\315\100\261\034  
\324\266\204\214\114\120\317\150\216\250\131\256\302\047\116\202  
\242\065\335\024\364\037\377\262\167\325\207\057\252\156\175\044  
\047\347\306\313\046\346\345\376\147\007\143\330\105\015\335\072  
\131\145\071\130\172\222\231\162\075\234\204\136\210\041\270\325  
\364\054\374\331\160\122\117\170\270\275\074\053\213\225\230\365  
\263\321\150\317\040\024\176\114\134\137\347\213\345\365\065\201  
\031\067\327\021\010\267\146\276\323\112\316\203\127\000\072\303  
\201\370\027\313\222\066\135\321\243\330\165\033\341\213\047\352  
\172\110\101\375\105\031\006\255\047\231\116\301\160\107\335\265  
\237\201\123\022\345\261\214\110\135\061\103\027\343\214\306\172  
\143\226\113\051\060\116\204\116\142\031\136\074\316\227\220\245  
\177\001\353\235\340\370\213\211\335\045\230\075\222\266\176\357  
\331\361\121\121\175\055\046\310\151\131\141\340\254\152\270\052

\066\021\004\172\120\275\062\204\276\057\334\162\325\327\035\026  
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\144\365\015\030\207\331\256\210\325\372\204\301\072\300\151\050  
\055\362\015\150\121\252\343\245\167\306\244\220\016\241\067\213  
\061\043\107\301\011\010\353\156\367\170\233\327\202\374\204\040  
\231\111\031\266\022\106\261\373\105\125\026\251\243\145\254\234  
\007\017\352\153\334\037\056\006\162\354\206\210\022\344\055\333  
\137\005\057\344\360\003\323\046\063\347\200\302\315\102\241\027  
\064\013\002\003\001\000\001\243\102\060\100\060\017\006\003\125  
\035\023\001\001\377\004\005\060\003\001\001\377\060\016\006\003  
\125\035\017\001\001\377\004\004\003\002\001\006\060\035\006\003  
\125\035\016\004\026\004\024\161\025\147\310\310\311\275\165\135  
\162\320\070\030\152\235\363\161\044\124\013\060\015\006\011\052  
\206\110\206\367\015\001\001\013\005\000\003\202\002\001\000\165  
\273\155\124\113\252\020\130\106\064\362\142\327\026\066\135\010  
\136\325\154\310\207\275\264\056\106\362\061\370\174\352\102\265  
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\063\201\260\126\023\276\346\121\134\330\233\012\117\113\234\126  
\123\002\351\117\366\015\140\352\115\102\125\350\174\033\041\041  
\323\033\072\314\167\362\270\220\361\150\307\371\132\376\372\055  
\364\277\311\365\105\033\316\070\020\052\067\212\171\243\264\343  
\011\154\205\206\223\377\211\226\047\170\201\217\147\343\106\164  
\124\216\331\015\151\342\112\364\115\164\003\377\262\167\355\225  
\147\227\344\261\305\253\277\152\043\350\324\224\342\104\050\142  
\304\113\342\360\330\342\051\153\032\160\176\044\141\223\173\117  
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\217\301\254\032\305\147\363\157\064\322\372\163\143\214\357\026  
\260\250\244\106\052\370\353\022\354\162\264\357\370\053\176\214  
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\253\330\313\222\315\224\070\141\016\007\006\037\113\106\020\361  
\025\276\215\205\134\073\112\053\201\171\017\264\151\237\111\120  
\227\115\367\016\126\135\300\225\152\302\066\303\033\150\311\365  
\052\334\107\232\276\262\316\305\045\350\372\003\271\332\371\026  
\156\221\204\365\034\050\310\374\046\314\327\034\220\126\247\137  
\157\072\004\274\315\170\211\013\216\017\057\243\252\117\242\033  
\022\075\026\010\100\017\361\106\114\327\252\173\010\301\012\365  
\155\047\336\002\217\312\303\265\053\312\351\353\310\041\123\070  
\245\314\073\330\167\067\060\242\117\331\157\321\362\100\255\101  
\172\027\305\326\112\065\211\267\101\325\174\206\177\125\115\203  
\112\245\163\040\300\072\257\220\361\232\044\216\331\216\161\312  
\173\270\206\332\262\217\231\076\035\023\015\022\021\356\324\253  
\360\351\025\166\002\344\340\337\252\040\036\133\141\205\144\100  
\251\220\227\015\255\123\322\132\035\207\152\000\227\145\142\264  
\276\157\152\247\365\054\102\355\062\255\266\041\236\276\274

END

CKA\_NSS\_MOZILLA\_CA\_POLICY

```
CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "Hellenic Academic and Research Institutions RootCA 2015"
Issuer: CN=Hellenic Academic and Research Institutions RootCA 2015,O=Hellenic Academic and Research
Institutions Cert. Authority,L=Athens,C=GR
Serial Number: 0 (0x0)
Subject: CN=Hellenic Academic and Research Institutions RootCA
2015,O=Hellenic Academic and Research Institutions Cert. Authority,L=Athens,C=GR
Not Valid Before: Tue Jul 07 10:11:21 2015
Not Valid After : Sat Jun 30 10:11:21 2040
Fingerprint (SHA-256):
A0:40:92:9A:02:CE:53:B4:AC:F4:F2:FF:C6:98:1C:E4:49:6F:75:5E:6D:45:FE:0B:2A:69:2B:CD:52:52:3F:36
Fingerprint (SHA1): 01:0C:06:95:A6:98:19:14:FF:BF:5F:C6:B0:B6:95:EA:29:E9:12:A6
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Hellenic Academic and Research Institutions RootCA 2015"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\001\014\006\225\246\230\031\024\377\277\137\306\260\266\225\352
\051\351\022\246
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\312\377\342\333\003\331\313\113\351\017\255\204\375\173\030\316
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\246\061\013\060\011\006\003\125\004\006\023\002\107\122
\061\017\060\015\006\003\125\004\007\023\006\101\164\150\145\156
\163\061\104\060\102\006\003\125\004\012\023\073\110\145\154\154
\145\156\151\143\040\101\143\141\144\145\155\151\143\040\141\156
\144\040\122\145\163\145\141\162\143\150\040\111\156\163\164\151
\164\165\164\151\157\156\163\040\103\145\162\164\056\040\101\165
\164\150\157\162\151\164\171\061\100\060\076\006\003\125\004\003
\023\067\110\145\154\154\145\156\151\143\040\101\143\141\144\145
\155\151\143\040\141\156\144\040\122\145\163\145\141\162\143\150
\040\111\156\163\164\151\164\165\164\151\157\156\163\040\122\157
\157\164\103\101\040\062\060\061\065
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\001\000
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
```

```
#
Certificate "Hellenic Academic and Research Institutions ECC RootCA 2015"
#
Issuer: CN=Hellenic Academic and Research Institutions ECC RootCA 2015,O=Hellenic Academic and Research
Institutions Cert. Authority,L=Athens,C=GR
#
Serial Number: 0 (0x0)
Subject: CN=Hellenic Academic and Research Institutions ECC RootCA 2015,O=Hellenic Academic and
Research Institutions Cert. Authority,L=Athens,C=GR
Not Valid Before: Tue Jul 07 10:37:12 2015
Not Valid After : Sat Jun 30 10:37:12 2040
Fingerprint (SHA-256):
44:B5:45:AA:8A:25:E6:5A:73:CA:15:DC:27:FC:36:D2:4C:1C:B9:95:3A:06:65:39:B1:15:82:DC:48:7B:48:33
Fingerprint (SHA1): 9F:F1:71:8D:92:D5:9A:F3:7D:74:97:B4:BC:6F:84:68:0B:BA:B6:66
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Hellenic Academic and Research Institutions ECC RootCA 2015"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\252\061\013\060\011\006\003\125\004\006\023\002\107\122
\061\017\060\015\006\003\125\004\007\023\006\101\164\150\145\156
\163\061\104\060\102\006\003\125\004\012\023\073\110\145\154\154
\145\156\151\143\040\101\143\141\144\145\155\151\143\040\141\156
\144\040\122\145\163\145\141\162\143\150\040\111\156\163\164\151
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\155\151\143\040\141\156\144\040\122\145\163\145\141\162\143\150
\040\111\156\163\164\151\164\165\164\151\157\156\163\040\105\103
\103\040\122\157\157\164\103\101\040\062\060\061\065
END
CKA_ID
UTF8 "0"
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\061\017\060\015\006\003\125\004\007\023\006\101\164\150\145\156
\163\061\104\060\102\006\003\125\004\012\023\073\110\145\154\154
\145\156\151\143\040\101\143\141\144\145\155\151\143\040\141\156
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\023\073\110\145\154\154\145\156\151\143\040\101\143\141\144\145
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\040\111\156\163\164\151\164\165\164\151\157\156\163\040\105\103
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END

CKA\_SERIAL\_NUMBER

MULTILINE\_OCTAL

\002\001\000

END

CKA\_VALUE MULTILINE\_OCTAL

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\006\003\125\004\007\023\006\101\164\150\145\156\163\061\104\060  
\102\006\003\125\004\012\023\073\110\145\154\154\145\156\151\143  
\040\101\143\141\144\145\155\151\143\040\141\156\144\040\122\145  
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\157\156\163\040\103\145\162\164\056\040\101\165\164\150\157\162  
\151\164\171\061\104\060\102\006\003\125\004\003\023\073\110\145  
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\067\060\067\061\060\063\067\061\062\132\027\015\064\060\060\066  
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\040\122\145\163\145\141\162\143\150\040\111\156\163\164\151\164  
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\101\040\062\060\061\065\060\166\060\020\006\007\052\206\110\316  
\075\002\001\006\005\053\201\004\000\042\003\142\000\004\222\240  
\101\350\113\202\204\134\342\370\061\021\231\206\144\116\011\045  
\057\235\101\057\012\256\065\117\164\225\262\121\144\153\215\153  
\346\077\160\225\360\005\104\107\246\162\070\120\166\225\002\132  
\216\256\050\236\371\055\116\231\357\054\110\157\114\045\051\350  
\321\161\133\337\035\301\165\067\264\327\372\173\172\102\234\152  
\012\126\132\174\151\013\252\200\011\044\154\176\301\106\243\102  
\060\100\060\017\006\003\125\035\023\001\001\377\004\005\060\003  
\001\001\377\060\016\006\003\125\035\017\001\001\377\004\004\003  
\002\001\006\060\035\006\003\125\035\016\004\026\004\024\264\042  
\013\202\231\044\001\016\234\273\344\016\375\277\373\227\040\223  
\231\052\060\012\006\010\052\206\110\316\075\004\003\002\003\147  
\000\060\144\002\060\147\316\026\142\070\242\254\142\105\247\251  
\225\044\300\032\047\234\062\073\300\300\325\272\251\347\370\004  
\103\123\205\356\122\041\336\235\365\045\203\076\236\130\113\057  
\327\147\023\016\041\002\060\005\341\165\001\336\150\355\052\037

```
\115\114\011\010\015\354\113\255\144\027\050\347\165\316\105\145
\162\041\027\313\042\101\016\214\023\230\070\232\124\155\233\312
\342\174\352\002\130\042\221
```

END

CKA\_NSS\_Mozilla\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "Hellenic Academic and Research Institutions ECC RootCA 2015"

# Issuer: CN=Hellenic Academic and Research Institutions ECC RootCA 2015,O=Hellenic Academic and Research Institutions Cert. Authority,L=Athens,C=GR

# Serial Number: 0 (0x0)

# Subject: CN=Hellenic Academic and Research Institutions ECC RootCA 2015,O=Hellenic Academic and Research Institutions Cert. Authority,L=Athens,C=GR

# Not Valid Before: Tue Jul 07 10:37:12 2015

# Not Valid After : Sat Jun 30 10:37:12 2040

# Fingerprint (SHA-256):

44:B5:45:AA:8A:25:E6:5A:73:CA:15:DC:27:FC:36:D2:4C:1C:B9:95:3A:06:65:39:B1:15:82:DC:48:7B:48:33

# Fingerprint (SHA1): 9F:F1:71:8D:92:D5:9A:F3:7D:74:97:B4:BC:6F:84:68:0B:BA:B6:66

CKA\_CLASS

CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "Hellenic Academic and Research Institutions ECC RootCA 2015"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

```
\237\361\161\215\222\325\232\363\175\164\227\264\274\157\204\150
\013\272\266\146
```

END

CKA\_CERT\_MD5\_HASH MULTILINE\_OCTAL

```
\201\345\264\027\353\302\365\341\113\015\101\173\111\222\376\357
```

END

CKA\_ISSUER MULTILINE\_OCTAL

```
\060\201\252\061\013\060\011\006\003\125\004\006\023\002\107\122
\061\017\060\015\006\003\125\004\007\023\006\101\164\150\145\156
\163\061\104\060\102\006\003\125\004\012\023\073\110\145\154\154
\145\156\151\143\040\101\143\141\144\145\155\151\143\040\141\156
\144\040\122\145\163\145\141\162\143\150\040\111\156\163\164\151
\164\165\164\151\157\156\163\040\103\145\162\164\056\040\101\165
\164\150\157\162\151\164\171\061\104\060\102\006\003\125\004\003
\023\073\110\145\154\154\145\156\151\143\040\101\143\141\144\145
\155\151\143\040\141\156\144\040\122\145\163\145\141\162\143\150
\040\111\156\163\164\151\164\165\164\151\157\156\163\040\105\103
\103\040\122\157\157\164\103\101\040\062\060\061\065
```

END

CKA\_SERIAL\_NUMBER

```

MULTILINE_OCTAL
\002\001\000
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "ISRG Root X1"
#
Issuer: CN=ISRG Root X1,O=Internet Security Research Group,C=US
Serial Number:00:82:10:cf:b0:d2:40:e3:59:44:63:e0:bb:63:82:8b:00
Subject: CN=ISRG Root X1,O=Internet Security Research Group,C=US
Not Valid Before: Thu Jun 04 11:04:38 2015
Not Valid After : Mon Jun 04 11:04:38 2035
Fingerprint (SHA-256):
96:BC:EC:06:26:49:76:F3:74:60:77:9A:CF:28:C5:A7:CF:E8:A3:C0:AA:E1:1A:8F:FC:EE:05:C0:BD:DF:08:C6
Fingerprint (SHA1): CA:BD:2A:79:A1:07:6A:31:F2:1D:25:36:35:CB:03:9D:43:29:A5:E8
CKA_CLASS
CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ISRG Root X1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\117\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\051\060\047\006\003\125\004\012\023\040\111\156\164\145\162\156
\145\164\040\123\145\143\165\162\151\164\171\040\122\145\163\145
\141\162\143\150\040\107\162\157\165\160\061\025\060\023\006\003
\125\004\003\023\014\111\123\122\107\040\122\157\157\164\040\130
\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\117\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\051\060\047\006\003\125\004\012\023\040\111\156\164\145\162\156
\145\164\040\123\145\143\165\162\151\164\171\040\122\145\163\145
\141\162\143\150\040\107\162\157\165\160\061\025\060\023\006\003
\125\004\003\023\014\111\123\122\107\040\122\157\157\164\040\130
\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\021\000\202\020\317\260\322\100\343\131\104\143\340\273\143
\202\213\000
END
CKA_VALUE

```

MULTILINE\_OCTAL

\060\202\005\153\060\202\003\123\240\003\002\001\002\002\021\000  
\202\020\317\260\322\100\343\131\104\143\340\273\143\202\213\000  
\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060  
\117\061\013\060\011\006\003\125\004\006\023\002\125\123\061\051  
\060\047\006\003\125\004\012\023\040\111\156\164\145\162\156\145  
\164\040\123\145\143\165\162\151\164\171\040\122\145\163\145\141  
\162\143\150\040\107\162\157\165\160\061\025\060\023\006\003\125  
\004\003\023\014\111\123\122\107\040\122\157\157\164\040\130\061  
\060\036\027\015\061\065\060\066\060\064\061\061\060\064\063\070  
\132\027\015\063\065\060\066\060\064\061\061\060\064\063\070\132  
\060\117\061\013\060\011\006\003\125\004\006\023\002\125\123\061  
\051\060\047\006\003\125\004\012\023\040\111\156\164\145\162\156  
\145\164\040\123\145\143\165\162\151\164\171\040\122\145\163\145  
\141\162\143\150\040\107\162\157\165\160\061\025\060\023\006\003  
\125\004\003\023\014\111\123\122\107\040\122\157\157\164\040\130  
\061\060\202\002\042\060\015\006\011\052\206\110\206\367\015\001  
\001\001\005\000\003\202\002\017\000\060\202\002\012\002\202\002  
\001\000\255\350\044\163\364\024\067\363\233\236\053\127\050\034  
\207\276\334\267\337\070\220\214\156\074\346\127\240\170\367\165  
\302\242\376\365\152\156\366\000\117\050\333\336\150\206\154\104  
\223\266\261\143\375\024\022\153\277\037\322\352\061\233\041\176  
\321\063\074\272\110\365\335\171\337\263\270\377\022\361\041\232  
\113\301\212\206\161\151\112\146\146\154\217\176\074\160\277\255  
\051\042\006\363\344\300\346\200\256\342\113\217\267\231\176\224  
\003\237\323\107\227\174\231\110\043\123\350\070\256\117\012\157  
\203\056\321\111\127\214\200\164\266\332\057\320\070\215\173\003  
\160\041\033\165\362\060\074\372\217\256\335\332\143\253\353\026  
\117\302\216\021\113\176\317\013\350\377\265\167\056\364\262\173  
\112\340\114\022\045\014\160\215\003\051\240\341\123\044\354\023  
\331\356\031\277\020\263\112\214\077\211\243\141\121\336\254\207  
\007\224\364\143\161\354\056\342\157\133\230\201\341\211\134\064  
\171\154\166\357\073\220\142\171\346\333\244\232\057\046\305\320  
\020\341\016\336\331\020\216\026\373\267\367\250\367\307\345\002  
\007\230\217\066\010\225\347\342\067\226\015\066\165\236\373\016  
\162\261\035\233\274\003\371\111\005\330\201\335\005\264\052\326  
\101\351\254\001\166\225\012\017\330\337\325\275\022\037\065\057  
\050\027\154\322\230\301\250\011\144\167\156\107\067\272\316\254  
\131\136\150\235\177\162\326\211\305\006\101\051\076\131\076\335  
\046\365\044\311\021\247\132\243\114\100\037\106\241\231\265\247  
\072\121\156\206\073\236\175\162\247\022\005\170\131\355\076\121  
\170\025\013\003\217\215\320\057\005\262\076\173\112\034\113\163  
\005\022\374\306\352\340\120\023\174\103\223\164\263\312\164\347  
\216\037\001\010\320\060\324\133\161\066\264\007\272\301\060\060  
\134\110\267\202\073\230\246\175\140\212\242\243\051\202\314\272  
\275\203\004\033\242\203\003\101\241\326\005\361\033\302\266\360  
\250\174\206\073\106\250\110\052\210\334\166\232\166\277\037\152  
\245\075\031\217\353\070\363\144\336\310\053\015\012\050\377\367



\333\342\025\102\324\042\320\047\135\341\171\376\030\347\160\210  
\255\116\346\331\213\072\306\335\047\121\156\377\274\144\365\063  
\103\117\002\003\001\000\001\243\102\060\100\060\016\006\003\125  
\035\017\001\001\377\004\004\003\002\001\006\060\017\006\003\125  
\035\023\001\001\377\004\005\060\003\001\001\377\060\035\006\003  
\125\035\016\004\026\004\024\171\264\131\346\173\266\345\344\001  
\163\200\010\210\310\032\130\366\351\233\156\060\015\006\011\052  
\206\110\206\367\015\001\001\013\005\000\003\202\002\001\000\125  
\037\130\251\274\262\250\120\320\014\261\330\032\151\040\047\051  
\010\254\141\165\134\212\156\370\202\345\151\057\325\366\126\113  
\271\270\163\020\131\323\041\227\176\347\114\161\373\262\322\140  
\255\071\250\013\352\027\041\126\205\361\120\016\131\353\316\340  
\131\351\272\311\025\357\206\235\217\204\200\366\344\351\221\220  
\334\027\233\142\033\105\360\146\225\322\174\157\302\352\073\357  
\037\317\313\326\256\047\361\251\260\310\256\375\175\176\232\372  
\042\004\353\377\331\177\352\221\053\042\261\027\016\217\362\212  
\064\133\130\330\374\001\311\124\271\270\046\314\212\210\063\211  
\114\055\204\074\202\337\356\226\127\005\272\054\273\367\304\267  
\307\116\073\202\276\061\310\042\163\163\222\321\302\200\244\071  
\071\020\063\043\202\114\074\237\206\262\125\230\035\276\051\206  
\214\042\233\236\342\153\073\127\072\202\160\115\334\011\307\211  
\313\012\007\115\154\350\135\216\311\357\316\253\307\273\265\053  
\116\105\326\112\320\046\314\345\162\312\010\152\245\225\343\025  
\241\367\244\355\311\054\137\245\373\377\254\050\002\056\276\327  
\173\273\343\161\173\220\026\323\007\136\106\123\174\067\007\102  
\214\323\304\226\234\325\231\265\052\340\225\032\200\110\256\114  
\071\007\316\314\107\244\122\225\053\272\270\373\255\322\063\123  
\175\345\035\115\155\325\241\261\307\102\157\346\100\047\065\134  
\243\050\267\007\215\347\215\063\220\347\043\237\373\120\234\171  
\154\106\325\264\025\263\226\156\176\233\014\226\072\270\122\055  
\077\326\133\341\373\010\302\204\376\044\250\243\211\332\254\152  
\341\030\052\261\250\103\141\133\323\037\334\073\215\166\362\055  
\350\215\165\337\027\063\154\075\123\373\173\313\101\137\377\334  
\242\320\141\070\341\226\270\254\135\213\067\327\165\325\063\300  
\231\021\256\235\101\301\162\165\204\276\002\101\102\137\147\044  
\110\224\321\233\047\276\007\077\271\270\117\201\164\121\341\172  
\267\355\235\043\342\276\340\325\050\004\023\074\061\003\236\335  
\172\154\217\306\007\030\306\177\336\107\216\077\050\236\004\006  
\317\245\124\064\167\275\354\211\233\351\027\103\337\133\333\137  
\376\216\036\127\242\315\100\235\176\142\042\332\336\030\047

END

CKA\_NSS\_MOZILLA\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRUST\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRUST\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "ISRG Root X1"

# Issuer: CN=ISRG Root X1,O=Internet Security Research Group,C=US

```
Serial Number:00:82:10:cf:b0:d2:40:e3:59:44:63:e0:bb:63:82:8b:00
#
Subject: CN=ISRG Root X1,O=Internet Security Research Group,C=US
Not Valid Before: Thu Jun 04 11:04:38 2015
Not Valid After : Mon Jun 04 11:04:38 2035
Fingerprint (SHA-256):
96:BC:EC:06:26:49:76:F3:74:60:77:9A:CF:28:C5:A7:CF:E8:A3:C0:AA:E1:1A:8F:FC:EE:05:C0:BD:DF:08:C6
Fingerprint (SHA1): CA:BD:2A:79:A1:07:6A:31:F2:1D:25:36:35:CB:03:9D:43:29:A5:E8
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ISRG Root X1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\312\275\052\171\241\007\152\061\362\035\045\066\065\313\003\235
\103\051\245\350
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\014\322\371\340\332\027\163\351\355\206\115\245\343\160\347\116
END
CKA_ISSUER MULTILINE_OCTAL
\060\117\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\051\060\047\006\003\125\004\012\023\040\111\156\164\145\162\156
\145\164\040\123\145\143\165\162\151\164\171\040\122\145\163\145
\141\162\143\150\040\107\162\157\165\160\061\025\060\023\006\003
\125\004\003\023\014\111\123\122\107\040\122\157\157\164\040\130
\061
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\021\000\202\020\317\260\322\100\343\131\104\143\340\273\143
\202\213\000
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "AC RAIZ FNMT-RCM"
#
Issuer: OU=AC RAIZ FNMT-RCM,O=FNMT-RCM,C=ES
Serial Number:5d:93:8d:30:67:36:c8:06:1d:1a:c7:54:84:69:07
Subject: OU=AC RAIZ FNMT-RCM,O=FNMT-RCM,C=ES
Not Valid Before: Wed Oct 29 15:59:56 2008
Not Valid After : Tue Jan 01 00:00:00 2030
Fingerprint (SHA-256):
EB:C5:57:0C:29:01:8C:4D:67:B1:AA:12:7B:AF:12:F7:03:B4:61:1E:BC:17:B7:DA:B5:57:38:94:17:9B:93:FA
```

# Fingerprint (SHA1): EC:50:35:07:B2:15:C4:95:62:19:E2:A8:9A:5B:42:99:2C:4C:2C:20

```
CKA_CLASS CK_OBJECT_CLASS
CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AC RAIZ FNMT-RCM"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\073\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\021\060\017\006\003\125\004\012\014\010\106\116\115\124\055\122
\103\115\061\031\060\027\006\003\125\004\013\014\020\101\103\040
\122\101\111\132\040\106\116\115\124\055\122\103\115
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\073\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\021\060\017\006\003\125\004\012\014\010\106\116\115\124\055\122
\103\115\061\031\060\027\006\003\125\004\013\014\020\101\103\040
\122\101\111\132\040\106\116\115\124\055\122\103\115
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\017\135\223\215\060\147\066\310\006\035\032\307\124\204\151
\007
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\203\060\202\003\153\240\003\002\001\002\002\017\135
\223\215\060\147\066\310\006\035\032\307\124\204\151\007\060\015
\006\011\052\206\110\206\367\015\001\001\013\005\000\060\073\061
\013\060\011\006\003\125\004\006\023\002\105\123\061\021\060\017
\006\003\125\004\012\014\010\106\116\115\124\055\122\103\115\061
\031\060\027\006\003\125\004\013\014\020\101\103\040\122\101\111
\132\040\106\116\115\124\055\122\103\115\060\036\027\015\060\070
\061\060\062\071\061\065\065\071\065\066\132\027\015\063\060\060
\061\060\061\060\060\060\060\060\132\060\073\061\013\060\011
\006\003\125\004\006\023\002\105\123\061\021\060\017\006\003\125
\004\012\014\010\106\116\115\124\055\122\103\115\061\031\060\027
\006\003\125\004\013\014\020\101\103\040\122\101\111\132\040\106
\116\115\124\055\122\103\115\060\202\002\042\060\015\006\011\052
\206\110\206\367\015\001\001\001\005\000\003\202\002\017\000\060
\202\002\012\002\202\002\001\000\272\161\200\172\114\206\156\177
\310\023\155\300\306\175\034\000\227\217\054\014\043\273\020\232
\100\251\032\267\207\210\370\233\126\152\373\346\173\216\213\222
\216\247\045\135\131\021\333\066\056\267\121\027\037\251\010\037
\004\027\044\130\252\067\112\030\337\345\071\324\127\375\327\301
\054\221\001\221\342\042\324\003\300\130\374\167\107\354\217\076
\164\103\272\254\064\215\115\070\166\147\216\260\310\157\060\063
\130\161\134\264\365\153\156\324\001\120\270\023\176\154\112\243
```

\111\321\040\031\356\274\300\051\030\145\247\336\376\357\335\012  
\220\041\347\032\147\222\102\020\230\137\117\060\274\076\034\105  
\264\020\327\150\100\024\300\100\372\347\167\027\172\346\013\217  
\145\133\074\331\232\122\333\265\275\236\106\317\075\353\221\005  
\002\300\226\262\166\114\115\020\226\073\222\372\234\177\017\231  
\337\276\043\065\105\036\002\134\376\265\250\233\231\045\332\136  
\363\042\303\071\365\344\052\056\323\306\037\304\154\252\305\034  
\152\001\005\112\057\322\305\301\250\064\046\135\146\245\322\002  
\041\371\030\267\006\365\116\231\157\250\253\114\121\350\317\120  
\030\305\167\310\071\011\054\111\222\062\231\250\273\027\027\171  
\260\132\305\346\243\304\131\145\107\065\203\136\251\350\065\013  
\231\273\344\315\040\306\233\112\006\071\265\150\374\042\272\356  
\125\214\053\116\352\363\261\343\374\266\231\232\325\102\372\161  
\115\010\317\207\036\152\161\175\371\323\264\351\245\161\201\173  
\302\116\107\226\245\366\166\205\243\050\217\351\200\156\201\123  
\245\155\137\270\110\371\302\371\066\246\056\111\377\270\226\302  
\214\007\263\233\210\130\374\353\033\034\336\055\160\342\227\222  
\060\241\211\343\274\125\250\047\326\113\355\220\255\213\372\143  
\045\131\055\250\065\335\312\227\063\274\345\315\307\235\321\354  
\357\136\016\112\220\006\046\143\255\271\331\065\055\007\272\166  
\145\054\254\127\217\175\364\007\224\327\201\002\226\135\243\007  
\111\325\172\320\127\371\033\347\123\106\165\252\260\171\102\313  
\150\161\010\351\140\275\071\151\316\364\257\303\126\100\307\255  
\122\242\011\344\157\206\107\212\037\353\050\047\135\203\040\257  
\004\311\154\126\232\213\106\365\002\003\001\000\001\243\201\203  
\060\201\200\060\017\006\003\125\035\023\001\001\377\004\005\060  
\003\001\001\377\060\016\006\003\125\035\017\001\001\377\004\004  
\003\002\001\006\060\035\006\003\125\035\016\004\026\004\024\367  
\175\305\375\304\350\232\033\167\144\247\365\035\240\314\277\207  
\140\232\155\060\076\006\003\125\035\040\004\067\060\065\060\063  
\006\004\125\035\040\000\060\053\060\051\006\010\053\006\001\005  
\005\007\002\001\026\035\150\164\164\160\072\057\057\167\167\167  
\056\143\145\162\164\056\146\156\155\164\056\145\163\057\144\160  
\143\163\057\060\015\006\011\052\206\110\206\367\015\001\001\013  
\005\000\003\202\002\001\000\007\220\112\337\363\043\116\360\303  
\234\121\145\233\234\042\242\212\014\205\363\163\051\153\115\376  
\001\342\251\014\143\001\277\004\147\245\235\230\137\375\001\023  
\372\354\232\142\351\206\376\266\142\322\156\114\224\373\300\165  
\105\174\145\014\370\262\067\317\254\017\317\215\157\371\031\367  
\217\354\036\362\160\236\360\312\270\357\267\377\166\067\166\133  
\366\156\210\363\257\142\062\042\223\015\072\152\216\024\146\014  
\055\123\164\127\145\036\325\262\335\043\201\073\245\146\043\047  
\147\011\217\341\167\252\103\315\145\121\010\355\121\130\376\346  
\071\371\313\107\204\244\025\361\166\273\244\356\244\073\304\137  
\357\262\063\226\021\030\267\311\145\276\030\341\243\244\334\372  
\030\371\323\274\023\233\071\172\064\272\323\101\373\372\062\212  
\052\267\053\206\013\151\203\070\276\315\212\056\013\160\255\215  
\046\222\356\036\365\001\053\012\331\326\227\233\156\340\250\031

```
\034\072\041\213\014\036\100\255\003\347\335\146\176\365\271\040
\015\003\350\226\371\202\105\324\071\340\240\000\135\327\230\346
\175\236\147\163\303\232\052\367\253\213\241\072\024\357\064\274
\122\016\211\230\232\004\100\204\035\176\105\151\223\127\316\353
\316\370\120\174\117\034\156\004\103\233\371\326\073\043\030\351
\352\216\321\115\106\215\361\073\344\152\312\272\373\043\267\233
\372\231\001\051\132\130\132\055\343\371\324\155\016\046\255\301
\156\064\274\062\370\014\005\372\145\243\333\073\067\203\042\351
\326\334\162\063\375\135\362\040\275\166\074\043\332\050\367\371
\033\353\131\144\325\334\137\162\176\040\374\315\211\265\220\147
\115\142\172\077\116\255\035\303\071\376\172\364\050\026\337\101
\366\110\200\005\327\017\121\171\254\020\253\324\354\003\146\346
\152\260\272\061\222\102\100\152\276\072\323\162\341\152\067\125
\274\254\035\225\267\151\141\362\103\221\164\346\240\323\012\044
\106\241\010\257\326\332\105\031\226\324\123\035\133\204\171\360
\300\367\107\357\213\217\305\006\256\235\114\142\235\377\106\004
\370\323\311\266\020\045\100\165\376\026\252\311\112\140\206\057
\272\357\060\167\344\124\342\270\204\231\130\200\252\023\213\121
\072\117\110\366\213\266\263
```

END

CKA\_NSS\_MOZILLA\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "AC RAIZ FNMT-RCM"

# Issuer: OU=AC RAIZ FNMT-RCM,O=FNMT-RCM,C=ES

# Serial Number:5d:93:8d:30:67:36:c8:06:1d:1a:c7:54:84:69:07

# Subject: OU=AC RAIZ FNMT-RCM,O=FNMT-RCM,C=ES

# Not Valid Before: Wed

Oct 29 15:59:56 2008

# Not Valid After : Tue Jan 01 00:00:00 2030

# Fingerprint (SHA-256):

EB:C5:57:0C:29:01:8C:4D:67:B1:AA:12:7B:AF:12:F7:03:B4:61:1E:BC:17:B7:DA:B5:57:38:94:17:9B:93:FA

# Fingerprint (SHA1): EC:50:35:07:B2:15:C4:95:62:19:E2:A8:9A:5B:42:99:2C:4C:2C:20

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "AC RAIZ FNMT-RCM"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

```
\354\120\065\007\262\025\304\225\142\031\342\250\232\133\102\231
\054\114\054\040
```

END

CKA\_CERT\_MD5\_HASH MULTILINE\_OCTAL

```
\342\011\004\264\323\275\321\240\024\375\032\322\107\304\127\035
```

END

CKA\_ISSUER MULTILINE\_OCTAL

```
\060\073\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\021\060\017\006\003\125\004\012\014\010\106\116\115\124\055\122
\103\115\061\031\060\027\006\003\125\004\013\014\020\101\103\040
\122\101\111\132\040\106\116\115\124\055\122\103\115
```

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

```
\002\017\135\223\215\060\147\066\310\006\035\032\307\124\204\151
\007
```

END

CKA\_TRUST\_SERVER\_AUTH

CK\_TRUST CKT\_NSS\_TRUSTED\_DELEGATOR

CKA\_TRUST\_EMAIL\_PROTECTION CK\_TRUST CKT\_NSS\_MUST\_VERIFY\_TRUST

CKA\_TRUST\_CODE\_SIGNING CK\_TRUST CKT\_NSS\_MUST\_VERIFY\_TRUST

CKA\_TRUST\_STEP\_UP\_APPROVED CK\_BBOOL CK\_FALSE

#

# Certificate "Amazon Root CA 1"

#

# Issuer: CN=Amazon Root CA 1,O=Amazon,C=US

# Serial Number:06:6c:9f:cf:99:bf:8c:0a:39:e2:f0:78:8a:43:e6:96:36:5b:ca

# Subject: CN=Amazon Root CA 1,O=Amazon,C=US

# Not Valid Before: Tue May 26 00:00:00 2015

# Not Valid After : Sun Jan 17 00:00:00 2038

# Fingerprint (SHA-256):

8E:CD:E6:88:4F:3D:87:B1:12:5B:A3:1A:C3:FC:B1:3D:70:16:DE:7F:57:CC:90:4F:E1:CB:97:C6:AE:98:19:6E

# Fingerprint (SHA1): 8D:A7:F9:65:EC:5E:FC:37:91:0F:1C:6E:59:FD:C1:CC:6A:6E:DE:16

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_CERTIFICATE

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "Amazon Root CA 1"

CKA\_CERTIFICATE\_TYPE CK\_CERTIFICATE\_TYPE CKC\_X\_509

CKA\_SUBJECT MULTILINE\_OCTAL

```
\060\071\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\017\060\015\006\003\125\004\012\023\006\101\155\141\172\157\156
\061\031\060\027\006\003\125\004\003\023\020\101\155\141\172\157
\156\040\122\157\157\164\040\103\101\040\061
```

END

CKA\_ID

UTF8 "0"

CKA\_ISSUER MULTILINE\_OCTAL

```
\060\071\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\017\060\015\006\003\125\004\012\023\006\101\155\141\172\157\156
\061\031\060\027\006\003\125\004\003\023\020\101\155\141\172\157
\156\040\122\157\157\164\040\103\101\040\061
```

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

```
\002\023\006\154\237\317\231\277\214\012\071\342\360\170\212\103
```

\346\226\066\133\312

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\003\101\060\202\002\051\240\003\002\001\002\002\023\006  
\154\237\317\231\277\214\012\071\342\360\170\212\103\346\226\066  
\133\312\060\015\006\011\052\206\110\206\367\015\001\001\013\005  
\000\060\071\061\013\060\011\006\003\125\004\006\023\002\125\123  
\061\017\060\015\006\003\125\004\012\023\006\101\155\141\172\157  
\156\061\031\060\027\006\003\125\004\003\023\020\101\155\141\172  
\157\156\040\122\157\157\164\040\103\101\040\061\060\036\027\015  
\061\065\060\065\062\066\060\060\060\060\060\132\027\015\063  
\070\060\061\061\067\060\060\060\060\060\132\060\071\061\013  
\060\011\006\003\125\004\006\023\002\125\123\061\017\060\015\006  
\003\125\004\012\023\006\101\155\141\172\157\156\061\031\060\027  
\006\003\125\004\003\023\020\101\155\141\172\157\156\040\122\157  
\157\164\040\103\101\040\061\060\202\001\042\060\015\006\011\052  
\206\110\206\367\015\001\001\001\005\000\003\202\001\017\000\060  
\202\001\012\002\202\001\001\000\262\170\200\161\312\170\325\343  
\161\257\107\200\120\164\175\156\330\327\210\166\364\231\150\367  
\130\041\140\371\164\204\001\057\254\002\055\206\323\240\103\172  
\116\262\244\320\066\272\001\276\215\333\110\310\007\027\066\114  
\364\356\210\043\307\076\353\067\365\265\031\370\111\150\260\336  
\327\271\166\070\035\141\236\244\376\202\066\245\345\112\126\344  
\105\341\371\375\264\026\372\164\332\234\233\065\071\057\372\260  
\040\120\006\154\172\320\200\262\246\371\257\354\107\031\217\120  
\070\007\334\242\207\071\130\370\272\325\251\371\110\147\060\226  
\356\224\170\136\157\211\243\121\300\060\206\146\241\105\146\272  
\124\353\243\303\221\371\110\334\377\321\350\060\055\175\055\164  
\160\065\327\210\044\367\236\304\131\156\273\163\207\027\362\062  
\106\050\270\103\372\267\035\252\312\264\362\237\044\016\055\113  
\367\161\134\136\151\377\352\225\002\313\070\212\256\120\070\157  
\333\373\055\142\033\305\307\036\124\341\167\340\147\310\017\234  
\207\043\326\077\100\040\177\040\200\304\200\114\076\073\044\046  
\216\004\256\154\232\310\252\015\002\003\001\000\001\243\102\060  
\100\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001  
\001\377\060\016\006\003\125\035\017\001\001\377\004\004\003\002  
\001\206\060\035\006\003\125\035\016\004\026\004\024\204\030\314  
\205\064\354\274\014\224\224\056\010\131\234\307\262\020\116\012  
\010\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000  
\003\202\001\001\000\230\362\067\132\101\220\241\032\305\166\121  
\050\040\066\043\016\256\346\050\273\252\370\224\256\110\244\060  
\177\033\374\044\215\113\264\310\241\227\366\266\361\172\160\310  
\123\223\314\010\050\343\230\045\317\043\244\371\336\041\323\174  
\205\011\255\116\232\165\072\302\013\152\211\170\166\104\107\030  
\145\154\215\101\216\073\177\232\313\364\265\247\120\327\005\054  
\067\350\003\113\255\351\141\240\002\156\365\362\360\305\262\355  
\133\267\334\372\224\134\167\236\023\245\177\122\255\225\362\370  
\223\073\336\213\134\133\312\132\122\133\140\257\024\367\113\357

```
\243\373\237\100\225\155\061\124\374\102\323\307\106\037\043\255
\331\017\110\160\232\331\165\170\161\321\162\103\064\165\156\127
\131\302\002\134\046\140\051\317\043\031\026\216\210\103\245\324
\344\313\010\373\043\021\103\350\103\051\162\142\241\251\135\136
\010\324\220\256\270\330\316\024\302\320\125\362\206\366\304\223
\103\167\146\141\300\271\350\101\327\227\170\140\003\156\112\162
\256\245\321\175\272\020\236\206\154\033\212\271\131\063\370\353
\304\220\276\361\271
```

END

CKA\_NSS\_MOZILLA\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "Amazon Root CA 1"

# Issuer: CN=Amazon Root CA 1,O=Amazon,C=US

# Serial Number:06:6c:9f:cf:99:bf:8c:0a:39:e2:f0:78:8a:43:e6:96:36:5b:ca

# Subject: CN=Amazon Root CA 1,O=Amazon,C=US

# Not Valid Before: Tue May 26 00:00:00 2015

# Not Valid After : Sun Jan 17 00:00:00 2038

# Fingerprint (SHA-256):

8E:CD:E6:88:4F:3D:87:B1:12:5B:A3:1A:C3:FC:B1:3D:70:16:DE:7F:57:CC:90:4F:E1:CB:97:C6:AE:98:19:6E

# Fingerprint (SHA1): 8D:A7:F9:65:EC:5E:FC:37:91:0F:1C:6E:59:FD:C1:CC:6A:6E:DE:16

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "Amazon Root CA 1"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

```
\215\247\371\145\354\136\374\067\221\017\034\156\131\375\301\314
\152\156\336\026
```

END

CKA\_CERT\_MD5\_HASH

MULTILINE\_OCTAL

```
\103\306\277\256\354\376\255\057\030\306\210\150\060\374\310\346
```

END

CKA\_ISSUER MULTILINE\_OCTAL

```
\060\071\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\017\060\015\006\003\125\004\012\023\006\101\155\141\172\157\156
\061\031\060\027\006\003\125\004\003\023\020\101\155\141\172\157
\156\040\122\157\157\164\040\103\101\040\061
```

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

```
\002\023\006\154\237\317\231\277\214\012\071\342\360\170\212\103
\346\226\066\133\312
```

END

CKA\_TRUST\_SERVER\_AUTH CK\_TRUST CKT\_NSS\_TRUSTED\_DELEGATOR

CKA\_TRUST\_EMAIL\_PROTECTION CK\_TRUST CKT\_NSS\_TRUSTED\_DELEGATOR



CKA\_TRUST\_CODE\_SIGNING CK\_TRUST CKT\_NSS\_MUST\_VERIFY\_TRUST  
CKA\_TRUST\_STEP\_UP\_APPROVED CK\_BBOOL CK\_FALSE

#

# Certificate "Amazon Root CA 2"

#

# Issuer: CN=Amazon Root CA 2,O=Amazon,C=US

# Serial Number:06:6c:9f:d2:96:35:86:9f:0a:0f:e5:86:78:f8:5b:26:bb:8a:37

# Subject: CN=Amazon Root CA 2,O=Amazon,C=US

# Not Valid Before: Tue May 26 00:00:00 2015

# Not Valid After : Sat May 26 00:00:00

2040

# Fingerprint (SHA-256):

1B:A5:B2:AA:8C:65:40:1A:82:96:01:18:F8:0B:EC:4F:62:30:4D:83:CE:C4:71:3A:19:C3:9C:01:1E:A4:6D:B4

# Fingerprint (SHA1): 5A:8C:EF:45:D7:A6:98:59:76:7A:8C:8B:44:96:B5:78:CF:47:4B:1A

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_CERTIFICATE

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "Amazon Root CA 2"

CKA\_CERTIFICATE\_TYPE CK\_CERTIFICATE\_TYPE CKC\_X\_509

CKA\_SUBJECT MULTILINE\_OCTAL

\060\071\061\013\060\011\006\003\125\004\006\023\002\125\123\061

\017\060\015\006\003\125\004\012\023\006\101\155\141\172\157\156

\061\031\060\027\006\003\125\004\003\023\020\101\155\141\172\157

\156\040\122\157\157\164\040\103\101\040\062

END

CKA\_ID UTF8 "0"

CKA\_ISSUER MULTILINE\_OCTAL

\060\071\061\013\060\011\006\003\125\004\006\023\002\125\123\061

\017\060\015\006\003\125\004\012\023\006\101\155\141\172\157\156

\061\031\060\027\006\003\125\004\003\023\020\101\155\141\172\157

\156\040\122\157\157\164\040\103\101\040\062

END

CKA\_SERIAL\_NUMBER

MULTILINE\_OCTAL

\002\023\006\154\237\322\226\065\206\237\012\017\345\206\170\370

\133\046\273\212\067

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\005\101\060\202\003\051\240\003\002\001\002\002\023\006

\154\237\322\226\065\206\237\012\017\345\206\170\370\133\046\273

\212\067\060\015\006\011\052\206\110\206\367\015\001\001\014\005

\000\060\071\061\013\060\011\006\003\125\004\006\023\002\125\123

\061\017\060\015\006\003\125\004\012\023\006\101\155\141\172\157

\156\061\031\060\027\006\003\125\004\003\023\020\101\155\141\172

\157\156\040\122\157\157\164\040\103\101\040\062\060\036\027\015

\061\065\060\065\062\066\060\060\060\060\060\060\132\027\015\064

\060\060\065\062\066\060\060\060\060\060\060\132\060\071\061\013  
\060\011\006\003\125\004\006\023\002\125\123\061\017\060\015\006  
\003\125\004\012\023\006\101\155\141\172\157\156\061\031\060\027  
\006\003\125\004\003\023\020\101\155\141\172\157\156\040\122\157  
\157\164\040\103\101\040\062\060\202\002\042\060\015\006\011\052  
\206\110\206\367\015\001\001\001\005\000\003\202\002\017\000\060  
\202\002\012\002\202\002\001\000\255\226\237\055\234\112\114\112  
\201\171\121\231\354\212\313\153\140\121\023\274\115\155\006\374  
\260\010\215\335\031\020\152\307\046\014\065\330\300\157\040\204  
\351\224\261\233\205\003\303\133\333\112\350\310\370\220\166\331  
\133\117\343\114\350\006\066\115\314\232\254\075\014\220\053\222  
\324\006\031\140\254\067\104\171\205\201\202\255\132\067\340\015  
\314\235\246\114\122\166\352\103\235\267\004\321\120\366\125\340  
\325\322\246\111\205\351\067\351\312\176\256\134\225\115\110\232  
\077\256\040\132\155\210\225\331\064\270\122\032\103\220\260\277  
\154\005\271\266\170\267\352\320\344\072\074\022\123\142\377\112  
\362\173\276\065\005\251\022\064\343\363\144\164\142\054\075\000  
\111\132\050\376\062\104\273\207\335\145\047\002\161\073\332\112  
\367\037\332\315\367\041\125\220\117\017\354\256\202\341\237\153  
\331\105\323\273\360\137\207\355\074\054\071\206\332\077\336\354  
\162\125\353\171\243\255\333\335\174\260\272\034\316\374\336\117  
\065\166\317\017\370\170\037\152\066\121\106\047\141\133\351\236  
\317\360\242\125\175\174\045\212\157\057\264\305\317\204\056\053  
\375\015\121\020\154\373\137\033\274\033\176\305\256\073\230\001  
\061\222\377\013\127\364\232\262\271\127\351\253\357\015\166\321  
\360\356\364\316\206\247\340\156\351\264\151\241\337\151\366\063  
\306\151\056\227\023\236\245\207\260\127\020\201\067\311\123\263  
\273\177\366\222\321\234\320\030\364\222\156\332\203\117\246\143  
\231\114\245\373\136\357\041\144\172\040\137\154\144\205\025\313  
\067\351\142\014\013\052\026\334\001\056\062\332\076\113\365\236  
\072\366\027\100\224\357\236\221\010\206\372\276\143\250\132\063  
\354\313\164\103\225\371\154\151\122\066\307\051\157\374\125\003  
\134\037\373\237\275\107\353\347\111\107\225\013\116\211\042\011  
\111\340\365\141\036\361\277\056\212\162\156\200\131\377\127\072  
\371\165\062\243\116\137\354\355\050\142\331\115\163\362\314\201  
\027\140\355\315\353\334\333\247\312\305\176\002\275\362\124\010  
\124\375\264\055\011\054\027\124\112\230\321\124\341\121\147\010  
\322\355\156\176\157\077\322\055\201\131\051\146\313\220\071\225  
\021\036\164\047\376\335\353\257\002\003\001\000\001\243\102\060  
\100\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001  
\001\377\060\016\006\003\125\035\017\001\001\377\004\004\003\002  
\001\206\060\035\006\003\125\035\016\004\026\004\024\260\014\360  
\114\060\364\005\130\002\110\375\063\345\122\257\113\204\343\146  
\122\060\015\006\011\052\206\110\206\367\015\001\001\014\005\000  
\003\202\002\001\000\252\250\200\217\016\170\243\340\242\324\315  
\346\365\230\172\073\352\000\003\260\227\016\223\274\132\250\366  
\054\214\162\207\251\261\374\177\163\375\143\161\170\245\207\131  
\317\060\341\015\020\262\023\132\155\202\365\152\346\200\237\240

```
\005\013\150\344\107\153\307\152\337\266\375\167\062\162\345\030
\372\011\364\240\223\054\135\322\214\165\205\166\145\220\014\003
\171\267\061\043\143\255\170\203\011\206\150\204\312\377\371\317
\046\232\222\171\347\315\113\305\347\141\247\027\313\363\251\022
\223\223\153\247\350\057\123\222\304\140\130\260\314\002\121\030
\133\205\215\142\131\143\266\255\264\336\232\373\046\367\000\047
\300\135\125\067\164\231\311\120\177\343\131\056\104\343\054\045
\356\354\114\062\167\264\237\032\351\113\135\040\305\332\375\034
\207\026\306\103\350\324\273\046\232\105\160\136\251\013\067\123
\342\106\173\047\375\340\106\362\211\267\314\102\266\313\050\046
\156\331\245\311\072\310\101\023\140\367\120\214\025\256\262\155
\032\025\032\127\170\346\222\052\331\145\220\202\077\154\002\257
\256\022\072\047\226\066\004\327\035\242\200\143\251\233\361\345
\272\264\174\024\260\116\311\261\037\164\137\070\366\121\352\233
\372\054\242\021\324\251\055\047\032\105\261\257\262\116\161\015
\300\130\106\326\151\006\313\123\313\263\376\153\101\315\101\176
\175\114\017\174\162\171\172\131\315\136\112\016\254\233\251\230
\163\171\174\264\364\314\271\270\007\014\262\164\134\270\307\157
\210\241\220\247\364\252\371\277\147\072\364\032\025\142\036\267
\237\276\075\261\051\257\147\241\022\362\130\020\031\123\003\060
\033\270\032\211\366\234\275\227\003\216\243\011\363\035\213\041
\361\264\337\344\034\321\237\145\002\006\352\134\326\023\263\204
\357\242\245\134\214\167\051\247\150\300\153\256\100\322\250\264
\352\315\360\215\113\070\234\031\232\033\050\124\270\211\220\357
\312\165\201\076\036\362\144\044\307\030\257\116\377\107\236\007
\366\065\145\244\323\012\126\377\365\027\144\154\357\250\042\045
\111\223\266\337\000\027\332\130\176\135\356\305\033\260\321\321
\137\041\020\307\371\363\272\002\012\047\007\305\361\326\307\323
\340\373\011\140\154
```

END

CKA\_NSS\_MOZILLA\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRUST\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRUST\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "Amazon Root CA 2"

# Issuer: CN=Amazon Root CA 2,O=Amazon,C=US

# Serial Number:06:6c:9f:d2:96:35:86:9f:0a:0f:e5:86:78:f8:5b:26:bb:8a:37

# Subject: CN=Amazon Root CA 2,O=Amazon,C=US

# Not Valid Before: Tue May 26 00:00:00 2015

#

Not Valid After : Sat May 26 00:00:00 2040

# Fingerprint (SHA-256):

1B:A5:B2:AA:8C:65:40:1A:82:96:01:18:F8:0B:EC:4F:62:30:4D:83:CE:C4:71:3A:19:C3:9C:01:1E:A4:6D:B4

# Fingerprint (SHA1): 5A:8C:EF:45:D7:A6:98:59:76:7A:8C:8B:44:96:B5:78:CF:47:4B:1A

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

```

CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Amazon Root CA 2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\132\214\357\105\327\246\230\131\166\172\214\213\104\226\265\170
\317\107\113\032
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\310\345\215\316\250\102\342\172\300\052\134\174\236\046\277\146
END
CKA_ISSUER MULTILINE_OCTAL
\060\071\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\017\060\015\006\003\125\004\012\023\006\101\155\141\172\157\156
\061\031\060\027\006\003\125\004\003\023\020\101\155\141\172\157
\156\040\122\157\157\164\040\103\101\040\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\023\006\154\237\322\226\065\206\237\012\017\345\206\170\370
\133\046\273\212\067
END
CKA_TRUST_SERVER_AUTH
CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Amazon Root CA 3"
#
Issuer: CN=Amazon Root CA 3,O=Amazon,C=US
Serial Number:06:6c:9f:d5:74:97:36:66:3f:3b:0b:9a:d9:e8:9e:76:03:f2:4a
Subject: CN=Amazon Root CA 3,O=Amazon,C=US
Not Valid Before: Tue May 26 00:00:00 2015
Not Valid After : Sat May 26 00:00:00 2040
Fingerprint (SHA-256):
18:CE:6C:FE:7B:F1:4E:60:B2:E3:47:B8:DF:E8:68:CB:31:D0:2E:BB:3A:DA:27:15:69:F5:03:43:B4:6D:B3:A4
Fingerprint (SHA1): 0D:44:DD:8C:3C:8C:1A:1A:58:75:64:81:E9:0F:2E:2A:FF:B3:D2:6E
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Amazon Root CA 3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\071\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\017\060\015\006\003\125\004\012\023\006\101\155\141\172\157\156
\061\031\060\027\006\003\125\004\003\023\020\101\155\141\172\157
\156\040\122\157\157\164\040\103\101\040\063
END

```

```
CKA_ID
UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\071\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\017\060\015\006\003\125\004\012\023\006\101\155\141\172\157\156
\061\031\060\027\006\003\125\004\003\023\020\101\155\141\172\157
\156\040\122\157\157\164\040\103\101\040\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\023\006\154\237\325\164\227\066\146\077\073\013\232\331\350
\236\166\003\362\112
END
CKA_VALUE MULTILINE_OCTAL
\060\202\001\266\060\202\001\133\240\003\002\001\002\002\023\006
\154\237\325\164\227\066\146\077\073\013\232\331\350\236\166\003
\362\112\060\012\006\010\052\206\110\316\075\004\003\002\060\071
\061\013\060\011\006\003\125\004\006\023\002\125\123\061\017\060
\015\006\003\125\004\012\023\006\101\155\141\172\157\156\061\031
\060\027\006\003\125\004\003\023\020\101\155\141\172\157\156\040
\122\157\157\164\040\103\101\040\063\060\036\027\015\061\065\060
\065\062\066\060\060\060\060\060\132\027\015\064\060\060\065
\062\066\060\060\060\060\060\132\060\071\061\013\060\011\006
\003\125\004\006\023\002\125\123\061\017\060\015\006\003\125\004
\012\023\006\101\155\141\172\157\156\061\031\060\027\006\003\125
\004\003\023\020\101\155\141\172\157\156\040\122\157\157\164\040
\103\101\040\063\060\131\060\023\006\007\052\206\110\316\075\002
\001\006\010\052\206\110\316\075\003\001\007\003\102\000\004\051
\227\247\306\101\177\300\015\233\350\001\033\126\306\362\122\245
\272\055\262\022\350\322\056\327\372\311\305\330\252\155\037\163
\201\073\073\230\153\071\174\063\245\305\116\206\216\200\027\150
\142\105\127\175\104\130\035\263\067\345\147\010\353\146\336\243
\102\060\100\060\017\006\003\125\035\023\001\001\377\004\005\060
\003\001\001\377\060\016\006\003\125\035\017\001\001\377\004\004
\003\002\001\206\060\035\006\003\125\035\016\004\026\004\024\253
\266\333\327\006\236\067\254\060\206\007\221\160\307\234\304\031
\261\170\300\060\012\006\010\052\206\110\316\075\004\003\002\003
\111\000\060\106\002\041\000\340\205\222\243\027\267\215\371\053
\006\245\223\254\032\230\150\141\162\372\341\241\320\373\034\170
\140\246\103\231\305\270\304\002\041\000\234\002\357\361\224\234
\263\226\371\353\306\052\370\266\054\376\072\220\024\026\327\214
\143\044\110\034\337\060\175\325\150\073
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRICT_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRICT_AFTER CK_BBOOL CK_FALSE
```

```
Trust for "Amazon Root CA 3"
```

```

Issuer: CN=Amazon Root CA 3,O=Amazon,C=US
Serial Number:06:6c:9f:d5:74:97:36:66:3f:3b:0b:9a:d9:e8:9e:76:03:f2:4a
Subject: CN=Amazon Root CA 3,O=Amazon,C=US
Not Valid Before: Tue May 26 00:00:00 2015
Not Valid After : Sat May 26 00:00:00 2040
Fingerprint (SHA-256):
18:CE:6C:FE:7B:F1:4E:60:B2:E3:47:B8:DF:E8:68:CB:31:D0:2E:BB:3A:DA:27:15:69:F5:03:43:B4:6D:B3:A4
#
Fingerprint (SHA1): 0D:44:DD:8C:3C:8C:1A:1A:58:75:64:81:E9:0F:2E:2A:FF:B3:D2:6E
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Amazon Root CA 3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\015\104\335\214\074\214\032\032\130\165\144\201\351\017\056\052
\377\263\322\156
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\240\324\357\013\367\265\330\111\225\052\354\365\304\374\201\207
END
CKA_ISSUER MULTILINE_OCTAL
\060\071\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\017\060\015\006\003\125\004\012\023\006\101\155\141\172\157\156
\061\031\060\027\006\003\125\004\003\023\020\101\155\141\172\157
\156\040\122\157\157\164\040\103\101\040\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\023\006\154\237\325\164\227\066\146\077\073\013\232\331\350
\236\166\003\362\112
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING
CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Amazon Root CA 4"
#
Issuer: CN=Amazon Root CA 4,O=Amazon,C=US
Serial Number:06:6c:9f:d7:c1:bb:10:4c:29:43:e5:71:7b:7b:2c:c8:1a:c1:0e
Subject: CN=Amazon Root CA 4,O=Amazon,C=US
Not Valid Before: Tue May 26 00:00:00 2015
Not Valid After : Sat May 26 00:00:00 2040
Fingerprint (SHA-256):
E3:5D:28:41:9E:D0:20:25:CF:A6:90:38:CD:62:39:62:45:8D:A5:C6:95:FB:DE:A3:C2:2B:0B:FB:25:89:70:92
Fingerprint (SHA1): F6:10:84:07:D6:F8:BB:67:98:0C:C2:E2:44:C2:EB:AE:1C:EF:63:BE

```

```
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Amazon Root CA 4"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\071\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\017\060\015\006\003\125\004\012\023\006\101\155\141\172\157\156
\061\031\060\027\006\003\125\004\003\023\020\101\155\141\172\157
\156\040\122\157\157\164\040\103\101\040\064
END
CKA_ID
UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\071\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\017\060\015\006\003\125\004\012\023\006\101\155\141\172\157\156
\061\031\060\027\006\003\125\004\003\023\020\101\155\141\172\157
\156\040\122\157\157\164\040\103\101\040\064
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\023\006\154\237\327\301\273\020\114\051\103\345\161\173\173
\054\310\032\301\016
END
CKA_VALUE MULTILINE_OCTAL
\060\202\001\362\060\202\001\170\240\003\002\001\002\002\023\006
\154\237\327\301\273\020\114\051\103\345\161\173\173\054\310\032
\301\016\060\012\006\010\052\206\110\316\075\004\003\003\060\071
\061\013\060\011\006\003\125\004\006\023\002\125\123\061\017\060
\015\006\003\125\004\012\023\006\101\155\141\172\157\156\061\031
\060\027\006\003\125\004\003\023\020\101\155\141\172\157\156\040
\122\157\157\164\040\103\101\040\064\060\036\027\015\061\065\060
\065\062\066\060\060\060\060\060\132\027\015\064\060\060\065
\062\066\060\060\060\060\060\060\132\060\071\061\013\060\011\006
\003\125\004\006\023\002\125\123\061\017\060\015\006\003\125\004
\012\023\006\101\155\141\172\157\156\061\031\060\027\006\003\125
\004\003\023\020\101\155\141\172\157\156\040\122\157\157\164\040
\103\101\040\064\060\166\060\020\006\007\052\206\110\316\075\002
\001\006\005\053\201\004\000\042\003\142\000\004\322\253\212\067
\117\243\123\015\376\301\212\173\113\250\173\106\113\143\260\142
\366\055\033\333\010\161\041\322\000\350\143\275\232\047\373\360
\071\156\135\352\075\245\311\201\252\243\133\040\230\105\135\026
\333\375\350\020\155\343\234\340\343\275\137\204\142\363\160\144
\063\240\313\044\057\160\272\210\241\052\240\165\370\201\256\142
\006\304\201\333\071\156\051\260\036\372\056\134\243\102\060\100
\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001
\377\060\016\006\003\125\035\017\001\001\377\004\004\003\002\001
\206\060\035\006\003\125\035\016\004\026\004\024\323\354\307\072
```

```
\145\156\314\341\332\166\232\126\373\234\363\206\155\127\345\201
\060\012\006\010\052\206\110\316\075\004\003\003\003\150\000\060
\145\002\060\072\213\041\361\275\176\021\255\320\357\130\226\057
\326\353\235\176\220\215\053\317\146\125\303\054\343\050\251\160
\012\107\016\360\067\131\022\377\055\231\224\050\116\052\117\065
\115\063\132\002\061\000\352\165\000\116\073\304\072\224\022\221
\311\130\106\235\041\023\162\247\210\234\212\344\114\112\333\226
\324\254\213\153\153\111\022\123\063\255\327\344\276\044\374\265
\012\166\324\245\274\020
```

END

CKA\_NSS\_MOZILLA\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRUST\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRUST\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "Amazon Root CA 4"

# Issuer: CN=Amazon Root CA 4,O=Amazon,C=US

# Serial Number:06:6c:9f:d7:c1:bb:10:4c:29:43:e5:71:7b:7b:2c:c8:1a:c1:0e

# Subject: CN=Amazon Root CA 4,O=Amazon,C=US

# Not Valid Before: Tue May 26 00:00:00 2015

# Not Valid After : Sat May 26 00:00:00 2040

# Fingerprint

(SHA-256):

E3:5D:28:41:9E:D0:20:25:CF:A6:90:38:CD:62:39:62:45:8D:A5:C6:95:FB:DE:A3:C2:2B:0B:FB:25:89:70:92

# Fingerprint (SHA1): F6:10:84:07:D6:F8:BB:67:98:0C:C2:E2:44:C2:EB:AE:1C:EF:63:BE

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "Amazon Root CA 4"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

```
\366\020\204\007\326\370\273\147\230\014\302\342\104\302\353\256
\034\357\143\276
```

END

CKA\_CERT\_MD5\_HASH MULTILINE\_OCTAL

```
\211\274\047\325\353\027\215\006\152\151\325\375\211\107\264\315
```

END

CKA\_ISSUER MULTILINE\_OCTAL

```
\060\071\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\017\060\015\006\003\125\004\012\023\006\101\155\141\172\157\156
\061\031\060\027\006\003\125\004\003\023\020\101\155\141\172\157
\156\040\122\157\157\164\040\103\101\040\064
```

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

```
\002\023\006\154\237\327\301\273\020\114\051\103\345\161\173\173
\054\310\032\301\016
```

END

CKA\_TRUST\_SERVER\_AUTH CK\_TRUST



```

CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Symantec Class 1 Public Primary Certification Authority - G6"
#
Issuer: CN=Symantec Class 1 Public Primary Certification Authority - G6,OU=Symantec Trust
Network,O=Symantec Corporation,C=US
Serial Number:24:32:75:f2:1d:2f:d2:09:33:f7:b4:6a:ca:d0:f3:98
Subject: CN=Symantec Class 1 Public Primary Certification Authority - G6,OU=Symantec Trust
Network,O=Symantec Corporation,C=US
Not Valid Before: Tue Oct 18 00:00:00 2011
Not Valid After : Tue Dec 01 23:59:59 2037
Fingerprint (SHA-256):
9D:19:0B:2E:31:45:66:68:5B:E8:A8:89:E2:7A:A8:C7:D7:AE:1D:8A:AD:DB:A3:C1:EC:F9:D2:48:63:CD:34:B9
Fingerprint (SHA1): 51:7F:61:1E:29:91:6B:53:82:FB:72:E7:44:D9:8D:C3:CC:53:6D:64
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE
CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Symantec Class 1 Public Primary Certification Authority - G6"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\224\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\035\060\033\006\003\125\004\012\023\024\123\171\155\141\156
\164\145\143\040\103\157\162\160\157\162\141\164\151\157\156\061
\037\060\035\006\003\125\004\013\023\026\123\171\155\141\156\164
\145\143\040\124\162\165\163\164\040\116\145\164\167\157\162\153
\061\105\060\103\006\003\125\004\003\023\074\123\171\155\141\156
\164\145\143\040\103\154\141\163\163\040\061\040\120\165\142\154
\151\143\040\120\162\151\155\141\162\171\040\103\145\162\164\151
\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151
\164\171\040\055\040\107\066
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\224\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\035\060\033\006\003\125\004\012\023\024\123\171\155\141\156
\164\145\143\040\103\157\162\160\157\162\141\164\151\157\156\061
\037\060\035\006\003\125\004\013\023\026\123\171\155\141\156\164
\145\143\040\124\162\165\163\164\040\116\145\164\167\157\162\153
\061\105\060\103\006\003\125\004\003\023\074\123\171\155\141\156
\164\145\143\040\103\154\141\163\163\040\061\040\120\165\142\154
\151\143\040\120\162\151\155\141\162\171\040\103\145\162\164\151
\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151

```

\164\171\040\055\040\107\066  
END  
CKA\_SERIAL\_NUMBER  
MULTILINE\_OCTAL  
\002\020\044\062\165\362\035\057\322\011\063\367\264\152\312\320  
\363\230  
END  
CKA\_VALUE MULTILINE\_OCTAL  
\060\202\003\366\060\202\002\336\240\003\002\001\002\002\020\044  
\062\165\362\035\057\322\011\063\367\264\152\312\320\363\230\060  
\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060\201  
\224\061\013\060\011\006\003\125\004\006\023\002\125\123\061\035  
\060\033\006\003\125\004\012\023\024\123\171\155\141\156\164\145  
\143\040\103\157\162\160\157\162\141\164\151\157\156\061\037\060  
\035\006\003\125\004\013\023\026\123\171\155\141\156\164\145\143  
\040\124\162\165\163\164\040\116\145\164\167\157\162\153\061\105  
\060\103\006\003\125\004\003\023\074\123\171\155\141\156\164\145  
\143\040\103\154\141\163\163\040\061\040\120\165\142\154\151\143  
\040\120\162\151\155\141\162\171\040\103\145\162\164\151\146\151  
\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171  
\040\055\040\107\066\060\036\027\015\061\061\061\060\061\070\060  
\060\060\060\060\060\132\027\015\063\067\061\062\060\061\062\063  
\065\071\065\071\132\060\201\224\061\013\060\011\006\003\125\004  
\006\023\002\125\123\061\035\060\033\006\003\125\004\012\023\024  
\123\171\155\141\156\164\145\143\040\103\157\162\160\157\162\141  
\164\151\157\156\061\037\060\035\006\003\125\004\013\023\026\123  
\171\155\141\156\164\145\143\040\124\162\165\163\164\040\116\145  
\164\167\157\162\153\061\105\060\103\006\003\125\004\003\023\074  
\123\171\155\141\156\164\145\143\040\103\154\141\163\163\040\061  
\040\120\165\142\154\151\143\040\120\162\151\155\141\162\171\040  
\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101\165  
\164\150\157\162\151\164\171\040\055\040\107\066\060\202\001\042  
\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003  
\202\001\017\000\060\202\001\012\002\202\001\001\000\307\071\327  
\111\144\251\231\202\042\114\352\105\331\007\026\343\173\364\203  
\350\231\163\372\153\261\066\340\232\167\240\100\302\201\215\001  
\307\314\214\275\217\175\367\171\343\172\114\003\115\331\373\375  
\207\070\050\054\335\232\213\124\010\333\147\373\033\214\376\050  
\222\057\276\267\262\110\247\201\241\330\136\210\303\314\071\100  
\101\132\321\334\345\332\020\237\057\332\001\115\375\056\106\174  
\371\056\047\012\151\067\356\221\243\033\152\314\104\277\033\307  
\303\324\021\262\120\140\227\011\275\056\042\365\101\204\146\237  
\315\100\246\251\000\200\301\037\225\222\237\336\363\110\357\333  
\035\167\141\374\177\337\356\226\244\162\320\266\076\377\170\047  
\257\313\222\025\151\010\333\143\020\342\346\227\254\156\334\254  
\366\242\316\036\107\231\271\211\267\022\346\241\324\315\131\021  
\147\303\157\205\330\102\116\050\276\131\125\131\004\225\253\217  
\067\200\277\015\360\374\037\072\144\061\130\201\170\327\342\065

```
\366\040\077\051\270\217\026\156\076\110\334\265\114\007\341\362
\032\352\176\012\171\326\250\275\353\135\206\053\115\002\003\001
\000\001\243\102\060\100\060\016\006\003\125\035\017\001\001\377
\004\004\003\002\001\006\060\017\006\003\125\035\023\001\001\377
\004\005\060\003\001\001\377\060\035\006\003\125\035\016\004\026
\004\024\063\101\350\310\071\022\025\223\110\362\226\062\056\132
\365\332\224\137\123\140\060\015\006\011\052\206\110\206\367\015
\001\001\013\005\000\003\202\001\001\000\025\343\163\127\261\027
\266\137\111\151\104\246\366\136\172\147\254\322\336\165\111\253
\376\045\125\307\072\311\104\025\020\156\277\061\153\313\331\007
\223\177\034\205\143\000\343\062\022\340\314\313\373\071\154\217
\342\123\342\074\100\063\331\244\214\107\346\255\130\373\211\257
\343\336\206\051\126\064\054\105\270\022\372\104\211\156\055\024
\045\050\044\001\145\326\352\122\254\005\156\126\022\011\075\320
\164\364\327\275\006\312\250\072\215\126\102\372\215\162\076\164
\361\003\162\337\207\033\136\016\172\125\226\054\070\267\230\205
\315\115\063\104\311\224\217\132\061\060\067\113\243\072\022\263
\347\066\321\041\150\113\055\070\346\123\256\034\045\126\010\126
\003\147\204\235\306\303\316\044\142\307\114\066\317\260\006\104
\267\365\137\002\335\331\124\351\057\220\116\172\310\116\203\100
\014\232\227\074\067\277\277\354\366\360\264\205\167\050\301\013
\310\147\202\020\027\070\242\267\006\352\233\277\072\370\351\043
\007\277\164\340\230\070\025\125\170\356\162\000\134\031\243\364
\322\063\340\377\275\321\124\071\051\017
```

END

CKA\_NSS\_Mozilla\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# For Email Distrust After: Wed Aug 31 00:00:00 2022

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER MULTILINE\_OCTAL

\062\062\060\070\063\061\060\060\060\060\060\060\132

END

# Trust for

"Symantec Class 1 Public Primary Certification Authority - G6"

# Issuer: CN=Symantec Class 1 Public Primary Certification Authority - G6,OU=Symantec Trust

Network,O=Symantec Corporation,C=US

# Serial Number:24:32:75:f2:1d:2f:d2:09:33:f7:b4:6a:ca:d0:f3:98

# Subject: CN=Symantec Class 1 Public Primary Certification Authority - G6,OU=Symantec Trust

Network,O=Symantec Corporation,C=US

# Not Valid Before: Tue Oct 18 00:00:00 2011

# Not Valid After : Tue Dec 01 23:59:59 2037

# Fingerprint (SHA-256):

9D:19:0B:2E:31:45:66:68:5B:E8:A8:89:E2:7A:A8:C7:D7:AE:1D:8A:AD:DB:A3:C1:EC:F9:D2:48:63:CD:34:B9

# Fingerprint (SHA1): 51:7F:61:1E:29:91:6B:53:82:FB:72:E7:44:D9:8D:C3:CC:53:6D:64

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

```
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Symantec Class 1 Public Primary Certification Authority - G6"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\121\177\141\036\051\221\153\123\202\373\162\347\104\331\215\303
\314\123\155\144
END
CKA_CERT_MD5_HASH
MULTILINE_OCTAL
\057\250\264\332\366\144\113\036\202\371\106\075\124\032\174\260
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\224\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\035\060\033\006\003\125\004\012\023\024\123\171\155\141\156
\164\145\143\040\103\157\162\160\157\162\141\164\151\157\156\061
\037\060\035\006\003\125\004\013\023\026\123\171\155\141\156\164
\145\143\040\124\162\165\163\164\040\116\145\164\167\157\162\153
\061\105\060\103\006\003\125\004\003\023\074\123\171\155\141\156
\164\145\143\040\103\154\141\163\163\040\061\040\120\165\142\154
\151\143\040\120\162\151\155\141\162\171\040\103\145\162\164\151
\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151
\164\171\040\055\040\107\066
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\044\062\165\362\035\057\322\011\063\367\264\152\312\320
\363\230
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING
CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
```

```
#
Certificate "Symantec Class 2 Public Primary Certification Authority - G6"
#
Issuer: CN=Symantec Class 2 Public Primary Certification Authority - G6,OU=Symantec Trust
Network,O=Symantec Corporation,C=US
Serial Number:64:82:9e:fc:37:1e:74:5d:fc:97:ff:97:c8:b1:ff:41
Subject: CN=Symantec Class 2 Public Primary Certification Authority - G6,OU=Symantec Trust
Network,O=Symantec Corporation,C=US
Not Valid Before: Tue Oct 18 00:00:00 2011
Not Valid After : Tue Dec 01 23:59:59 2037
Fingerprint (SHA-256):
CB:62:7D:18:B5:8A:D5:6D:DE:33:1A:30:45:6B:C6:5C:60:1A:4E:9B:18:DE:DC:EA:08:E7:DA:AA:07:81:5F:F0
Fingerprint (SHA1): 40:B3:31:A0:E9:BF:E8:55:BC:39:93:CA:70:4F:4E:C2:51:D4:1D:8F
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
```

```
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Symantec Class 2 Public Primary Certification Authority - G6"
CKA_CERTIFICATE_TYPE
 CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\224\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\035\060\033\006\003\125\004\012\023\024\123\171\155\141\156
\164\145\143\040\103\157\162\160\157\162\141\164\151\157\156\061
\037\060\035\006\003\125\004\013\023\026\123\171\155\141\156\164
\145\143\040\124\162\165\163\164\040\116\145\164\167\157\162\153
\061\105\060\103\006\003\125\004\003\023\074\123\171\155\141\156
\164\145\143\040\103\154\141\163\163\040\062\040\120\165\142\154
\151\143\040\120\162\151\155\141\162\171\040\103\145\162\164\151
\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151
\164\171\040\055\040\107\066
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\224\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\035\060\033\006\003\125\004\012\023\024\123\171\155\141\156
\164\145\143\040\103\157\162\160\157\162\141\164\151\157\156\061
\037\060\035\006\003\125\004\013\023\026\123\171\155\141\156\164
\145\143\040\124\162\165\163\164\040\116\145\164\167\157\162\153
\061\105\060\103\006\003\125\004\003\023\074\123\171\155\141\156
\164\145\143\040\103\154\141\163\163\040\062\040\120\165\142\154
\151\143\040\120\162\151\155\141\162\171\040\103\145\162\164\151
\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151
\164\171\040\055\040\107\066
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\020\144\202\236\374\067\036\164\135\374\227\377\227\310\261
\377\101
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\366\060\202\002\336\240\003\002\001\002\002\020\144
\202\236\374\067\036\164\135\374\227\377\227\310\261\377\101\060
\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060\201
\224\061\013\060\011\006\003\125\004\006\023\002\125\123\061\035
\060\033\006\003\125\004\012\023\024\123\171\155\141\156\164\145
\143\040\103\157\162\160\157\162\141\164\151\157\156\061\037\060
\035\006\003\125\004\013\023\026\123\171\155\141\156\164\145\143
\040\124\162\165\163\164\040\116\145\164\167\157\162\153\061\105
\060\103\006\003\125\004\003\023\074\123\171\155\141\156\164\145
\143\040\103\154\141\163\163\040\062\040\120\165\142\154\151\143
\040\120\162\151\155\141\162\171\040\103\145\162\164\151\146\151
\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171
\040\055\040\107\066\060\036\027\015\061\061\061\060\061\070\060
```

\060\060\060\060\060\060\132\027\015\063\067\061\062\060\061\062\063  
\065\071\065\071\132\060\201\224\061\013\060\011\006\003\125\004  
\006\023\002\125\123\061\035\060\033\006\003\125\004\012\023\024  
\123\171\155\141\156\164\145\143\040\103\157\162\160\157\162\141  
\164\151\157\156\061\037\060\035\006\003\125\004\013\023\026\123  
\171\155\141\156\164\145\143\040\124\162\165\163\164\040\116\145  
\164\167\157\162\153\061\105\060\103\006\003\125\004\003\023\074  
\123\171\155\141\156\164\145\143\040\103\154\141\163\163\040\062  
\040\120\165\142\154\151\143\040\120\162\151\155\141\162\171\040  
\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101\165  
\164\150\157\162\151\164\171\040\055\040\107\066\060\202\001\042  
\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003  
\202\001\017\000\060\202\001\012\002\202\001\001\000\315\314\351  
\005\310\143\205\313\077\100\143\027\275\030\372\065\346\004\147  
\127\145\230\051\244\117\311\134\217\017\064\322\370\332\250\023  
\142\252\270\036\120\147\170\260\026\114\240\071\251\025\172\256  
\355\322\242\300\360\220\067\051\030\046\134\350\015\074\266\154  
\111\077\301\340\334\331\113\266\024\031\013\246\323\226\341\326  
\011\343\031\046\034\371\037\145\113\371\032\103\034\000\203\326  
\320\252\111\242\324\333\346\142\070\272\120\024\103\155\371\061  
\370\126\026\331\070\002\221\317\353\154\335\273\071\116\231\341  
\060\147\105\361\324\360\215\303\337\376\362\070\007\041\175\000  
\136\126\104\263\344\140\275\221\053\234\253\133\004\162\017\262  
\050\331\162\253\005\040\102\045\251\133\003\152\040\020\314\061  
\360\053\332\065\054\320\373\232\227\116\360\202\113\053\330\137  
\066\243\013\055\257\143\015\035\045\177\241\156\134\142\241\215  
\050\076\241\374\034\040\370\001\057\272\125\232\021\260\031\322  
\310\120\171\153\016\152\005\327\252\004\066\262\243\362\341\137  
\167\247\167\234\345\036\334\351\337\152\301\145\135\002\003\001  
\000\001\243\102\060\100\060\016\006\003\125\035\017\001\001\377  
\004\004\003\002\001\006\060\017\006\003\125\035\023\001\001\377  
\004\005\060\003\001\001\377\060\035\006\003\125\035\016\004\026  
\004\024\207\214\040\225\310\230\112\321\326\200\006\112\220\064  
\104\337\034\115\277\260\060\015\006\011\052\206\110\206\367\015  
\001\001\013\005\000\003\202\001\001\000\201\216\262\245\146\226  
\267\041\245\266\357\157\043\132\137\333\201\305\102\245\170\301  
\151\375\364\074\327\371\134\153\160\162\032\374\132\227\115\000  
\200\210\210\202\212\303\161\015\216\305\211\233\054\355\215\013  
\322\162\124\365\175\324\134\103\127\351\363\256\245\002\021\366  
\166\053\201\127\335\175\332\164\060\375\124\107\366\340\026\156  
\246\264\012\110\346\347\165\007\017\051\031\071\316\171\364\266  
\154\305\137\231\325\037\113\372\337\155\054\074\015\124\200\160  
\360\210\013\200\317\306\150\242\270\035\160\331\166\214\374\356  
\245\311\317\255\035\317\231\045\127\132\142\105\313\026\153\275  
\111\315\245\243\214\151\171\045\256\270\114\154\213\100\146\113  
\026\077\317\002\032\335\341\154\153\007\141\152\166\025\051\231  
\177\033\335\210\200\301\277\265\217\163\305\246\226\043\204\246  
\050\206\044\063\152\001\056\127\163\045\266\136\277\217\346\035

```
\141\250\100\051\147\035\207\233\035\177\233\237\231\315\061\326
\124\276\142\273\071\254\150\022\110\221\040\245\313\261\335\376
\157\374\132\344\202\125\131\257\061\251
END
```

```
CKA_NSS_Mozilla_CA_POLICY
CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRICT_AFTER CK_BBOOL CK_FALSE
For Email Distrust After: Wed Aug 31 00:00:00 2022
CKA_NSS_EMAIL_DISTRICT_AFTER MULTILINE_OCTAL
\062\062\060\070\063\061\060\060\060\060\060\060\132
END
```

```
Trust for "Symantec Class 2 Public Primary Certification Authority - G6"
Issuer: CN=Symantec Class 2 Public Primary Certification
 Authority - G6,OU=Symantec Trust Network,O=Symantec Corporation,C=US
Serial Number:64:82:9e:fc:37:1e:74:5d:fc:97:ff:97:c8:b1:ff:41
Subject: CN=Symantec Class 2 Public Primary Certification Authority - G6,OU=Symantec Trust
 Network,O=Symantec Corporation,C=US
Not Valid Before: Tue Oct 18 00:00:00 2011
Not Valid After : Tue Dec 01 23:59:59 2037
Fingerprint (SHA-256):
CB:62:7D:18:B5:8A:D5:6D:DE:33:1A:30:45:6B:C6:5C:60:1A:4E:9B:18:DE:DC:EA:08:E7:DA:AA:07:81:5F:F0
Fingerprint (SHA1): 40:B3:31:A0:E9:BF:E8:55:BC:39:93:CA:70:4F:4E:C2:51:D4:1D:8F
```

```
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Symantec Class 2 Public Primary Certification Authority - G6"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\100\263\061\240\351\277\350\125\274\071\223\312\160\117\116\302
\121\324\035\217
END
```

```
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\175\013\203\345\373\174\255\007\117\040\251\265\337\143\355\171
END
```

```
CKA_ISSUER
MULTILINE_OCTAL
\060\201\224\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\035\060\033\006\003\125\004\012\023\024\123\171\155\141\156
\164\145\143\040\103\157\162\160\157\162\141\164\151\157\156\061
\037\060\035\006\003\125\004\013\023\026\123\171\155\141\156\164
\145\143\040\124\162\165\163\164\040\116\145\164\167\157\162\153
\061\105\060\103\006\003\125\004\003\023\074\123\171\155\141\156
\164\145\143\040\103\154\141\163\163\040\062\040\120\165\142\154
\151\143\040\120\162\151\155\141\162\171\040\103\145\162\164\151
\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151
\164\171\040\055\040\107\066
END
```

```

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\144\202\236\374\067\036\164\135\374\227\377\227\310\261
\377\101
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "D-TRUST
 Root CA 3 2013"
#
Issuer: CN=D-TRUST Root CA 3 2013,O=D-Trust GmbH,C=DE
Serial Number: 1039788 (0xfddac)
Subject: CN=D-TRUST Root CA 3 2013,O=D-Trust GmbH,C=DE
Not Valid Before: Fri Sep 20 08:25:51 2013
Not Valid After : Wed Sep 20 08:25:51 2028
Fingerprint (SHA-256):
A1:A8:6D:04:12:1E:B8:7F:02:7C:66:F5:33:03:C2:8E:57:39:F9:43:FC:84:B3:8A:D6:AF:00:90:35:DD:94:57
Fingerprint (SHA1): 6C:7C:CC:E7:D4:AE:51:5F:99:08:CD:3F:F6:E8:C3:78:DF:6F:EF:97
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "D-TRUST Root CA 3 2013"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\105\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\025\060\023\006\003\125\004\012\014\014\104\055\124\162\165\163
\164\040\107\155\142\110\061\037\060\035\006\003\125\004\003\014
\026\104\055\124\122\125\123\124\040\122\157\157\164\040\103\101
\040\063\040\062\060\061\063
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\105\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\025\060\023\006\003\125\004\012\014\014\104\055\124\162\165\163
\164\040\107\155\142\110\061\037\060\035\006\003\125\004\003\014
\026\104\055\124\122\125\123\124\040\122\157\157\164\040\103\101
\040\063\040\062\060\061\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\003\017\335\254
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\016\060\202\002\366\240\003\002\001\002\002\003\017

```



\335\254\060\015\006\011\052\206\110\206\367\015\001\001\013\005  
\000\060\105\061\013\060\011\006\003\125\004\006\023\002\104\105  
\061\025\060\023\006\003\125\004\012\014\014\104\055\124\162\165  
\163\164\040\107\155\142\110\061\037\060\035\006\003\125\004\003  
\014\026\104\055\124\122\125\123\124\040\122\157\157\164\040\103  
\101\040\063\040\062\060\061\063\060\036\027\015\061\063\060\071  
\062\060\060\070\062\065\065\061\132\027\015\062\070\060\071\062  
\060\060\070\062\065\065\061\132\060\105\061\013\060\011\006\003  
\125\004\006\023\002\104\105\061\025\060\023\006\003\125\004\012  
\014\014\104\055\124\162\165\163\164\040\107\155\142\110\061\037  
\060\035\006\003\125\004\003\014\026\104\055\124\122\125\123\124  
\040\122\157\157\164\040\103\101\040\063\040\062\060\061\063\060  
\202\001\042\060\015\006\011\052\206\110\206\367\015\001\001\001  
\005\000\003\202\001\017\000\060\202\001\012\002\202\001\001\000  
\304\173\102\222\202\037\354\355\124\230\216\022\300\312\011\337  
\223\156\072\223\134\033\344\020\167\236\116\151\210\154\366\341  
\151\362\366\233\242\141\261\275\007\040\164\230\145\361\214\046  
\010\315\250\065\312\200\066\321\143\155\350\104\172\202\303\154  
\136\336\273\350\066\322\304\150\066\214\237\062\275\204\042\340  
\334\302\356\020\106\071\155\257\223\071\256\207\346\303\274\011  
\311\054\153\147\133\331\233\166\165\114\013\340\273\305\327\274  
\076\171\362\137\276\321\220\127\371\256\366\146\137\061\277\323  
\155\217\247\272\112\363\043\145\273\267\357\243\045\327\012\352  
\130\266\357\210\372\372\171\262\122\130\325\360\254\214\241\121  
\164\051\225\252\121\073\220\062\003\237\034\162\164\220\336\075  
\355\141\322\345\343\375\144\107\345\271\267\112\251\367\037\256  
\226\206\004\254\057\343\244\201\167\267\132\026\377\330\017\077  
\366\267\170\314\244\257\372\133\074\022\133\250\122\211\162\357  
\210\363\325\104\201\206\225\043\237\173\335\274\331\064\357\174  
\224\074\252\300\101\302\343\235\120\032\300\344\031\042\374\263  
\002\003\001\000\001\243\202\001\005\060\202\001\001\060\017\006  
\003\125\035\023\001\001\377\004\005\060\003\001\001\377\060\035  
\006\003\125\035\016\004\026\004\024\077\220\310\175\307\025\157  
\363\044\217\251\303\057\113\242\017\041\262\057\347\060\016\006  
\003\125\035\017\001\001\377\004\004\003\002\001\006\060\201\276  
\006\003\125\035\037\004\201\266\060\201\263\060\164\240\162\240  
\160\206\156\154\144\141\160\072\057\057\144\151\162\145\143\164  
\157\162\171\056\144\055\164\162\165\163\164\056\156\145\164\057  
\103\116\075\104\055\124\122\125\123\124\045\062\060\122\157\157  
\164\045\062\060\103\101\045\062\060\063\045\062\060\062\060\061  
\063\054\117\075\104\055\124\162\165\163\164\045\062\060\107\155  
\142\110\054\103\075\104\105\077\143\145\162\164\151\146\151\143  
\141\164\145\162\145\166\157\143\141\164\151\157\156\154\151\163  
\164\060\073\240\071\240\067\206\065\150\164\164\160\072\057\057  
\143\162\154\056\144\055\164\162\165\163\164\056\156\145\164\057  
\143\162\154\057\144\055\164\162\165\163\164\137\162\157\157\164  
\137\143\141\137\063\137\062\060\061\063\056\143\162\154\060\015  
\006\011\052\206\110\206\367\015\001\001\013\005\000\003\202\001

```
\001\000\016\131\016\130\344\164\110\043\104\317\064\041\265\234
\024\032\255\232\113\267\263\210\155\134\251\027\160\360\052\237
\215\173\371\173\205\372\307\071\350\020\010\260\065\053\137\317
\002\322\323\234\310\013\036\356\005\124\256\067\223\004\011\175
\154\217\302\164\274\370\034\224\276\061\001\100\055\363\044\040
\267\204\125\054\134\310\365\164\112\020\031\213\243\307\355\065
\326\011\110\323\016\300\272\071\250\260\106\002\260\333\306\210
\131\302\276\374\173\261\053\317\176\142\207\125\226\314\001\157
\233\147\041\225\065\213\370\020\374\161\033\267\113\067\151\246
\073\326\354\213\356\301\260\363\045\311\217\222\175\241\352\303
\312\104\277\046\245\164\222\234\343\164\353\235\164\331\313\115
\207\330\374\264\151\154\213\240\103\007\140\170\227\351\331\223
\174\302\106\274\233\067\122\243\355\212\074\023\251\173\123\113
\111\232\021\005\054\013\156\126\254\037\056\202\154\340\151\147
\265\016\155\055\331\344\300\025\361\077\372\030\162\341\025\155
\047\133\055\060\050\053\237\110\232\144\053\231\357\362\165\111
\137\134
```

END

CKA\_NSS\_MOZILLA\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "D-TRUST Root CA 3 2013"

# Issuer: CN=D-TRUST Root CA 3 2013,O=D-Trust GmbH,C=DE

# Serial Number: 1039788 (0xfddac)

# Subject: CN=D-TRUST Root CA 3 2013,O=D-Trust GmbH,C=DE

# Not Valid

Before: Fri Sep 20 08:25:51 2013

# Not Valid After : Wed Sep 20 08:25:51 2028

# Fingerprint (SHA-256):

A1:A8:6D:04:12:1E:B8:7F:02:7C:66:F5:33:03:C2:8E:57:39:F9:43:FC:84:B3:8A:D6:AF:00:90:35:DD:94:57

# Fingerprint (SHA1): 6C:7C:CC:E7:D4:AE:51:5F:99:08:CD:3F:F6:E8:C3:78:DF:6F:EF:97

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "D-TRUST Root CA 3 2013"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

```
\154\174\314\347\324\256\121\137\231\010\315\077\366\350\303\170
\337\157\357\227
```

END

CKA\_CERT\_MD5\_HASH MULTILINE\_OCTAL

```
\267\042\146\230\176\326\003\340\301\161\346\165\315\126\105\277
```

END

CKA\_ISSUER MULTILINE\_OCTAL

```
\060\105\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\025\060\023\006\003\125\004\012\014\014\104\055\124\162\165\163
```

```
\164\040\107\155\142\110\061\037\060\035\006\003\125\004\003\014
\026\104\055\124\122\125\123\124\040\122\157\157\164\040\103\101
\040\063\040\062\060\061\063
```

END

CKA\_SERIAL\_NUMBER

MULTILINE\_OCTAL

```
\002\003\017\335\254
```

END

CKA\_TRUST\_SERVER\_AUTH CK\_TRUST CKT\_NSS\_MUST\_VERIFY\_TRUST

CKA\_TRUST\_EMAIL\_PROTECTION CK\_TRUST CKT\_NSS\_TRUSTED\_DELEGATOR

CKA\_TRUST\_CODE\_SIGNING CK\_TRUST CKT\_NSS\_MUST\_VERIFY\_TRUST

CKA\_TRUST\_STEP\_UP\_APPROVED CK\_BBOOL CK\_FALSE

#

# Certificate "TUBITAK Kamu SM SSL Kok Sertifikasi - Surum 1"

#

# Issuer: CN=TUBITAK Kamu SM SSL Kok Sertifikasi - Surum 1,OU=Kamu Sertifikasyon Merkezi - Kamu SM,O=Turkiye Bilimsel ve Teknolojik Arastirma Kurumu - TUBITAK,L=Gebze - Kocaeli,C=TR

# Serial Number: 1 (0x1)

# Subject: CN=TUBITAK Kamu SM SSL Kok Sertifikasi - Surum 1,OU=Kamu Sertifikasyon Merkezi - Kamu SM,O=Turkiye Bilimsel ve Teknolojik Arastirma Kurumu - TUBITAK,L=Gebze - Kocaeli,C=TR

# Not Valid Before: Mon Nov 25 08:25:55 2013

# Not Valid After : Sun Oct 25 08:25:55 2043

# Fingerprint (SHA-256):

46:ED:C3:68:90:46:D5:3A:45:3F:B3:10:4A:B8:0D:CA:EC:65:8B:26:60:EA:16:29:DD:7E:86:79:90:64:87:16

# Fingerprint (SHA1): 31:43:64:9B:EC:CE:27:EC:ED:3A:3F:0B:8F:0D:E4:E8:91:DD:EE:CA

CKA\_CLASS

CK\_OBJECT\_CLASS CKO\_CERTIFICATE

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "TUBITAK Kamu SM SSL Kok Sertifikasi - Surum 1"

CKA\_CERTIFICATE\_TYPE CK\_CERTIFICATE\_TYPE CKC\_X\_509

CKA\_SUBJECT MULTILINE\_OCTAL

```
\060\201\322\061\013\060\011\006\003\125\004\006\023\002\124\122
\061\030\060\026\006\003\125\004\007\023\017\107\145\142\172\145
\040\055\040\113\157\143\141\145\154\151\061\102\060\100\006\003
\125\004\012\023\071\124\165\162\153\151\171\145\040\102\151\154
\151\155\163\145\154\040\166\145\040\124\145\153\156\157\154\157
\152\151\153\040\101\162\141\163\164\151\162\155\141\040\113\165
\162\165\155\165\040\055\040\124\125\102\111\124\101\113\061\055
\060\053\006\003\125\004\013\023\044\113\141\155\165\040\123\145
\162\164\151\146\151\153\141\163\171\157\156\040\115\145\162\153
\145\172\151\040\055\040\113\141\155\165\040\123\115\061\066\060
\064\006\003\125\004\003\023\055\124\125\102\111\124\101\113\040
\113\141\155\165\040\123\115\040\123\123\114\040\113\157\153\040
\123\145\162\164\151\146\151\153\141\163\151\040\055\040\123\165
\162\165\155\040\061
```

END

CKA\_ID

UTF8 "0"

CKA\_ISSUER MULTILINE\_OCTAL

\060\201\322\061\013\060\011\006\003\125\004\006\023\002\124\122  
\061\030\060\026\006\003\125\004\007\023\017\107\145\142\172\145  
\040\055\040\113\157\143\141\145\154\151\061\102\060\100\006\003  
\125\004\012\023\071\124\165\162\153\151\171\145\040\102\151\154  
\151\155\163\145\154\040\166\145\040\124\145\153\156\157\154\157  
\152\151\153\040\101\162\141\163\164\151\162\155\141\040\113\165  
\162\165\155\165\040\055\040\124\125\102\111\124\101\113\061\055  
\060\053\006\003\125\004\013\023\044\113\141\155\165\040\123\145  
\162\164\151\146\151\153\141\163\171\157\156\040\115\145\162\153  
\145\172\151\040\055\040\113\141\155\165\040\123\115\061\066\060  
\064\006\003\125\004\003\023\055\124\125\102\111\124\101\113\040  
\113\141\155\165\040\123\115\040\123\123\114\040\113\157\153\040  
\123\145\162\164\151\146\151\153\141\163\151\040\055\040\123\165  
\162\165\155\040\061

END

CKA\_SERIAL\_NUMBER

MULTILINE\_OCTAL

\002\001\001

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\004\143\060\202\003\113\240\003\002\001\002\002\001\001  
\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060  
\201\322\061\013\060\011\006\003\125\004\006\023\002\124\122\061  
\030\060\026\006\003\125\004\007\023\017\107\145\142\172\145\040  
\055\040\113\157\143\141\145\154\151\061\102\060\100\006\003\125  
\004\012\023\071\124\165\162\153\151\171\145\040\102\151\154\151  
\155\163\145\154\040\166\145\040\124\145\153\156\157\154\157\152  
\151\153\040\101\162\141\163\164\151\162\155\141\040\113\165\162  
\165\155\165\040\055\040\124\125\102\111\124\101\113\061\055\060  
\053\006\003\125\004\013\023\044\113\141\155\165\040\123\145\162  
\164\151\146\151\153\141\163\171\157\156\040\115\145\162\153\145  
\172\151\040\055\040\113\141\155\165\040\123\115\061\066\060\064  
\006\003\125\004\003\023\055\124\125\102\111\124\101\113\040\113  
\141\155\165\040\123\115\040\123\123\114\040\113\157\153\040\123  
\145\162\164\151\146\151\153\141\163\151\040\055\040\123\165\162  
\165\155\040\061\060\036\027\015\061\063\061\061\062\065\060\070  
\062\065\065\065\132\027\015\064\063\061\060\062\065\060\070\062  
\065\065\065\132\060\201\322\061\013\060\011\006\003\125\004\006  
\023\002\124\122\061\030\060\026\006\003\125\004\007\023\017\107  
\145\142\172\145\040\055\040\113\157\143\141\145\154\151\061\102  
\060\100\006\003\125\004\012\023\071\124\165\162\153\151\171\145  
\040\102\151\154\151\155\163\145\154\040\166\145\040\124\145\153  
\156\157\154\157\152\151\153\040\101\162\141\163\164\151\162\155  
\141\040\113\165\162\165\155\165\040\055\040\124\125\102\111\124

\101\113\061\055\060\053\006\003\125\004\013\023\044\113\141\155  
\165\040\123\145\162\164\151\146\151\153\141\163\171\157\156\040  
\115\145\162\153\145\172\151\040\055\040\113\141\155\165\040\123  
\115\061\066\060\064\006\003\125\004\003\023\055\124\125\102\111  
\124\101\113\040\113\141\155\165\040\123\115\040\123\123\114\040  
\113\157\153\040\123\145\162\164\151\146\151\153\141\163\151\040  
\055\040\123\165\162\165\155\040\061\060\202\001\042\060\015\006  
\011\052\206\110\206\367\015\001\001\001\005\000\003\202\001\017  
\000\060\202\001\012\002\202\001\001\000\257\165\060\063\252\273  
\153\323\231\054\022\067\204\331\215\173\227\200\323\156\347\377  
\233\120\225\076\220\225\126\102\327\031\174\046\204\215\222\372  
\001\035\072\017\342\144\070\267\214\274\350\210\371\213\044\253  
\056\243\365\067\344\100\216\030\045\171\203\165\037\073\377\154  
\250\305\306\126\370\264\355\212\104\243\253\154\114\374\035\320  
\334\357\150\275\317\344\252\316\360\125\367\242\064\324\203\153  
\067\174\034\302\376\265\003\354\127\316\274\264\265\305\355\000  
\017\123\067\052\115\364\117\014\203\373\206\317\313\376\214\116  
\275\207\371\247\213\041\127\234\172\337\003\147\211\054\235\227  
\141\247\020\270\125\220\177\016\055\047\070\164\337\347\375\332  
\116\022\343\115\025\042\002\310\340\340\374\017\255\212\327\311  
\124\120\314\073\017\312\026\200\204\320\121\126\303\216\126\177  
\211\042\063\057\346\205\012\275\245\250\033\066\336\323\334\054  
\155\073\307\023\275\131\043\054\346\345\244\367\330\013\355\352  
\220\100\104\250\225\273\223\325\320\200\064\266\106\170\016\037  
\000\223\106\341\356\351\371\354\117\027\002\003\001\000\001\243  
\102\060\100\060\035\006\003\125\035\016\004\026\004\024\145\077  
\307\212\206\306\074\335\074\124\134\065\370\072\355\122\014\107  
\127\310\060\016\006\003\125\035\017\001\001\377\004\004\003\002  
\001\006\060\017\006\003\125\035\023\001\001\377\004\005\060\003  
\001\001\377\060\015\006\011\052\206\110\206\367\015\001\001\013  
\005\000\003\202\001\001\000\052\077\341\361\062\216\256\341\230  
\134\113\136\317\153\036\152\011\322\042\251\022\307\136\127\175  
\163\126\144\200\204\172\223\344\011\271\020\315\237\052\047\341  
\000\167\276\110\310\065\250\201\237\344\270\054\311\177\016\260  
\322\113\067\135\352\271\325\013\136\064\275\364\163\051\303\355  
\046\025\234\176\010\123\212\130\215\320\113\050\337\301\263\337  
\040\363\371\343\343\072\337\314\234\224\330\116\117\303\153\027  
\267\367\162\350\255\146\063\265\045\123\253\340\370\114\251\235  
\375\362\015\272\256\271\331\252\306\153\371\223\273\256\253\270  
\227\074\003\032\272\103\306\226\271\105\162\070\263\247\241\226  
\075\221\173\176\300\041\123\114\207\355\362\013\124\225\121\223  
\325\042\245\015\212\361\223\016\076\124\016\260\330\311\116\334  
\362\061\062\126\352\144\371\352\265\235\026\146\102\162\363\177  
\323\261\061\103\374\244\216\027\361\155\043\253\224\146\370\255  
\373\017\010\156\046\055\177\027\007\011\262\214\373\120\300\237  
\226\215\317\266\375\000\235\132\024\232\277\002\104\365\301\302  
\237\042\136\242\017\241\343

END

```
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
```

```
Trust for "TUBITAK Kamu SM SSL Kok Sertifikasi - Surum 1"
Issuer: CN=TUBITAK Kamu SM SSL Kok Sertifikasi - Surum
1,OU=Kamu Sertifikasyon Merkezi - Kamu SM,O=Turkiye Bilimsel ve Teknolojik Arastirma Kurumu -
TUBITAK,L=Gebze - Kocaeli,C=TR
Serial Number: 1 (0x1)
Subject: CN=TUBITAK Kamu SM SSL Kok Sertifikasi - Surum 1,OU=Kamu Sertifikasyon Merkezi - Kamu
SM,O=Turkiye Bilimsel ve Teknolojik Arastirma Kurumu - TUBITAK,L=Gebze - Kocaeli,C=TR
Not Valid Before: Mon Nov 25 08:25:55 2013
Not Valid After : Sun Oct 25 08:25:55 2043
Fingerprint (SHA-256):
46:ED:C3:68:90:46:D5:3A:45:3F:B3:10:4A:B8:0D:CA:EC:65:8B:26:60:EA:16:29:DD:7E:86:79:90:64:87:16
Fingerprint (SHA1): 31:43:64:9B:EC:CE:27:EC:ED:3A:3F:0B:8F:0D:E4:E8:91:DD:EE:CA
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TUBITAK Kamu SM SSL Kok Sertifikasi - Surum 1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\061\103\144\233\354\316\047\354\355\072\077\013\217\015\344\350
\221\335\356\312
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\334\000\201\334\151\057\076\057\260\073\366\075\132\221\216\111
END
CKA_ISSUER
MULTILINE_OCTAL
\060\201\322\061\013\060\011\006\003\125\004\006\023\002\124\122
\061\030\060\026\006\003\125\004\007\023\017\107\145\142\172\145
\040\055\040\113\157\143\141\145\154\151\061\102\060\100\006\003
\125\004\012\023\071\124\165\162\153\151\171\145\040\102\151\154
\151\155\163\145\154\040\166\145\040\124\145\153\156\157\154\157
\152\151\153\040\101\162\141\163\164\151\162\155\141\040\113\165
\162\165\155\165\040\055\040\124\125\102\111\124\101\113\061\055
\060\053\006\003\125\004\013\023\044\113\141\155\165\040\123\145
\162\164\151\146\151\153\141\163\171\157\156\040\115\145\162\153
\145\172\151\040\055\040\113\141\155\165\040\123\115\061\066\060
\064\006\003\125\004\003\023\055\124\125\102\111\124\101\113\040
\113\141\155\165\040\123\115\040\123\123\114\040\113\157\153\040
\123\145\162\164\151\146\151\153\141\163\151\040\055\040\123\165
\162\165\155\040\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001
```

```

END
CKA_TRUST_SERVER_AUTH
CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "GDCA TrustAUTH R5 ROOT"
#
Issuer: CN=GDCA TrustAUTH R5 ROOT,O="GUANG DONG CERTIFICATE AUTHORITY
CO.,LTD.",C=CN
Serial Number:7d:09:97:fe:f0:47:ea:7a
Subject: CN=GDCA TrustAUTH R5 ROOT,O="GUANG DONG CERTIFICATE AUTHORITY
CO.,LTD.",C=CN
Not Valid Before: Wed Nov 26 05:13:15 2014
Not Valid After : Mon Dec 31 15:59:59 2040
Fingerprint (SHA-256):
BF:FF:8F:DO:44:33:48:7D:6A:8A:A6:0C:1A:29:76:7A:9F:C2:BB:B0:5E:42:0F:71:3A:13:B9:92:89:1D:38:93
Fingerprint (SHA1): 0F:36:38:5B:81:1A:25:C3:9B:31:4E:83:CA:E9:34:66:70:CC:74:B4
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GDCA TrustAUTH R5 ROOT"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT
MULTILINE_OCTAL
\060\142\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\062\060\060\006\003\125\004\012\014\051\107\125\101\116\107\040
\104\117\116\107\040\103\105\122\124\111\106\111\103\101\124\105
\040\101\125\124\110\117\122\111\124\131\040\103\117\056\054\114
\124\104\056\061\037\060\035\006\003\125\004\003\014\026\107\104
\103\101\040\124\162\165\163\164\101\125\124\110\040\122\065\040
\122\117\117\124
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\142\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\062\060\060\006\003\125\004\012\014\051\107\125\101\116\107\040
\104\117\116\107\040\103\105\122\124\111\106\111\103\101\124\105
\040\101\125\124\110\117\122\111\124\131\040\103\117\056\054\114
\124\104\056\061\037\060\035\006\003\125\004\003\014\026\107\104
\103\101\040\124\162\165\163\164\101\125\124\110\040\122\065\040
\122\117\117\124
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\175\011\227\376\360\107\352\172

```

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\005\210\060\202\003\160\240\003\002\001\002\002\010\175  
\011\227\376\360\107\352\172\060\015\006\011\052\206\110\206\367  
\015\001\001\013\005\000\060\142\061\013\060\011\006\003\125\004  
\006\023\002\103\116\061\062\060\060\006\003\125\004\012\014\051  
\107\125\101\116\107\040\104\117\116\107\040\103\105\122\124\111  
\106\111\103\101\124\105\040\101\125\124\110\117\122\111\124\131  
\040\103\117\056\054\114\124\104\056\061\037\060\035\006\003\125  
\004\003\014\026\107\104\103\101\040\124\162\165\163\164\101\125  
\124\110\040\122\065\040\122\117\117\124\060\036\027\015\061\064  
\061\061\062\066\060\065\061\063\061\065\132\027\015\064\060\061  
\062\063\061\061\065\065\071\065\071\132\060\142\061\013\060\011  
\006\003\125\004\006\023\002\103\116\061\062\060\060\006\003\125  
\004\012\014\051\107\125\101\116\107\040\104\117\116\107\040\103  
\105\122\124\111\106\111\103\101\124\105\040\101\125\124\110\117  
\122\111\124\131\040\103\117\056\054\114\124\104\056\061\037\060  
\035\006\003\125\004\003\014\026\107\104\103\101\040\124\162\165  
\163\164\101\125\124\110\040\122\065\040\122\117\117\124\060\202  
\002\042\060\015\006\011\052\206\110\206\367\015\001\001\001\005  
\000\003\202\002\017\000\060\202\002\012\002\202\002\001\000\331  
\243\026\360\310\164\164\167\233\357\063\015\073\006\176\125\374  
\265\140\217\166\206\022\102\175\126\146\076\210\202\355\162\143  
\016\236\213\335\064\054\002\121\121\303\031\375\131\124\204\311  
\361\153\263\114\260\351\350\106\135\070\306\242\247\056\021\127  
\272\202\025\242\234\217\155\260\231\112\012\362\353\211\160\143  
\116\171\304\267\133\275\242\135\261\362\101\002\053\255\251\072  
\243\354\171\012\354\137\072\343\375\357\200\074\255\064\233\032  
\253\210\046\173\126\242\202\206\037\353\065\211\203\177\137\256  
\051\116\075\266\156\354\256\301\360\047\233\256\343\364\354\357  
\256\177\367\206\075\162\172\353\245\373\131\116\247\353\225\214  
\042\071\171\341\055\010\217\314\274\221\270\101\367\024\301\043  
\251\303\255\232\105\104\263\262\327\054\315\306\051\342\120\020  
\256\134\313\202\216\027\030\066\175\227\346\210\232\260\115\064  
\011\364\054\271\132\146\052\260\027\233\236\036\166\235\112\146  
\061\101\337\077\373\305\006\357\033\266\176\032\106\066\367\144  
\143\073\343\071\030\043\347\147\165\024\325\165\127\222\067\275  
\276\152\033\046\120\362\066\046\006\220\305\160\001\144\155\166  
\146\341\221\333\156\007\300\141\200\056\262\056\057\214\160\247  
\321\073\074\263\221\344\156\266\304\073\160\362\154\222\227\011  
\315\107\175\030\300\363\273\236\017\326\213\256\007\266\132\017  
\316\013\014\107\247\345\076\270\275\175\307\233\065\240\141\227  
\072\101\165\027\314\053\226\167\052\222\041\036\331\225\166\040  
\147\150\317\015\275\337\326\037\011\152\232\342\314\163\161\244  
\057\175\022\200\267\123\060\106\136\113\124\231\017\147\311\245  
\310\362\040\301\202\354\235\021\337\302\002\373\032\073\321\355  
\040\232\357\145\144\222\020\015\052\342\336\160\361\030\147\202  
\214\141\336\270\274\321\057\234\373\017\320\053\355\033\166\271



\344\071\125\370\370\241\035\270\252\200\000\114\202\347\262\177  
\011\270\274\060\240\057\015\365\122\236\216\367\222\263\012\000  
\035\000\124\227\006\340\261\007\331\307\017\134\145\175\074\155  
\131\127\344\355\245\215\351\100\123\237\025\113\240\161\366\032  
\041\343\332\160\006\041\130\024\207\205\167\171\252\202\171\002  
\003\001\000\001\243\102\060\100\060\035\006\003\125\035\016\004  
\026\004\024\342\311\100\237\115\316\350\232\241\174\317\016\077  
\145\305\051\210\152\031\121\060\017\006\003\125\035\023\001\001  
\377\004\005\060\003\001\001\377\060\016\006\003\125\035\017\001  
\001\377\004\004\003\002\001\206\060\015\006\011\052\206\110\206  
\367\015\001\001\013\005\000\003\202\002\001\000\321\111\127\340  
\247\314\150\130\272\001\017\053\031\315\215\260\141\105\254\021  
\355\143\120\151\370\037\177\276\026\217\375\235\353\013\252\062  
\107\166\322\147\044\355\275\174\063\062\227\052\307\005\206\146  
\015\027\175\024\025\033\324\353\375\037\232\366\136\227\151\267  
\032\045\244\012\263\221\077\137\066\254\213\354\127\250\076\347  
\201\212\030\127\071\205\164\032\102\307\351\133\023\137\217\371  
\010\351\222\164\215\365\107\322\253\073\326\373\170\146\116\066  
\175\371\351\222\351\004\336\375\111\143\374\155\373\024\161\223  
\147\057\107\112\267\271\377\036\052\163\160\106\060\277\132\362  
\057\171\245\341\215\014\331\371\262\143\067\214\067\145\205\160  
\152\134\133\011\162\271\255\143\074\261\335\370\374\062\277\067  
\206\344\273\216\230\047\176\272\037\026\341\160\021\362\003\337  
\045\142\062\047\046\030\062\204\237\377\000\072\023\272\232\115  
\364\117\270\024\160\042\261\312\053\220\316\051\301\160\364\057  
\235\177\362\220\036\326\132\337\267\106\374\346\206\372\313\340  
\040\166\172\272\246\313\365\174\336\142\245\261\213\356\336\202  
\146\212\116\072\060\037\077\200\313\255\047\272\014\136\327\320  
\261\126\312\167\161\262\265\165\241\120\251\100\103\027\302\050  
\331\317\122\213\133\310\143\324\102\076\240\063\172\106\056\367  
\012\040\106\124\176\152\117\061\361\201\176\102\164\070\145\163  
\047\356\306\174\270\216\327\245\072\327\230\241\234\214\020\125  
\323\333\113\354\100\220\362\315\156\127\322\142\016\174\127\223  
\261\247\155\315\235\203\273\052\347\345\266\073\161\130\255\375  
\321\105\274\132\221\356\123\025\157\323\105\011\165\156\272\220  
\135\036\004\317\067\337\036\250\146\261\214\346\040\152\357\374  
\110\116\164\230\102\257\051\157\056\152\307\373\175\321\146\061  
\042\314\206\000\176\146\203\014\102\364\275\064\222\303\032\352  
\117\312\176\162\115\013\160\214\246\110\273\246\241\024\366\373  
\130\104\231\024\256\252\013\223\151\240\051\045\112\245\313\053  
\335\212\146\007\026\170\025\127\161\033\354\365\107\204\363\236  
\061\067\172\325\177\044\255\344\274\375\375\314\156\203\350\014  
\250\267\101\154\007\335\275\074\206\227\057\322

END

CKA\_NSS\_MOZILLA\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

```

Trust for "GDCA TrustAUTH R5 ROOT"
Issuer: CN=GDCA TrustAUTH R5 ROOT,O="GUANG DONG CERTIFICATE AUTHORITY
CO.,LTD.",C=CN
Serial Number:7d:09:97:fe:f0:47:ea:7a
Subject: CN=GDCA TrustAUTH R5 ROOT,O="GUANG DONG CERTIFICATE AUTHORITY
CO.,LTD.",C=CN
Not Valid Before: Wed Nov 26 05:13:15 2014
Not Valid After : Mon Dec 31 15:59:59 2040
Fingerprint (SHA-256):
BF:FF:8F:D0:44:33:48:7D:6A:8A:A6:0C:1A:29:76:7A:9F:C2:BB:B0:5E:42:0F:71:3A:13:B9:92:89:1D:38:93
Fingerprint (SHA1): 0F:36:38:5B:81:1A:25:C3:9B:31:4E:83:CA:E9:34:66:70:CC:74:B4
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GDCA TrustAUTH R5 ROOT"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\017\066\070\133\201\032\045\303\233\061\116\203\312\351\064\146
\160\314\164\264
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\143\314\331\075\064\065\134\157\123\243\342\010\160\110\037\264
END
CKA_ISSUER MULTILINE_OCTAL
\060\142\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\062\060\060\006\003\125\004\012\014\051\107\125\101\116\107\040
\104\117\116\107\040\103\105\122\124\111\106\111\103\101\124\105
\040\101\125\124\110\117\122\111\124\131\040\103\117\056\054\114
\124\104\056\061\037\060\035\006\003\125\004\003\014\026\107\104
\103\101\040\124\162\165\163\164\101\125\124\110\040\122\065\040
\122\117\117\124
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\010\175\011\227\376\360\107\352\172
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "TrustCor RootCert CA-1"
#
Issuer: CN=TrustCor RootCert CA-1,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de
R.L.,L=Panama City,ST=Panama,C=PA
Serial Number:00:da:9b:ec:71:f3:03:b0:19

```

# Subject: CN=TrustCor RootCert CA-1,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de  
R.L.,L=Panama City,ST=Panama,C=PA  
# Not Valid Before: Thu Feb 04 12:32:16 2016  
# Not Valid After : Mon Dec 31 17:23:16  
2029

# Fingerprint (SHA-256):

D4:0E:9C:86:CD:8F:E4:68:C1:77:69:59:F4:9E:A7:74:FA:54:86:84:B6:C4:06:F3:90:92:61:F4:DC:E2:57:5C

# Fingerprint (SHA1): FF:BD:CD:E7:82:C8:43:5E:3C:6F:26:86:5C:CA:A8:3A:45:5B:C3:0A

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_CERTIFICATE

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "TrustCor RootCert CA-1"

CKA\_CERTIFICATE\_TYPE CK\_CERTIFICATE\_TYPE CKC\_X\_509

CKA\_SUBJECT MULTILINE\_OCTAL

\060\201\244\061\013\060\011\006\003\125\004\006\023\002\120\101  
\061\017\060\015\006\003\125\004\010\014\006\120\141\156\141\155  
\141\061\024\060\022\006\003\125\004\007\014\013\120\141\156\141  
\155\141\040\103\151\164\171\061\044\060\042\006\003\125\004\012  
\014\033\124\162\165\163\164\103\157\162\040\123\171\163\164\145  
\155\163\040\123\056\040\144\145\040\122\056\114\056\061\047\060  
\045\006\003\125\004\013\014\036\124\162\165\163\164\103\157\162  
\040\103\145\162\164\151\146\151\143\141\164\145\040\101\165\164  
\150\157\162\151\164\171\061\037\060\035\006\003\125\004\003\014  
\026\124\162\165\163\164\103\157\162\040\122\157\157\164\103\145  
\162\164\040\103\101\055\061

END

CKA\_ID

UTF8 "0"

CKA\_ISSUER MULTILINE\_OCTAL

\060\201\244\061\013\060\011\006\003\125\004\006\023\002\120\101  
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\141\061\024\060\022\006\003\125\004\007\014\013\120\141\156\141  
\155\141\040\103\151\164\171\061\044\060\042\006\003\125\004\012  
\014\033\124\162\165\163\164\103\157\162\040\123\171\163\164\145  
\155\163\040\123\056\040\144\145\040\122\056\114\056\061\047\060  
\045\006\003\125\004\013\014\036\124\162\165\163\164\103\157\162  
\040\103\145\162\164\151\146\151\143\141\164\145\040\101\165\164  
\150\157\162\151\164\171\061\037\060\035\006\003\125\004\003\014  
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CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

\002\011\000\332\233\354\161\363\003\260\031

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CKA\_VALUE MULTILINE\_OCTAL

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\007\014\013\120\141\156\141\155\141\040\103\151\164\171\061\044  
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\035\006\003\125\004\003\014\026\124\162\165\163\164\103\157\162  
\040\122\157\157\164\103\145\162\164\040\103\101\055\061\060\036  
\027\015\061\066\060\062\060\064\061\062\063\062\061\066\132\027  
\015\062\071\061\062\063\061\061\067\062\063\061\066\132\060\201  
\244\061\013\060\011\006\003\125\004\006\023\002\120\101\061\017  
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\040\103\151\164\171\061\044\060\042\006\003\125\004\012\014\033  
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\031\307\100\130\012\253\131\252\215\000\243\374\200\307\120\173  
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\261\352\264\211\141\044\363\032\023\333\251\317\122\355\014\044  
\272\271\236\354\176\000\164\372\223\255\154\051\222\256\121\264  
\273\323\127\277\263\363\250\215\234\364\044\113\052\326\231\236  
\364\236\376\300\176\102\072\347\013\225\123\332\267\150\016\220  
\114\373\160\077\217\112\054\224\363\046\335\143\151\251\224\330  
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\021\216\041\200\265\275\240\163\330\320\262\167\304\105\352\132  
\046\373\146\166\166\370\006\037\141\155\017\125\305\203\267\020  
\126\162\006\007\245\363\261\032\003\005\144\016\235\132\212\326  
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\262\171\016\213\145\017\002\003\001\000\001\243\143\060\141\060  
\035\006\003\125\035\016\004\026\004\024\356\153\111\074\172\077  
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\077\015\343\261\011\267\212\310\253\031\237\163\063\120\347\060  
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\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\003
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\332\055\104\051\031\240\036\153\061\236\115\016\236\255\075\134
\101\157\225\053\044\241\171\230\072\070\066\373\273\146\236\110
\377\220\220\357\075\324\270\233\264\207\165\077\040\233\316\162
\317\241\125\301\115\144\242\031\006\241\007\063\014\013\051\345
\361\352\253\243\354\265\012\164\220\307\175\162\362\327\134\237
\221\357\221\213\267\334\355\146\242\317\216\146\073\274\237\072
\002\340\047\335\026\230\300\225\324\012\244\344\201\232\165\224
\065\234\220\137\210\067\006\255\131\225\012\260\321\147\323\031
\312\211\347\062\132\066\034\076\202\250\132\223\276\306\320\144
\221\266\317\331\266\030\317\333\176\322\145\243\246\304\216\027
\061\301\373\176\166\333\323\205\343\130\262\167\172\166\073\154
\057\120\034\347\333\366\147\171\037\365\202\225\232\007\247\024
\257\217\334\050\041\147\011\322\326\115\132\034\031\034\216\167
\134\303\224\044\075\062\153\113\176\324\170\224\203\276\067\115
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END

CKA\_NSS\_MOZILLA\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "TrustCor RootCert CA-1"

# Issuer: CN=TrustCor RootCert CA-1,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de R.L.,L=Panama City,ST=Panama,C=PA

# Serial Number:00:da:9b:ec:71:f3:03:b0:19

# Subject: CN=TrustCor RootCert CA-1,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de R.L.,L=Panama City,ST=Panama,C=PA

# Not Valid Before: Thu Feb 04 12:32:16 2016

# Not Valid After : Mon Dec 31 17:23:16 2029

# Fingerprint (SHA-256):

D4:0E:9C:86:CD:8F:E4:68:C1:77:69:59:F4:9E:A7:74:FA:54:86:84:B6:C4:06:F3:90:92:61:F4:DC:E2:57:5C

#

Fingerprint (SHA1): FF:BD:CD:E7:82:C8:43:5E:3C:6F:26:86:5C:CA:A8:3A:45:5B:C3:0A

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "TrustCor RootCert CA-1"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

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\105\133\303\012
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END

CKA\_CERT\_MD5\_HASH MULTILINE\_OCTAL

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\156\205\361\334\032\000\323\042\325\262\262\254\153\067\005\105
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END

CKA\_ISSUER MULTILINE\_OCTAL

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\155\141\040\103\151\164\171\061\044\060\042\006\003\125\004\012  
\014\033\124\162\165\163\164\103\157\162\040\123\171\163\164\145  
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\040\103\145\162\164\151\146\151\143\141\164\145\040\101\165\164  
\150\157\162\151\164\171\061\037\060\035\006\003\125\004\003\014  
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END

CKA\_SERIAL\_NUMBER

MULTILINE\_OCTAL

\002\011\000\332\233\354\161\363\003\260\031

END

CKA\_TRUST\_SERVER\_AUTH CK\_TRUST CKT\_NSS\_TRUSTED\_DELEGATOR

CKA\_TRUST\_EMAIL\_PROTECTION CK\_TRUST CKT\_NSS\_TRUSTED\_DELEGATOR

CKA\_TRUST\_CODE\_SIGNING CK\_TRUST CKT\_NSS\_MUST\_VERIFY\_TRUST

CKA\_TRUST\_STEP\_UP\_APPROVED CK\_BBOOL CK\_FALSE

#

# Certificate "TrustCor RootCert CA-2"

#

# Issuer: CN=TrustCor RootCert CA-2,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de  
R.L.,L=Panama City,ST=Panama,C=PA

# Serial Number:25:a1:df:ca:33:cb:59:02

# Subject: CN=TrustCor RootCert CA-2,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de  
R.L.,L=Panama City,ST=Panama,C=PA

# Not Valid Before: Thu Feb 04 12:32:23 2016

# Not Valid After : Sun Dec 31 17:26:39 2034

# Fingerprint (SHA-256):

07:53:E9:40:37:8C:1B:D5:E3:83:6E:39:5D:AE:A5:CB:83:9E:50:46:F1:BD:0E:AE:19:51:CF:10:FE:C7:C9:65

#

Fingerprint (SHA1): B8:BE:6D:CB:56:F1:55:B9:63:D4:12:CA:4E:06:34:C7:94:B2:1C:C0

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_CERTIFICATE

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "TrustCor RootCert CA-2"

CKA\_CERTIFICATE\_TYPE CK\_CERTIFICATE\_TYPE CKC\_X\_509

CKA\_SUBJECT MULTILINE\_OCTAL

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END

CKA\_ID

UTF8 "0"

CKA\_ISSUER MULTILINE\_OCTAL

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CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

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END

CKA\_VALUE MULTILINE\_OCTAL

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\164\247\054\360\010\330\171\132\327\132\204\212\330\022\232\033



\331\175\134\115\160\305\245\371\253\345\243\211\211\335\001\372  
\354\335\371\351\222\227\333\260\106\102\363\323\142\252\225\376  
\061\147\024\151\130\220\012\252\013\356\067\043\307\120\121\264  
\365\176\236\343\173\367\344\314\102\062\055\111\014\313\377\111  
\014\233\036\064\375\156\156\226\212\171\003\266\157\333\011\313  
\375\137\145\024\067\341\070\365\363\141\026\130\344\265\155\015  
\013\004\033\077\120\055\177\263\307\172\032\026\200\140\370\212  
\037\351\033\052\306\371\272\001\032\151\277\322\130\307\124\127  
\010\217\341\071\140\167\113\254\131\204\032\210\361\335\313\117  
\170\327\347\341\063\055\374\356\101\372\040\260\276\313\367\070  
\224\300\341\320\205\017\273\355\054\163\253\355\376\222\166\032  
\144\177\133\015\063\011\007\063\173\006\077\021\244\134\160\074  
\205\300\317\343\220\250\203\167\372\333\346\305\214\150\147\020  
\147\245\122\055\360\304\231\217\177\277\321\153\342\265\107\326  
\331\320\205\231\115\224\233\017\113\215\356\000\132\107\035\021  
\003\254\101\030\257\207\267\157\014\072\217\312\317\334\003\301  
\242\011\310\345\375\200\136\310\140\102\001\033\032\123\132\273  
\067\246\267\274\272\204\351\036\154\032\324\144\332\324\103\376  
\223\213\113\362\054\171\026\020\324\223\013\210\217\241\330\206  
\024\106\221\107\233\050\044\357\127\122\116\134\102\234\252\367  
\111\354\047\350\100\036\263\246\211\042\162\234\365\015\063\264  
\130\243\060\073\335\324\152\124\223\276\032\115\363\223\224\367  
\374\204\013\077\204\040\134\064\003\104\305\332\255\274\012\301  
\002\317\036\345\224\331\363\216\133\330\114\360\235\354\141\027  
\273\024\062\124\014\002\051\223\036\222\206\366\177\357\347\222  
\005\016\131\335\231\010\056\056\372\234\000\122\323\305\146\051  
\344\247\227\104\244\016\050\201\023\065\305\366\157\144\346\101  
\304\325\057\314\064\105\045\317\101\000\226\075\112\056\302\226  
\230\117\116\112\234\227\267\333\037\222\062\310\377\017\121\156  
\326\354\011

END

CKA\_NSS\_MOZILLA\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "TrustCor RootCert CA-2"

# Issuer: CN=TrustCor RootCert CA-2,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de  
R.L.,L=Panama City,ST=Panama,C=PA

# Serial Number:25:a1:df:ca:33:cb:59:02

# Subject: CN=TrustCor RootCert CA-2,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de  
R.L.,L=Panama City,ST=Panama,C=PA

# Not Valid Before: Thu Feb 04 12:32:23 2016

# Not Valid After : Sun Dec 31 17:26:39 2034

# Fingerprint (SHA-256):

07:53:E9:40:37:8C:1B:D5:E3:83:6E:39:5D:AE:A5:CB:83:9E:50:46:F1:BD:0E:AE:19:51:CF:10:FE:C7:C9:65

#

```

Fingerprint (SHA1): B8:BE:6D:CB:56:F1:55:B9:63:D4:12:CA:4E:06:34:C7:94:B2:1C:C0
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TrustCor RootCert CA-2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\270\276\155\313\126\361\125\271\143\324\022\312\116\006\064\307
\224\262\034\300
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\242\341\370\030\013\272\105\325\307\101\052\273\067\122\105\144
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\244\061\013\060\011\006\003\125\004\006\023\002\120\101
\061\017\060\015\006\003\125\004\010\014\006\120\141\156\141\155
\141\061\024\060\022\006\003\125\004\007\014\013\120\141\156\141
\155\141\040\103\151\164\171\061\044\060\042\006\003\125\004\012
\014\033\124\162\165\163\164\103\157\162\040\123\171\163\164\145
\155\163\040\123\056\040\144\145\040\122\056\114\056\061\047\060
\045\006\003\125\004\013\014\036\124\162\165\163\164\103\157\162
\040\103\145\162\164\151\146\151\143\141\164\145\040\101\165\164
\150\157\162\151\164\171\061\037\060\035\006\003\125\004\003\014
\026\124\162\165\163\164\103\157\162\040\122\157\157\164\103\145
\162\164\040\103\101\055\062
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\010\045\241\337\312\063\313\131\002
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "TrustCor ECA-1"
#
Issuer: CN=TrustCor ECA-1,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de R.L.,L=Panama
City,ST=Panama,C=PA
Serial Number:00:84:82:2c:5f:1c:62:d0:40
Subject: CN=TrustCor ECA-1,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de R.L.,L=Panama
City,ST=Panama,C=PA
Not Valid Before: Thu Feb 04 12:32:33 2016
Not Valid After : Mon Dec 31 17:28:07 2029
Fingerprint (SHA-256):
5A:88:5D:B1:9C:01:D9:12:C5:75:93:88:93:8C:AF:BB:DF:03:1A:B2:D4:8E:91:EE:15:58:9B:42:97:1D:03:9C
Fingerprint (SHA1): 58:D1:DF:95:95:67:6B:63:C0:F0:5B:1C:17:4D:8B:84:0B:C8:78:BD

```

```
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TrustCor ECA-1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\234\061\013\060\011\006\003\125\004\006\023\002\120\101
\061\017\060\015\006\003\125\004\010\014\006\120\141\156\141\155
\141\061\024\060\022\006\003\125\004\007\014\013\120\141\156\141
\155\141\040\103\151\164\171\061\044\060\042\006\003\125\004\012
\014\033\124\162\165\163\164\103\157\162\040\123\171\163\164\145
\155\163\040\123\056\040\144\145\040\122\056\114\056\061\047\060
\045\006\003\125\004\013\014\036\124\162\165\163\164\103\157\162
\040\103\145\162\164\151\146\151\143\141\164\145\040\101\165\164
\150\157\162\151\164\171\061\027\060\025\006\003\125\004\003\014
\016\124\162\165\163\164\103\157\162\040\105\103\101\055\061
END
CKA_ID
UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\234\061\013\060\011\006\003\125\004\006\023\002\120\101
\061\017\060\015\006\003\125\004\010\014\006\120\141\156\141\155
\141\061\024\060\022\006\003\125\004\007\014\013\120\141\156\141
\155\141\040\103\151\164\171\061\044\060\042\006\003\125\004\012
\014\033\124\162\165\163\164\103\157\162\040\123\171\163\164\145
\155\163\040\123\056\040\144\145\040\122\056\114\056\061\047\060
\045\006\003\125\004\013\014\036\124\162\165\163\164\103\157\162
\040\103\145\162\164\151\146\151\143\141\164\145\040\101\165\164
\150\157\162\151\164\171\061\027\060\025\006\003\125\004\003\014
\016\124\162\165\163\164\103\157\162\040\105\103\101\055\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\011\000\204\202\054\137\034\142\320\100
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\040\060\202\003\010\240\003\002\001\002\002\011\000
\204\202\054\137\034\142\320\100\060\015\006\011\052\206\110\206
\367\015\001\001\013\005\000\060\201\234\061\013\060\011\006\003
\125\004\006\023\002\120\101\061\017\060\015\006\003\125\004\010
\014\006\120\141\156\141\155\141\061\024\060\022\006\003\125\004
\007\014\013\120\141\156\141\155\141\040\103\151\164\171\061\044
\060\042\006\003\125\004\012\014\033\124\162\165\163\164\103\157
\162\040\123\171\163\164\145\155\163\040\123\056\040\144\145\040
\122\056\114\056\061\047\060\045\006\003\125\004\013\014\036\124
\162\165\163\164\103\157\162\040\103\145\162\164\151\146\151\143
\141\164\145\040\101\165\164\150\157\162\151\164\171\061\027\060
\025\006\003\125\004\003\014\016\124\162\165\163\164\103\157\162
```

\040\105\103\101\055\061\060\036\027\015\061\066\060\062\060\064  
\061\062\063\062\063\063\132\027\015\062\071\061\062\063\061\061  
\067\062\070\060\067\132\060\201\234\061\013\060\011\006\003\125  
\004\006\023\002\120\101\061\017\060\015\006\003\125\004\010\014  
\006\120\141\156\141\155\141\061\024\060\022\006\003\125\004\007  
\014\013\120\141\156\141\155\141\040\103\151\164\171\061\044\060  
\042\006\003\125\004\012\014\033\124\162\165\163\164\103\157\162  
\040\123\171\163\164\145\155\163\040\123\056\040\144\145\040\122  
\056\114\056\061\047\060\045\006\003\125\004\013\014\036\124\162  
\165\163\164\103\157\162\040\103\145\162\164\151\146\151\143\141  
\164\145\040\101\165\164\150\157\162\151\164\171\061\027\060\025  
\006\003\125\004\003\014\016\124\162\165\163\164\103\157\162\040  
\105\103\101\055\061\060\202\001\042\060\015\006\011\052\206\110  
\206\367\015\001\001\001\005\000\003\202\001\017\000\060\202\001  
\012\002\202\001\001\000\317\217\340\021\265\237\250\166\166\333  
\337\017\124\357\163\143\051\202\255\107\306\243\153\355\376\137  
\063\370\103\121\351\032\063\221\061\027\240\164\304\324\247\001  
\346\262\222\076\152\235\355\016\371\164\230\100\323\077\003\200  
\006\202\100\350\261\342\247\121\247\035\203\046\153\253\336\372  
\027\221\053\330\306\254\036\261\236\031\001\325\227\246\352\015  
\267\304\125\037\047\174\322\010\325\166\037\051\025\207\100\071  
\335\070\105\021\165\320\232\247\064\340\277\315\310\122\035\271  
\107\176\015\270\273\306\014\366\163\127\026\132\176\103\221\037  
\125\072\306\155\104\004\252\234\251\234\247\114\211\027\203\256  
\243\004\136\122\200\213\036\022\045\021\031\327\014\175\175\061  
\104\101\352\333\257\260\034\357\201\320\054\305\232\041\233\075  
\355\102\073\120\046\362\354\316\161\141\006\142\041\124\116\177  
\301\235\076\177\040\214\200\313\052\330\227\142\310\203\063\221  
\175\260\242\132\017\127\350\073\314\362\045\262\324\174\057\354  
\115\306\241\072\025\172\347\266\135\065\365\366\110\112\066\105  
\146\324\272\230\130\301\002\003\001\000\001\243\143\060\141\060  
\035\006\003\125\035\016\004\026\004\024\104\236\110\365\314\155  
\110\324\240\113\177\376\131\044\057\203\227\231\232\206\060\037  
\006\003\125\035\043\004\030\060\026\200\024\104\236\110\365\314  
\155\110\324\240\113\177\376\131\044\057\203\227\231\232\206\060  
\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001\377  
\060\016\006\003\125\035\017\001\001\377\004\004\003\002\001\206  
\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\003  
\202\001\001\000\005\076\065\134\025\160\233\311\307\163\141\157  
\162\053\324\302\217\362\103\135\002\316\304\224\271\224\021\203  
\147\135\342\147\154\165\166\277\273\014\252\066\306\255\107\223  
\143\334\036\176\326\336\056\376\351\031\062\070\003\177\024\366  
\000\163\054\131\261\041\006\341\373\254\030\225\014\243\377\231  
\226\367\053\047\233\325\044\314\035\335\301\072\340\230\104\260  
\304\344\076\167\261\163\251\144\054\366\034\001\174\077\135\105  
\205\300\205\347\045\217\225\334\027\363\074\237\032\156\260\312  
\343\035\052\351\114\143\372\044\141\142\326\332\176\266\034\154  
\365\002\035\324\052\335\125\220\353\052\021\107\074\056\136\164

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\262\202\042\245\175\123\037\105\354\047\221\175\347\042\026\350
\300\150\066\330\306\361\117\200\104\062\371\341\321\321\035\252
\336\250\253\234\004\257\255\040\016\144\230\115\245\153\300\110
\130\226\151\115\334\007\214\121\223\242\337\237\017\075\213\140
\264\202\215\252\010\116\142\105\340\371\013\322\340\340\074\133
\336\134\161\047\045\302\346\003\201\213\020\123\343\307\125\242
\264\237\327\346
```

END

CKA\_NSS\_MOZILLA\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "TrustCor ECA-1"

# Issuer: CN=TrustCor ECA-1,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de R.L.,L=Panama City,ST=Panama,C=PA

# Serial Number:00:84:82:2c:5f:1c:62:d0:40

# Subject: CN=TrustCor ECA-1,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de R.L.,L=Panama City,ST=Panama,C=PA

# Not Valid Before: Thu Feb 04 12:32:33 2016

# Not Valid After : Mon Dec 31 17:28:07 2029

# Fingerprint (SHA-256):

5A:88:5D:B1:9C:01:D9:12:C5:75:93:88:93:8C:AF:BB:DF:03:1A:B2:D4:8E:91:EE:15:58:9B:42:97:1D:03:9C

# Fingerprint (SHA1): 58:D1:DF:95:95:67:6B:63:C0:F0:5B:1C:17:4D:8B:84:0B:C8:78:BD

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE

CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "TrustCor ECA-1"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

```
\130\321\337\225\225\147\153\143\300\360\133\034\027\115\213\204
\013\310\170\275
```

END

CKA\_CERT\_MD5\_HASH MULTILINE\_OCTAL

```
\047\222\043\035\012\365\100\174\351\346\153\235\330\365\347\154
```

END

CKA\_ISSUER MULTILINE\_OCTAL

```
\060\201\234\061\013\060\011\006\003\125\004\006\023\002\120\101
\061\017\060\015\006\003\125\004\010\014\006\120\141\156\141\155
\141\061\024\060\022\006\003\125\004\007\014\013\120\141\156\141
\155\141\040\103\151\164\171\061\044\060\042\006\003\125\004\012
\014\033\124\162\165\163\164\103\157\162\040\123\171\163\164\145
\155\163\040\123\056\040\144\145\040\122\056\114\056\061\047\060
\045\006\003\125\004\013\014\036\124\162\165\163\164\103\157\162
\040\103\145\162\164\151\146\151\143\141\164\145\040\101\165\164
\150\157\162\151\164\171\061\027\060\025\006\003\125\004\003\014
\016\124\162\165\163\164\103\157\162\040\105\103\101\055\061
```

```

END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\011\000\204\202\054\137\034\142\320\100
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "SSL.com Root Certification Authority RSA"
#
Issuer: CN=SSL.com Root Certification Authority RSA,O=SSL Corporation,L=Houston,ST=Texas,C=US
Serial Number:7b:2c:9b:d3:16:80:32:99
Subject: CN=SSL.com Root Certification Authority RSA,O=SSL Corporation,L=Houston,ST=Texas,C=US
Not Valid Before: Fri Feb 12 17:39:39 2016
Not Valid After : Tue Feb 12 17:39:39 2041
Fingerprint (SHA-256):
85:66:6A:56:2E:E0:BE:5C:E9:25:C1:D8:89:0A:6F:76:A8:7E:C1:6D:4D:7D:5F:29:EA:74:19:CF:20:12:3B:69
Fingerprint (SHA1): B7:AB:33:08:D1:EA:44:77:BA:14:80:12:5A:6F:BD:A9:36:49:0C:BB
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE
CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SSL.com Root Certification Authority RSA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\174\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\016\060\014\006\003\125\004\010\014\005\124\145\170\141\163\061
\020\060\016\006\003\125\004\007\014\007\110\157\165\163\164\157
\156\061\030\060\026\006\003\125\004\012\014\017\123\123\114\040
\103\157\162\160\157\162\141\164\151\157\156\061\061\060\057\006
\003\125\004\003\014\050\123\123\114\056\143\157\155\040\122\157
\157\164\040\103\145\162\164\151\146\151\143\141\164\151\157\156
\040\101\165\164\150\157\162\151\164\171\040\122\123\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\174\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\016\060\014\006\003\125\004\010\014\005\124\145\170\141\163\061
\020\060\016\006\003\125\004\007\014\007\110\157\165\163\164\157
\156\061\030\060\026\006\003\125\004\012\014\017\123\123\114\040
\103\157\162\160\157\162\141\164\151\157\156\061\061\060\057\006
\003\125\004\003\014\050\123\123\114\056\143\157\155\040\122\157
\157\164\040\103\145\162\164\151\146\151\143\141\164\151\157\156
\040\101\165\164\150\157\162\151\164\171\040\122\123\101

```

END

CKA\_SERIAL\_NUMBER

MULTILINE\_OCTAL

\002\010\173\054\233\323\026\200\062\231

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\005\335\060\202\003\305\240\003\002\001\002\002\010\173  
\054\233\323\026\200\062\231\060\015\006\011\052\206\110\206\367  
\015\001\001\013\005\000\060\174\061\013\060\011\006\003\125\004  
\006\023\002\125\123\061\016\060\014\006\003\125\004\010\014\005  
\124\145\170\141\163\061\020\060\016\006\003\125\004\007\014\007  
\110\157\165\163\164\157\156\061\030\060\026\006\003\125\004\012  
\014\017\123\123\114\040\103\157\162\160\157\162\141\164\151\157  
\156\061\061\060\057\006\003\125\004\003\014\050\123\123\114\056  
\143\157\155\040\122\157\157\164\040\103\145\162\164\151\146\151  
\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171  
\040\122\123\101\060\036\027\015\061\066\060\062\061\062\061\067  
\063\071\063\071\132\027\015\064\061\060\062\061\062\061\067\063  
\071\063\071\132\060\174\061\013\060\011\006\003\125\004\006\023  
\002\125\123\061\016\060\014\006\003\125\004\010\014\005\124\145  
\170\141\163\061\020\060\016\006\003\125\004\007\014\007\110\157  
\165\163\164\157\156\061\030\060\026\006\003\125\004\012\014\017  
\123\123\114\040\103\157\162\160\157\162\141\164\151\157\156\061  
\061\060\057\006\003\125\004\003\014\050\123\123\114\056\143\157  
\155\040\122\157\157\164\040\103\145\162\164\151\146\151\143\141  
\164\151\157\156\040\101\165\164\150\157\162\151\164\171\040\122  
\123\101\060\202\002\042\060\015\006\011\052\206\110\206\367\015  
\001\001\001\005\000\003\202\002\017\000\060\202\002\012\002\202  
\002\001\000\371\017\335\243\053\175\313\320\052\376\354\147\205  
\246\347\056\033\272\167\341\343\365\257\244\354\372\112\135\221  
\304\127\107\153\030\167\153\166\362\375\223\344\075\017\302\026  
\236\013\146\303\126\224\236\027\203\205\316\126\357\362\026\375  
\000\142\365\042\011\124\350\145\027\116\101\271\340\117\106\227  
\252\033\310\270\156\142\136\151\261\137\333\052\002\176\374\154  
\312\363\101\330\355\320\350\374\077\141\110\355\260\003\024\035  
\020\016\113\031\340\273\116\354\206\145\377\066\363\136\147\002  
\013\235\206\125\141\375\172\070\355\376\342\031\000\267\157\241  
\120\142\165\164\074\240\372\310\045\222\264\156\172\042\307\370  
\036\241\343\262\335\221\061\253\053\035\004\377\245\112\004\067  
\351\205\244\063\053\375\342\326\125\064\174\031\244\112\150\307  
\262\250\323\267\312\241\223\210\353\301\227\274\214\371\035\331  
\042\204\044\164\307\004\075\152\251\051\223\314\353\270\133\341  
\376\137\045\252\064\130\310\301\043\124\235\033\230\021\303\070  
\234\176\075\206\154\245\017\100\206\174\002\364\134\002\117\050  
\313\256\161\237\017\072\310\063\376\021\045\065\352\374\272\305  
\140\075\331\174\030\325\262\251\323\165\170\003\162\042\312\072  
\303\037\357\054\345\056\251\372\236\054\266\121\106\375\257\003  
\326\352\140\150\352\205\026\066\153\205\351\036\300\263\335\304

\044\334\200\052\201\101\155\224\076\310\340\311\201\101\000\236  
\136\277\177\305\010\230\242\030\054\102\100\263\371\157\070\047  
\113\116\200\364\075\201\107\340\210\174\352\034\316\265\165\134  
\121\056\034\053\177\032\162\050\347\000\265\321\164\306\327\344  
\237\255\007\223\266\123\065\065\374\067\344\303\366\135\026\276  
\041\163\336\222\012\370\240\143\152\274\226\222\152\076\370\274  
\145\125\233\336\365\015\211\046\004\374\045\032\246\045\151\313  
\302\155\312\174\342\131\137\227\254\353\357\056\310\274\327\033  
\131\074\053\314\362\031\310\223\153\047\143\031\317\374\351\046  
\370\312\161\233\177\223\376\064\147\204\116\231\353\374\263\170  
\011\063\160\272\146\246\166\355\033\163\353\032\245\015\304\042  
\023\040\224\126\012\116\054\154\116\261\375\317\234\011\272\242  
\063\355\207\002\003\001\000\001\243\143\060\141\060\035\006\003  
\125\035\016\004\026\004\024\335\004\011\007\242\365\172\175\122  
\123\022\222\225\356\070\200\045\015\246\131\060\017\006\003\125  
\035\023\001\001\377\004\005\060\003\001\001\377\060\037\006\003  
\125\035\043\004\030\060\026\200\024\335\004\011\007\242\365\172  
\175\122\123\022\222\225\356\070\200\045\015\246\131\060\016\006  
\003\125\035\017\001\001\377\004\004\003\002\001\206\060\015\006  
\011\052\206\110\206\367\015\001\001\013\005\000\003\202\002\001  
\000\040\030\021\224\051\373\046\235\034\036\036\160\141\361\225  
\162\223\161\044\255\150\223\130\216\062\257\033\263\160\003\374  
\045\053\164\205\220\075\170\152\364\271\213\245\227\073\265\030  
\221\273\036\247\371\100\133\221\371\125\231\257\036\021\320\134  
\035\247\146\343\261\224\007\014\062\071\246\352\033\260\171\330  
\035\234\160\104\343\212\335\304\371\225\037\212\070\103\077\001  
\205\245\107\247\075\106\262\274\345\042\150\367\173\234\330\054  
\076\012\041\310\055\063\254\277\305\201\231\061\164\301\165\161  
\305\276\261\360\043\105\364\235\153\374\031\143\235\243\274\004  
\306\030\013\045\273\123\211\017\263\200\120\336\105\356\104\177  
\253\224\170\144\230\323\366\050\335\207\330\160\145\164\373\016  
\271\023\353\247\017\141\251\062\226\314\336\273\355\143\114\030  
\273\251\100\367\240\124\156\040\210\161\165\030\352\172\264\064  
\162\340\043\047\167\134\266\220\352\206\045\100\253\357\063\017  
\313\237\202\276\242\040\373\366\265\055\032\346\302\205\261\164  
\017\373\310\145\002\244\122\001\107\335\111\042\301\277\330\353  
\153\254\176\336\354\143\063\025\267\043\010\217\306\017\215\101  
\132\335\216\305\271\217\345\105\077\170\333\272\322\033\100\261  
\376\161\115\077\340\201\242\272\136\264\354\025\340\223\335\010  
\037\176\341\125\231\013\041\336\223\236\012\373\346\243\111\275  
\066\060\376\347\167\262\240\165\227\265\055\201\210\027\145\040  
\367\332\220\000\237\311\122\314\062\312\065\174\365\075\017\330  
\053\327\365\046\154\311\006\064\226\026\352\160\131\032\062\171  
\171\013\266\210\177\017\122\110\075\277\154\330\242\104\056\321  
\116\267\162\130\323\211\023\225\376\104\253\370\327\213\033\156  
\234\274\054\240\133\325\152\000\257\137\067\341\325\372\020\013  
\230\234\206\347\046\217\316\360\354\156\212\127\013\200\343\116  
\262\300\240\143\141\220\272\125\150\067\164\152\266\222\333\237



```
\241\206\042\266\145\047\016\354\266\237\102\140\344\147\302\265
\332\101\013\304\323\213\141\033\274\372\037\221\053\327\104\007
\136\272\051\254\331\305\351\357\123\110\132\353\200\361\050\130
\041\315\260\006\125\373\047\077\123\220\160\251\004\036\127\047
\271
```

END

CKA\_NSS\_MOZILLA\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "SSL.com Root Certification Authority RSA"

# Issuer: CN=SSL.com Root Certification Authority RSA,O=SSL Corporation,L=Houston,ST=Texas,C=US

# Serial Number:7b:2c:9b:d3:16:80:32:99

# Subject: CN=SSL.com Root Certification Authority RSA,O=SSL Corporation,L=Houston,ST=Texas,C=US

# Not Valid Before: Fri Feb 12 17:39:39 2016

# Not Valid After : Tue Feb 12 17:39:39 2041

# Fingerprint (SHA-256):

85:66:6A:56:2E:E0:BE:5C:E9:25:C1:D8:89:0A:6F:76:A8:7E:C1:6D:4D:7D:5F:29:EA:74:19:CF:20:12:3B:69

# Fingerprint (SHA1): B7:AB:33:08:D1:EA:44:77:BA:14:80:12:5A:6F:BD:A9:36:49:0C:BB

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "SSL.com Root Certification Authority RSA"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

```
\267\253\063\010\321\352\104\167\272\024\200\022\132\157\275\251
\066\111\014\273
```

END

CKA\_CERT\_MD5\_HASH MULTILINE\_OCTAL

```
\206\151\022\300\160\361\354\254\254\302\325\274\245\133\241\051
```

END

CKA\_ISSUER MULTILINE\_OCTAL

```
\060\174\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\016\060\014\006\003\125\004\010\014\005\124\145\170\141\163\061
\020\060\016\006\003\125\004\007\014\007\110\157\165\163\164\157
\156\061\030\060\026\006\003\125\004\012\014\017\123\123\114\040
\103\157\162\160\157\162\141\164\151\157\156\061\061\060\057\006
\003\125\004\003\014\050\123\123\114\056\143\157\155\040\122\157
\157\164\040\103\145\162\164\151\146\151\143\141\164\151\157\156
\040\101\165\164\150\157\162\151\164\171\040\122\123\101
```

END

CKA\_SERIAL\_NUMBER

MULTILINE\_OCTAL

```
\002\010\173\054\233\323\026\200\062\231
```

END

CKA\_TRUST\_SERVER\_AUTH CK\_TRUST CKT\_NSS\_TRUSTED\_DELEGATOR

CKA\_TRUST\_EMAIL\_PROTECTION CK\_TRUST CKT\_NSS\_TRUSTED\_DELEGATOR

CKA\_TRUST\_CODE\_SIGNING CK\_TRUST CKT\_NSS\_MUST\_VERIFY\_TRUST  
CKA\_TRUST\_STEP\_UP\_APPROVED CK\_BBOOL CK\_FALSE

#

# Certificate "SSL.com Root Certification Authority ECC"

#

# Issuer: CN=SSL.com Root Certification Authority ECC,O=SSL Corporation,L=Houston,ST=Texas,C=US

# Serial Number:75:e6:df:cb:c1:68:5b:a8

# Subject: CN=SSL.com Root Certification Authority ECC,O=SSL Corporation,L=Houston,ST=Texas,C=US

# Not Valid Before: Fri Feb 12 18:14:03 2016

# Not Valid After : Tue Feb 12 18:14:03 2041

# Fingerprint (SHA-256):

34:17:BB:06:CC:60:07:DA:1B:96:1C:92:0B:8A:B4:CE:3F:AD:82:0E:4A:A3:0B:9A:CB:C4:A7:4E:BD:CE:BC:65

# Fingerprint (SHA1): C3:19:7C:39:24:E6:54:AF:1B:C4:AB:20:95:7A:E2:C3:0E:13:02:6A

CKA\_CLASS

CK\_OBJECT\_CLASS CKO\_CERTIFICATE

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "SSL.com Root Certification Authority ECC"

CKA\_CERTIFICATE\_TYPE CK\_CERTIFICATE\_TYPE CKC\_X\_509

CKA\_SUBJECT MULTILINE\_OCTAL

\060\174\061\013\060\011\006\003\125\004\006\023\002\125\123\061  
\016\060\014\006\003\125\004\010\014\005\124\145\170\141\163\061  
\020\060\016\006\003\125\004\007\014\007\110\157\165\163\164\157  
\156\061\030\060\026\006\003\125\004\012\014\017\123\123\114\040  
\103\157\162\160\157\162\141\164\151\157\156\061\061\060\057\006  
\003\125\004\003\014\050\123\123\114\056\143\157\155\040\122\157  
\157\164\040\103\145\162\164\151\146\151\143\141\164\151\157\156  
\040\101\165\164\150\157\162\151\164\171\040\105\103\103

END

CKA\_ID UTF8 "0"

CKA\_ISSUER MULTILINE\_OCTAL

\060\174\061\013\060\011\006\003\125\004\006\023\002\125\123\061  
\016\060\014\006\003\125\004\010\014\005\124\145\170\141\163\061  
\020\060\016\006\003\125\004\007\014\007\110\157\165\163\164\157  
\156\061\030\060\026\006\003\125\004\012\014\017\123\123\114\040  
\103\157\162\160\157\162\141\164\151\157\156\061\061\060\057\006  
\003\125\004\003\014\050\123\123\114\056\143\157\155\040\122\157  
\157\164\040\103\145\162\164\151\146\151\143\141\164\151\157\156  
\040\101\165\164\150\157\162\151\164\171\040\105\103\103

END

CKA\_SERIAL\_NUMBER

MULTILINE\_OCTAL

\002\010\165\346\337\313\301\150\133\250

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\002\215\060\202\002\024\240\003\002\001\002\002\010\165

\346\337\313\301\150\133\250\060\012\006\010\052\206\110\316\075  
\004\003\002\060\174\061\013\060\011\006\003\125\004\006\023\002  
\125\123\061\016\060\014\006\003\125\004\010\014\005\124\145\170  
\141\163\061\020\060\016\006\003\125\004\007\014\007\110\157\165  
\163\164\157\156\061\030\060\026\006\003\125\004\012\014\017\123  
\123\114\040\103\157\162\160\157\162\141\164\151\157\156\061\061  
\060\057\006\003\125\004\003\014\050\123\123\114\056\143\157\155  
\040\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164  
\151\157\156\040\101\165\164\150\157\162\151\164\171\040\105\103  
\103\060\036\027\015\061\066\060\062\061\062\061\070\061\064\060\063  
\063\132\027\015\064\061\060\062\061\062\061\070\061\064\060\063  
\132\060\174\061\013\060\011\006\003\125\004\006\023\002\125\123  
\061\016\060\014\006\003\125\004\010\014\005\124\145\170\141\163  
\061\020\060\016\006\003\125\004\007\014\007\110\157\165\163\164  
\157\156\061\030\060\026\006\003\125\004\012\014\017\123\123\114  
\040\103\157\162\160\157\162\141\164\151\157\156\061\061\060\057  
\006\003\125\004\003\014\050\123\123\114\056\143\157\155\040\122  
\157\157\164\040\103\145\162\164\151\146\151\143\141\164\151\157  
\156\040\101\165\164\150\157\162\151\164\171\040\105\103\103\060  
\166\060\020\006\007\052\206\110\316\075\002\001\006\005\053\201  
\004\000\042\003\142\000\004\105\156\251\120\304\246\043\066\236  
\137\050\215\027\313\226\042\144\077\334\172\216\035\314\010\263  
\242\161\044\272\216\111\271\004\033\107\226\130\253\055\225\310  
\355\236\010\065\310\047\353\211\214\123\130\353\142\212\376\360  
\133\017\153\061\122\143\101\073\211\315\354\354\266\215\031\323  
\064\007\334\273\306\006\177\302\105\225\354\313\177\250\043\340  
\011\351\201\372\363\107\323\243\143\060\141\060\035\006\003\125  
\035\016\004\026\004\024\202\321\205\163\060\347\065\004\323\216  
\002\222\373\345\244\321\304\041\350\315\060\017\006\003\125\035  
\023\001\001\377\004\005\060\003\001\001\377\060\037\006\003\125  
\035\043\004\030\060\026\200\024\202\321\205\163\060\347\065\004  
\323\216\002\222\373\345\244\321\304\041\350\315\060\016\006\003  
\125\035\017\001\001\377\004\004\003\002\001\206\060\012\006\010  
\052\206\110\316\075\004\003\002\003\147\000\060\144\002\060\157  
\347\353\131\021\244\140\317\141\260\226\173\355\005\371\057\023  
\221\334\355\345\374\120\153\021\106\106\263\034\041\000\142\273  
\276\303\347\350\315\007\231\371\015\013\135\162\076\304\252\002  
\060\037\274\272\013\342\060\044\373\174\155\200\125\012\231\076  
\200\015\063\345\146\243\263\243\273\245\325\213\217\011\054\246  
\135\176\342\360\007\010\150\155\322\174\151\156\137\337\345\152  
\145

END

CKA\_NSS\_MOZILLA\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRUST\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRUST\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "SSL.com Root Certification Authority ECC"

```
Issuer: CN=SSL.com Root Certification Authority ECC,O=SSL Corporation,L=Houston,ST=Texas,C=US
Serial Number:75:e6:df:cb:c1:68:5b:a8
Subject: CN=SSL.com Root Certification Authority ECC,O=SSL Corporation,L=Houston,ST=Texas,C=US
Not Valid Before: Fri Feb 12 18:14:03 2016
Not Valid After : Tue Feb 12 18:14:03 2041
Fingerprint (SHA-256):
34:17:BB:06:CC:60:07:DA:1B:96:1C:92:0B:8A:B4:CE:3F:AD:82:0E:4A:A3:0B:9A:CB:C4:A7:4E:BD:CE:BC:65
Fingerprint (SHA1): C3:19:7C:39:24:E6:54:AF:1B:C4:AB:20:95:7A:E2:C3:0E:13:02:6A
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL
UTF8 "SSL.com Root Certification Authority ECC"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\303\031\174\071\044\346\124\257\033\304\253\040\225\172\342\303
\016\023\002\152
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\056\332\344\071\177\234\217\067\321\160\237\046\027\121\072\216
END
CKA_ISSUER MULTILINE_OCTAL
\060\174\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\016\060\014\006\003\125\004\010\014\005\124\145\170\141\163\061
\020\060\016\006\003\125\004\007\014\007\110\157\165\163\164\157
\156\061\030\060\026\006\003\125\004\012\014\017\123\123\114\040
\103\157\162\160\157\162\141\164\151\157\156\061\061\060\057\006
\003\125\004\003\014\050\123\123\114\056\143\157\155\040\122\157
\157\164\040\103\145\162\164\151\146\151\143\141\164\151\157\156
\040\101\165\164\150\157\162\151\164\171\040\105\103\103
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\165\346\337\313\301\150\133\250
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING
CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "SSL.com EV Root Certification Authority RSA R2"
#
Issuer: CN=SSL.com EV Root Certification Authority RSA R2,O=SSL Corporation,L=Houston,ST=Texas,C=US
Serial Number:56:b6:29:cd:34:bc:78:f6
Subject: CN=SSL.com EV Root Certification Authority RSA R2,O=SSL
Corporation,L=Houston,ST=Texas,C=US
Not Valid Before: Wed May 31 18:14:37 2017
```

```
Not Valid After : Fri May 30 18:14:37 2042
Fingerprint (SHA-256):
2E:7B:F1:6C:C2:24:85:A7:BB:E2:AA:86:96:75:07:61:B0:AE:39:BE:3B:2F:E9:D0:CC:6D:4E:F7:34:91:42:5C
Fingerprint (SHA1): 74:3A:F0:52:9B:D0:32:A0:F4:4A:83:CD:D4:BA:A9:7B:7C:2E:C4:9A
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SSL.com EV Root Certification Authority RSA R2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\202\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\016\060\014\006\003\125\004\010\014\005\124\145\170\141\163
\061\020\060\016\006\003\125\004\007\014\007\110\157\165\163\164
\157\156\061\030\060\026\006\003\125\004\012\014\017\123\123\114
\040\103\157\162\160\157\162\141\164\151\157\156\061\067\060\065
\006\003\125\004\003\014\056\123\123\114\056\143\157\155\040\105
\126\040\122\157\157\164\040\103\145\162\164\151\146\151\143\141
\164\151\157\156\040\101\165\164\150\157\162\151\164\171\040\122
\123\101\040\122\062
END
CKA_ID
UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\202\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\016\060\014\006\003\125\004\010\014\005\124\145\170\141\163
\061\020\060\016\006\003\125\004\007\014\007\110\157\165\163\164
\157\156\061\030\060\026\006\003\125\004\012\014\017\123\123\114
\040\103\157\162\160\157\162\141\164\151\157\156\061\067\060\065
\006\003\125\004\003\014\056\123\123\114\056\143\157\155\040\105
\126\040\122\157\157\164\040\103\145\162\164\151\146\151\143\141
\164\151\157\156\040\101\165\164\150\157\162\151\164\171\040\122
\123\101\040\122\062
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\010\126\266\051\315\064\274\170\366
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\353\060\202\003\323\240\003\002\001\002\002\010\126
\266\051\315\064\274\170\366\060\015\006\011\052\206\110\206\367
\015\001\001\013\005\000\060\201\202\061\013\060\011\006\003\125
\004\006\023\002\125\123\061\016\060\014\006\003\125\004\010\014
\005\124\145\170\141\163\061\020\060\016\006\003\125\004\007\014
\007\110\157\165\163\164\157\156\061\030\060\026\006\003\125\004
\012\014\017\123\123\114\040\103\157\162\160\157\162\141\164\151
\157\156\061\067\060\065\006\003\125\004\003\014\056\123\123\114
\056\143\157\155\040\105\126\040\122\157\157\164\040\103\145\162
```

\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157  
\162\151\164\171\040\122\123\101\040\122\062\060\036\027\015\061  
\067\060\065\063\061\061\070\061\064\063\067\132\027\015\064\062  
\060\065\063\060\061\070\061\064\063\067\132\060\201\202\061\013  
\060\011\006\003\125\004\006\023\002\125\123\061\016\060\014\006  
\003\125\004\010\014\005\124\145\170\141\163\061\020\060\016\006  
\003\125\004\007\014\007\110\157\165\163\164\157\156\061\030\060  
\026\006\003\125\004\012\014\017\123\123\114\040\103\157\162\160  
\157\162\141\164\151\157\156\061\067\060\065\006\003\125\004\003  
\014\056\123\123\114\056\143\157\155\040\105\126\040\122\157\157  
\164\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040  
\101\165\164\150\157\162\151\164\171\040\122\123\101\040\122\062  
\060\202\002\042\060\015\006\011\052\206\110\206\367\015\001\001  
\001\005\000\003\202\002\017\000\060\202\002\012\002\202\002\001  
\000\217\066\145\100\341\326\115\300\327\264\351\106\332\153\352  
\063\107\315\114\371\175\175\276\275\055\075\360\333\170\341\206  
\245\331\272\011\127\150\355\127\076\240\320\010\101\203\347\050  
\101\044\037\343\162\025\320\001\032\373\136\160\043\262\313\237  
\071\343\317\305\116\306\222\155\046\306\173\273\263\332\047\235  
\012\206\351\201\067\005\376\360\161\161\354\303\034\351\143\242  
\027\024\235\357\033\147\323\205\125\002\002\326\111\311\314\132  
\341\261\367\157\062\237\311\324\073\210\101\250\234\275\313\253  
\333\155\173\011\037\242\114\162\220\332\053\010\374\317\074\124  
\316\147\017\250\317\135\226\031\013\304\343\162\353\255\321\175  
\035\047\357\222\353\020\277\133\353\073\257\317\200\335\301\322  
\226\004\133\172\176\244\251\074\070\166\244\142\216\240\071\136  
\352\167\317\135\000\131\217\146\054\076\007\242\243\005\046\021  
\151\227\352\205\267\017\226\013\113\310\100\341\120\272\056\212  
\313\367\017\232\042\347\177\232\067\023\315\362\115\023\153\041  
\321\300\314\042\362\241\106\366\104\151\234\312\141\065\007\000  
\157\326\141\010\021\352\272\270\366\351\263\140\345\115\271\354  
\237\024\146\311\127\130\333\315\207\151\370\212\206\022\003\107  
\277\146\023\166\254\167\175\064\044\205\203\315\327\252\234\220  
\032\237\041\054\177\170\267\144\270\330\350\246\364\170\263\125  
\313\204\322\062\304\170\256\243\217\141\335\316\010\123\255\354  
\210\374\025\344\232\015\346\237\032\167\316\114\217\270\024\025  
\075\142\234\206\070\006\000\146\022\344\131\166\132\123\300\002  
\230\242\020\053\150\104\173\216\171\316\063\112\166\252\133\201  
\026\033\265\212\330\320\000\173\136\142\264\011\326\206\143\016  
\246\005\225\111\272\050\213\210\223\262\064\034\330\244\125\156  
\267\034\320\336\231\125\073\043\364\042\340\371\051\146\046\354  
\040\120\167\333\112\013\217\276\345\002\140\160\101\136\324\256  
\120\071\042\024\046\313\262\073\163\164\125\107\007\171\201\071  
\250\060\023\104\345\004\212\256\226\023\045\102\017\271\123\304  
\233\374\315\344\034\336\074\372\253\326\006\112\037\147\246\230  
\060\034\335\054\333\334\030\225\127\146\306\377\134\213\126\365  
\167\002\003\001\000\001\243\143\060\141\060\017\006\003\125\035  
\023\001\001\377\004\005\060\003\001\001\377\060\037\006\003\125

\035\043\004\030\060\026\200\024\371\140\273\324\343\325\064\366  
\270\365\006\200\045\247\163\333\106\151\250\236\060\035\006\003  
\125\035\016\004\026\004\024\371\140\273\324\343\325\064\366\270  
\365\006\200\045\247\163\333\106\151\250\236\060\016\006\003\125  
\035\017\001\001\377\004\004\003\002\001\206\060\015\006\011\052  
\206\110\206\367\015\001\001\013\005\000\003\202\002\001\000\126  
\263\216\313\012\235\111\216\277\244\304\221\273\146\027\005\121  
\230\165\373\345\120\054\172\236\361\024\372\253\323\212\076\377  
\221\051\217\143\213\330\264\251\124\001\015\276\223\206\057\371  
\112\155\307\136\365\127\371\312\125\034\022\276\107\017\066\305  
\337\152\267\333\165\302\107\045\177\271\361\143\370\150\055\125  
\004\321\362\215\260\244\317\274\074\136\037\170\347\245\240\040  
\160\260\004\305\267\367\162\247\336\042\015\275\063\045\106\214  
\144\222\046\343\076\056\143\226\332\233\214\075\370\030\011\327  
\003\314\175\206\202\340\312\004\007\121\120\327\377\222\325\014  
\357\332\206\237\231\327\353\267\257\150\342\071\046\224\272\150  
\267\277\203\323\352\172\147\075\142\147\256\045\345\162\350\342  
\344\354\256\022\366\113\053\074\237\351\260\100\363\070\124\263  
\375\267\150\310\332\306\217\121\074\262\373\221\334\034\347\233  
\235\341\267\015\162\217\342\244\304\251\170\371\353\024\254\306  
\103\005\302\145\071\050\030\002\303\202\262\235\005\276\145\355  
\226\137\145\164\074\373\011\065\056\173\234\023\375\033\017\135  
\307\155\201\072\126\017\314\073\341\257\002\057\042\254\106\312  
\106\074\240\034\114\326\104\264\136\056\134\025\146\011\341\046  
\051\376\306\122\141\272\261\163\377\303\014\234\345\154\152\224  
\077\024\312\100\026\225\204\363\131\251\254\137\114\141\223\155  
\321\073\314\242\225\014\042\246\147\147\104\056\271\331\322\212  
\101\263\146\013\132\373\175\043\245\362\032\260\377\336\233\203  
\224\056\321\077\337\222\267\221\257\005\073\145\307\240\154\261  
\315\142\022\303\220\033\343\045\316\064\274\157\167\166\261\020  
\303\367\005\032\300\326\257\164\142\110\027\167\222\151\220\141  
\034\336\225\200\164\124\217\030\034\303\363\003\320\277\244\103  
\165\206\123\030\172\012\056\011\034\066\237\221\375\202\212\042  
\113\321\016\120\045\335\313\003\014\027\311\203\000\010\116\065  
\115\212\213\355\360\002\224\146\054\104\177\313\225\047\226\027  
\255\011\060\254\266\161\027\156\213\027\366\034\011\324\055\073  
\230\245\161\323\124\023\331\140\363\365\113\146\117\372\361\356  
\040\022\215\264\254\127\261\105\143\241\254\166\251\302\373

END

CKA\_NSS\_MOZILLA\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "SSL.com EV Root Certification Authority RSA R2"

# Issuer: CN=SSL.com EV Root Certification Authority RSA R2,O=SSL Corporation,L=Houston,ST=Texas,C=US

# Serial Number:56:b6:29:cd:34:bc:78:f6

# Subject: CN=SSL.com EV Root Certification Authority RSA R2,O=SSL

```
Corporation,L=Houston,ST=Texas,C=US
Not Valid Before: Wed May 31 18:14:37 2017
Not Valid After : Fri May 30 18:14:37 2042
Fingerprint (SHA-256):
2E:7B:F1:6C:C2:24:85:A7:BB:E2:AA:86:96:75:07:61:B0:AE:39:BE:3B:2F:E9:D0:CC:6D:4E:F7:34:91:42:5C
#
Fingerprint (SHA1): 74:3A:F0:52:9B:D0:32:A0:F4:4A:83:CD:D4:BA:A9:7B:7C:2E:C4:9A
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SSL.com EV Root Certification Authority RSA R2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\164\072\360\122\233\320\062\240\364\112\203\315\324\272\251\173
\174\056\304\232
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\341\036\061\130\032\256\124\123\002\366\027\152\021\173\115\225
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\202\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\016\060\014\006\003\125\004\010\014\005\124\145\170\141\163
\061\020\060\016\006\003\125\004\007\014\007\110\157\165\163\164
\157\156\061\030\060\026\006\003\125\004\012\014\017\123\123\114
\040\103\157\162\160\157\162\141\164\151\157\156\061\067\060\065
\006\003\125\004\003\014\056\123\123\114\056\143\157\155\040\105
\126\040\122\157\157\164\040\103\145\162\164\151\146\151\143\141
\164\151\157\156\040\101\165\164\150\157\162\151\164\171\040\122
\123\101\040\122\062
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\010\126\266\051\315\064\274\170\366
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "SSL.com EV Root Certification Authority ECC"
#
Issuer: CN=SSL.com EV Root Certification Authority ECC,O=SSL Corporation,L=Houston,ST=Texas,C=US
Serial Number:2c:29:9c:5b:16:ed:05:95
Subject: CN=SSL.com EV Root Certification Authority ECC,O=SSL Corporation,L=Houston,ST=Texas,C=US
Not Valid Before: Fri Feb 12 18:15:23 2016
Not Valid After : Tue Feb 12 18:15:23 2041
Fingerprint (SHA-256):
```



22:A2:C1:F7:BD:ED:70:4C:C1:E7:01:B5:F4:08:C3:10:88:0F:E9:56:B5:DE:2A:4A:44:F9:9C:87:3A:25:A7:C8

# Fingerprint (SHA1): 4C:DD:51:A3:D1:F5:20:32:14:B0:C6:C5:32:23:03:91:C7:46:42:6D

CKA\_CLASS

CK\_OBJECT\_CLASS CKO\_CERTIFICATE

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "SSL.com EV Root Certification Authority ECC"

CKA\_CERTIFICATE\_TYPE CK\_CERTIFICATE\_TYPE CKC\_X\_509

CKA\_SUBJECT MULTILINE\_OCTAL

\060\177\061\013\060\011\006\003\125\004\006\023\002\125\123\061  
\016\060\014\006\003\125\004\010\014\005\124\145\170\141\163\061  
\020\060\016\006\003\125\004\007\014\007\110\157\165\163\164\157  
\156\061\030\060\026\006\003\125\004\012\014\017\123\123\114\040  
\103\157\162\160\157\162\141\164\151\157\156\061\064\060\062\006  
\003\125\004\003\014\053\123\123\114\056\143\157\155\040\105\126  
\040\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164  
\151\157\156\040\101\165\164\150\157\162\151\164\171\040\105\103  
\103

END

CKA\_ID UTF8 "0"

CKA\_ISSUER MULTILINE\_OCTAL

\060\177\061\013\060\011\006\003\125\004\006\023\002\125\123\061  
\016\060\014\006\003\125\004\010\014\005\124\145\170\141\163\061  
\020\060\016\006\003\125\004\007\014\007\110\157\165\163\164\157  
\156\061\030\060\026\006\003\125\004\012\014\017\123\123\114\040  
\103\157\162\160\157\162\141\164\151\157\156\061\064\060\062\006  
\003\125\004\003\014\053\123\123\114\056\143\157\155\040\105\126  
\040\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164  
\151\157\156\040\101\165\164\150\157\162\151\164\171\040\105\103  
\103

END

CKA\_SERIAL\_NUMBER

MULTILINE\_OCTAL

\002\010\054\051\234\133\026\355\005\225

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\002\224\060\202\002\032\240\003\002\001\002\002\010\054  
\051\234\133\026\355\005\225\060\012\006\010\052\206\110\316\075  
\004\003\002\060\177\061\013\060\011\006\003\125\004\006\023\002  
\125\123\061\016\060\014\006\003\125\004\010\014\005\124\145\170  
\141\163\061\020\060\016\006\003\125\004\007\014\007\110\157\165  
\163\164\157\156\061\030\060\026\006\003\125\004\012\014\017\123  
\123\114\040\103\157\162\160\157\162\141\164\151\157\156\061\064  
\060\062\006\003\125\004\003\014\053\123\123\114\056\143\157\155  
\040\105\126\040\122\157\157\164\040\103\145\162\164\151\146\151  
\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171  
\040\105\103\103\060\036\027\015\061\066\060\062\061\062\061\070

\061\065\062\063\132\027\015\064\061\060\062\061\062\061\070\061  
\065\062\063\132\060\177\061\013\060\011\006\003\125\004\006\023  
\002\125\123\061\016\060\014\006\003\125\004\010\014\005\124\145  
\170\141\163\061\020\060\016\006\003\125\004\007\014\007\110\157  
\165\163\164\157\156\061\030\060\026\006\003\125\004\012\014\017  
\123\123\114\040\103\157\162\160\157\162\141\164\151\157\156\061  
\064\060\062\006\003\125\004\003\014\053\123\123\114\056\143\157  
\155\040\105\126\040\122\157\157\164\040\103\145\162\164\151\146  
\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164  
\171\040\105\103\103\060\166\060\020\006\007\052\206\110\316\075  
\002\001\006\005\053\201\004\000\042\003\142\000\004\252\022\107  
\220\230\033\373\357\303\100\007\203\040\116\361\060\202\242\006  
\321\362\222\206\141\362\366\041\150\312\000\304\307\352\103\000  
\124\206\334\375\037\337\000\270\101\142\134\334\160\026\062\336  
\037\231\324\314\305\007\310\010\037\141\026\007\121\075\175\134  
\007\123\343\065\070\214\337\315\237\331\056\015\112\266\031\056  
\132\160\132\006\355\276\360\241\260\312\320\011\051\243\143\060  
\141\060\035\006\003\125\035\016\004\026\004\024\133\312\136\345  
\336\322\201\252\315\250\055\144\121\266\331\162\233\227\346\117  
\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001  
\377\060\037\006\003\125\035\043\004\030\060\026\200\024\133\312  
\136\345\336\322\201\252\315\250\055\144\121\266\331\162\233\227  
\346\117\060\016\006\003\125\035\017\001\001\377\004\004\003\002  
\001\206\060\012\006\010\052\206\110\316\075\004\003\002\003\150  
\000\060\145\002\061\000\212\346\100\211\067\353\351\325\023\331  
\312\324\153\044\363\260\075\207\106\130\032\354\261\337\157\373  
\126\272\160\153\307\070\314\350\261\214\117\017\367\361\147\166  
\016\203\320\036\121\217\002\060\075\366\043\050\046\114\306\140  
\207\223\046\233\262\065\036\272\326\367\074\321\034\316\372\045  
\074\246\032\201\025\133\363\022\017\154\356\145\212\311\207\250  
\371\007\340\142\232\214\134\112

END

CKA\_NSS\_MOZILLA\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "SSL.com EV Root Certification Authority ECC"

# Issuer: CN=SSL.com EV Root Certification Authority ECC,O=SSL Corporation,L=Houston,ST=Texas,C=US

# Serial Number:2c:29:9c:5b:16:ed:05:95

# Subject: CN=SSL.com EV Root Certification Authority ECC,O=SSL Corporation,L=Houston,ST=Texas,C=US

# Not Valid Before: Fri Feb 12 18:15:23 2016

# Not Valid After : Tue Feb 12 18:15:23 2041

# Fingerprint (SHA-256):

22:A2:C1:F7:BD:ED:70:4C:C1:E7:01:B5:F4:08:C3:10:88:0F:E9:56:B5:DE:2A:4A:44:F9:9C:87:3A:25:A7:C8

# Fingerprint (SHA1): 4C:DD:51:A3:D1:F5:20:32:14:B0:C6:C5:32:23:03:91:C7:46:42:6D

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN

```

CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SSL.com EV Root Certification Authority ECC"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\114\335\121\243\321\365\040\062\024\260\306\305\062\043\003\221
\307\106\102\155
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\131\123\042\145\203\102\001\124\300\316\102\271\132\174\362\220
END
CKA_ISSUER MULTILINE_OCTAL
\060\177\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\016\060\014\006\003\125\004\010\014\005\124\145\170\141\163\061
\020\060\016\006\003\125\004\007\014\007\110\157\165\163\164\157
\156\061\030\060\026\006\003\125\004\012\014\017\123\123\114\040
\103\157\162\160\157\162\141\164\151\157\156\061\064\060\062\006
\003\125\004\003\014\053\123\123\114\056\143\157\155\040\105\126
\040\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164
\151\157\156\040\101\165\164\150\157\162\151\164\171\040\105\103
\103
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\054\051\234\133\026\355\005\225
END
CKA_TRUST_SERVER_AUTH
CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "GlobalSign Root CA - R6"
#
Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R6
Serial Number:45:e6:bb:03:83:33:c3:85:65:48:e6:ff:45:51
Subject: CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R6
Not Valid Before: Wed Dec 10 00:00:00 2014
Not Valid After : Sun Dec 10 00:00:00 2034
Fingerprint (SHA-256):
2C:AB:EA:FE:37:D0:6C:A2:2A:BA:73:91:C0:03:3D:25:98:29:52:C4:53:64:73:49:76:3A:3A:B5:AD:6C:CF:69
Fingerprint (SHA1): 80:94:64:0E:B5:A7:A1:CA:11:9C:1F:DD:D5:9F:81:02:63:A7:FB:D1
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign Root CA - R6"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

```

CKA\_SUBJECT MULTILINE\_OCTAL

\060\114\061\040\060\036\006\003\125\004\013\023\027\107\154\157  
\142\141\154\123\151\147\156\040\122\157\157\164\040\103\101\040  
\055\040\122\066\061\023\060\021\006\003\125\004\012\023\012\107  
\154\157\142\141\154\123\151\147\156\061\023\060\021\006\003\125  
\004\003\023\012\107\154\157\142\141\154\123\151\147\156

END

CKA\_ID

UTF8 "0"

CKA\_ISSUER MULTILINE\_OCTAL

\060\114\061\040\060\036\006\003\125\004\013\023\027\107\154\157  
\142\141\154\123\151\147\156\040\122\157\157\164\040\103\101\040  
\055\040\122\066\061\023\060\021\006\003\125\004\012\023\012\107  
\154\157\142\141\154\123\151\147\156\061\023\060\021\006\003\125  
\004\003\023\012\107\154\157\142\141\154\123\151\147\156

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

\002\016\105\346\273\003\203\063\303\205\145\110\346\377\105\121

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\005\203\060\202\003\153\240\003\002\001\002\002\016\105  
\346\273\003\203\063\303\205\145\110\346\377\105\121\060\015\006  
\011\052\206\110\206\367\015\001\001\014\005\000\060\114\061\040  
\060\036\006\003\125\004\013\023\027\107\154\157\142\141\154\123  
\151\147\156\040\122\157\157\164\040\103\101\040\055\040\122\066  
\061\023\060\021\006\003\125\004\012\023\012\107\154\157\142\141  
\154\123\151\147\156\061\023\060\021\006\003\125\004\003\023\012  
\107\154\157\142\141\154\123\151\147\156\060\036\027\015\061\064  
\061\062\061\060\060\060\060\060\060\060\132\027\015\063\064\061  
\062\061\060\060\060\060\060\060\060\132\060\114\061\040\060\036  
\006\003\125\004\013\023\027\107\154\157\142\141\154\123\151\147  
\156\040\122\157\157\164\040\103\101\040\055\040\122\066\061\023  
\060\021\006\003\125\004\012\023\012\107\154\157\142\141\154\123  
\151\147\156\061\023\060\021\006\003\125\004\003\023\012\107\154  
\157\142\141\154\123\151\147\156\060\202\002\042\060\015\006\011  
\052\206\110\206\367\015\001\001\001\005\000\003\202\002\017\000  
\060\202\002\012\002\202\002\001\000\225\007\350\163\312\146\371  
\354\024\312\173\074\367\015\010\361\264\105\013\054\202\264\110  
\306\353\133\074\256\203\270\101\222\063\024\244\157\177\351\052  
\314\306\260\210\153\305\266\211\321\306\262\377\024\316\121\024  
\041\354\112\335\033\132\306\326\207\356\115\072\025\006\355\144  
\146\013\222\200\312\104\336\163\224\116\363\247\211\177\117\170  
\143\010\310\022\120\155\102\146\057\115\271\171\050\115\122\032  
\212\032\200\267\031\201\016\176\304\212\274\144\114\041\034\103  
\150\327\075\074\212\305\262\146\325\220\232\267\061\006\305\276  
\342\155\062\006\246\036\371\271\353\252\243\270\277\276\202\143  
\120\320\360\030\211\337\344\017\171\365\352\242\037\052\322\160  
\056\173\347\274\223\273\155\123\342\110\174\214\020\007\070\377

\146\262\167\141\176\340\352\214\074\252\264\244\366\363\225\112  
\022\007\155\375\214\262\211\317\320\240\141\167\310\130\164\260  
\324\043\072\367\135\072\312\242\333\235\011\336\135\104\055\220  
\361\201\315\127\222\372\176\274\120\004\143\064\337\153\223\030  
\276\153\066\262\071\344\254\044\066\267\360\357\266\034\023\127  
\223\266\336\262\370\342\205\267\163\242\270\065\252\105\362\340  
\235\066\241\157\124\212\361\162\126\156\056\210\305\121\102\104  
\025\224\356\243\305\070\226\233\116\116\132\013\107\363\006\066  
\111\167\060\274\161\067\345\246\354\041\010\165\374\346\141\026  
\077\167\325\331\221\227\204\012\154\324\002\115\164\300\024\355  
\375\071\373\203\362\136\024\241\004\260\013\351\376\356\217\341  
\156\013\262\010\263\141\146\011\152\261\006\072\145\226\131\300  
\360\065\375\311\332\050\215\032\021\207\160\201\012\250\232\165  
\035\236\072\206\005\000\236\333\200\326\045\371\334\005\236\047  
\131\114\166\071\133\352\371\245\241\330\203\017\321\377\337\060  
\021\371\205\317\063\110\365\312\155\144\024\054\172\130\117\323  
\113\010\111\305\225\144\032\143\016\171\075\365\263\214\312\130  
\255\234\102\105\171\156\016\207\031\134\124\261\145\266\277\214  
\233\334\023\351\015\157\270\056\334\147\156\311\213\021\265\204  
\024\212\000\031\160\203\171\221\227\221\324\032\047\277\067\036  
\062\007\330\024\143\074\050\114\257\002\003\001\000\001\243\143  
\060\141\060\016\006\003\125\035\017\001\001\377\004\004\003\002  
\001\006\060\017\006\003\125\035\023\001\001\377\004\005\060\003  
\001\001\377\060\035\006\003\125\035\016\004\026\004\024\256\154  
\005\243\223\023\342\242\347\342\327\034\326\307\360\177\310\147  
\123\240\060\037\006\003\125\035\043\004\030\060\026\200\024\256  
\154\005\243\223\023\342\242\347\342\327\034\326\307\360\177\310  
\147\123\240\060\015\006\011\052\206\110\206\367\015\001\001\014  
\005\000\003\202\002\001\000\203\045\355\350\321\375\225\122\315  
\236\300\004\240\221\151\346\134\320\204\336\334\255\242\117\350  
\107\170\326\145\230\251\133\250\074\207\174\002\212\321\156\267  
\026\163\346\137\300\124\230\325\164\276\301\315\342\021\221\255  
\043\030\075\335\341\162\104\226\264\225\136\300\173\216\231\170  
\026\103\023\126\127\263\242\263\073\265\167\334\100\162\254\243  
\353\233\065\076\261\010\041\241\347\304\103\067\171\062\276\265  
\347\234\054\114\274\103\051\231\216\060\323\254\041\340\343\035  
\372\330\007\063\166\124\000\042\052\271\115\040\056\160\150\332  
\345\123\374\203\134\323\235\362\377\104\014\104\146\362\322\343  
\275\106\000\032\155\002\272\045\135\215\241\061\121\335\124\106  
\034\115\333\231\226\357\032\034\004\134\246\025\357\170\340\171  
\376\135\333\076\252\114\125\375\232\025\251\157\341\246\373\337  
\160\060\351\303\356\102\106\355\302\223\005\211\372\175\143\173  
\077\320\161\201\174\000\350\230\256\016\170\064\303\045\373\257  
\012\237\040\153\335\073\023\217\022\214\342\101\032\110\172\163  
\240\167\151\307\266\134\177\202\310\036\376\130\033\050\053\250  
\154\255\136\155\300\005\322\173\267\353\200\376\045\067\376\002  
\233\150\254\102\135\303\356\365\314\334\360\120\165\322\066\151  
\234\346\173\004\337\156\006\151\266\336\012\011\110\131\207\353

```
\173\024\140\172\144\252\151\103\357\221\307\114\354\030\335\154
\357\123\055\214\231\341\136\362\162\076\317\124\310\275\147\354
\244\017\114\105\377\323\271\060\043\007\114\217\020\277\206\226
\331\231\132\264\231\127\034\244\314\273\025\211\123\272\054\005
\017\344\304\236\031\261\030\064\325\114\235\272\355\367\037\257
\044\225\004\170\250\003\273\356\201\345\332\137\174\213\112\241
\220\164\045\247\263\076\113\310\054\126\275\307\310\357\070\342
\134\222\360\171\367\234\204\272\164\055\141\001\040\176\176\321
\362\117\007\131\137\213\055\103\122\353\106\014\224\341\365\146
\107\171\167\325\124\133\037\255\044\067\313\105\132\116\240\104
\110\310\330\260\231\305\025\204\011\366\326\111\111\300\145\270
\346\032\161\156\240\250\361\202\350\105\076\154\326\002\327\012
\147\203\005\132\311\244\020
```

END

CKA\_NSS\_Mozilla\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "GlobalSign Root CA - R6"

# Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R6

# Serial Number:45:e6:bb:03:83:c3:85:65:48:e6:ff:45:51

# Subject: CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R6

# Not Valid Before: Wed Dec 10 00:00:00 2014

# Not Valid After : Sun Dec

10 00:00:00 2034

# Fingerprint (SHA-256):

2C:AB:EA:FE:37:D0:6C:A2:2A:BA:73:91:C0:03:3D:25:98:29:52:C4:53:64:73:49:76:3A:3A:B5:AD:6C:CF:69

# Fingerprint (SHA1): 80:94:64:0E:B5:A7:A1:CA:11:9C:1F:DD:D5:9F:81:02:63:A7:FB:D1

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "GlobalSign Root CA - R6"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

```
\200\224\144\016\265\247\241\312\021\234\037\335\325\237\201\002
```

```
\143\247\373\321
```

END

CKA\_CERT\_MD5\_HASH MULTILINE\_OCTAL

```
\117\335\007\344\324\042\144\071\036\014\067\102\352\321\306\256
```

END

CKA\_ISSUER MULTILINE\_OCTAL

```
\060\114\061\040\060\036\006\003\125\004\013\023\027\107\154\157
```

```
\142\141\154\123\151\147\156\040\122\157\157\164\040\103\101\040
```

```
\055\040\122\066\061\023\060\021\006\003\125\004\012\023\012\107
```

```
\154\157\142\141\154\123\151\147\156\061\023\060\021\006\003\125
```

```
\004\003\023\012\107\154\157\142\141\154\123\151\147\156
```

END

```
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\016\105\346\273\003\203\063\303\205\145\110\346\377\105\121
END
CKA_TRUST_SERVER_AUTH
CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "OISTE WISeKey Global Root GC CA"
#
Issuer: CN=OISTE WISeKey Global Root GC CA,OU=OISTE Foundation Endorsed,O=WISeKey,C=CH
Serial Number:21:2a:56:0c:ae:da:0c:ab:40:45:bf:2b:a2:2d:3a:ea
Subject: CN=OISTE WISeKey Global Root GC CA,OU=OISTE Foundation Endorsed,O=WISeKey,C=CH
Not Valid Before: Tue May 09 09:48:34 2017
Not Valid After : Fri May 09 09:58:33 2042
Fingerprint (SHA-256):
85:60:F9:1C:36:24:DA:BA:95:70:B5:FE:A0:DB:E3:6F:F1:1A:83:23:BE:94:86:85:4F:B3:F3:4A:55:71:19:8D
Fingerprint (SHA1): E0:11:84:5E:34:DE:BE:88:81:B9:9C:F6:16:26:D1:96:1F:C3:B9:31
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL
CK_FALSE
CKA_LABEL UTF8 "OISTE WISeKey Global Root GC CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\155\061\013\060\011\006\003\125\004\006\023\002\103\110\061
\020\060\016\006\003\125\004\012\023\007\127\111\123\145\113\145
\171\061\042\060\040\006\003\125\004\013\023\031\117\111\123\124
\105\040\106\157\165\156\144\141\164\151\157\156\040\105\156\144
\157\162\163\145\144\061\050\060\046\006\003\125\004\003\023\037
\117\111\123\124\105\040\127\111\123\145\113\145\171\040\107\154
\157\142\141\154\040\122\157\157\164\040\107\103\040\103\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\155\061\013\060\011\006\003\125\004\006\023\002\103\110\061
\020\060\016\006\003\125\004\012\023\007\127\111\123\145\113\145
\171\061\042\060\040\006\003\125\004\013\023\031\117\111\123\124
\105\040\106\157\165\156\144\141\164\151\157\156\040\105\156\144
\157\162\163\145\144\061\050\060\046\006\003\125\004\003\023\037
\117\111\123\124\105\040\127\111\123\145\113\145\171\040\107\154
\157\142\141\154\040\122\157\157\164\040\107\103\040\103\101
END
CKA_SERIAL_NUMBER
```

MULTILINE\_OCTAL

\002\020\041\052\126\014\256\332\014\253\100\105\277\053\242\055  
\072\352

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\002\151\060\202\001\357\240\003\002\001\002\002\020\041  
\052\126\014\256\332\014\253\100\105\277\053\242\055\072\352\060  
\012\006\010\052\206\110\316\075\004\003\003\060\155\061\013\060  
\011\006\003\125\004\006\023\002\103\110\061\020\060\016\006\003  
\125\004\012\023\007\127\111\123\145\113\145\171\061\042\060\040  
\006\003\125\004\013\023\031\117\111\123\124\105\040\106\157\165  
\156\144\141\164\151\157\156\040\105\156\144\157\162\163\145\144  
\061\050\060\046\006\003\125\004\003\023\037\117\111\123\124\105  
\040\127\111\123\145\113\145\171\040\107\154\157\142\141\154\040  
\122\157\157\164\040\107\103\040\103\101\060\036\027\015\061\067  
\060\065\060\071\060\071\064\070\063\064\132\027\015\064\062\060  
\065\060\071\060\071\065\070\063\063\132\060\155\061\013\060\011  
\006\003\125\004\006\023\002\103\110\061\020\060\016\006\003\125  
\004\012\023\007\127\111\123\145\113\145\171\061\042\060\040\006  
\003\125\004\013\023\031\117\111\123\124\105\040\106\157\165\156  
\144\141\164\151\157\156\040\105\156\144\157\162\163\145\144\061  
\050\060\046\006\003\125\004\003\023\037\117\111\123\124\105\040  
\127\111\123\145\113\145\171\040\107\154\157\142\141\154\040\122  
\157\157\164\040\107\103\040\103\101\060\166\060\020\006\007\052  
\206\110\316\075\002\001\006\005\053\201\004\000\042\003\142\000  
\004\114\351\120\300\306\017\162\030\274\330\361\272\263\211\342  
\171\112\243\026\247\153\124\044\333\121\377\352\364\011\044\303  
\013\042\237\313\152\047\202\201\015\322\300\257\061\344\164\202  
\156\312\045\331\214\165\235\361\333\320\232\242\113\041\176\026  
\247\143\220\322\071\324\261\207\170\137\030\226\017\120\033\065  
\067\017\152\306\334\331\023\115\244\216\220\067\346\275\133\061  
\221\243\124\060\122\060\016\006\003\125\035\017\001\001\377\004  
\004\003\002\001\006\060\017\006\003\125\035\023\001\001\377\004  
\005\060\003\001\001\377\060\035\006\003\125\035\016\004\026\004  
\024\110\207\024\254\343\303\236\220\140\072\327\312\211\356\323  
\255\214\264\120\146\060\020\006\011\053\006\001\004\001\202\067  
\025\001\004\003\002\001\000\060\012\006\010\052\206\110\316\075  
\004\003\003\003\150\000\060\145\002\060\046\307\151\133\334\325  
\347\262\347\310\014\214\214\303\335\171\214\033\143\325\311\122  
\224\116\115\202\112\163\036\262\200\204\251\045\300\114\132\155  
\111\051\140\170\023\342\176\110\353\144\002\061\000\333\064\040  
\062\010\377\232\111\002\266\210\336\024\257\135\154\231\161\215  
\032\077\213\327\340\242\066\206\034\007\202\072\166\123\375\302  
\242\355\357\173\260\200\117\130\017\113\123\071\275

END

CKA\_NSS\_MOZILLA\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE



CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "OISTE WISEKey Global Root GC CA"

# Issuer: CN=OISTE WISEKey Global Root GC CA,OU=OISTE Foundation  
Endorsed,O=WISEKey,C=CH

# Serial Number:21:2a:56:0c:ae:da:0c:ab:40:45:bf:2b:a2:2d:3a:ea

# Subject: CN=OISTE WISEKey Global Root GC CA,OU=OISTE Foundation Endorsed,O=WISEKey,C=CH

# Not Valid Before: Tue May 09 09:48:34 2017

# Not Valid After : Fri May 09 09:58:33 2042

# Fingerprint (SHA-256):

85:60:F9:1C:36:24:DA:BA:95:70:B5:FE:A0:DB:E3:6F:F1:1A:83:23:BE:94:86:85:4F:B3:F3:4A:55:71:19:8D

# Fingerprint (SHA1): E0:11:84:5E:34:DE:BE:88:81:B9:9C:F6:16:26:D1:96:1F:C3:B9:31

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "OISTE WISEKey Global Root GC CA"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

\340\021\204\136\064\336\276\210\201\271\234\366\026\046\321\226  
\037\303\271\061

END

CKA\_CERT\_MD5\_HASH MULTILINE\_OCTAL

\251\326\271\055\057\223\144\370\245\151\312\221\351\150\007\043  
END

CKA\_ISSUER MULTILINE\_OCTAL

\060\155\061\013\060\011\006\003\125\004\006\023\002\103\110\061  
\020\060\016\006\003\125\004\012\023\007\127\111\123\145\113\145  
\171\061\042\060\040\006\003\125\004\013\023\031\117\111\123\124  
\105\040\106\157\165\156\144\141\164\151\157\156\040\105\156\144  
\157\162\163\145\144\061\050\060\046\006\003\125\004\003\023\037  
\117\111\123\124\105\040\127\111\123\145\113\145\171\040\107\154  
\157\142\141\154\040\122\157\157\164\040\107\103\040\103\101

END

CKA\_SERIAL\_NUMBER

MULTILINE\_OCTAL

\002\020\041\052\126\014\256\332\014\253\100\105\277\053\242\055  
\072\352

END

CKA\_TRUST\_SERVER\_AUTH CK\_TRUST CKT\_NSS\_TRUSTED\_DELEGATOR

CKA\_TRUST\_EMAIL\_PROTECTION CK\_TRUST CKT\_NSS\_TRUSTED\_DELEGATOR

CKA\_TRUST\_CODE\_SIGNING CK\_TRUST CKT\_NSS\_MUST\_VERIFY\_TRUST

CKA\_TRUST\_STEP\_UP\_APPROVED CK\_BBOOL CK\_FALSE

#

# Certificate "UCA Global G2 Root"

#

# Issuer: CN=UCA Global G2 Root,O=UniTrust,C=CN

# Serial Number:5d:df:b1:da:5a:a3:ed:5d:be:5a:65:20:65:03:90:ef

```
Subject: CN=UCA Global G2 Root,O=UniTrust,C=CN
Not Valid Before: Fri Mar 11 00:00:00 2016
Not Valid After : Mon Dec 31 00:00:00 2040
Fingerprint
(SHA-256):
9B:EA:11:C9:76:FE:01:47:64:C1:BE:56:A6:F9:14:B5:A5:60:31:7A:BD:99:88:39:33:82:E5:16:1A:A0:49:3C
Fingerprint (SHA1): 28:F9:78:16:19:7A:FF:18:25:18:AA:44:FE:C1:A0:CE:5C:B6:4C:8A
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "UCA Global G2 Root"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\075\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\021\060\017\006\003\125\004\012\014\010\125\156\151\124\162\165
\163\164\061\033\060\031\006\003\125\004\003\014\022\125\103\101
\040\107\154\157\142\141\154\040\107\062\040\122\157\157\164
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\075\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\021\060\017\006\003\125\004\012\014\010\125\156\151\124\162\165
\163\164\061\033\060\031\006\003\125\004\003\014\022\125\103\101
\040\107\154\157\142\141\154\040\107\062\040\122\157\157\164
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\020\135\337\261\332\132\243\355\135\276\132\145\040\145\003
\220\357
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\106\060\202\003\056\240\003\002\001\002\002\020\135
\337\261\332\132\243\355\135\276\132\145\040\145\003\220\357\060
\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060\075
\061\013\060\011\006\003\125\004\006\023\002\103\116\061\021\060
\017\006\003\125\004\012\014\010\125\156\151\124\162\165\163\164
\061\033\060\031\006\003\125\004\003\014\022\125\103\101\040\107
\154\157\142\141\154\040\107\062\040\122\157\157\164\060\036\027
\015\061\066\060\063\061\061\060\060\060\060\060\060\132\027\015
\064\060\061\062\063\061\060\060\060\060\060\060\132\060\075\061
\013\060\011\006\003\125\004\006\023\002\103\116\061\021\060\017
\006\003\125\004\012\014\010\125\156\151\124\162\165\163\164\061
\033\060\031\006\003\125\004\003\014\022\125\103\101\040\107\154
\157\142\141\154\040\107\062\040\122\157\157\164\060\202\002\042
\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003
\202\002\017\000\060\202\002\012\002\202\002\001\000\305\346\053
\157\174\357\046\005\047\243\201\044\332\157\313\001\371\231\232
```

\251\062\302\042\207\141\101\221\073\313\303\150\033\006\305\114  
\251\053\301\147\027\042\035\053\355\371\051\211\223\242\170\275  
\222\153\240\243\015\242\176\312\223\263\246\321\214\065\325\165  
\371\027\366\317\105\305\345\172\354\167\223\240\217\043\256\016  
\032\003\177\276\324\320\355\056\173\253\106\043\133\377\054\346  
\124\172\224\300\052\025\360\311\215\260\172\073\044\341\327\150  
\342\061\074\006\063\106\266\124\021\246\245\057\042\124\052\130  
\015\001\002\361\372\025\121\147\154\300\372\327\266\033\177\321  
\126\210\057\032\072\215\073\273\202\021\340\107\000\320\122\207  
\253\373\206\176\017\044\153\100\235\064\147\274\215\307\055\206  
\157\171\076\216\251\074\027\113\177\260\231\343\260\161\140\334  
\013\365\144\303\316\103\274\155\161\271\322\336\047\133\212\350  
\330\306\256\341\131\175\317\050\055\065\270\225\126\032\361\262  
\130\113\267\022\067\310\174\263\355\113\200\341\215\372\062\043  
\266\157\267\110\225\010\261\104\116\205\214\072\002\124\040\057  
\337\277\127\117\073\072\220\041\327\301\046\065\124\040\354\307  
\077\107\354\357\132\277\113\172\301\255\073\027\120\134\142\330  
\017\113\112\334\053\372\156\274\163\222\315\354\307\120\350\101  
\226\327\251\176\155\330\351\035\217\212\265\271\130\222\272\112  
\222\053\014\126\375\200\353\010\360\136\051\156\033\034\014\257  
\217\223\211\255\333\275\243\236\041\312\211\031\354\337\265\303  
\032\353\026\376\170\066\114\326\156\320\076\027\034\220\027\153  
\046\272\373\172\057\277\021\034\030\016\055\163\003\217\240\345  
\065\240\132\342\114\165\035\161\341\071\070\123\170\100\314\203  
\223\327\012\236\235\133\217\212\344\345\340\110\344\110\262\107  
\315\116\052\165\052\173\362\042\366\311\276\011\221\226\127\172  
\210\210\254\356\160\254\371\334\051\343\014\034\073\022\116\104  
\326\247\116\260\046\310\363\331\032\227\221\150\352\357\215\106  
\006\322\126\105\130\232\074\014\017\203\270\005\045\303\071\317  
\073\244\064\211\267\171\022\057\107\305\347\251\227\151\374\246  
\167\147\265\337\173\361\172\145\025\344\141\126\145\002\003\001  
\000\001\243\102\060\100\060\016\006\003\125\035\017\001\001\377  
\004\004\003\002\001\006\060\017\006\003\125\035\023\001\001\377  
\004\005\060\003\001\001\377\060\035\006\003\125\035\016\004\026  
\004\024\201\304\214\314\365\344\060\377\245\014\010\137\214\025  
\147\041\164\001\337\337\060\015\006\011\052\206\110\206\367\015  
\001\001\013\005\000\003\202\002\001\000\023\145\042\365\216\053  
\255\104\344\313\377\271\150\346\303\200\110\075\004\173\372\043  
\057\172\355\066\332\262\316\155\366\346\236\345\137\130\217\313  
\067\062\241\310\145\266\256\070\075\065\033\076\274\073\266\004  
\320\274\371\111\365\233\367\205\305\066\266\313\274\370\310\071  
\325\344\137\007\275\025\124\227\164\312\312\355\117\272\272\144  
\166\237\201\270\204\105\111\114\215\157\242\353\261\314\321\303  
\224\332\104\302\346\342\352\030\350\242\037\047\005\272\327\345  
\326\251\315\335\357\166\230\215\000\016\315\033\372\003\267\216  
\200\130\016\047\077\122\373\224\242\312\136\145\311\326\204\332  
\271\065\161\363\046\300\117\167\346\201\047\322\167\073\232\024  
\157\171\364\366\320\341\323\224\272\320\127\121\275\047\005\015

```
\301\375\310\022\060\356\157\215\021\053\010\235\324\324\277\200
\105\024\232\210\104\332\060\352\264\247\343\356\357\133\202\325
\076\326\255\170\222\333\134\074\363\330\255\372\270\153\177\304
\066\050\266\002\025\212\124\054\234\260\027\163\216\320\067\243
\024\074\230\225\000\014\051\005\133\236\111\111\261\137\307\343
\313\317\047\145\216\065\027\267\127\310\060\331\101\133\271\024
\266\350\302\017\224\061\247\224\230\314\152\353\265\341\047\365
\020\250\001\350\216\022\142\350\210\314\265\177\106\227\300\233
\020\146\070\032\066\106\137\042\150\075\337\311\306\023\047\253
\123\006\254\242\074\206\006\145\157\261\176\261\051\104\232\243
\272\111\151\050\151\217\327\345\137\255\004\206\144\157\032\240
\014\305\010\142\316\200\243\320\363\354\150\336\276\063\307\027
\133\177\200\304\114\114\261\246\204\212\303\073\270\011\315\024
\201\272\030\343\124\127\066\376\333\057\174\107\241\072\063\310
\371\130\073\104\117\261\312\002\211\004\226\050\150\305\113\270
\046\211\273\326\063\057\120\325\376\232\211\272\030\062\222\124
\306\133\340\235\371\136\345\015\042\233\366\332\342\310\041\262
\142\041\252\206\100\262\056\144\323\137\310\343\176\021\147\105
\037\005\376\343\242\357\263\250\263\363\175\217\370\014\037\042
\037\055\160\264\270\001\064\166\060\000\345\043\170\247\126\327
\120\037\212\373\006\365\302\031\360\320
```

END

CKA\_NSS\_Mozilla\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "UCA Global G2 Root"

# Issuer: CN=UCA Global G2 Root,O=UniTrust,C=CN

# Serial Number:5d:df:b1:da:5a:a3:ed:5d:be:5a:65:20:65:03:90:ef

# Subject: CN=UCA Global G2 Root,O=UniTrust,C=CN

# Not Valid Before: Fri

Mar 11 00:00:00 2016

# Not Valid After : Mon Dec 31 00:00:00 2040

# Fingerprint (SHA-256):

9B:EA:11:C9:76:FE:01:47:64:C1:BE:56:A6:F9:14:B5:A5:60:31:7A:BD:99:88:39:33:82:E5:16:1A:A0:49:3C

# Fingerprint (SHA1): 28:F9:78:16:19:7A:FF:18:25:18:AA:44:FE:C1:A0:CE:5C:B6:4C:8A

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "UCA Global G2 Root"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

```
\050\371\170\026\031\172\377\030\045\030\252\104\376\301\240\316
\134\266\114\212
```

END

CKA\_CERT\_MD5\_HASH MULTILINE\_OCTAL

```
\200\376\360\304\112\360\134\142\062\237\034\272\170\251\120\370
```

```

END
CKA_ISSUER MULTILINE_OCTAL
\060\075\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\021\060\017\006\003\125\004\012\014\010\125\156\151\124\162\165
\163\164\061\033\060\031\006\003\125\004\003\014\022\125\103\101
\040\107\154\157\142\141\154\040\107\062\040\122\157\157\164
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\135\337\261\332\132\243\355\135\276\132\145\040\145\003
\220\357
END
CKA_TRUST_SERVER_AUTH
CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "UCA Extended Validation Root"
#
Issuer: CN=UCA Extended Validation Root,O=UniTrust,C=CN
Serial Number:4f:d2:2b:8f:f5:64:c8:33:9e:4f:34:58:66:23:70:60
Subject: CN=UCA Extended Validation Root,O=UniTrust,C=CN
Not Valid Before: Fri Mar 13 00:00:00 2015
Not Valid After : Fri Dec 31 00:00:00 2038
Fingerprint (SHA-256):
D4:3A:F9:B3:54:73:75:5C:96:84:FC:06:D7:D8:CB:70:EE:5C:28:E7:73:FB:29:4E:B4:1E:E7:17:22:92:4D:24
Fingerprint (SHA1): A3:A1:B0:6F:24:61:23:4A:E3:36:A5:C2:37:FC:A6:FF:DD:F0:D7:3A
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "UCA Extended Validation Root"
CKA_CERTIFICATE_TYPE
CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\107\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\021\060\017\006\003\125\004\012\014\010\125\156\151\124\162\165
\163\164\061\045\060\043\006\003\125\004\003\014\034\125\103\101
\040\105\170\164\145\156\144\145\144\040\126\141\154\151\144\141
\164\151\157\156\040\122\157\157\164
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\107\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\021\060\017\006\003\125\004\012\014\010\125\156\151\124\162\165
\163\164\061\045\060\043\006\003\125\004\003\014\034\125\103\101
\040\105\170\164\145\156\144\145\144\040\126\141\154\151\144\141

```

\164\151\157\156\040\122\157\157\164  
END  
CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL  
\002\020\117\322\053\217\365\144\310\063\236\117\064\130\146\043  
\160\140  
END  
CKA\_VALUE MULTILINE\_OCTAL  
\060\202\005\132\060\202\003\102\240\003\002\001\002\002\020\117  
\322\053\217\365\144\310\063\236\117\064\130\146\043\160\140\060  
\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060\107  
\061\013\060\011\006\003\125\004\006\023\002\103\116\061\021\060  
\017\006\003\125\004\012\014\010\125\156\151\124\162\165\163\164  
\061\045\060\043\006\003\125\004\003\014\034\125\103\101\040\105  
\170\164\145\156\144\145\144\040\126\141\154\151\144\141\164\151  
\157\156\040\122\157\157\164\060\036\027\015\061\065\060\063\061  
\063\060\060\060\060\060\132\027\015\063\070\061\062\063\061  
\060\060\060\060\060\060\132\060\107\061\013\060\011\006\003\125  
\004\006\023\002\103\116\061\021\060\017\006\003\125\004\012\014  
\010\125\156\151\124\162\165\163\164\061\045\060\043\006\003\125  
\004\003\014\034\125\103\101\040\105\170\164\145\156\144\145\144  
\040\126\141\154\151\144\141\164\151\157\156\040\122\157\157\164  
\060\202\002\042\060\015\006\011\052\206\110\206\367\015\001\001  
\001\005\000\003\202\002\017\000\060\202\002\012\002\202\002\001  
\000\251\011\007\050\023\002\260\231\340\144\252\036\103\026\172  
\163\261\221\240\165\076\250\372\343\070\000\172\354\211\152\040  
\017\213\305\260\233\063\003\132\206\306\130\206\325\301\205\273  
\117\306\234\100\115\312\276\356\151\226\270\255\201\060\232\174  
\222\005\353\005\053\232\110\320\270\166\076\226\310\040\273\322  
\260\361\217\330\254\105\106\377\252\147\140\264\167\176\152\037  
\074\032\122\172\004\075\007\074\205\015\204\320\037\166\012\367  
\152\024\337\162\343\064\174\127\116\126\001\076\171\361\252\051  
\073\154\372\370\217\155\115\310\065\337\256\353\334\044\356\171  
\105\247\205\266\005\210\336\210\135\045\174\227\144\147\011\331  
\277\132\025\005\206\363\011\036\354\130\062\063\021\363\167\144  
\260\166\037\344\020\065\027\033\362\016\261\154\244\052\243\163  
\374\011\037\036\062\031\123\021\347\331\263\054\056\166\056\241  
\243\336\176\152\210\011\350\362\007\212\370\262\315\020\347\342  
\163\100\223\273\010\321\077\341\374\013\224\263\045\357\174\246  
\327\321\257\237\377\226\232\365\221\173\230\013\167\324\176\350  
\007\322\142\265\225\071\343\363\361\155\017\016\145\204\212\143  
\124\305\200\266\340\236\113\175\107\046\247\001\010\135\321\210  
\236\327\303\062\104\372\202\112\012\150\124\177\070\123\003\314  
\244\000\063\144\121\131\013\243\202\221\172\136\354\026\302\363  
\052\346\142\332\052\333\131\142\020\045\112\052\201\013\107\007  
\103\006\160\207\322\372\223\021\051\172\110\115\353\224\307\160  
\115\257\147\325\121\261\200\040\001\001\264\172\010\246\220\177  
\116\340\357\007\101\207\257\152\245\136\213\373\317\120\262\232  
\124\257\303\211\272\130\055\365\060\230\261\066\162\071\176\111

\004\375\051\247\114\171\344\005\127\333\224\271\026\123\215\106  
\263\035\225\141\127\126\177\257\360\026\133\141\130\157\066\120  
\021\013\330\254\053\225\026\032\016\037\010\315\066\064\145\020  
\142\146\325\200\137\024\040\137\055\014\240\170\012\150\326\054  
\327\351\157\053\322\112\005\223\374\236\157\153\147\377\210\361  
\116\245\151\112\122\067\005\352\306\026\215\322\304\231\321\202  
\053\073\272\065\165\367\121\121\130\363\310\007\335\344\264\003  
\177\002\003\001\000\001\243\102\060\100\060\035\006\003\125\035  
\016\004\026\004\024\331\164\072\344\060\075\015\367\022\334\176  
\132\005\237\036\064\232\367\341\024\060\017\006\003\125\035\023  
\001\001\377\004\005\060\003\001\001\377\060\016\006\003\125\035  
\017\001\001\377\004\004\003\002\001\206\060\015\006\011\052\206  
\110\206\367\015\001\001\013\005\000\003\202\002\001\000\066\215  
\227\314\102\025\144\051\067\233\046\054\326\373\256\025\151\054  
\153\032\032\367\137\266\371\007\114\131\352\363\311\310\271\256  
\314\272\056\172\334\300\365\260\055\300\073\257\237\160\005\021  
\152\237\045\117\001\051\160\343\345\014\341\352\132\174\334\111  
\273\301\036\052\201\365\026\113\162\221\310\242\061\271\252\332  
\374\235\037\363\135\100\002\023\374\116\034\006\312\263\024\220  
\124\027\031\022\032\361\037\327\014\151\132\366\161\170\364\224  
\175\221\013\216\354\220\124\216\274\157\241\114\253\374\164\144  
\375\161\232\370\101\007\241\315\221\344\074\232\340\233\062\071  
\163\253\052\325\151\310\170\221\046\061\175\342\307\060\361\374  
\024\170\167\022\016\023\364\335\026\224\277\113\147\173\160\123  
\205\312\260\273\363\070\115\054\220\071\300\015\302\135\153\351  
\342\345\325\210\215\326\054\277\253\033\276\265\050\207\022\027  
\164\156\374\175\374\217\320\207\046\260\033\373\271\154\253\342  
\236\075\025\301\073\056\147\002\130\221\237\357\370\102\037\054  
\267\150\365\165\255\317\265\366\377\021\175\302\360\044\245\255  
\323\372\240\074\251\372\135\334\245\240\357\104\244\276\326\350  
\345\344\023\226\027\173\006\076\062\355\307\267\102\274\166\243  
\330\145\070\053\070\065\121\041\016\016\157\056\064\023\100\341  
\053\147\014\155\112\101\060\030\043\132\062\125\231\311\027\340  
\074\336\366\354\171\255\053\130\031\242\255\054\042\032\225\216  
\276\226\220\135\102\127\304\371\024\003\065\053\034\055\121\127  
\010\247\072\336\077\344\310\264\003\163\302\301\046\200\273\013  
\102\037\255\015\257\046\162\332\314\276\263\243\203\130\015\202  
\305\037\106\121\343\234\030\314\215\233\215\354\111\353\165\120  
\325\214\050\131\312\164\064\332\214\013\041\253\036\352\033\345  
\307\375\025\076\300\027\252\373\043\156\046\106\313\372\371\261  
\162\153\151\317\042\204\013\142\017\254\331\031\000\224\242\166  
\074\324\055\232\355\004\236\055\006\142\020\067\122\034\205\162  
\033\047\345\314\306\061\354\067\354\143\131\233\013\035\166\314  
\176\062\232\210\225\010\066\122\273\336\166\137\166\111\111\255  
\177\275\145\040\262\311\301\053\166\030\166\237\126\261

END

CKA\_NSS\_MOZILLA\_CA\_POLICY

```

CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRICT_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRICT_AFTER CK_BBOOL CK_FALSE

Trust for "UCA Extended Validation Root"
Issuer: CN=UCA Extended Validation Root,O=UniTrust,C=CN
Serial Number:4f:d2:2b:8f:f5:64:c8:33:9e:4f:34:58:66:23:70:60
Subject: CN=UCA Extended Validation Root,O=UniTrust,C=CN
Not Valid Before: Fri Mar 13 00:00:00 2015
Not Valid After : Fri Dec 31 00:00:00 2038
Fingerprint (SHA-256):
D4:3A:F9:B3:54:73:75:5C:96:84:FC:06:D7:D8:CB:70:EE:5C:28:E7:73:FB:29:4E:B4:1E:E7:17:22:92:4D:24
#
Fingerprint (SHA1): A3:A1:B0:6F:24:61:23:4A:E3:36:A5:C2:37:FC:A6:FF:DD:F0:D7:3A
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "UCA Extended Validation Root"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\243\241\260\157\044\141\043\112\343\066\245\302\067\374\246\377
\335\360\327\072
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\241\363\137\103\306\064\233\332\277\214\176\005\123\255\226\342
END
CKA_ISSUER MULTILINE_OCTAL
\060\107\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\021\060\017\006\003\125\004\012\014\010\125\156\151\124\162\165
\163\164\061\045\060\043\006\003\125\004\003\014\034\125\103\101
\040\105\170\164\145\156\144\145\144\040\126\141\154\151\144\141
\164\151\157\156\040\122\157\157\164
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\117\322\053\217\365\144\310\063\236\117\064\130\146\043
\160\140
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION
CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Certigna Root CA"
#
Issuer: CN=Certigna Root CA,OU=0002 48146308100036,O=Dhimyotis,C=FR
Serial Number:00:ca:e9:1b:89:f1:55:03:0d:a3:e6:41:6d:c4:e3:a6:e1

```



```
Subject: CN=Certigna Root CA,OU=0002 48146308100036,O=Dhimyotis,C=FR
Not Valid Before: Tue Oct 01 08:32:27 2013
Not Valid After : Sat Oct 01 08:32:27 2033
Fingerprint (SHA-256):
D4:8D:3D:23:EE:DB:50:A4:59:E5:51:97:60:1C:27:77:4B:9D:7B:18:C9:4D:5A:05:95:11:A1:02:50:B9:31:68
Fingerprint (SHA1): 2D:0D:52:14:FF:9E:AD:99:24:01:74:20:47:6E:6C:85:27:27:F5:43
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certigna Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\132\061\013\060\011\006\003\125\004\006\023\002\106\122\061
\022\060\020\006\003\125\004\012\014\011\104\150\151\155\171\157
\164\151\163\061\034\060\032\006\003\125\004\013\014\023\060\060
\060\062\040\064\070\061\064\066\063\060\070\061\060\060\060\063
\066\061\031\060\027\006\003\125\004\003\014\020\103\145\162\164
\151\147\156\141\040\122\157\157\164\040\103\101
END
CKA_ID
UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\132\061\013\060\011\006\003\125\004\006\023\002\106\122\061
\022\060\020\006\003\125\004\012\014\011\104\150\151\155\171\157
\164\151\163\061\034\060\032\006\003\125\004\013\014\023\060\060
\060\062\040\064\070\061\064\066\063\060\070\061\060\060\060\063
\066\061\031\060\027\006\003\125\004\003\014\020\103\145\162\164
\151\147\156\141\040\122\157\157\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\021\000\312\351\033\211\361\125\003\015\243\346\101\155\304
\343\246\341
END
CKA_VALUE MULTILINE_OCTAL
\060\202\006\133\060\202\004\103\240\003\002\001\002\002\021\000
\312\351\033\211\361\125\003\015\243\346\101\155\304\343\246\341
\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060
\132\061\013\060\011\006\003\125\004\006\023\002\106\122\061\022
\060\020\006\003\125\004\012\014\011\104\150\151\155\171\157\164
\151\163\061\034\060\032\006\003\125\004\013\014\023\060\060\060
\062\040\064\070\061\064\066\063\060\070\061\060\060\060\063\066
\061\031\060\027\006\003\125\004\003\014\020\103\145\162\164\151
\147\156\141\040\122\157\157\164\040\103\101\060\036\027\015\061
\063\061\060\060\061\060\070\063\062\062\067\132\027\015\063\063
\061\060\060\061\060\070\063\062\062\067\132\060\132\061\013\060
\011\006\003\125\004\006\023\002\106\122\061\022\060\020\006\003
\125\004\012\014\011\104\150\151\155\171\157\164\151\163\061\034
```

\060\032\006\003\125\004\013\014\023\060\060\060\062\040\064\070  
\061\064\066\063\060\070\061\060\060\060\063\066\061\031\060\027  
\006\003\125\004\003\014\020\103\145\162\164\151\147\156\141\040  
\122\157\157\164\040\103\101\060\202\002\042\060\015\006\011\052  
\206\110\206\367\015\001\001\001\005\000\003\202\002\017\000\060  
\202\002\012\002\202\002\001\000\315\030\071\145\032\131\261\352  
\144\026\016\214\224\044\225\174\203\323\305\071\046\334\014\357  
\026\127\215\327\330\254\243\102\177\202\312\355\315\133\333\016  
\267\055\355\105\010\027\262\331\263\313\326\027\122\162\050\333  
\216\116\236\212\266\013\371\236\204\232\115\166\336\042\051\134  
\322\263\322\006\076\060\071\251\164\243\222\126\034\241\157\114  
\012\040\155\237\043\172\264\306\332\054\344\035\054\334\263\050  
\320\023\362\114\116\002\111\241\124\100\236\346\345\005\240\055  
\204\310\377\230\154\320\353\212\032\204\010\036\267\150\043\356  
\043\325\160\316\155\121\151\020\356\241\172\302\321\042\061\302  
\202\205\322\362\125\166\120\174\045\172\311\204\134\013\254\335  
\102\116\053\347\202\242\044\211\313\220\262\320\356\043\272\146  
\114\273\142\244\371\123\132\144\173\174\230\372\243\110\236\017  
\225\256\247\030\364\152\354\056\003\105\257\360\164\370\052\315  
\172\135\321\276\104\046\062\051\361\361\365\154\314\176\002\041  
\013\237\157\244\077\276\235\123\342\317\175\251\054\174\130\032  
\227\341\075\067\067\030\146\050\322\100\305\121\212\214\303\055  
\316\123\210\044\130\144\060\026\305\252\340\326\012\246\100\337  
\170\366\365\004\174\151\023\204\274\321\321\247\006\317\001\367  
\150\300\250\127\273\072\141\255\004\214\223\343\255\374\360\333  
\104\155\131\334\111\131\256\254\232\231\066\060\101\173\166\063  
\042\207\243\302\222\206\156\371\160\356\256\207\207\225\033\304  
\172\275\061\363\324\322\345\231\377\276\110\354\165\365\170\026  
\035\246\160\301\177\074\033\241\222\373\317\310\074\326\305\223  
\012\217\365\125\072\166\225\316\131\230\212\011\225\167\062\232  
\203\272\054\004\072\227\275\324\057\276\327\154\233\242\312\175  
\155\046\311\125\325\317\303\171\122\010\011\231\007\044\055\144  
\045\153\246\041\151\233\152\335\164\115\153\227\172\101\275\253  
\027\371\220\027\110\217\066\371\055\325\305\333\356\252\205\105  
\101\372\315\072\105\261\150\346\066\114\233\220\127\354\043\271  
\207\010\302\304\011\361\227\206\052\050\115\342\164\300\332\304  
\214\333\337\342\241\027\131\316\044\131\164\061\332\177\375\060  
\155\331\334\341\152\341\374\137\002\003\001\000\001\243\202\001  
\032\060\202\001\026\060\017\006\003\125\035\023\001\001\377\004  
\005\060\003\001\001\377\060\016\006\003\125\035\017\001\001\377  
\004\004\003\002\001\006\060\035\006\003\125\035\016\004\026\004  
\024\030\207\126\340\156\167\356\044\065\074\116\163\232\037\326  
\341\342\171\176\053\060\037\006\003\125\035\043\004\030\060\026  
\200\024\030\207\126\340\156\167\356\044\065\074\116\163\232\037  
\326\341\342\171\176\053\060\104\006\003\125\035\040\004\075\060  
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\164\164\160\072\057\057\143\162\154\056\143\145\162\164\151\147  
\156\141\056\146\162\057\143\145\162\164\151\147\156\141\162\157  
\157\164\143\141\056\143\162\154\060\061\240\057\240\055\206\053  
\150\164\164\160\072\057\057\143\162\154\056\144\150\151\155\171  
\157\164\151\163\056\143\157\155\057\143\145\162\164\151\147\156  
\141\162\157\157\164\143\141\056\143\162\154\060\015\006\011\052  
\206\110\206\367\015\001\001\013\005\000\003\202\002\001\000\224  
\270\236\117\360\343\225\010\042\347\315\150\101\367\034\125\325  
\174\000\342\055\072\211\135\150\070\057\121\042\013\112\215\313  
\351\273\135\076\273\134\075\261\050\376\344\123\125\023\317\241  
\220\033\002\035\137\146\106\011\063\050\341\015\044\227\160\323  
\020\037\352\144\127\226\273\135\332\347\304\214\117\114\144\106  
\035\134\207\343\131\336\102\321\233\250\176\246\211\335\217\034  
\311\060\202\355\073\234\315\300\351\031\340\152\330\002\165\067  
\253\367\064\050\050\221\362\004\012\117\065\343\140\046\001\372  
\320\021\214\371\021\152\356\257\075\303\120\323\217\137\063\171  
\074\206\250\163\105\220\214\040\266\162\163\027\043\276\007\145  
\345\170\222\015\272\001\300\353\214\034\146\277\254\206\167\001  
\224\015\234\346\351\071\215\037\246\121\214\231\014\071\167\341  
\264\233\372\034\147\127\157\152\152\216\251\053\114\127\171\172  
\127\042\317\315\137\143\106\215\134\131\072\206\370\062\107\142  
\243\147\015\030\221\334\373\246\153\365\110\141\163\043\131\216  
\002\247\274\104\352\364\111\235\361\124\130\371\140\257\332\030  
\244\057\050\105\334\172\240\210\206\135\363\073\347\377\051\065  
\200\374\144\103\224\346\343\034\157\276\255\016\052\143\231\053  
\311\176\205\366\161\350\006\003\225\376\336\217\110\034\132\324  
\222\350\053\356\347\061\333\272\004\152\207\230\347\305\137\357  
\175\247\042\367\001\330\115\371\211\320\016\232\005\131\244\236  
\230\331\157\053\312\160\276\144\302\125\243\364\351\257\303\222  
\051\334\210\026\044\231\074\215\046\230\266\133\267\314\316\267  
\067\007\375\046\331\230\205\044\377\131\043\003\232\355\235\235  
\250\344\136\070\316\327\122\015\157\322\077\155\261\005\153\111  
\316\212\221\106\163\364\366\057\360\250\163\167\016\145\254\241  
\215\146\122\151\176\113\150\014\307\036\067\047\203\245\214\307  
\002\344\024\315\111\001\260\163\263\375\306\220\072\157\322\154  
\355\073\356\354\221\276\242\103\135\213\000\112\146\045\104\160  
\336\100\017\370\174\025\367\242\316\074\327\136\023\214\201\027  
\030\027\321\275\361\167\020\072\324\145\071\301\047\254\127\054  
\045\124\377\242\332\117\212\141\071\136\256\075\112\214\275

END

CKA\_NSS\_MOZILLA\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "Certigna Root CA"

```
Issuer: CN=Certigna Root CA,OU=0002 48146308100036,O=Dhimyotis,C=FR
Serial Number:00:ca:e9:1b:89:f1:55:03:0d:a3:e6:41:6d:c4:e3:a6:e1
Subject: CN=Certigna Root CA,OU=0002 48146308100036,O=Dhimyotis,C=FR
Not Valid Before: Tue Oct 01 08:32:27 2013
Not Valid After : Sat Oct 01 08:32:27 2033
Fingerprint (SHA-256):
D4:8D:3D:23:EE:DB:50:A4:59:E5:51:97:60:1C:27:77:4B:9D:7B:18:C9:4D:5A:05:95:11:A1:02:50:B9:31:68
#
Fingerprint (SHA1): 2D:0D:52:14:FF:9E:AD:99:24:01:74:20:47:6E:6C:85:27:27:F5:43
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certigna Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\055\015\122\024\377\236\255\231\044\001\164\040\107\156\154\205
\047\047\365\103
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\016\134\060\142\047\353\133\274\327\256\142\272\351\325\337\167
END
CKA_ISSUER MULTILINE_OCTAL
\060\132\061\013\060\011\006\003\125\004\006\023\002\106\122\061
\022\060\020\006\003\125\004\012\014\011\104\150\151\155\171\157
\164\151\163\061\034\060\032\006\003\125\004\013\014\023\060\060
\060\062\040\064\070\061\064\066\063\060\070\061\060\060\060\063
\066\061\031\060\027\006\003\125\004\003\014\020\103\145\162\164
\151\147\156\141\040\122\157\157\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\021\000\312\351\033\211\361\125\003\015\243\346\101\155\304
\343\246\341
END
CKA_TRUST_SERVER_AUTH
CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "emSign Root CA - G1"
#
Issuer: CN=emSign Root CA - G1,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN
Serial Number:31:f5:e4:62:0c:6c:58:ed:d6:d8
Subject: CN=emSign Root CA - G1,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN
Not Valid Before: Sun Feb 18 18:30:00 2018
Not Valid After : Wed Feb 18 18:30:00 2043
Fingerprint (SHA-256):
```

40:F6:AF:03:46:A9:9A:A1:CD:1D:55:5A:4E:9C:CE:62:C7:F9:63:46:03:EE:40:66:15:83:3D:C8:C8:D0:03:67  
# Fingerprint (SHA1): 8A:C7:AD:8F:73:AC:4E:C1:B5:75:4D:A5:40:F4:FC:CF:7C:B5:8E:8C  
CKA\_CLASS CK\_OBJECT\_CLASS CKO\_CERTIFICATE  
CKA\_TOKEN CK\_BBOOL CK\_TRUE  
CKA\_PRIVATE CK\_BBOOL CK\_FALSE  
CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE  
CKA\_LABEL UTF8  
"emSign Root CA - G1"  
CKA\_CERTIFICATE\_TYPE CK\_CERTIFICATE\_TYPE CKC\_X\_509  
CKA\_SUBJECT MULTILINE\_OCTAL  
\060\147\061\013\060\011\006\003\125\004\006\023\002\111\116\061  
\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147\156  
\040\120\113\111\061\045\060\043\006\003\125\004\012\023\034\145  
\115\165\144\150\162\141\040\124\145\143\150\156\157\154\157\147  
\151\145\163\040\114\151\155\151\164\145\144\061\034\060\032\006  
\003\125\004\003\023\023\145\155\123\151\147\156\040\122\157\157  
\164\040\103\101\040\055\040\107\061  
END  
CKA\_ID UTF8 "0"  
CKA\_ISSUER MULTILINE\_OCTAL  
\060\147\061\013\060\011\006\003\125\004\006\023\002\111\116\061  
\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147\156  
\040\120\113\111\061\045\060\043\006\003\125\004\012\023\034\145  
\115\165\144\150\162\141\040\124\145\143\150\156\157\154\157\147  
\151\145\163\040\114\151\155\151\164\145\144\061\034\060\032\006  
\003\125\004\003\023\023\145\155\123\151\147\156\040\122\157\157  
\164\040\103\101\040\055\040\107\061  
END  
CKA\_SERIAL\_NUMBER  
MULTILINE\_OCTAL  
\002\012\061\365\344\142\014\154\130\355\326\330  
END  
CKA\_VALUE MULTILINE\_OCTAL  
\060\202\003\224\060\202\002\174\240\003\002\001\002\002\012\061  
\365\344\142\014\154\130\355\326\330\060\015\006\011\052\206\110  
\206\367\015\001\001\013\005\000\060\147\061\013\060\011\006\003  
\125\004\006\023\002\111\116\061\023\060\021\006\003\125\004\013  
\023\012\145\155\123\151\147\156\040\120\113\111\061\045\060\043  
\006\003\125\004\012\023\034\145\115\165\144\150\162\141\040\124  
\145\143\150\156\157\154\157\147\151\145\163\040\114\151\155\151  
\164\145\144\061\034\060\032\006\003\125\004\003\023\023\145\155  
\123\151\147\156\040\122\157\157\164\040\103\101\040\055\040\107  
\061\060\036\027\015\061\070\060\062\061\070\061\070\063\060\060  
\060\132\027\015\064\063\060\062\061\070\061\070\063\060\060\060  
\132\060\147\061\013\060\011\006\003\125\004\006\023\002\111\116  
\061\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147  
\156\040\120\113\111\061\045\060\043\006\003\125\004\012\023\034  
\145\115\165\144\150\162\141\040\124\145\143\150\156\157\154\157

\147\151\145\163\040\114\151\155\151\164\145\144\061\034\060\032  
\006\003\125\004\003\023\023\145\155\123\151\147\156\040\122\157  
\157\164\040\103\101\040\055\040\107\061\060\202\001\042\060\015  
\006\011\052\206\110\206\367\015\001\001\001\005\000\003\202\001  
\017\000\060\202\001\012\002\202\001\001\000\223\113\273\351\146  
\212\356\235\133\325\064\223\320\033\036\303\347\236\270\144\063  
\177\143\170\150\264\315\056\161\165\327\233\040\306\115\051\274  
\266\150\140\212\367\041\232\126\065\132\363\166\275\330\315\232  
\377\223\126\113\245\131\006\241\223\064\051\335\026\064\165\116  
\362\201\264\307\226\116\255\031\025\122\112\376\074\160\165\160  
\315\257\053\253\025\232\063\074\252\263\213\252\315\103\375\365  
\352\160\377\355\317\021\073\224\316\116\062\026\323\043\100\052  
\167\263\257\074\001\054\154\355\231\054\213\331\116\151\230\262  
\367\217\101\260\062\170\141\326\015\137\303\372\242\100\222\035  
\134\027\346\160\076\065\347\242\267\302\142\342\253\244\070\114  
\265\071\065\157\352\003\151\372\072\124\150\205\155\326\362\057  
\103\125\036\221\015\016\330\325\152\244\226\321\023\074\054\170  
\120\350\072\222\322\027\126\345\065\032\100\034\076\215\054\355  
\071\337\102\340\203\101\164\337\243\315\302\206\140\110\150\343  
\151\013\124\000\213\344\166\151\041\015\171\116\064\010\136\024  
\302\314\261\267\255\327\174\160\212\307\205\002\003\001\000\001  
\243\102\060\100\060\035\006\003\125\035\016\004\026\004\024\373  
\357\015\206\236\260\343\335\251\271\361\041\027\177\076\374\360  
\167\053\032\060\016\006\003\125\035\017\001\001\377\004\004\003  
\002\001\006\060\017\006\003\125\035\023\001\001\377\004\005\060  
\003\001\001\377\060\015\006\011\052\206\110\206\367\015\001\001  
\013\005\000\003\202\001\001\000\131\377\362\214\365\207\175\161  
\075\243\237\033\133\321\332\370\323\234\153\066\275\233\251\141  
\353\336\026\054\164\075\236\346\165\332\327\272\247\274\102\027  
\347\075\221\353\345\175\335\076\234\361\317\222\254\154\110\314  
\302\042\077\151\073\305\266\025\057\243\065\306\150\052\034\127  
\257\071\357\215\320\065\303\030\014\173\000\126\034\315\213\031  
\164\336\276\017\022\340\320\252\241\077\002\064\261\160\316\235  
\030\326\010\003\011\106\356\140\340\176\266\304\111\004\121\175  
\160\140\274\252\262\377\171\162\172\246\035\075\137\052\370\312  
\342\375\071\267\107\271\353\176\337\004\043\257\372\234\006\007  
\351\373\143\223\200\100\265\306\154\012\061\050\316\014\237\317  
\263\043\065\200\101\215\154\304\067\173\201\057\200\241\100\102  
\205\351\331\070\215\350\241\123\315\001\277\151\350\132\006\362  
\105\013\220\372\256\341\277\235\362\256\127\074\245\256\262\126  
\364\213\145\100\351\375\061\201\054\364\071\011\330\356\153\247  
\264\246\035\025\245\230\367\001\201\330\205\175\363\121\134\161  
\210\336\272\314\037\200\176\112

END

CKA\_NSS\_MOZILLA\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

```
#
Trust for "emSign Root CA - G1"
Issuer: CN=emSign Root CA - G1,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN
Serial Number:31:f5:e4:62:0c:6c:58:ed:d6:d8
Subject: CN=emSign Root CA - G1,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN
Not Valid Before: Sun Feb 18 18:30:00 2018
Not Valid After : Wed Feb 18 18:30:00 2043
Fingerprint (SHA-256):
40:F6:AF:03:46:A9:9A:A1:CD:1D:55:5A:4E:9C:CE:62:C7:F9:63:46:03:EE:40:66:15:83:3D:C8:C8:D0:03:67
Fingerprint (SHA1): 8A:C7:AD:8F:73:AC:4E:C1:B5:75:4D:A5:40:F4:FC:CF:7C:B5:8E:8C
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "emSign Root CA - G1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\212\307\255\217\163\254\116\301\265\165\115\245\100\364\374\317
\174\265\216\214
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\234\102\204\127\335\313\013\247\056\225\255\266\363\332\274\254
END
CKA_ISSUER MULTILINE_OCTAL
\060\147\061\013\060\011\006\003\125\004\006\023\002\111\116\061
\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147\156
\040\120\113\111\061\045\060\043\006\003\125\004\012\023\034\145
\115\165\144\150\162\141\040\124\145\143\150\156\157\154\157\147
\151\145\163\040\114\151\155\151\164\145\144\061\034\060\032\006
\003\125\004\003\023\023\145\155\123\151\147\156\040\122\157\157
\164\040\103\101\040\055\040\107\061
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\012\061\365\344\142\014\154\130\355\326\330
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
```

```
#
Certificate "emSign ECC Root CA - G3"
#
Issuer: CN=emSign ECC Root CA - G3,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN
Serial Number:3c:f6:07:a9:68:70:0e:da:8b:84
Subject: CN=emSign ECC Root CA - G3,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN
Not Valid Before: Sun Feb 18 18:30:00
```

2018

# Not Valid After : Wed Feb 18 18:30:00 2043

# Fingerprint (SHA-256):

86:A1:EC:BA:08:9C:4A:8D:3B:BE:27:34:C6:12:BA:34:1D:81:3E:04:3C:F9:E8:A8:62:CD:5C:57:A3:6B:BE:6B

# Fingerprint (SHA1): 30:43:FA:4F:F2:57:DC:A0:C3:80:EE:2E:58:EA:78:B2:3F:E6:BB:C1

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_CERTIFICATE

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "emSign ECC Root CA - G3"

CKA\_CERTIFICATE\_TYPE CK\_CERTIFICATE\_TYPE CKC\_X\_509

CKA\_SUBJECT MULTILINE\_OCTAL

\060\153\061\013\060\011\006\003\125\004\006\023\002\111\116\061  
\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147\156  
\040\120\113\111\061\045\060\043\006\003\125\004\012\023\034\145  
\115\165\144\150\162\141\040\124\145\143\150\156\157\154\157\147  
\151\145\163\040\114\151\155\151\164\145\144\061\040\060\036\006  
\003\125\004\003\023\027\145\155\123\151\147\156\040\105\103\103  
\040\122\157\157\164\040\103\101\040\055\040\107\063

END

CKA\_ID UTF8 "0"

CKA\_ISSUER MULTILINE\_OCTAL

\060\153\061\013\060\011\006\003\125\004\006\023\002\111\116\061  
\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147\156  
\040\120\113\111\061\045\060\043\006\003\125\004\012\023\034\145  
\115\165\144\150\162\141\040\124\145\143\150\156\157\154\157\147  
\151\145\163\040\114\151\155\151\164\145\144\061\040\060\036\006  
\003\125\004\003\023\027\145\155\123\151\147\156\040\105\103\103  
\040\122\157\157\164\040\103\101\040\055\040\107\063

END

CKA\_SERIAL\_NUMBER

MULTILINE\_OCTAL

\002\012\074\366\007\251\150\160\016\332\213\204

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\002\116\060\202\001\323\240\003\002\001\002\002\012\074  
\366\007\251\150\160\016\332\213\204\060\012\006\010\052\206\110  
\316\075\004\003\003\060\153\061\013\060\011\006\003\125\004\006  
\023\002\111\116\061\023\060\021\006\003\125\004\013\023\012\145  
\155\123\151\147\156\040\120\113\111\061\045\060\043\006\003\125  
\004\012\023\034\145\115\165\144\150\162\141\040\124\145\143\150  
\156\157\154\157\147\151\145\163\040\114\151\155\151\164\145\144  
\061\040\060\036\006\003\125\004\003\023\027\145\155\123\151\147  
\156\040\105\103\103\040\122\157\157\164\040\103\101\040\055\040  
\107\063\060\036\027\015\061\070\060\062\061\070\061\070\063\060  
\060\060\132\027\015\064\063\060\062\061\070\061\070\063\060\060  
\060\132\060\153\061\013\060\011\006\003\125\004\006\023\002\111  
\116\061\023\060\021\006\003\125\004\013\023\012\145\155\123\151



\147\156\040\120\113\111\061\045\060\043\006\003\125\004\012\023  
\034\145\115\165\144\150\162\141\040\124\145\143\150\156\157\154  
\157\147\151\145\163\040\114\151\155\151\164\145\144\061\040\060  
\036\006\003\125\004\003\023\027\145\155\123\151\147\156\040\105  
\103\103\040\122\157\157\164\040\103\101\040\055\040\107\063\060  
\166\060\020\006\007\052\206\110\316\075\002\001\006\005\053\201  
\004\000\042\003\142\000\004\043\245\014\270\055\022\365\050\363  
\261\262\335\342\002\022\200\236\071\137\111\115\237\311\045\064  
\131\164\354\273\006\034\347\300\162\257\350\256\057\341\101\124  
\207\024\250\112\262\350\174\202\346\133\152\265\334\263\165\316  
\213\006\320\206\043\277\106\325\216\017\077\004\364\327\034\222  
\176\366\245\143\302\365\137\216\056\117\241\030\031\002\053\062  
\012\202\144\175\026\223\321\243\102\060\100\060\035\006\003\125  
\035\016\004\026\004\024\174\135\002\204\023\324\314\212\233\201  
\316\027\034\056\051\036\234\110\143\102\060\016\006\003\125\035  
\017\001\001\377\004\004\003\002\001\006\060\017\006\003\125\035  
\023\001\001\377\004\005\060\003\001\001\377\060\012\006\010\052  
\206\110\316\075\004\003\003\003\151\000\060\146\002\061\000\276  
\363\141\317\002\020\035\144\225\007\270\030\156\210\205\005\057  
\203\010\027\220\312\037\212\114\350\015\033\172\261\255\325\201  
\011\107\357\073\254\010\004\174\134\231\261\355\107\007\322\002  
\061\000\235\272\125\374\251\112\350\355\355\346\166\001\102\173  
\310\370\140\331\215\121\213\125\073\373\214\173\353\145\011\303  
\370\226\315\107\250\202\362\026\125\167\044\176\022\020\225\004  
\054\243

END

CKA\_NSS\_MOZILLA\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "emSign ECC Root CA - G3"

# Issuer: CN=emSign ECC Root CA - G3,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN

# Serial Number:3c:f6:07:a9:68:70:0e:da:8b:84

# Subject: CN=emSign ECC Root CA - G3,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN

# Not Valid Before: Sun Feb 18 18:30:00 2018

# Not Valid After : Wed Feb 18 18:30:00 2043

# Fingerprint (SHA-256):

86:A1:EC:BA:08:9C:4A:8D:3B:BE:27:34:C6:12:BA:34:1D:81:3E:04:3C:F9:E8:A8:62:CD:5C:57:A3:6B:BE:6B

# Fingerprint (SHA1): 30:43:FA:4F:F2:57:DC:A0:C3:80:EE:2E:58:EA:78:B2:3F:E6:BB:C1

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "emSign ECC Root CA - G3"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

\060\103\372\117\362\127\334\240\303\200\356\056\130\352\170\262

\077\346\273\301

```

END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\316\013\162\321\237\210\216\320\120\003\350\343\270\213\147\100
END
CKA_ISSUER
MULTILINE_OCTAL
\060\153\061\013\060\011\006\003\125\004\006\023\002\111\116\061
\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147\156
\040\120\113\111\061\045\060\043\006\003\125\004\012\023\034\145
\115\165\144\150\162\141\040\124\145\143\150\156\157\154\157\147
\151\145\163\040\114\151\155\151\164\145\144\061\040\060\036\006
\003\125\004\003\023\027\145\155\123\151\147\156\040\105\103\103
\040\122\157\157\164\040\103\101\040\055\040\107\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\012\074\366\007\251\150\160\016\332\213\204
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "emSign Root CA - C1"
#
Issuer: CN=emSign Root CA - C1,O=eMudhra Inc,OU=emSign PKI,C=US
Serial Number:00:ae:cf:00:ba:c4:cf:32:f8:43:b2
#
Subject: CN=emSign Root CA - C1,O=eMudhra Inc,OU=emSign PKI,C=US
Not Valid Before: Sun Feb 18 18:30:00 2018
Not Valid After : Wed Feb 18 18:30:00 2043
Fingerprint (SHA-256):
12:56:09:AA:30:1D:A0:A2:49:B9:7A:82:39:CB:6A:34:21:6F:44:DC:AC:9F:39:54:B1:42:92:F2:E8:C8:60:8F
Fingerprint (SHA1): E7:2E:F1:DF:FC:B2:09:28:CF:5D:D4:D5:67:37:B1:51:CB:86:4F:01
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "emSign Root CA - C1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\126\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147\156
\040\120\113\111\061\024\060\022\006\003\125\004\012\023\013\145
\115\165\144\150\162\141\040\111\156\143\061\034\060\032\006\003
\125\004\003\023\023\145\155\123\151\147\156\040\122\157\157\164
\040\103\101\040\055\040\103\061
END

```

```
CKA_ID UTF8 "0"
CKA_ISSUER
MULTILINE_OCTAL
\060\126\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147\156
\040\120\113\111\061\024\060\022\006\003\125\004\012\023\013\145
\115\165\144\150\162\141\040\111\156\143\061\034\060\032\006\003
\125\004\003\023\023\145\155\123\151\147\156\040\122\157\157\164
\040\103\101\040\055\040\103\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\013\000\256\317\000\272\304\317\062\370\103\262
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\163\060\202\002\133\240\003\002\001\002\002\013\000
\256\317\000\272\304\317\062\370\103\262\060\015\006\011\052\206
\110\206\367\015\001\001\013\005\000\060\126\061\013\060\011\006
\003\125\004\006\023\002\125\123\061\023\060\021\006\003\125\004
\013\023\012\145\155\123\151\147\156\040\120\113\111\061\024\060
\022\006\003\125\004\012\023\013\145\115\165\144\150\162\141\040
\111\156\143\061\034\060\032\006\003\125\004\003\023\023\145\155
\123\151\147\156\040\122\157\157\164\040\103\101\040\055\040\103
\061\060\036\027\015\061\070\060\062\061\070\061\070\063\060\060
\060\132\027\015\064\063\060\062\061\070\061\070\063\060\060\060
\132\060\126\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147
\156\040\120\113\111\061\024\060\022\006\003\125\004\012\023\013
\145\115\165\144\150\162\141\040\111\156\143\061\034\060\032\006
\003\125\004\003\023\023\145\155\123\151\147\156\040\122\157\157
\164\040\103\101\040\055\040\103\061\060\202\001\042\060\015\006
\011\052\206\110\206\367\015\001\001\001\005\000\003\202\001\017
\000\060\202\001\012\002\202\001\001\000\317\353\251\271\361\231
\005\314\330\050\041\112\363\163\064\121\204\126\020\365\240\117
\054\022\343\372\023\232\047\320\317\371\171\032\164\137\035\171
\071\374\133\370\160\216\340\222\122\367\344\045\371\124\203\331
\035\323\310\132\205\077\136\307\266\007\356\076\300\316\232\257
\254\126\102\052\071\045\160\326\277\265\173\066\255\254\366\163
\334\315\327\035\212\203\245\373\053\220\025\067\153\034\046\107
\334\073\051\126\223\152\263\301\152\072\235\075\365\301\227\070
\130\005\213\034\021\343\344\264\270\135\205\035\203\376\170\137
\013\105\150\030\110\245\106\163\064\073\376\017\310\166\273\307
\030\363\005\321\206\363\205\355\347\271\331\062\255\125\210\316
\246\266\221\260\117\254\176\025\043\226\366\077\360\040\064\026
\336\012\306\304\004\105\171\177\247\375\276\322\251\245\257\234
\305\043\052\367\074\041\154\275\257\217\116\305\072\262\363\064
\022\374\337\200\032\111\244\324\251\225\367\236\211\136\242\211
\254\224\313\250\150\233\257\212\145\047\315\211\356\335\214\265
\153\051\160\103\240\151\013\344\271\017\002\003\001\000\001\243
```

```
\102\060\100\060\035\006\003\125\035\016\004\026\004\024\376\241
\340\160\036\052\003\071\122\132\102\276\134\221\205\172\030\252
\115\265\060\016\006\003\125\035\017\001\001\377\004\004\003\002
\001\006\060\017\006\003\125\035\023\001\001\377\004\005\060\003
\001\001\377\060\015\006\011\052\206\110\206\367\015\001\001\013
\005\000\003\202\001\001\000\302\112\126\372\025\041\173\050\242
\351\345\035\373\370\055\304\071\226\101\114\073\047\054\304\154
\030\025\200\306\254\257\107\131\057\046\013\343\066\260\357\073
\376\103\227\111\062\231\022\025\133\337\021\051\377\253\123\370
\273\301\170\017\254\234\123\257\127\275\150\214\075\151\063\360
\243\240\043\143\073\144\147\042\104\255\325\161\313\126\052\170
\222\243\117\022\061\066\066\342\336\376\000\304\243\140\017\047
\255\240\260\212\265\066\172\122\241\275\047\364\040\047\142\350
\115\224\044\023\344\012\004\351\074\253\056\310\103\011\112\306
\141\004\345\111\064\176\323\304\310\365\017\300\252\351\272\124
\136\363\143\053\117\117\120\324\376\271\173\231\214\075\300\056
\274\002\053\323\304\100\344\212\007\061\036\233\316\046\231\023
\373\021\352\232\042\014\021\031\307\136\033\201\120\060\310\226
\022\156\347\313\101\177\221\073\242\107\267\124\200\033\334\000
\314\232\220\352\303\303\120\006\142\014\060\300\025\110\247\250
\131\174\341\256\042\242\342\012\172\017\372\142\253\122\114\341
\361\337\312\276\203\015\102
```

END

CKA\_NSS\_MOZILLA\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "emSign Root CA - C1"

# Issuer: CN=emSign Root CA - C1,O=eMudhra Inc,OU=emSign PKI,C=US

# Serial Number:00:ae:cf:00:ba:c4:cf:32:f8:43:b2

# Subject: CN=emSign Root CA - C1,O=eMudhra Inc,OU=emSign PKI,C=US

# Not Valid Before: Sun Feb 18 18:30:00 2018

# Not Valid After : Wed Feb 18 18:30:00 2043

# Fingerprint (SHA-256):

12:56:09:AA:30:1D:A0:A2:49:B9:7A:82:39:CB:6A:34:21:6F:44:DC:AC:9F:39:54:B1:42:92:F2:E8:C8:60:8F

# Fingerprint (SHA1): E7:2E:F1:DF:FC:B2:09:28:CF:5D:D4:D5:67:37:B1:51:CB:86:4F:01

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "emSign Root CA - C1"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

```
\347\056\361\337\374\262\011\050\317\135\324\325\147\067\261\121
\313\206\117\001
```

END

CKA\_CERT\_MD5\_HASH

```

MULTILINE_OCTAL
\330\343\135\001\041\372\170\132\260\337\272\322\356\052\137\150
END
CKA_ISSUER MULTILINE_OCTAL
\060\126\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147\156
\040\120\113\111\061\024\060\022\006\003\125\004\012\023\013\145
\115\165\144\150\162\141\040\111\156\143\061\034\060\032\006\003
\125\004\003\023\023\145\155\123\151\147\156\040\122\157\157\164
\040\103\101\040\055\040\103\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\013\000\256\317\000\272\304\317\062\370\103\262
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "emSign ECC Root CA - C3"
#
Issuer: CN=emSign ECC Root CA - C3,O=eMudhra Inc,OU=emSign PKI,C=US
Serial Number:7b:71:b6:82:56:b8:12:7c:9c:a8
#
Subject: CN=emSign ECC Root CA - C3,O=eMudhra Inc,OU=emSign PKI,C=US
Not Valid Before: Sun Feb 18 18:30:00 2018
Not Valid After : Wed Feb 18 18:30:00 2043
Fingerprint (SHA-256):
BC:4D:80:9B:15:18:9D:78:DB:3E:1D:8C:F4:F9:72:6A:79:5D:A1:64:3C:A5:F1:35:8E:1D:DB:0E:DC:0D:7E:B3
Fingerprint (SHA1): B6:AF:43:C2:9B:81:53:7D:F6:EF:6B:C3:1F:1F:60:15:0C:EE:48:66
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "emSign ECC Root CA - C3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\132\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147\156
\040\120\113\111\061\024\060\022\006\003\125\004\012\023\013\145
\115\165\144\150\162\141\040\111\156\143\061\040\060\036\006\003
\125\004\003\023\027\145\155\123\151\147\156\040\105\103\103\040
\122\157\157\164\040\103\101\040\055\040\103\063
END
CKA_ID
UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL

```

\060\132\061\013\060\011\006\003\125\004\006\023\002\125\123\061  
\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147\156  
\040\120\113\111\061\024\060\022\006\003\125\004\012\023\013\145  
\115\165\144\150\162\141\040\111\156\143\061\040\060\036\006\003  
\125\004\003\023\027\145\155\123\151\147\156\040\105\103\103\040  
\122\157\157\164\040\103\101\040\055\040\103\063

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

\002\012\173\161\266\202\126\270\022\174\234\250

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\002\053\060\202\001\261\240\003\002\001\002\002\012\173  
\161\266\202\126\270\022\174\234\250\060\012\006\010\052\206\110  
\316\075\004\003\003\060\132\061\013\060\011\006\003\125\004\006  
\023\002\125\123\061\023\060\021\006\003\125\004\013\023\012\145  
\155\123\151\147\156\040\120\113\111\061\024\060\022\006\003\125  
\004\012\023\013\145\115\165\144\150\162\141\040\111\156\143\061  
\040\060\036\006\003\125\004\003\023\027\145\155\123\151\147\156  
\040\105\103\103\040\122\157\157\164\040\103\101\040\055\040\103  
\063\060\036\027\015\061\070\060\062\061\070\061\070\063\060\060\060  
\060\132\027\015\064\063\060\062\061\070\061\070\063\060\060\060  
\132\060\132\061\013\060\011\006\003\125\004\006\023\002\125\123  
\061\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147  
\156\040\120\113\111\061\024\060\022\006\003\125\004\012\023\013  
\145\115\165\144\150\162\141\040\111\156\143\061\040\060\036\006  
\003\125\004\003\023\027\145\155\123\151\147\156\040\105\103\103  
\040\122\157\157\164\040\103\101\040\055\040\103\063\060\166\060  
\020\006\007\052\206\110\316\075\002\001\006\005\053\201\004\000  
\042\003\142\000\004\375\245\141\256\173\046\020\035\351\267\042  
\060\256\006\364\201\263\261\102\161\225\071\274\323\122\343\257  
\257\371\362\227\065\222\066\106\016\207\225\215\271\071\132\351  
\273\337\320\376\310\007\101\074\273\125\157\203\243\152\373\142  
\260\201\211\002\160\175\110\305\112\343\351\042\124\042\115\223  
\273\102\014\257\167\234\043\246\175\327\141\021\316\145\307\370  
\177\376\365\362\251\243\102\060\100\060\035\006\003\125\035\016  
\004\026\004\024\373\132\110\320\200\040\100\362\250\351\000\007  
\151\031\167\247\346\303\364\317\060\016\006\003\125\035\017\001  
\001\377\004\004\003\002\001\006\060\017\006\003\125\035\023\001  
\001\377\004\005\060\003\001\001\377\060\012\006\010\052\206\110  
\316\075\004\003\003\003\150\000\060\145\002\061\000\264\330\057  
\002\211\375\266\114\142\272\103\116\023\204\162\265\256\335\034  
\336\326\265\334\126\217\130\100\132\055\336\040\114\042\203\312  
\223\250\176\356\022\100\307\326\207\117\370\337\205\002\060\034  
\024\144\344\174\226\203\021\234\260\321\132\141\113\246\017\111  
\323\000\374\241\374\344\245\377\177\255\327\060\320\307\167\177  
\276\201\007\125\060\120\040\024\365\127\070\012\250\061\121

END

CKA\_NSS\_MOZILLA\_CA\_POLICY

```

CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "emSign ECC Root CA - C3"
Issuer: CN=emSign
ECC Root CA - C3,O=eMudhra Inc,OU=emSign PKI,C=US
Serial Number:7b:71:b6:82:56:b8:12:7c:9c:a8
Subject: CN=emSign ECC Root CA - C3,O=eMudhra Inc,OU=emSign PKI,C=US
Not Valid Before: Sun Feb 18 18:30:00 2018
Not Valid After : Wed Feb 18 18:30:00 2043
Fingerprint (SHA-256):
BC:4D:80:9B:15:18:9D:78:DB:3E:1D:8C:F4:F9:72:6A:79:5D:A1:64:3C:A5:F1:35:8E:1D:DB:0E:DC:0D:7E:B3
Fingerprint (SHA1): B6:AF:43:C2:9B:81:53:7D:F6:EF:6B:C3:1F:60:15:0C:EE:48:66
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "emSign ECC Root CA - C3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\266\257\103\302\233\201\123\175\366\357\153\303\037\037\140\025
\014\356\110\146
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\076\123\263\243\201\356\327\020\370\323\260\035\027\222\365\325
END
CKA_ISSUER MULTILINE_OCTAL
\060\132\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147\156
\040\120\113\111\061\024\060\022\006\003\125\004\012\023\013\145
\115\165\144\150\162\141\040\111\156\143\061\040\060\036\006\003
\125\004\003\023\027\145\155\123\151\147\156\040\105\103\103\040
\122\157\157\164\040\103\101\040\055\040\103\063
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\012\173\161\266\202\126\270\022\174\234\250
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Hongkong Post Root CA 3"
#
Issuer: CN=Hongkong Post Root CA 3,O=Hongkong Post,L=Hong Kong,ST=Hong Kong,C=HK
Serial Number:08:16:5f:8a:4c:a5:ec:00:c9:93:40:df:c4:c6:ae:23:b8:1c:5a:a4

```

```
Subject: CN=Hongkong Post Root CA 3,O=Hongkong Post,L=Hong Kong,ST=Hong Kong,C=HK
Not Valid Before: Sat Jun 03 02:29:46 2017
Not Valid After : Tue Jun 03 02:29:46 2042
Fingerprint (SHA-256):
5A:2F:C0:3F:0C:83:B0:90:BB:FA:40:60:4B:09:88:44:6C:76:36:18:3D:F9:84:6E:17:10:1A:44:7F:B8:EF:D6
#
Fingerprint (SHA1): 58:A2:D0:EC:20:52:81:5B:C1:F3:F8:64:02:24:4E:C2:8E:02:4B:02
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Hongkong Post Root CA 3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\157\061\013\060\011\006\003\125\004\006\023\002\110\113\061
\022\060\020\006\003\125\004\010\023\011\110\157\156\147\040\113
\157\156\147\061\022\060\020\006\003\125\004\007\023\011\110\157
\156\147\040\113\157\156\147\061\026\060\024\006\003\125\004\012
\023\015\110\157\156\147\153\157\156\147\040\120\157\163\164\061
\040\060\036\006\003\125\004\003\023\027\110\157\156\147\153\157
\156\147\040\120\157\163\164\040\122\157\157\164\040\103\101\040
\063
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\157\061\013\060\011\006\003\125\004\006\023\002\110\113\061
\022\060\020\006\003\125\004\010\023\011\110\157\156\147\040\113
\157\156\147\061\022\060\020\006\003\125\004\007\023\011\110\157
\156\147\040\113\157\156\147\061\026\060\024\006\003\125\004\012
\023\015\110\157\156\147\153\157\156\147\040\120\157\163\164\061
\040\060\036\006\003\125\004\003\023\027\110\157\156\147\153\157
\156\147\040\120\157\163\164\040\122\157\157\164\040\103\101\040
\063
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\024\010\026\137\212\114\245\354\000\311\223\100\337\304\306
\256\043\270\034\132\244
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\317\060\202\003\267\240\003\002\001\002\002\024\010
\026\137\212\114\245\354\000\311\223\100\337\304\306\256\043\270
\034\132\244\060\015\006\011\052\206\110\206\367\015\001\001\013
\005\000\060\157\061\013\060\011\006\003\125\004\006\023\002\110
\113\061\022\060\020\006\003\125\004\010\023\011\110\157\156\147
\040\113\157\156\147\061\022\060\020\006\003\125\004\007\023\011
\110\157\156\147\040\113\157\156\147\061\026\060\024\006\003\125
\004\012\023\015\110\157\156\147\153\157\156\147\040\120\157\163
```



\164\061\040\060\036\006\003\125\004\003\023\027\110\157\156\147  
\153\157\156\147\040\120\157\163\164\040\122\157\157\164\040\103  
\101\040\063\060\036\027\015\061\067\060\066\060\063\060\062\062  
\071\064\066\132\027\015\064\062\060\066\060\063\060\062\062\071  
\064\066\132\060\157\061\013\060\011\006\003\125\004\006\023\002  
\110\113\061\022\060\020\006\003\125\004\010\023\011\110\157\156  
\147\040\113\157\156\147\061\022\060\020\006\003\125\004\007\023  
\011\110\157\156\147\040\113\157\156\147\061\026\060\024\006\003  
\125\004\012\023\015\110\157\156\147\153\157\156\147\040\120\157  
\163\164\061\040\060\036\006\003\125\004\003\023\027\110\157\156  
\147\153\157\156\147\040\120\157\163\164\040\122\157\157\164\040  
\103\101\040\063\060\202\002\042\060\015\006\011\052\206\110\206  
\367\015\001\001\001\005\000\003\202\002\017\000\060\202\002\012  
\002\202\002\001\000\263\210\327\352\316\017\040\116\276\346\326  
\003\155\356\131\374\302\127\337\051\150\241\203\016\076\150\307  
\150\130\234\034\140\113\211\103\014\271\324\025\262\356\301\116  
\165\351\265\247\357\345\351\065\231\344\314\034\347\113\137\215  
\063\060\040\063\123\331\246\273\325\076\023\216\351\037\207\111  
\255\120\055\120\312\030\276\001\130\242\023\160\226\273\211\210  
\126\200\134\370\275\054\074\341\114\127\210\273\323\271\225\357  
\313\307\366\332\061\164\050\246\346\124\211\365\101\061\312\345  
\046\032\315\202\340\160\332\073\051\273\325\003\365\231\272\125  
\365\144\321\140\016\263\211\111\270\212\057\005\322\204\105\050  
\174\217\150\120\022\170\374\013\265\123\313\302\230\034\204\243  
\236\260\276\043\244\332\334\310\053\036\332\156\105\036\211\230  
\332\371\000\056\006\351\014\073\160\325\120\045\210\231\313\315  
\163\140\367\325\377\065\147\305\241\274\136\253\315\112\270\105  
\353\310\150\036\015\015\024\106\022\343\322\144\142\212\102\230  
\274\264\306\010\010\370\375\250\114\144\234\166\001\275\057\251  
\154\063\017\330\077\050\270\074\151\001\102\206\176\151\301\311  
\006\312\345\172\106\145\351\302\326\120\101\056\077\267\344\355  
\154\327\277\046\001\021\242\026\051\112\153\064\006\220\354\023  
\322\266\373\152\166\322\074\355\360\326\055\335\341\025\354\243  
\233\057\054\311\076\053\344\151\073\377\162\045\261\066\206\133  
\307\177\153\213\125\033\112\305\040\141\075\256\313\120\341\010  
\072\276\260\217\143\101\123\060\010\131\074\230\035\167\272\143  
\221\172\312\020\120\140\277\360\327\274\225\207\217\227\305\376  
\227\152\001\224\243\174\133\205\035\052\071\072\320\124\241\321  
\071\161\235\375\041\371\265\173\360\342\340\002\217\156\226\044  
\045\054\240\036\054\250\304\211\247\357\355\231\006\057\266\012  
\114\117\333\242\314\067\032\257\107\205\055\212\137\304\064\064  
\114\000\375\030\223\147\023\321\067\346\110\264\213\006\305\127  
\173\031\206\012\171\313\000\311\122\257\102\377\067\217\341\243  
\036\172\075\120\253\143\006\347\025\265\077\266\105\067\224\067  
\261\176\362\110\303\177\305\165\376\227\215\105\217\032\247\032  
\162\050\032\100\017\002\003\001\000\001\243\143\060\141\060\017  
\006\003\125\035\023\001\001\377\004\005\060\003\001\001\377\060  
\016\006\003\125\035\017\001\001\377\004\004\003\002\001\006\060

\037\006\003\125\035\043\004\030\060\026\200\024\027\235\315\036  
\213\326\071\053\160\323\134\324\240\270\037\260\000\374\305\141  
\060\035\006\003\125\035\016\004\026\004\024\027\235\315\036\213  
\326\071\053\160\323\134\324\240\270\037\260\000\374\305\141\060  
\015\006\011\052\206\110\206\367\015\001\001\013\005\000\003\202  
\002\001\000\126\325\173\156\346\042\001\322\102\233\030\325\016  
\327\146\043\134\343\376\240\307\222\322\351\224\255\113\242\306  
\354\022\174\164\325\110\322\131\024\231\300\353\271\321\353\364  
\110\060\133\255\247\127\163\231\251\323\345\267\321\056\131\044  
\130\334\150\056\056\142\330\152\344\160\013\055\040\120\040\244  
\062\225\321\000\230\273\323\375\367\062\362\111\256\306\172\340  
\107\276\156\316\313\243\162\072\055\151\135\313\310\350\105\071  
\324\372\102\301\021\114\167\135\222\373\152\377\130\104\345\353  
\201\236\257\240\231\255\276\251\001\146\313\070\035\074\337\103  
\037\364\115\156\264\272\027\106\374\175\375\207\201\171\152\015  
\063\017\372\057\370\024\271\200\263\135\115\252\227\341\371\344  
\030\305\370\325\070\214\046\074\375\362\050\342\356\132\111\210  
\054\337\171\075\216\236\220\074\275\101\112\072\335\133\366\232  
\264\316\077\045\060\177\062\175\242\003\224\320\334\172\241\122  
\336\156\223\215\030\046\375\125\254\275\217\233\322\317\257\347  
\206\054\313\037\011\157\243\157\251\204\324\163\277\115\241\164  
\033\116\043\140\362\314\016\252\177\244\234\114\045\250\262\146  
\073\070\377\331\224\060\366\162\204\276\150\125\020\017\306\163  
\054\026\151\223\007\376\261\105\355\273\242\125\152\260\332\265  
\112\002\045\047\205\327\267\267\206\104\026\211\154\200\053\076  
\227\251\234\325\176\125\114\306\336\105\020\034\352\351\073\237  
\003\123\356\356\172\001\002\026\170\324\350\302\276\106\166\210  
\023\077\042\273\110\022\035\122\000\264\002\176\041\032\036\234  
\045\364\363\075\136\036\322\034\371\263\055\266\367\067\134\306  
\313\041\116\260\367\231\107\030\205\301\053\272\125\256\006\352  
\320\007\262\334\253\320\202\226\165\316\322\120\376\231\347\317  
\057\237\347\166\321\141\052\373\041\273\061\320\252\237\107\244  
\262\042\312\026\072\120\127\304\133\103\147\305\145\142\003\111  
\001\353\103\331\330\370\236\255\317\261\143\016\105\364\240\132  
\054\233\055\305\246\300\255\250\107\364\047\114\070\015\056\033  
\111\073\122\364\350\210\203\053\124\050\324\362\065\122\264\062  
\203\142\151\144\014\221\234\237\227\352\164\026\375\037\021\006  
\232\233\364

END

CKA\_NSS\_MOZILLA\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "Hongkong Post Root CA 3"

# Issuer: CN=Hongkong Post Root CA 3,O=Hongkong Post,L=Hong Kong,ST=Hong Kong,C=HK

# Serial Number:08:16:5f:8a:4c:a5:ec:00:c9:93:40:df:c4:c6:ae:23:b8:1c:5a:a4

# Subject: CN=Hongkong Post Root CA 3,O=Hongkong Post,L=Hong Kong,ST=Hong

```
Kong,C=HK
Not Valid Before: Sat Jun 03 02:29:46 2017
Not Valid After : Tue Jun 03 02:29:46 2042
Fingerprint (SHA-256):
5A:2F:C0:3F:0C:83:B0:90:BB:FA:40:60:4B:09:88:44:6C:76:36:18:3D:F9:84:6E:17:10:1A:44:7F:B8:EF:D6
Fingerprint (SHA1): 58:A2:D0:EC:20:52:81:5B:C1:F3:F8:64:02:24:4E:C2:8E:02:4B:02
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Hongkong Post Root CA 3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\130\242\320\354\040\122\201\133\301\363\370\144\002\044\116\302
\216\002\113\002
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\021\374\237\275\163\060\002\212\375\077\363\130\271\313\040\360
END
CKA_ISSUER MULTILINE_OCTAL
\060\157\061\013\060\011\006\003\125\004\006\023\002\110\113\061
\022\060\020\006\003\125\004\010\023\011\110\157\156\147\040\113
\157\156\147\061\022\060\020\006\003\125\004\007\023\011\110\157
\156\147\040\113\157\156\147\061\026\060\024\006\003\125\004\012
\023\015\110\157\156\147\153\157\156\147\040\120\157\163\164\061
\040\060\036\006\003\125\004\003\023\027\110\157\156\147\153\157
\156\147\040\120\157\163\164\040\122\157\157\164\040\103\101\040
\063
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\024\010\026\137\212\114\245\354\000\311\223\100\337\304\306
\256\043\270\034\132\244
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Entrust Root Certification Authority - G4"
#
Issuer: CN=Entrust Root Certification Authority - G4,OU="(c) 2015 Entrust, Inc. - for authorized use
only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US
Serial Number:00:d9:b5:43:7f:af:a9:39:0f:00:00:00:00:55:65:ad:58
Subject: CN=Entrust Root Certification Authority - G4,OU="(c) 2015 Entrust, Inc. - for authorized use
only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US
#
```

Not Valid Before: Wed May 27 11:11:16 2015  
# Not Valid After : Sun Dec 27 11:41:16 2037  
# Fingerprint (SHA-256):  
DB:35:17:D1:F6:73:2A:2D:5A:B9:7C:53:3E:C7:07:79:EE:32:70:A6:2F:B4:AC:42:38:37:24:60:E6:F0:1E:88  
# Fingerprint (SHA1): 14:88:4E:86:26:37:B0:26:AF:59:62:5C:40:77:EC:35:29:BA:96:01  
CKA\_CLASS CK\_OBJECT\_CLASS CKO\_CERTIFICATE  
CKA\_TOKEN CK\_BBOOL CK\_TRUE  
CKA\_PRIVATE CK\_BBOOL CK\_FALSE  
CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE  
CKA\_LABEL UTF8 "Entrust Root Certification Authority - G4"  
CKA\_CERTIFICATE\_TYPE CK\_CERTIFICATE\_TYPE CKC\_X\_509  
CKA\_SUBJECT MULTILINE\_OCTAL  
\060\201\276\061\013\060\011\006\003\125\004\006\023\002\125\123  
\061\026\060\024\006\003\125\004\012\023\015\105\156\164\162\165  
\163\164\054\040\111\156\143\056\061\050\060\046\006\003\125\004  
\013\023\037\123\145\145\040\167\167\167\056\145\156\164\162\165  
\163\164\056\156\145\164\057\154\145\147\141\154\055\164\145\162  
\155\163\061\071\060\067\006\003\125\004\013\023\060\050\143\051  
\040\062\060\061\065\040\105\156\164\162\165\163\164\054\040\111  
\156\143\056\040\055\040\146\157\162\040\141\165\164\150\157\162  
\151\172\145\144\040\165\163\145\040\157\156\154\171\061\062\060  
\060\006\003\125\004\003\023\051\105\156\164\162\165\163\164\040  
\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164\151  
\157\156\040\101\165\164\150\157\162\151\164\171\040\055\040\107  
\064  
END  
CKA\_ID  
UTF8 "0"  
CKA\_ISSUER MULTILINE\_OCTAL  
\060\201\276\061\013\060\011\006\003\125\004\006\023\002\125\123  
\061\026\060\024\006\003\125\004\012\023\015\105\156\164\162\165  
\163\164\054\040\111\156\143\056\061\050\060\046\006\003\125\004  
\013\023\037\123\145\145\040\167\167\167\056\145\156\164\162\165  
\163\164\056\156\145\164\057\154\145\147\141\154\055\164\145\162  
\155\163\061\071\060\067\006\003\125\004\013\023\060\050\143\051  
\040\062\060\061\065\040\105\156\164\162\165\163\164\054\040\111  
\156\143\056\040\055\040\146\157\162\040\141\165\164\150\157\162  
\151\172\145\144\040\165\163\145\040\157\156\154\171\061\062\060  
\060\006\003\125\004\003\023\051\105\156\164\162\165\163\164\040  
\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164\151  
\157\156\040\101\165\164\150\157\162\151\164\171\040\055\040\107  
\064  
END  
CKA\_SERIAL\_NUMBER  
MULTILINE\_OCTAL  
\002\021\000\331\265\103\177\257\251\071\017\000\000\000\000\125  
\145\255\130  
END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\006\113\060\202\004\063\240\003\002\001\002\002\021\000  
\331\265\103\177\257\251\071\017\000\000\000\000\125\145\255\130  
\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060  
\201\276\061\013\060\011\006\003\125\004\006\023\002\125\123\061  
\026\060\024\006\003\125\004\012\023\015\105\156\164\162\165\163  
\164\054\040\111\156\143\056\061\050\060\046\006\003\125\004\013  
\023\037\123\145\145\040\167\167\167\056\145\156\164\162\165\163  
\164\056\156\145\164\057\154\145\147\141\154\055\164\145\162\155  
\163\061\071\060\067\006\003\125\004\013\023\060\050\143\051\040  
\062\060\061\065\040\105\156\164\162\165\163\164\054\040\111\156  
\143\056\040\055\040\146\157\162\040\141\165\164\150\157\162\151  
\172\145\144\040\165\163\145\040\157\156\154\171\061\062\060\060  
\006\003\125\004\003\023\051\105\156\164\162\165\163\164\040\122  
\157\157\164\040\103\145\162\164\151\146\151\143\141\164\151\157  
\156\040\101\165\164\150\157\162\151\164\171\040\055\040\107\064  
\060\036\027\015\061\065\060\065\062\067\061\061\061\061\061\066  
\132\027\015\063\067\061\062\062\067\061\061\064\061\061\066\132  
\060\201\276\061\013\060\011\006\003\125\004\006\023\002\125\123  
\061\026\060\024\006\003\125\004\012\023\015\105\156\164\162\165  
\163\164\054\040\111\156\143\056\061\050\060\046\006\003\125\004  
\013\023\037\123\145\145\040\167\167\167\056\145\156\164\162\165  
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\155\163\061\071\060\067\006\003\125\004\013\023\060\050\143\051  
\040\062\060\061\065\040\105\156\164\162\165\163\164\054\040\111  
\156\143\056\040\055\040\146\157\162\040\141\165\164\150\157\162  
\151\172\145\144\040\165\163\145\040\157\156\154\171\061\062\060  
\060\006\003\125\004\003\023\051\105\156\164\162\165\163\164\040  
\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164\151  
\157\156\040\101\165\164\150\157\162\151\164\171\040\055\040\107  
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\001\001\005\000\003\202\002\017\000\060\202\002\012\002\202\002  
\001\000\261\354\054\102\356\342\321\060\377\245\222\107\342\055  
\303\272\144\227\155\312\367\015\265\131\301\263\313\250\150\031  
\330\257\204\155\060\160\135\176\363\056\322\123\231\341\376\037  
\136\331\110\257\135\023\215\333\377\143\063\115\323\000\002\274  
\304\370\321\006\010\224\171\130\212\025\336\051\263\375\375\304  
\117\350\252\342\240\073\171\315\277\153\103\062\335\331\164\020  
\271\367\364\150\324\273\320\207\325\252\113\212\052\157\052\004  
\265\262\246\307\240\172\346\110\253\322\321\131\314\326\176\043  
\346\227\154\360\102\345\334\121\113\025\101\355\111\112\311\336  
\020\227\326\166\301\357\245\265\066\024\227\065\330\170\042\065  
\122\357\103\275\333\047\333\141\126\202\064\334\313\210\140\014  
\013\132\345\054\001\306\124\257\327\252\301\020\173\322\005\132  
\270\100\236\206\247\303\220\206\002\126\122\011\172\234\322\047  
\202\123\112\145\122\152\365\074\347\250\362\234\257\213\275\323  
\016\324\324\136\156\207\236\152\075\105\035\321\135\033\364\351  
\012\254\140\231\373\211\264\377\230\054\317\174\035\351\002\252

\004\232\036\270\334\210\156\045\263\154\146\367\074\220\363\127  
\301\263\057\365\155\362\373\312\241\370\051\235\106\213\263\152  
\366\346\147\007\276\054\147\012\052\037\132\262\076\127\304\323  
\041\041\143\145\122\221\033\261\231\216\171\176\346\353\215\000  
\331\132\252\352\163\350\244\202\002\107\226\376\133\216\124\141  
\243\353\057\113\060\260\213\043\165\162\174\041\074\310\366\361  
\164\324\034\173\243\005\125\356\273\115\073\062\276\232\167\146  
\236\254\151\220\042\007\037\141\072\226\276\345\232\117\314\005  
\074\050\131\323\301\014\124\250\131\141\275\310\162\114\350\334  
\237\207\177\275\234\110\066\136\225\243\016\271\070\044\125\374  
\165\146\353\002\343\010\064\051\112\306\343\053\057\063\240\332  
\243\206\245\022\227\375\200\053\332\024\102\343\222\275\076\362  
\135\136\147\164\056\034\210\107\051\064\137\342\062\250\234\045  
\067\214\272\230\000\227\213\111\226\036\375\045\212\254\334\332  
\330\135\164\156\146\260\377\104\337\241\030\306\276\110\057\067  
\224\170\370\225\112\077\177\023\136\135\131\375\164\206\103\143  
\163\111\002\003\001\000\001\243\102\060\100\060\017\006\003\125  
\035\023\001\001\377\004\005\060\003\001\001\377\060\016\006\003  
\125\035\017\001\001\377\004\004\003\002\001\006\060\035\006\003  
\125\035\016\004\026\004\024\237\070\304\126\043\303\071\350\240  
\161\154\350\124\114\344\350\072\261\277\147\060\015\006\011\052  
\206\110\206\367\015\001\001\013\005\000\003\202\002\001\000\022  
\345\102\246\173\213\017\014\344\106\245\266\140\100\207\214\045  
\176\255\270\150\056\133\306\100\166\074\003\370\311\131\364\363  
\253\142\316\020\215\264\132\144\214\150\300\260\162\103\064\322  
\033\013\366\054\123\322\312\220\113\206\146\374\252\203\042\364  
\213\032\157\046\110\254\166\167\010\277\305\230\134\364\046\211  
\236\173\303\271\144\062\001\177\323\303\335\130\155\354\261\253  
\204\125\164\167\204\004\047\122\153\206\114\316\335\271\145\377  
\326\306\136\237\232\020\231\113\165\152\376\152\351\227\040\344  
\344\166\172\306\320\044\252\220\315\040\220\272\107\144\373\177  
\007\263\123\170\265\012\142\362\163\103\316\101\053\201\152\056  
\205\026\224\123\324\153\137\162\042\253\121\055\102\325\000\234  
\231\277\336\273\224\073\127\375\232\365\206\313\126\073\133\210  
\001\345\174\050\113\003\371\111\203\174\262\177\174\343\355\216  
\241\177\140\123\216\125\235\120\064\022\017\267\227\173\154\207  
\112\104\347\365\155\354\200\067\360\130\031\156\112\150\166\360  
\037\222\344\352\265\222\323\141\121\020\013\255\247\331\137\307  
\137\334\037\243\134\214\241\176\233\267\236\323\126\157\146\136  
\007\226\040\355\013\164\373\146\116\213\021\025\351\201\111\176  
\157\260\324\120\177\042\327\137\145\002\015\246\364\205\036\330  
\256\006\113\112\247\322\061\146\302\370\316\345\010\246\244\002  
\226\104\150\127\304\325\063\317\031\057\024\304\224\034\173\244  
\331\360\237\016\261\200\342\321\236\021\144\251\210\021\072\166  
\202\345\142\302\200\330\244\203\355\223\357\174\057\220\260\062  
\114\226\025\150\110\122\324\231\010\300\044\350\034\343\263\245  
\041\016\222\300\220\037\317\040\137\312\073\070\307\267\155\072  
\363\346\104\270\016\061\153\210\216\160\353\234\027\122\250\101

```
\224\056\207\266\347\246\022\305\165\337\133\300\012\156\173\244
\344\136\206\371\066\224\337\167\303\351\015\300\071\361\171\273
\106\216\253\103\131\047\267\040\273\043\351\126\100\041\354\061
\075\145\252\103\362\075\337\160\104\341\272\115\046\020\073\230
\237\363\310\216\033\070\126\041\152\121\223\323\221\312\106\332
\211\267\075\123\203\054\010\037\213\217\123\335\377\254\037
```

END

CKA\_NSS\_MOZILLA\_CA\_POLICY

CK\_BBOOL CK\_TRUE

# Trust for "Entrust Root Certification Authority - G4"

#

Issuer: CN=Entrust Root Certification Authority - G4,OU="(c) 2015 Entrust, Inc. - for authorized use only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US

# Serial Number:00:d9:b5:43:7f:af:a9:39:0f:00:00:00:00:55:65:ad:58

# Subject: CN=Entrust Root Certification Authority - G4,OU="(c) 2015 Entrust, Inc. - for authorized use only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US

# Not Valid Before: Wed May 27 11:11:16 2015

# Not Valid After : Sun Dec 27 11:41:16 2037

# Fingerprint (SHA-256):

DB:35:17:D1:F6:73:2A:2D:5A:B9:7C:53:3E:C7:07:79:EE:32:70:A6:2F:B4:AC:42:38:37:24:60:E6:F0:1E:88

# Fingerprint (SHA1): 14:88:4E:86:26:37:B0:26:AF:59:62:5C:40:77:EC:35:29:BA:96:01

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "Entrust Root Certification Authority - G4"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

```
\024\210\116\206\046\067\260\046\257\131\142\134\100\167\354\065
\051\272\226\001
```

END

CKA\_CERT\_MD5\_HASH

MULTILINE\_OCTAL

```
\211\123\361\203\043\267\174\216\005\361\214\161\070\116\037\210
```

END

CKA\_ISSUER MULTILINE\_OCTAL

```
\060\201\276\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\026\060\024\006\003\125\004\012\023\015\105\156\164\162\165
\163\164\054\040\111\156\143\056\061\050\060\046\006\003\125\004
\013\023\037\123\145\145\040\167\167\167\056\145\156\164\162\165
\163\164\056\156\145\164\057\154\145\147\141\154\055\164\145\162
\155\163\061\071\060\067\006\003\125\004\013\023\060\050\143\051
\040\062\060\061\065\040\105\156\164\162\165\163\164\054\040\111
\156\143\056\040\055\040\146\157\162\040\141\165\164\150\157\162
\151\172\145\144\040\165\163\145\040\157\156\154\171\061\062\060
\060\006\003\125\004\003\023\051\105\156\164\162\165\163\164\040
\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164\151
\157\156\040\101\165\164\150\157\162\151\164\171\040\055\040\107
```

```

\064
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\021\000\331\265\103\177\257\251\071\017\000\000\000\125
\145\255\130
END
CKA_TRUST_SERVER_AUTH
CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Microsoft ECC Root Certificate Authority 2017"
#
Issuer: CN=Microsoft ECC Root Certificate Authority 2017,O=Microsoft Corporation,C=US
Serial Number:66:f2:3d:af:87:de:8b:b1:4a:ea:0c:57:31:01:c2:ec
Subject: CN=Microsoft ECC Root Certificate Authority 2017,O=Microsoft Corporation,C=US
Not Valid Before: Wed Dec 18 23:06:45 2019
Not Valid After : Fri Jul 18 23:16:04 2042
Fingerprint (SHA-256):
35:8D:F3:9D:76:4A:F9:E1:B7:66:E9:C9:72:DF:35:2E:E1:5C:FA:C2:27:AF:6A:D1:D7:0E:8E:4A:6E:DC:BA:02
Fingerprint (SHA1): 99:9A:64:C3:7F:F4:7D:9F:AB:95:F1:47:69:89:14:60:EE:C4:C3:C5
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL
UTF8 "Microsoft ECC Root Certificate Authority 2017"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\145\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\036\060\034\006\003\125\004\012\023\025\115\151\143\162\157\163
\157\146\164\040\103\157\162\160\157\162\141\164\151\157\156\061
\066\060\064\006\003\125\004\003\023\055\115\151\143\162\157\163
\157\146\164\040\105\103\103\040\122\157\157\164\040\103\145\162
\164\151\146\151\143\141\164\145\040\101\165\164\150\157\162\151
\164\171\040\062\060\061\067
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\145\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\036\060\034\006\003\125\004\012\023\025\115\151\143\162\157\163
\157\146\164\040\103\157\162\160\157\162\141\164\151\157\156\061
\066\060\064\006\003\125\004\003\023\055\115\151\143\162\157\163
\157\146\164\040\105\103\103\040\122\157\157\164\040\103\145\162
\164\151\146\151\143\141\164\145\040\101\165\164\150\157\162\151
\164\171\040\062\060\061\067

```



END

CKA\_SERIAL\_NUMBER

MULTILINE\_OCTAL

\002\020\146\362\075\257\207\336\213\261\112\352\014\127\061\001  
\302\354

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\002\131\060\202\001\337\240\003\002\001\002\002\020\146  
\362\075\257\207\336\213\261\112\352\014\127\061\001\302\354\060  
\012\006\010\052\206\110\316\075\004\003\003\060\145\061\013\060  
\011\006\003\125\004\006\023\002\125\123\061\036\060\034\006\003  
\125\004\012\023\025\115\151\143\162\157\163\157\146\164\040\103  
\157\162\160\157\162\141\164\151\157\156\061\066\060\064\006\003  
\125\004\003\023\055\115\151\143\162\157\163\157\146\164\040\105  
\103\103\040\122\157\157\164\040\103\145\162\164\151\146\151\143  
\141\164\145\040\101\165\164\150\157\162\151\164\171\040\062\060  
\061\067\060\036\027\015\061\071\061\062\061\070\062\063\060\066  
\064\065\132\027\015\064\062\060\067\061\070\062\063\061\066\060  
\064\132\060\145\061\013\060\011\006\003\125\004\006\023\002\125  
\123\061\036\060\034\006\003\125\004\012\023\025\115\151\143\162  
\157\163\157\146\164\040\103\157\162\160\157\162\141\164\151\157  
\156\061\066\060\064\006\003\125\004\003\023\055\115\151\143\162  
\157\163\157\146\164\040\105\103\103\040\122\157\157\164\040\103  
\145\162\164\151\146\151\143\141\164\145\040\101\165\164\150\157  
\162\151\164\171\040\062\060\061\067\060\166\060\020\006\007\052  
\206\110\316\075\002\001\006\005\053\201\004\000\042\003\142\000  
\004\324\274\075\002\102\165\101\023\043\315\200\004\206\002\121  
\057\152\250\201\142\013\145\314\366\312\235\036\157\112\146\121  
\242\003\331\235\221\372\266\026\261\214\156\336\174\315\333\171  
\246\057\316\273\316\161\057\345\245\253\050\354\143\004\146\231  
\370\372\362\223\020\005\341\201\050\102\343\306\150\364\346\033  
\204\140\112\211\257\355\171\017\073\316\361\366\104\365\001\170  
\300\243\124\060\122\060\016\006\003\125\035\017\001\001\377\004  
\004\003\002\001\206\060\017\006\003\125\035\023\001\001\377\004  
\005\060\003\001\001\377\060\035\006\003\125\035\016\004\026\004  
\024\310\313\231\162\160\122\014\370\346\276\262\004\127\051\052  
\317\102\020\355\065\060\020\006\011\053\006\001\004\001\202\067  
\025\001\004\003\002\001\000\060\012\006\010\052\206\110\316\075  
\004\003\003\003\150\000\060\145\002\060\130\362\115\352\014\371  
\137\136\356\140\051\313\072\362\333\326\062\204\031\077\174\325  
\057\302\261\314\223\256\120\273\011\062\306\306\355\176\311\066  
\224\022\344\150\205\006\242\033\320\057\002\061\000\231\351\026  
\264\016\372\126\110\324\244\060\026\221\170\333\124\214\145\001  
\212\347\120\146\302\061\267\071\272\270\032\042\007\116\374\153  
\124\026\040\377\053\265\347\114\014\115\246\117\163

END

CKA\_NSS\_MOZILLA\_CA\_POLICY

```

CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "Microsoft ECC Root Certificate Authority 2017"
Issuer: CN=Microsoft ECC Root Certificate Authority 2017,O=Microsoft Corporation,C=US
Serial Number:66:f2:3d:af:87:de:8b:b1:4a:ea:0c:57:31:01:c2:ec
Subject: CN=Microsoft
 ECC Root Certificate Authority 2017,O=Microsoft Corporation,C=US
Not Valid Before: Wed Dec 18 23:06:45 2019
Not Valid After : Fri Jul 18 23:16:04 2042
Fingerprint (SHA-256):
35:8D:F3:9D:76:4A:F9:E1:B7:66:E9:C9:72:DF:35:2E:E1:5C:FA:C2:27:AF:6A:D1:D7:0E:8E:4A:6E:DC:BA:02
Fingerprint (SHA1): 99:9A:64:C3:7F:F4:7D:9F:AB:95:F1:47:69:89:14:60:EE:C4:C3:C5
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Microsoft ECC Root Certificate Authority 2017"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\231\232\144\303\177\364\175\237\253\225\361\107\151\211\024\140
\356\304\303\305
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\335\241\003\346\112\223\020\321\277\360\031\102\313\376\355\147
END
CKA_ISSUER MULTILINE_OCTAL
\060\145\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\036\060\034\006\003\125\004\012\023\025\115\151\143\162\157\163
\157\146\164\040\103\157\162\160\157\162\141\164\151\157\156\061
\066\060\064\006\003\125\004\003\023\055\115\151\143\162\157\163
\157\146\164\040\105\103\103\040\122\157\157\164\040\103\145\162
\164\151\146\151\143\141\164\145\040\101\165\164\150\157\162\151
\164\171\040\062\060\061\067
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\020\146\362\075\257\207\336\213\261\112\352\014\127\061\001
\302\354
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Microsoft RSA Root Certificate Authority 2017"
#

```

```
Issuer: CN=Microsoft RSA Root Certificate Authority 2017,O=Microsoft Corporation,C=US
Serial Number:1e:d3:97:09:5f:d8:b4:b3:47:70:1e:aa:be:7f:45:b3
Subject: CN=Microsoft RSA Root Certificate Authority 2017,O=Microsoft Corporation,C=US
Not Valid Before: Wed Dec 18 22:51:22 2019
Not Valid After : Fri Jul 18 23:00:23 2042
Fingerprint (SHA-256):
C7:41:F7:0F:4B:2A:8D:88:BF:2E:71:C1:41:22:EF:53:EF:10:EB:A0:CF:A5:E6:4C:FA:20:F4:18:85:30:73:E0
#
Fingerprint (SHA1): 73:A5:E6:4A:3B:FF:83:16:FF:0E:DC:CC:61:8A:90:6E:4E:AE:4D:74
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Microsoft RSA Root Certificate Authority 2017"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\145\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\036\060\034\006\003\125\004\012\023\025\115\151\143\162\157\163
\157\146\164\040\103\157\162\160\157\162\141\164\151\157\156\061
\066\060\064\006\003\125\004\003\023\055\115\151\143\162\157\163
\157\146\164\040\122\123\101\040\122\157\157\164\040\103\145\162
\164\151\146\151\143\141\164\145\040\101\165\164\150\157\162\151
\164\171\040\062\060\061\067
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\145\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\036\060\034\006\003\125\004\012\023\025\115\151\143\162\157\163
\157\146\164\040\103\157\162\160\157\162\141\164\151\157\156\061
\066\060\064\006\003\125\004\003\023\055\115\151\143\162\157\163
\157\146\164\040\122\123\101\040\122\157\157\164\040\103\145\162
\164\151\146\151\143\141\164\145\040\101\165\164\150\157\162\151
\164\171\040\062\060\061\067
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\020\036\323\227\011\137\330\264\263\107\160\036\252\276\177
\105\263
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\250\060\202\003\220\240\003\002\001\002\002\020\036
\323\227\011\137\330\264\263\107\160\036\252\276\177\105\263\060
\015\006\011\052\206\110\206\367\015\001\001\014\005\000\060\145
\061\013\060\011\006\003\125\004\006\023\002\125\123\061\036\060
\034\006\003\125\004\012\023\025\115\151\143\162\157\163\157\146
\164\040\103\157\162\160\157\162\141\164\151\157\156\061\066\060
\064\006\003\125\004\003\023\055\115\151\143\162\157\163\157\146
\164\040\122\123\101\040\122\157\157\164\040\103\145\162\164\151
```

\146\151\143\141\164\145\040\101\165\164\150\157\162\151\164\171  
\040\062\060\061\067\060\036\027\015\061\071\061\062\061\070\062  
\062\065\061\062\062\132\027\015\064\062\060\067\061\070\062\063  
\060\060\062\063\132\060\145\061\013\060\011\006\003\125\004\006  
\023\002\125\123\061\036\060\034\006\003\125\004\012\023\025\115  
\151\143\162\157\163\157\146\164\040\103\157\162\160\157\162\141  
\164\151\157\156\061\066\060\064\006\003\125\004\003\023\055\115  
\151\143\162\157\163\157\146\164\040\122\123\101\040\122\157\157  
\164\040\103\145\162\164\151\146\151\143\141\164\145\040\101\165  
\164\150\157\162\151\164\171\040\062\060\061\067\060\202\002\042  
\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003  
\202\002\017\000\060\202\002\012\002\202\002\001\000\312\133\276  
\224\063\214\051\225\221\026\012\225\275\107\142\301\211\363\231  
\066\337\106\220\311\245\355\170\152\157\107\221\150\370\047\147  
\120\063\035\241\246\373\340\345\103\243\204\002\127\001\135\234  
\110\100\202\123\020\274\277\307\073\150\220\266\202\055\345\364  
\145\320\314\155\031\314\225\371\173\254\112\224\255\016\336\113  
\103\035\207\007\222\023\220\200\203\144\065\071\004\374\345\351  
\154\263\266\037\120\224\070\145\120\134\027\106\271\266\205\265  
\034\265\027\350\326\105\235\330\262\046\260\312\304\160\112\256  
\140\244\335\263\331\354\374\073\325\127\162\274\077\310\311\262  
\336\113\153\370\043\154\003\300\005\275\225\307\315\163\073\146  
\200\144\343\032\254\056\371\107\005\362\006\266\233\163\365\170  
\063\133\307\241\373\047\052\241\264\232\221\214\221\323\072\202  
\076\166\100\264\315\122\141\121\160\050\077\305\305\132\362\311  
\214\111\273\024\133\115\310\377\147\115\114\022\226\255\365\376  
\170\250\227\207\327\375\136\040\200\334\241\113\042\373\324\211  
\255\272\316\107\227\107\125\173\217\105\310\147\050\204\225\034  
\150\060\357\357\111\340\065\173\144\347\230\260\224\332\115\205  
\073\076\125\304\050\257\127\363\236\023\333\106\047\237\036\242  
\136\104\203\244\245\312\325\023\263\113\077\304\343\302\346\206  
\141\244\122\060\271\172\040\117\157\017\070\123\313\063\014\023  
\053\217\326\232\275\052\310\055\261\034\175\113\121\312\107\321  
\110\047\162\135\207\353\325\105\346\110\145\235\257\122\220\272  
\133\242\030\145\127\022\237\150\271\324\025\153\224\304\151\042  
\230\364\063\340\355\371\121\216\101\120\311\064\117\166\220\254  
\374\070\301\330\341\173\271\343\343\224\341\106\151\313\016\012  
\120\153\023\272\254\017\067\132\267\022\265\220\201\036\126\256  
\127\042\206\331\311\322\321\327\121\343\253\073\306\125\375\036  
\016\323\164\012\321\332\252\352\151\270\227\050\217\110\304\007  
\370\122\103\072\364\312\125\065\054\260\246\152\300\234\371\362  
\201\341\022\152\300\105\331\147\263\316\377\043\242\211\012\124  
\324\024\271\052\250\327\354\371\253\315\045\130\062\171\217\220  
\133\230\071\304\010\006\301\254\177\016\075\000\245\002\003\001  
\000\001\243\124\060\122\060\016\006\003\125\035\017\001\001\377  
\004\004\003\002\001\206\060\017\006\003\125\035\023\001\001\377  
\004\005\060\003\001\001\377\060\035\006\003\125\035\016\004\026  
\004\024\011\313\131\177\206\262\160\217\032\303\071\343\300\331

\351\277\273\115\262\043\060\020\006\011\053\006\001\004\001\202  
\067\025\001\004\003\002\001\000\060\015\006\011\052\206\110\206  
\367\015\001\001\014\005\000\003\202\002\001\000\254\257\076\135  
\302\021\226\211\216\243\347\222\326\227\025\270\023\242\246\102  
\056\002\315\026\005\131\047\312\040\350\272\270\350\032\354\115  
\250\227\126\256\145\103\261\217\000\233\122\315\125\315\123\071  
\155\142\114\213\015\133\174\056\104\277\203\020\217\363\123\202  
\200\303\117\072\307\156\021\077\346\343\026\221\204\373\155\204  
\177\064\164\255\211\247\316\271\327\327\237\204\144\222\276\225  
\241\255\011\123\063\335\356\012\352\112\121\216\157\125\253\272  
\265\224\106\256\214\177\330\242\120\045\145\140\200\106\333\063  
\004\256\154\265\230\164\124\045\334\223\344\370\343\125\025\075  
\270\155\303\012\244\022\301\151\205\156\337\144\361\123\231\341  
\112\165\040\235\225\017\344\326\334\003\361\131\030\350\107\211  
\262\127\132\224\266\251\330\027\053\027\111\345\166\313\301\126  
\231\072\067\261\377\151\054\221\221\223\341\337\114\243\067\166  
\115\241\237\370\155\036\035\323\372\354\373\364\105\035\023\155  
\317\367\131\345\042\047\162\053\206\363\127\273\060\355\044\115  
\334\175\126\273\243\263\370\064\171\211\301\340\362\002\141\367  
\246\374\017\273\034\027\013\256\101\331\174\275\047\243\375\056  
\072\321\223\224\261\163\035\044\213\257\133\040\211\255\267\147  
\146\171\365\072\306\246\226\063\376\123\222\310\106\261\021\221  
\306\231\177\217\311\326\146\061\040\101\020\207\055\014\326\301  
\257\064\230\312\144\203\373\023\127\321\301\360\074\172\214\245  
\301\375\225\041\240\161\301\223\147\161\022\352\217\210\012\151  
\031\144\231\043\126\373\254\052\056\160\276\146\304\014\204\357  
\345\213\363\223\001\370\152\220\223\147\113\262\150\243\265\142  
\217\351\077\214\172\073\136\017\347\214\270\306\174\357\067\375  
\164\342\310\117\063\162\341\224\071\155\275\022\257\276\014\116  
\160\174\033\157\215\263\062\223\163\104\026\155\350\364\367\340  
\225\200\217\226\135\070\244\364\253\336\012\060\207\223\330\115  
\000\161\142\105\047\113\072\102\204\133\177\145\267\147\064\122  
\055\234\026\153\252\250\330\173\243\102\114\161\307\014\312\076  
\203\344\246\357\267\001\060\136\121\243\171\365\160\151\246\101  
\104\017\206\260\054\221\306\075\352\256\017\204

END

CKA\_NSS\_MOZILLA\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "Microsoft RSA Root Certificate Authority 2017"

# Issuer: CN=Microsoft RSA Root Certificate Authority 2017,O=Microsoft Corporation,C=US

# Serial Number: 1e:d3:97:09:5f:d8:b4:b3:47:70:1e:aa:be:7f:45:b3

# Subject: CN=Microsoft RSA Root Certificate Authority 2017,O=Microsoft Corporation,C=US

# Not Valid Before: Wed Dec 18 22:51:22 2019

# Not Valid After : Fri Jul 18 23:00:23 2042

# Fingerprint (SHA-256):

C7:41:F7:0F:4B:2A:8D:88:BF:2E:71:C1:41:22:EF:53:EF:10:EB:A0:CF:A5:E6:4C:FA:20:F4:18:85:30:73:E0

#

Fingerprint (SHA1): 73:A5:E6:4A:3B:FF:83:16:FF:0E:DC:CC:61:8A:90:6E:4E:AE:4D:74

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "Microsoft RSA Root Certificate Authority 2017"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

\163\245\346\112\073\377\203\026\377\016\334\314\141\212\220\156  
\116\256\115\164

END

CKA\_CERT\_MD5\_HASH MULTILINE\_OCTAL

\020\377\000\377\317\311\370\307\172\300\356\065\216\311\017\107

END

CKA\_ISSUER MULTILINE\_OCTAL

\060\145\061\013\060\011\006\003\125\004\006\023\002\125\123\061  
\036\060\034\006\003\125\004\012\023\025\115\151\143\162\157\163  
\157\146\164\040\103\157\162\160\157\162\141\164\151\157\156\061  
\066\060\064\006\003\125\004\003\023\055\115\151\143\162\157\163  
\157\146\164\040\122\123\101\040\122\157\157\164\040\103\145\162  
\164\151\146\151\143\141\164\145\040\101\165\164\150\157\162\151  
\164\171\040\062\060\061\067

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

\002\020\036\323\227\011\137\330\264\263\107\160\036\252\276\177  
\105\263

END

CKA\_TRUST\_SERVER\_AUTH

CK\_TRUST CKT\_NSS\_TRUSTED\_DELEGATOR

CKA\_TRUST\_EMAIL\_PROTECTION CK\_TRUST CKT\_NSS\_MUST\_VERIFY\_TRUST

CKA\_TRUST\_CODE\_SIGNING CK\_TRUST CKT\_NSS\_MUST\_VERIFY\_TRUST

CKA\_TRUST\_STEP\_UP\_APPROVED CK\_BBOOL CK\_FALSE

#

# Certificate "e-Szigno Root CA 2017"

#

# Issuer: CN=e-Szigno Root CA 2017,OID.2.5.4.97=VATHU-23584497,O=Microsec Ltd.,L=Budapest,C=HU

# Serial Number:01:54:48:ef:21:fd:97:59:0d:f5:04:0a

# Subject: CN=e-Szigno Root CA 2017,OID.2.5.4.97=VATHU-23584497,O=Microsec Ltd.,L=Budapest,C=HU

# Not Valid Before: Tue Aug 22 12:07:06 2017

# Not Valid After : Fri Aug 22 12:07:06 2042

# Fingerprint (SHA-256):

BE:B0:0B:30:83:9B:9B:C3:2C:32:E4:44:79:05:95:06:41:F2:64:21:B1:5E:D0:89:19:8B:51:8A:E2:EA:1B:99

# Fingerprint (SHA1): 89:D4:83:03:4F:9E:9A:48:80:5F:72:37:D4:A9:A6:EF:CB:7C:1F:D1

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_CERTIFICATE

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

```
CKA_MODIFIABLE CK_BBOOL
CK_FALSE
CKA_LABEL UTF8 "e-Szigno Root CA 2017"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\161\061\013\060\011\006\003\125\004\006\023\002\110\125\061
\021\060\017\006\003\125\004\007\014\010\102\165\144\141\160\145
\163\164\061\026\060\024\006\003\125\004\012\014\015\115\151\143
\162\157\163\145\143\040\114\164\144\056\061\027\060\025\006\003
\125\004\141\014\016\126\101\124\110\125\055\062\063\065\070\064
\064\071\067\061\036\060\034\006\003\125\004\003\014\025\145\055
\123\172\151\147\156\157\040\122\157\157\164\040\103\101\040\062
\060\061\067
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\161\061\013\060\011\006\003\125\004\006\023\002\110\125\061
\021\060\017\006\003\125\004\007\014\010\102\165\144\141\160\145
\163\164\061\026\060\024\006\003\125\004\012\014\015\115\151\143
\162\157\163\145\143\040\114\164\144\056\061\027\060\025\006\003
\125\004\141\014\016\126\101\124\110\125\055\062\063\065\070\064
\064\071\067\061\036\060\034\006\003\125\004\003\014\025\145\055
\123\172\151\147\156\157\040\122\157\157\164\040\103\101\040\062
\060\061\067
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\014\001\124\110\357\041\375\227\131\015\365\004\012
END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\100\060\202\001\345\240\003\002\001\002\002\014\001
\124\110\357\041\375\227\131\015\365\004\012\060\012\006\010\052
\206\110\316\075\004\003\002\060\161\061\013\060\011\006\003\125
\004\006\023\002\110\125\061\021\060\017\006\003\125\004\007\014
\010\102\165\144\141\160\145\163\164\061\026\060\024\006\003\125
\004\012\014\015\115\151\143\162\157\163\145\143\040\114\164\144
\056\061\027\060\025\006\003\125\004\141\014\016\126\101\124\110
\125\055\062\063\065\070\064\064\071\067\061\036\060\034\006\003
\125\004\003\014\025\145\055\123\172\151\147\156\157\040\122\157
\157\164\040\103\101\040\062\060\061\067\060\036\027\015\061\067
\060\070\062\062\061\062\060\067\060\066\132\027\015\064\062\060
\070\062\062\061\062\060\067\060\066\132\060\161\061\013\060\011
\006\003\125\004\006\023\002\110\125\061\021\060\017\006\003\125
\004\007\014\010\102\165\144\141\160\145\163\164\061\026\060\024
\006\003\125\004\012\014\015\115\151\143\162\157\163\145\143\040
\114\164\144\056\061\027\060\025\006\003\125\004\141\014\016\126
\101\124\110\125\055\062\063\065\070\064\064\071\067\061\036\060
\034\006\003\125\004\003\014\025\145\055\123\172\151\147\156\157
```

```
\040\122\157\157\164\040\103\101\040\062\060\061\067\060\131\060
\023\006\007\052\206\110\316\075\002\001\006\010\052\206\110\316
\075\003\001\007\003\102\000\004\226\334\075\212\330\260\173\157
\306\047\276\104\220\261\263\126\025\173\216\103\044\175\032\204
\131\356\143\150\262\306\136\207\320\025\110\036\250\220\255\275
\123\242\332\336\072\220\246\140\137\150\062\265\206\101\337\207
\133\054\173\305\376\174\172\332\243\143\060\141\060\017\006\003
\125\035\023\001\001\377\004\005\060\003\001\001\377\060\016\006
\003\125\035\017\001\001\377\004\004\003\002\001\006\060\035\006
\003\125\035\016\004\026\004\024\207\021\025\010\321\252\301\170
\014\261\257\316\306\311\220\357\277\060\004\300\060\037\006\003
\125\035\043\004\030\060\026\200\024\207\021\025\010\321\252\301
\170\014\261\257\316\306\311\220\357\277\060\004\300\060\012\006
\010\052\206\110\316\075\004\003\002\003\111\000\060\106\002\041
\000\265\127\335\327\212\125\013\066\341\206\104\372\324\331\150
\215\270\334\043\212\212\015\324\057\175\352\163\354\277\115\154
\250\002\041\000\313\245\264\022\372\347\265\350\317\176\223\374
\363\065\217\157\116\132\174\264\274\116\262\374\162\252\133\131
\371\347\334\061
```

END

CKA\_NSS\_Mozilla\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "e-Szigno Root CA 2017"

# Issuer: CN=e-Szigno Root CA 2017,OID.2.5.4.97=VATHU-23584497,O=Microsec Ltd.,L=Budapest,C=HU

# Serial Number:01:54:48:ef:21:fd:97:59:0d:f5:04:0a

# Subject: CN=e-Szigno Root CA 2017,OID.2.5.4.97=VATHU-23584497,O=Microsec Ltd.,L=Budapest,C=HU

#

Not Valid Before: Tue Aug 22 12:07:06 2017

# Not Valid After : Fri Aug 22 12:07:06 2042

# Fingerprint (SHA-256):

BE:B0:0B:30:83:9B:9B:C3:2C:32:E4:44:79:05:95:06:41:F2:64:21:B1:5E:D0:89:19:8B:51:8A:E2:EA:1B:99

# Fingerprint (SHA1): 89:D4:83:03:4F:9E:9A:48:80:5F:72:37:D4:A9:A6:EF:CB:7C:1F:D1

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "e-Szigno Root CA 2017"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

```
\211\324\203\003\117\236\232\110\200\137\162\067\324\251\246\357
\313\174\037\321
```

END

CKA\_CERT\_MD5\_HASH MULTILINE\_OCTAL

```
\336\037\366\236\204\256\247\264\041\316\036\130\175\321\204\230
```

END

CKA\_ISSUER MULTILINE\_OCTAL



```
\060\161\061\013\060\011\006\003\125\004\006\023\002\110\125\061
\021\060\017\006\003\125\004\007\014\010\102\165\144\141\160\145
\163\164\061\026\060\024\006\003\125\004\012\014\015\115\151\143
\162\157\163\145\143\040\114\164\144\056\061\027\060\025\006\003
\125\004\141\014\016\126\101\124\110\125\055\062\063\065\070\064
\064\071\067\061\036\060\034\006\003\125\004\003\014\025\145\055
\123\172\151\147\156\157\040\122\157\157\164\040\103\101\040\062
\060\061\067
```

END

CKA\_SERIAL\_NUMBER

MULTILINE\_OCTAL

```
\002\014\001\124\110\357\041\375\227\131\015\365\004\012
```

END

CKA\_TRUST\_SERVER\_AUTH CK\_TRUST CKT\_NSS\_TRUSTED\_DELEGATOR

CKA\_TRUST\_EMAIL\_PROTECTION CK\_TRUST CKT\_NSS\_TRUSTED\_DELEGATOR

CKA\_TRUST\_CODE\_SIGNING CK\_TRUST CKT\_NSS\_MUST\_VERIFY\_TRUST

CKA\_TRUST\_STEP\_UP\_APPROVED CK\_BBOOL CK\_FALSE

#

# Certificate "certSIGN Root CA G2"

#

# Issuer: OU=certSIGN ROOT CA G2,O=CERTSIGN SA,C=RO

# Serial Number:11:00:34:b6:4e:c6:36:2d:36

# Subject: OU=certSIGN ROOT CA G2,O=CERTSIGN SA,C=RO

# Not Valid Before: Mon Feb 06 09:27:35 2017

# Not Valid After : Thu Feb 06 09:27:35 2042

# Fingerprint (SHA-256):

65:7C:FE:2F:A7:3F:AA:38:46:25:71:F3:32:A2:36:3A:46:FC:E7:02:09:51:71:07:02:CD:FB:B6:EE:DA:33:05

# Fingerprint (SHA1): 26:F9:93:B4:ED:3D:28:27:B0:B9:4B:A7:E9:15:1D:A3:8D:92:E5:32

CKA\_CLASS

CK\_OBJECT\_CLASS CKO\_CERTIFICATE

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "certSIGN Root CA G2"

CKA\_CERTIFICATE\_TYPE CK\_CERTIFICATE\_TYPE CKC\_X\_509

CKA\_SUBJECT MULTILINE\_OCTAL

```
\060\101\061\013\060\011\006\003\125\004\006\023\002\122\117\061
\024\060\022\006\003\125\004\012\023\013\103\105\122\124\123\111
\107\116\040\123\101\061\034\060\032\006\003\125\004\013\023\023
\143\145\162\164\123\111\107\116\040\122\117\117\124\040\103\101
\040\107\062
```

END

CKA\_ID UTF8 "0"

CKA\_ISSUER MULTILINE\_OCTAL

```
\060\101\061\013\060\011\006\003\125\004\006\023\002\122\117\061
\024\060\022\006\003\125\004\012\023\013\103\105\122\124\123\111
\107\116\040\123\101\061\034\060\032\006\003\125\004\013\023\023
```

\143\145\162\164\123\111\107\116\040\122\117\117\124\040\103\101  
\040\107\062

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

\002\011\021\000\064\266\116\306\066\055\066

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\005\107\060\202\003\057\240\003\002\001\002\002\011\021  
\000\064\266\116\306\066\055\066\060\015\006\011\052\206\110\206  
\367\015\001\001\013\005\000\060\101\061\013\060\011\006\003\125  
\004\006\023\002\122\117\061\024\060\022\006\003\125\004\012\023  
\013\103\105\122\124\123\111\107\116\040\123\101\061\034\060\032  
\006\003\125\004\013\023\023\143\145\162\164\123\111\107\116\040  
\122\117\117\124\040\103\101\040\107\062\060\036\027\015\061\067  
\060\062\060\066\060\071\062\067\063\065\132\027\015\064\062\060  
\062\060\066\060\071\062\067\063\065\132\060\101\061\013\060\011  
\006\003\125\004\006\023\002\122\117\061\024\060\022\006\003\125  
\004\012\023\013\103\105\122\124\123\111\107\116\040\123\101\061  
\034\060\032\006\003\125\004\013\023\023\143\145\162\164\123\111  
\107\116\040\122\117\117\124\040\103\101\040\107\062\060\202\002  
\042\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000  
\003\202\002\017\000\060\202\002\012\002\202\002\001\000\300\305  
\165\031\221\175\104\164\164\207\376\016\073\226\334\330\001\026  
\314\356\143\221\347\013\157\316\073\012\151\032\174\302\343\257  
\202\216\206\327\136\217\127\353\323\041\131\375\071\067\102\060  
\276\120\352\266\017\251\210\330\056\055\151\041\347\321\067\030  
\116\175\221\325\026\137\153\133\000\302\071\103\015\066\205\122  
\271\123\145\017\035\102\345\217\317\005\323\356\334\014\032\331  
\270\213\170\042\147\344\151\260\150\305\074\344\154\132\106\347  
\315\307\372\357\304\354\113\275\152\244\254\375\314\050\121\357  
\222\264\051\253\253\065\232\114\344\304\010\306\046\314\370\151  
\237\344\234\360\051\323\134\371\306\026\045\236\043\303\040\301  
\075\017\077\070\100\260\376\202\104\070\252\132\032\212\153\143  
\130\070\264\025\323\266\021\151\173\036\124\356\214\032\042\254  
\162\227\077\043\131\233\311\042\204\301\007\117\314\177\342\127  
\312\022\160\273\246\145\363\151\165\143\275\225\373\033\227\315  
\344\250\257\366\321\116\250\331\212\161\044\315\066\075\274\226  
\304\361\154\251\256\345\317\015\156\050\015\260\016\265\312\121  
\173\170\024\303\040\057\177\373\024\125\341\021\231\375\325\012  
\241\236\002\343\142\137\353\065\113\054\270\162\350\076\075\117  
\254\054\273\056\206\342\243\166\217\345\223\052\317\245\253\310  
\134\215\113\006\377\022\106\254\170\313\024\007\065\340\251\337  
\213\351\257\025\117\026\211\133\275\366\215\306\131\256\210\205  
\016\301\211\353\037\147\305\105\216\377\155\067\066\053\170\146  
\203\221\121\053\075\377\121\167\166\142\241\354\147\076\076\201  
\203\340\126\251\120\037\037\172\231\253\143\277\204\027\167\361  
\015\073\337\367\234\141\263\065\230\212\072\262\354\074\032\067  
\077\176\217\222\317\331\022\024\144\332\020\002\025\101\377\117

\304\353\034\243\311\372\231\367\106\351\341\030\331\261\270\062  
\055\313\024\014\120\330\203\145\203\356\271\134\317\313\005\132  
\114\372\031\227\153\326\135\023\323\302\134\124\274\062\163\240  
\170\365\361\155\036\313\237\245\246\237\042\334\321\121\236\202  
\171\144\140\051\023\076\243\375\117\162\152\253\342\324\345\270  
\044\125\054\104\113\212\210\104\234\312\204\323\052\073\002\003  
\001\000\001\243\102\060\100\060\017\006\003\125\035\023\001\001  
\377\004\005\060\003\001\001\377\060\016\006\003\125\035\017\001  
\001\377\004\004\003\002\001\006\060\035\006\003\125\035\016\004  
\026\004\024\202\041\055\146\306\327\240\340\025\353\316\114\011  
\167\304\140\236\124\156\003\060\015\006\011\052\206\110\206\367  
\015\001\001\013\005\000\003\202\002\001\000\140\336\032\270\347  
\362\140\202\325\003\063\201\313\006\212\361\042\111\351\350\352  
\221\177\306\063\136\150\031\003\206\073\103\001\317\007\160\344  
\010\036\145\205\221\346\021\042\267\365\002\043\216\256\271\036  
\175\037\176\154\346\275\045\325\225\032\362\005\246\257\205\002  
\157\256\370\326\061\377\045\311\112\310\307\212\251\331\237\113  
\111\233\021\127\231\222\103\021\336\266\063\244\314\327\215\144  
\175\324\315\074\050\054\264\232\226\352\115\365\304\104\304\045  
\252\040\200\330\051\125\367\340\101\374\006\046\377\271\066\365  
\103\024\003\146\170\341\021\261\332\040\137\106\000\170\000\041  
\245\036\000\050\141\170\157\250\001\001\217\235\064\232\377\364  
\070\220\373\270\321\263\162\006\311\161\346\201\305\171\355\013  
\246\171\362\023\013\234\367\135\016\173\044\223\264\110\333\206  
\137\336\120\206\170\347\100\346\061\250\220\166\160\141\257\234  
\067\054\021\265\202\267\252\256\044\064\133\162\014\151\015\315  
\131\237\366\161\257\234\013\321\012\070\371\006\042\203\123\045  
\014\374\121\304\346\276\342\071\225\013\044\255\257\321\225\344  
\226\327\164\144\153\161\116\002\074\252\205\363\040\243\103\071  
\166\133\154\120\376\232\234\024\036\145\024\212\025\275\243\202  
\105\132\111\126\152\322\234\261\143\062\345\141\340\123\042\016  
\247\012\111\352\313\176\037\250\342\142\200\366\020\105\122\230  
\006\030\336\245\315\057\177\252\324\351\076\010\162\354\043\003  
\002\074\246\252\330\274\147\164\075\024\027\373\124\113\027\343  
\323\171\075\155\153\111\311\050\016\056\164\120\277\014\331\106  
\072\020\206\311\247\077\351\240\354\177\353\245\167\130\151\161  
\346\203\012\067\362\206\111\152\276\171\010\220\366\002\026\144  
\076\345\332\114\176\014\064\311\371\137\266\263\050\121\247\247  
\053\252\111\372\215\145\051\116\343\153\023\247\224\243\055\121  
\155\170\014\104\313\337\336\010\157\316\243\144\253\323\225\204  
\324\271\122\124\162\173\226\045\314\274\151\343\110\156\015\320  
\307\235\047\232\252\370\023\222\335\036\337\143\237\065\251\026  
\066\354\214\270\203\364\075\211\217\315\264\027\136\327\263\027  
\101\020\135\047\163\140\205\127\111\042\007

END

CKA\_NSS\_MOZILLA\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "certSIGN Root CA G2"

# Issuer: OU=certSIGN ROOT CA G2,O=CERTSIGN SA,C=RO

# Serial Number:11:00:34:b6:4e:c6:36:2d:36

# Subject: OU=certSIGN ROOT CA G2,O=CERTSIGN SA,C=RO

# Not Valid Before: Mon Feb 06 09:27:35 2017

# Not Valid After : Thu Feb 06 09:27:35 2042

# Fingerprint (SHA-256):

65:7C:FE:2F:A7:3F:AA:38:46:25:71:F3:32:A2:36:3A:46:FC:E7:02:09:51:71:07:02:CD:FB:B6:EE:DA:33:05

# Fingerprint

(SHA1): 26:F9:93:B4:ED:3D:28:27:B0:B9:4B:A7:E9:15:1D:A3:8D:92:E5:32

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "certSIGN Root CA G2"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

\046\371\223\264\355\075\050\047\260\271\113\247\351\025\035\243  
\215\222\345\062

END

CKA\_CERT\_MD5\_HASH MULTILINE\_OCTAL

\214\361\165\212\306\031\317\224\267\367\145\040\207\303\227\307

END

CKA\_ISSUER MULTILINE\_OCTAL

\060\101\061\013\060\011\006\003\125\004\006\023\002\122\117\061  
\024\060\022\006\003\125\004\012\023\013\103\105\122\124\123\111  
\107\116\040\123\101\061\034\060\032\006\003\125\004\013\023\023  
\143\145\162\164\123\111\107\116\040\122\117\117\124\040\103\101  
\040\107\062

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

\002\011\021\000\064\266\116\306\066\055\066

END

CKA\_TRUST\_SERVER\_AUTH CK\_TRUST CKT\_NSS\_TRUSTED\_DELEGATOR

CKA\_TRUST\_EMAIL\_PROTECTION CK\_TRUST CKT\_NSS\_MUST\_VERIFY\_TRUST

CKA\_TRUST\_CODE\_SIGNING CK\_TRUST

CKT\_NSS\_MUST\_VERIFY\_TRUST

CKA\_TRUST\_STEP\_UP\_APPROVED CK\_BBOOL CK\_FALSE

#

# Certificate "Trustwave Global Certification Authority"

#

# Issuer: CN=Trustwave Global Certification Authority,O="Trustwave Holdings,  
Inc.",L=Chicago,ST=Illinois,C=US

# Serial Number:05:f7:0e:86:da:49:f3:46:35:2e:ba:b2

# Subject: CN=Trustwave Global Certification Authority,O="Trustwave Holdings,  
Inc.",L=Chicago,ST=Illinois,C=US

```
Not Valid Before: Wed Aug 23 19:34:12 2017
Not Valid After : Sat Aug 23 19:34:12 2042
Fingerprint (SHA-256):
97:55:20:15:F5:DD:FC:3C:87:88:C0:06:94:45:55:40:88:94:45:00:84:F1:00:86:70:86:BC:1A:2B:B5:8D:C8
Fingerprint (SHA1): 2F:8F:36:4F:E1:58:97:44:21:59:87:A5:2A:9A:D0:69:95:26:7F:B5
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Trustwave Global Certification Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\210\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\021\060\017\006\003\125\004\010\014\010\111\154\154\151\156
\157\151\163\061\020\060\016\006\003\125\004\007\014\007\103\150
\151\143\141\147\157\061\041\060\037\006\003\125\004\012\014\030
\124\162\165\163\164\167\141\166\145\040\110\157\154\144\151\156
\147\163\054\040\111\156\143\056\061\061\060\057\006\003\125\004
\003\014\050\124\162\165\163\164\167\141\166\145\040\107\154\157
\142\141\154\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171
END
CKA_ID
UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\210\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\021\060\017\006\003\125\004\010\014\010\111\154\154\151\156
\157\151\163\061\020\060\016\006\003\125\004\007\014\007\103\150
\151\143\141\147\157\061\041\060\037\006\003\125\004\012\014\030
\124\162\165\163\164\167\141\166\145\040\110\157\154\144\151\156
\147\163\054\040\111\156\143\056\061\061\060\057\006\003\125\004
\003\014\050\124\162\165\163\164\167\141\166\145\040\107\154\157
\142\141\154\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\014\005\367\016\206\332\111\363\106\065\056\272\262
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\332\060\202\003\302\240\003\002\001\002\002\014\005
\367\016\206\332\111\363\106\065\056\272\262\060\015\006\011\052
\206\110\206\367\015\001\001\013\005\000\060\201\210\061\013\060
\011\006\003\125\004\006\023\002\125\123\061\021\060\017\006\003
\125\004\010\014\010\111\154\154\151\156\157\151\163\061\020\060
\016\006\003\125\004\007\014\007\103\150\151\143\141\147\157\061
\041\060\037\006\003\125\004\012\014\030\124\162\165\163\164\167
\141\166\145\040\110\157\154\144\151\156\147\163\054\040\111\156
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\143\056\061\061\060\057\006\003\125\004\003\014\050\124\162\165  
\163\164\167\141\166\145\040\107\154\157\142\141\154\040\103\145  
\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150  
\157\162\151\164\171\060\036\027\015\061\067\060\070\062\063\061  
\071\063\064\061\062\132\027\015\064\062\060\070\062\063\061\071  
\063\064\061\062\132\060\201\210\061\013\060\011\006\003\125\004  
\006\023\002\125\123\061\021\060\017\006\003\125\004\010\014\010  
\111\154\154\151\156\157\151\163\061\020\060\016\006\003\125\004  
\007\014\007\103\150\151\143\141\147\157\061\041\060\037\006\003  
\125\004\012\014\030\124\162\165\163\164\167\141\166\145\040\110  
\157\154\144\151\156\147\163\054\040\111\156\143\056\061\061\060  
\057\006\003\125\004\003\014\050\124\162\165\163\164\167\141\166  
\145\040\107\154\157\142\141\154\040\103\145\162\164\151\146\151  
\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171  
\060\202\002\042\060\015\006\011\052\206\110\206\367\015\001\001  
\001\005\000\003\202\002\017\000\060\202\002\012\002\202\002\001  
\000\271\135\121\050\113\074\067\222\321\202\316\275\035\275\315  
\335\270\253\317\012\076\341\135\345\334\252\011\271\127\002\076  
\346\143\141\337\362\017\202\143\256\243\367\254\163\321\174\347  
\263\013\257\010\000\011\131\177\315\051\052\210\223\207\027\030  
\200\355\210\262\264\266\020\037\055\326\137\125\242\023\135\321  
\306\353\006\126\211\210\376\254\062\235\375\134\303\005\307\156  
\356\206\211\272\210\003\235\162\041\206\220\256\217\003\245\334  
\237\210\050\313\243\222\111\017\354\320\017\342\155\104\117\200  
\152\262\324\347\240\012\123\001\272\216\227\221\166\156\274\374  
\325\153\066\346\100\210\326\173\057\137\005\350\054\155\021\363  
\347\262\276\222\104\114\322\227\244\376\322\162\201\103\007\234  
\351\021\076\365\213\032\131\175\037\150\130\335\004\000\054\226  
\363\103\263\176\230\031\164\331\234\163\331\030\276\101\307\064  
\171\331\364\142\302\103\271\263\047\260\042\313\371\075\122\307  
\060\107\263\311\076\270\152\342\347\350\201\160\136\102\213\117  
\046\245\376\072\302\040\156\273\370\026\216\315\014\251\264\033  
\154\166\020\341\130\171\106\076\124\316\200\250\127\011\067\051  
\033\231\023\217\014\310\326\054\034\373\005\350\010\225\075\145  
\106\334\356\315\151\342\115\217\207\050\116\064\013\076\317\024  
\331\273\335\266\120\232\255\167\324\031\326\332\032\210\310\116  
\033\047\165\330\262\010\361\256\203\060\271\021\016\315\207\360  
\204\215\025\162\174\241\357\314\362\210\141\272\364\151\273\014  
\214\013\165\127\004\270\116\052\024\056\075\017\034\036\062\246  
\142\066\356\146\342\042\270\005\100\143\020\042\363\063\035\164  
\162\212\054\365\071\051\240\323\347\033\200\204\055\305\075\343  
\115\261\375\032\157\272\145\007\073\130\354\102\105\046\373\330  
\332\045\162\304\366\000\261\042\171\275\343\174\131\142\112\234  
\005\157\075\316\346\326\107\143\231\306\044\157\162\022\310\254  
\177\220\264\013\221\160\350\267\346\026\020\161\027\316\336\006  
\117\110\101\175\065\112\243\211\362\311\113\173\101\021\155\147  
\267\010\230\114\345\021\031\256\102\200\334\373\220\005\324\370  
\120\312\276\344\255\307\302\224\327\026\235\346\027\217\257\066

\373\002\003\001\000\001\243\102\060\100\060\017\006\003\125\035  
\023\001\001\377\004\005\060\003\001\001\377\060\035\006\003\125  
\035\016\004\026\004\024\231\340\031\147\015\142\333\166\263\332  
\075\270\133\350\375\102\322\061\016\207\060\016\006\003\125\035  
\017\001\001\377\004\004\003\002\001\006\060\015\006\011\052\206  
\110\206\367\015\001\001\013\005\000\003\202\002\001\000\230\163  
\160\342\260\323\355\071\354\114\140\331\251\022\206\027\036\226  
\320\350\124\050\073\144\055\041\246\370\235\126\023\152\110\075  
\117\307\076\051\333\155\130\203\124\075\207\175\043\005\324\344  
\034\334\350\070\145\206\305\165\247\132\333\065\005\275\167\336  
\273\051\067\100\005\007\303\224\122\237\312\144\335\361\033\053  
\334\106\012\020\002\061\375\112\150\015\007\144\220\346\036\365  
\052\241\250\273\074\135\371\243\010\013\021\014\361\077\055\020  
\224\157\376\342\064\207\203\326\317\345\033\065\155\322\003\341  
\260\015\250\240\252\106\047\202\066\247\025\266\010\246\102\124  
\127\266\231\132\342\013\171\220\327\127\022\121\065\031\210\101  
\150\045\324\067\027\204\025\373\001\162\334\225\336\122\046\040  
\230\046\342\166\365\047\157\372\000\073\112\141\331\015\313\121  
\223\052\375\026\006\226\247\043\232\043\110\376\121\275\266\304  
\260\261\124\316\336\154\101\255\026\147\176\333\375\070\315\271  
\070\116\262\301\140\313\235\027\337\130\236\172\142\262\046\217  
\164\225\233\344\133\035\322\017\335\230\034\233\131\271\043\323  
\061\240\246\377\070\335\317\040\117\351\130\126\072\147\303\321  
\366\231\231\235\272\066\266\200\057\210\107\117\206\277\104\072  
\200\344\067\034\246\272\352\227\230\021\320\204\142\107\144\036  
\252\356\100\277\064\261\234\217\116\341\362\222\117\037\216\363  
\236\227\336\363\246\171\152\211\161\117\113\047\027\110\376\354  
\364\120\017\117\111\175\314\105\343\275\172\100\305\101\334\141  
\126\047\006\151\345\162\101\201\323\266\001\211\240\057\072\162  
\171\376\072\060\277\101\354\307\142\076\221\113\307\331\061\166  
\102\371\367\074\143\354\046\214\163\014\175\032\035\352\250\174  
\207\250\302\047\174\341\063\101\017\317\317\374\000\240\042\200  
\236\112\247\157\000\260\101\105\267\042\312\150\110\305\102\242  
\256\335\035\362\340\156\116\005\130\261\300\220\026\052\244\075  
\020\100\276\217\142\143\203\251\234\202\175\055\002\351\203\060  
\174\313\047\311\375\036\146\000\260\056\323\041\057\216\063\026  
\154\230\355\020\250\007\326\314\223\317\333\321\151\034\344\312  
\311\340\266\234\351\316\161\161\336\154\077\026\244\171

END

CKA\_NSS\_MOZILLA\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "Trustwave Global Certification Authority"

# Issuer: CN=Trustwave Global Certification Authority,O="Trustwave Holdings,  
Inc.",L=Chicago,ST=Illinois,C=US

# Serial Number:05:f7:0e:86:da:49:f3:46:35:2e:ba:b2

```

Subject: CN=Trustwave Global Certification Authority,O="Trustwave Holdings,
Inc.",L=Chicago,ST=Illinois,C=US
Not Valid Before: Wed Aug 23 19:34:12 2017
Not Valid After : Sat Aug 23 19:34:12 2042
Fingerprint (SHA-256):
97:55:20:15:F5:DD:FC:3C:87:88:C0:06:94:45:55:40:88:94:45:00:84:F1:00:86:70:86:BC:1A:2B:B5:8D:C8
#
Fingerprint (SHA1): 2F:8F:36:4F:E1:58:97:44:21:59:87:A5:2A:9A:D0:69:95:26:7F:B5
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Trustwave Global Certification Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\057\217\066\117\341\130\227\104\041\131\207\245\052\232\320\151
\225\046\177\265
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\370\034\030\055\057\272\137\155\241\154\274\307\253\221\307\016
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\210\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\021\060\017\006\003\125\004\010\014\010\111\154\154\151\156
\157\151\163\061\020\060\016\006\003\125\004\007\014\007\103\150
\151\143\141\147\157\061\041\060\037\006\003\125\004\012\014\030
\124\162\165\163\164\167\141\166\145\040\110\157\154\144\151\156
\147\163\054\040\111\156\143\056\061\061\060\057\006\003\125\004
\003\014\050\124\162\165\163\164\167\141\166\145\040\107\154\157
\142\141\154\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\014\005\367\016\206\332\111\363\106\065\056\272\262
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Trustwave Global ECC P256 Certification Authority"
#
Issuer: CN=Trustwave Global ECC P256 Certification Authority,O="Trustwave Holdings,
Inc.",L=Chicago,ST=Illinois,C=US
Serial Number:0d:6a:5f:08:3f:28:5c:3e:51:95:df:5d
Subject: CN=Trustwave Global ECC P256 Certification Authority,O="Trustwave Holdings,
Inc.",L=Chicago,ST=Illinois,C=US

```



```
Not Valid Before: Wed Aug 23 19:35:10 2017
Not Valid After : Sat Aug 23 19:35:10 2042
Fingerprint (SHA-256):
94:5B:BC:82:5E:A5:54:F4:89:D1:FD:51:A7:3D:DF:2E:A6:24:AC:70:19:A0:52:05:22:5C:22:A7:8C:CF:A8:B4
#
Fingerprint (SHA1): B4:90:82:DD:45:0C:BE:8B:5B:B1:66:D3:E2:A4:08:26:CD:ED:42:CF
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Trustwave Global ECC P256 Certification Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\221\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\021\060\017\006\003\125\004\010\023\010\111\154\154\151\156
\157\151\163\061\020\060\016\006\003\125\004\007\023\007\103\150
\151\143\141\147\157\061\041\060\037\006\003\125\004\012\023\030
\124\162\165\163\164\167\141\166\145\040\110\157\154\144\151\156
\147\163\054\040\111\156\143\056\061\072\060\070\006\003\125\004
\003\023\061\124\162\165\163\164\167\141\166\145\040\107\154\157
\142\141\154\040\105\103\103\040\120\062\065\066\040\103\145\162
\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157
\162\151\164\171
END
CKA_ID
UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\221\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\021\060\017\006\003\125\004\010\023\010\111\154\154\151\156
\157\151\163\061\020\060\016\006\003\125\004\007\023\007\103\150
\151\143\141\147\157\061\041\060\037\006\003\125\004\012\023\030
\124\162\165\163\164\167\141\166\145\040\110\157\154\144\151\156
\147\163\054\040\111\156\143\056\061\072\060\070\006\003\125\004
\003\023\061\124\162\165\163\164\167\141\166\145\040\107\154\157
\142\141\154\040\105\103\103\040\120\062\065\066\040\103\145\162
\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157
\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\014\015\152\137\010\077\050\134\076\121\225\337\135
END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\140\060\202\002\007\240\003\002\001\002\002\014\015
\152\137\010\077\050\134\076\121\225\337\135\060\012\006\010\052
\206\110\316\075\004\003\002\060\201\221\061\013\060\011\006\003
\125\004\006\023\002\125\123\061\021\060\017\006\003\125\004\010
\023\010\111\154\154\151\156\157\151\163\061\020\060\016\006\003
\125\004\007\023\007\103\150\151\143\141\147\157\061\041\060\037
```

\006\003\125\004\012\023\030\124\162\165\163\164\167\141\166\145  
\040\110\157\154\144\151\156\147\163\054\040\111\156\143\056\061  
\072\060\070\006\003\125\004\003\023\061\124\162\165\163\164\167  
\141\166\145\040\107\154\157\142\141\154\040\105\103\103\040\120  
\062\065\066\040\103\145\162\164\151\146\151\143\141\164\151\157  
\156\040\101\165\164\150\157\162\151\164\171\060\036\027\015\061  
\067\060\070\062\063\061\071\063\065\061\060\132\027\015\064\062  
\060\070\062\063\061\071\063\065\061\060\132\060\201\221\061\013  
\060\011\006\003\125\004\006\023\002\125\123\061\021\060\017\006  
\003\125\004\010\023\010\111\154\154\151\156\157\151\163\061\020  
\060\016\006\003\125\004\007\023\007\103\150\151\143\141\147\157  
\061\041\060\037\006\003\125\004\012\023\030\124\162\165\163\164  
\167\141\166\145\040\110\157\154\144\151\156\147\163\054\040\111  
\156\143\056\061\072\060\070\006\003\125\004\003\023\061\124\162  
\165\163\164\167\141\166\145\040\107\154\157\142\141\154\040\105  
\103\103\040\120\062\065\066\040\103\145\162\164\151\146\151\143  
\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171\060  
\131\060\023\006\007\052\206\110\316\075\002\001\006\010\052\206  
\110\316\075\003\001\007\003\102\000\004\176\373\154\346\043\343  
\163\062\010\312\140\346\123\234\272\164\215\030\260\170\220\122  
\200\335\070\300\112\035\321\250\314\223\244\227\006\070\312\015  
\025\142\306\216\001\052\145\235\252\337\064\221\056\201\301\344  
\063\222\061\304\375\011\072\246\077\255\243\103\060\101\060\017  
\006\003\125\035\023\001\001\377\004\005\060\003\001\001\377\060  
\017\006\003\125\035\017\001\001\377\004\005\003\003\007\006\000  
\060\035\006\003\125\035\016\004\026\004\024\243\101\006\254\220  
\155\321\112\353\165\245\112\020\231\263\261\241\213\112\367\060  
\012\006\010\052\206\110\316\075\004\003\002\003\107\000\060\104  
\002\040\007\346\124\332\016\240\132\262\256\021\237\207\305\266  
\377\151\336\045\276\370\240\267\010\363\104\316\052\337\010\041  
\014\067\002\040\055\046\003\240\005\275\153\321\366\134\370\145  
\314\206\155\263\234\064\110\143\204\011\305\215\167\032\342\314  
\234\341\164\173

END

CKA\_NSS\_MOZILLA\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "Trustwave Global ECC P256 Certification Authority"

# Issuer: CN=Trustwave Global ECC P256 Certification Authority,O="Trustwave Holdings, Inc.",L=Chicago,ST=Illinois,C=US

# Serial Number:0d:6a:5f:08:3f:28:5c:3e:51:95:df:5d

# Subject: CN=Trustwave Global ECC P256 Certification Authority,O="Trustwave Holdings, Inc.",L=Chicago,ST=Illinois,C=US

# Not Valid Before: Wed Aug 23 19:35:10 2017

# Not Valid After : Sat Aug 23 19:35:10 2042

# Fingerprint (SHA-256):

```
94:5B:BC:82:5E:A5:54:F4:89:D1:FD:51:A7:3D:DF:2E:A6:24:AC:70:19:A0:52:05:22:5C:22:A7:8C:CF:A8:B4
Fingerprint (SHA1): B4:90:82:DD:45:0C:BE:8B:5B:B1:66:D3:E2:A4:08:26:CD:ED:42:CF
CKA_CLASS
CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Trustwave Global ECC P256 Certification Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\264\220\202\335\105\014\276\213\133\261\146\323\342\244\010\046
\315\355\102\317
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\133\104\343\215\135\066\206\046\350\015\005\322\131\247\203\124
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\221\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\021\060\017\006\003\125\004\010\023\010\111\154\154\151\156
\157\151\163\061\020\060\016\006\003\125\004\007\023\007\103\150
\151\143\141\147\157\061\041\060\037\006\003\125\004\012\023\030
\124\162\165\163\164\167\141\166\145\040\110\157\154\144\151\156
\147\163\054\040\111\156\143\056\061\072\060\070\006\003\125\004
\003\023\061\124\162\165\163\164\167\141\166\145\040\107\154\157
\142\141\154\040\105\103\103\040\120\062\065\066\040\103\145\162
\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157
\162\151\164\171
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\014\015\152\137\010\077\050\134\076\121\225\337\135
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Trustwave Global ECC P384 Certification Authority"
#
Issuer: CN=Trustwave Global ECC P384 Certification Authority,O="Trustwave Holdings,
Inc.",L=Chicago,ST=Illinois,C=US
Serial Number:08:bd:85:97:6c:99:27:a4:80:68:47:3b
Subject: CN=Trustwave Global ECC P384 Certification Authority,O="Trustwave Holdings,
Inc.",L=Chicago,ST=Illinois,C=US
Not Valid Before: Wed Aug 23 19:36:43 2017
Not Valid After : Sat Aug 23 19:36:43 2042
Fingerprint (SHA-256):
55:90:38:59:C8:C0:C3:EB:B8:75:9E:CE:4E:25:57:22:5F:F5:75:8B:BD:38:EB:D4:82:76:60:1E:1B:D5:80:97
```

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Fingerprint
(SHA1): E7:F3:A3:C8:CF:6F:C3:04:2E:6D:0E:67:32:C5:9E:68:95:0D:5E:D2
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Trustwave Global ECC P384 Certification Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\221\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\021\060\017\006\003\125\004\010\023\010\111\154\154\151\156
\157\151\163\061\020\060\016\006\003\125\004\007\023\007\103\150
\151\143\141\147\157\061\041\060\037\006\003\125\004\012\023\030
\124\162\165\163\164\167\141\166\145\040\110\157\154\144\151\156
\147\163\054\040\111\156\143\056\061\072\060\070\006\003\125\004
\003\023\061\124\162\165\163\164\167\141\166\145\040\107\154\157
\142\141\154\040\105\103\103\040\120\063\070\064\040\103\145\162
\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157
\162\151\164\171
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\221\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\021\060\017\006\003\125\004\010\023\010\111\154\154\151\156
\157\151\163\061\020\060\016\006\003\125\004\007\023\007\103\150
\151\143\141\147\157\061\041\060\037\006\003\125\004\012\023\030
\124\162\165\163\164\167\141\166\145\040\110\157\154\144\151\156
\147\163\054\040\111\156\143\056\061\072\060\070\006\003\125\004
\003\023\061\124\162\165\163\164\167\141\166\145\040\107\154\157
\142\141\154\040\105\103\103\040\120\063\070\064\040\103\145\162
\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157
\162\151\164\171
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\014\010\275\205\227\154\231\047\244\200\150\107\073
END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\235\060\202\002\044\240\003\002\001\002\002\014\010
\275\205\227\154\231\047\244\200\150\107\073\060\012\006\010\052
\206\110\316\075\004\003\003\060\201\221\061\013\060\011\006\003
\125\004\006\023\002\125\123\061\021\060\017\006\003\125\004\010
\023\010\111\154\154\151\156\157\151\163\061\020\060\016\006\003
\125\004\007\023\007\103\150\151\143\141\147\157\061\041\060\037
\006\003\125\004\012\023\030\124\162\165\163\164\167\141\166\145
\040\110\157\154\144\151\156\147\163\054\040\111\156\143\056\061
\072\060\070\006\003\125\004\003\023\061\124\162\165\163\164\167
\141\166\145\040\107\154\157\142\141\154\040\105\103\103\040\120
```

\063\070\064\040\103\145\162\164\151\146\151\143\141\164\151\157  
\156\040\101\165\164\150\157\162\151\164\171\060\036\027\015\061  
\067\060\070\062\063\061\071\063\066\064\063\132\027\015\064\062  
\060\070\062\063\061\071\063\066\064\063\132\060\201\221\061\013  
\060\011\006\003\125\004\006\023\002\125\123\061\021\060\017\006  
\003\125\004\010\023\010\111\154\154\151\156\157\151\163\061\020  
\060\016\006\003\125\004\007\023\007\103\150\151\143\141\147\157  
\061\041\060\037\006\003\125\004\012\023\030\124\162\165\163\164  
\167\141\166\145\040\110\157\154\144\151\156\147\163\054\040\111  
\156\143\056\061\072\060\070\006\003\125\004\003\023\061\124\162  
\165\163\164\167\141\166\145\040\107\154\157\142\141\154\040\105  
\103\103\040\120\063\070\064\040\103\145\162\164\151\146\151\143  
\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171\060  
\166\060\020\006\007\052\206\110\316\075\002\001\006\005\053\201  
\004\000\042\003\142\000\004\153\332\015\165\065\010\061\107\005  
\256\105\231\125\361\021\023\056\112\370\020\061\043\243\176\203  
\323\177\050\010\072\046\032\072\317\227\202\037\200\267\047\011  
\217\321\216\060\304\012\233\016\254\130\004\253\367\066\175\224  
\043\244\233\012\212\213\253\353\375\071\045\146\361\136\376\214  
\256\215\101\171\235\011\140\316\050\251\323\212\155\363\326\105  
\324\362\230\204\070\145\240\243\103\060\101\060\017\006\003\125  
\035\023\001\001\377\004\005\060\003\001\001\377\060\017\006\003  
\125\035\017\001\001\377\004\005\003\003\007\006\000\060\035\006  
\003\125\035\016\004\026\004\024\125\251\204\211\322\301\062\275  
\030\313\154\246\007\116\310\347\235\276\202\220\060\012\006\010  
\052\206\110\316\075\004\003\003\003\147\000\060\144\002\060\067  
\001\222\227\105\022\176\240\363\076\255\031\072\162\335\364\120  
\223\003\022\276\104\322\117\101\244\214\234\235\037\243\366\302  
\222\347\110\024\376\116\233\245\221\127\256\306\067\162\273\002  
\060\147\045\012\261\014\136\356\251\143\222\157\345\220\013\376  
\146\042\312\107\375\212\061\367\203\376\172\277\020\276\030\053  
\036\217\366\051\036\224\131\357\216\041\067\313\121\230\245\156  
\113

END

CKA\_NSS\_MOZILLA\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRUST\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRUST\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "Trustwave Global ECC P384 Certification Authority"

# Issuer: CN=Trustwave Global ECC P384 Certification Authority,O="Trustwave Holdings, Inc.",L=Chicago,ST=Illinois,C=US

# Serial Number:08:bd:85:97:6c:99:27:a4:80:68:47:3b

# Subject: CN=Trustwave Global ECC P384 Certification Authority,O="Trustwave Holdings, Inc.",L=Chicago,ST=Illinois,C=US

# Not Valid Before: Wed Aug 23 19:36:43

2017

# Not Valid After : Sat Aug 23 19:36:43 2042

```

Fingerprint (SHA-256):
55:90:38:59:C8:C0:C3:EB:B8:75:9E:CE:4E:25:57:22:5F:F5:75:8B:BD:38:EB:D4:82:76:60:1E:1B:D5:80:97
Fingerprint (SHA1): E7:F3:A3:C8:CF:6F:C3:04:2E:6D:0E:67:32:C5:9E:68:95:0D:5E:D2
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Trustwave Global ECC P384 Certification Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\347\363\243\310\317\157\303\004\056\155\016\147\062\305\236\150
\225\015\136\322
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\352\317\140\304\073\271\025\051\100\241\227\355\170\047\223\326
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\221\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\021\060\017\006\003\125\004\010\023\010\111\154\154\151\156
\157\151\163\061\020\060\016\006\003\125\004\007\023\007\103\150
\151\143\141\147\157\061\041\060\037\006\003\125\004\012\023\030
\124\162\165\163\164\167\141\166\145\040\110\157\154\144\151\156
\147\163\054\040\111\156\143\056\061\072\060\070\006\003\125\004
\003\023\061\124\162\165\163\164\167\141\166\145\040\107\154\157
\142\141\154\040\105\103\103\040\120\063\070\064\040\103\145\162
\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157
\162\151\164\171
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\014\010\275\205\227\154\231\047\244\200\150\107\073
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "NAVER Global Root Certification Authority"
#
Issuer: CN=NAVER Global Root Certification Authority,O=NAVER BUSINESS PLATFORM Corp.,C=KR
Serial Number:01:94:30:1e:a2:0b:dd:f5:c5:33:2a:b1:43:44:71:f8:d6:50:4d:0d
Subject: CN=NAVER Global Root Certification Authority,O=NAVER BUSINESS PLATFORM Corp.,C=KR
Not Valid Before: Fri Aug 18 08:58:42 2017
#
Not Valid After : Tue Aug 18 23:59:59 2037
Fingerprint (SHA-256):
88:F4:38:DC:F8:FF:D1:FA:8F:42:91:15:FF:E5:F8:2A:E1:E0:6E:0C:70:C3:75:FA:AD:71:7B:34:A4:9E:72:65
Fingerprint (SHA1): 8F:6B:F2:A9:27:4A:DA:14:A0:C4:F4:8E:61:27:F9:C0:1E:78:5D:D1

```

```
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "NAVER Global Root Certification Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\151\061\013\060\011\006\003\125\004\006\023\002\113\122\061
\046\060\044\006\003\125\004\012\014\035\116\101\126\105\122\040
\102\125\123\111\116\105\123\123\040\120\114\101\124\106\117\122
\115\040\103\157\162\160\056\061\062\060\060\006\003\125\004\003
\014\051\116\101\126\105\122\040\107\154\157\142\141\154\040\122
\157\157\164\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\151\061\013\060\011\006\003\125\004\006\023\002\113\122\061
\046\060\044\006\003\125\004\012\014\035\116\101\126\105\122\040
\102\125\123\111\116\105\123\123\040\120\114\101\124\106\117\122
\115\040\103\157\162\160\056\061\062\060\060\006\003\125\004\003
\014\051\116\101\126\105\122\040\107\154\157\142\141\154\040\122
\157\157\164\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\024\001\224\060\036\242\013\335\365\305\063\052\261\103\104
\161\370\326\120\115\015
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\242\060\202\003\212\240\003\002\001\002\002\024\001
\224\060\036\242\013\335\365\305\063\052\261\103\104\161\370\326
\120\115\015\060\015\006\011\052\206\110\206\367\015\001\001\014
\005\000\060\151\061\013\060\011\006\003\125\004\006\023\002\113
\122\061\046\060\044\006\003\125\004\012\014\035\116\101\126\105
\122\040\102\125\123\111\116\105\123\123\040\120\114\101\124\106
\117\122\115\040\103\157\162\160\056\061\062\060\060\006\003\125
\004\003\014\051\116\101\126\105\122\040\107\154\157\142\141\154
\040\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164
\151\157\156\040\101\165\164\150\157\162\151\164\171\060\036\027
\015\061\067\060\070\061\070\060\070\065\070\064\062\132\027\015
\063\067\060\070\061\070\062\063\065\071\065\071\132\060\151\061
\013\060\011\006\003\125\004\006\023\002\113\122\061\046\060\044
\006\003\125\004\012\014\035\116\101\126\105\122\040\102\125\123
\111\116\105\123\123\040\120\114\101\124\106\117\122\115\040\103
\157\162\160\056\061\062\060\060\006\003\125\004\003\014\051\116
\101\126\105\122\040\107\154\157\142\141\154\040\122\157\157\164
```

\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101  
\165\164\150\157\162\151\164\171\060\202\002\042\060\015\006\011  
\052\206\110\206\367\015\001\001\001\005\000\003\202\002\017\000  
\060\202\002\012\002\202\002\001\000\266\324\361\223\134\265\100  
\211\012\253\015\220\133\120\143\256\220\224\164\027\105\162\326  
\173\145\132\051\113\247\126\240\113\270\057\102\165\351\331\173  
\044\132\061\145\253\027\027\321\063\072\331\021\334\100\066\207  
\337\307\152\351\046\136\131\212\167\343\350\110\234\061\026\372  
\076\221\261\312\311\243\342\237\316\041\123\243\002\066\060\313  
\122\002\345\332\062\135\303\305\346\371\356\021\307\213\311\104  
\036\204\223\030\112\264\237\345\022\144\151\320\046\205\142\001  
\266\311\002\035\276\203\121\273\134\332\370\255\025\152\231\367  
\222\124\367\064\133\351\277\352\051\201\022\324\123\221\226\263  
\221\132\335\376\220\163\050\373\060\106\265\312\010\007\307\161  
\162\311\146\323\064\227\366\214\364\030\112\341\320\075\132\105  
\266\151\247\051\373\043\316\210\330\022\234\000\110\250\246\017  
\263\073\222\215\161\016\164\305\213\310\114\371\364\233\216\270  
\074\151\355\157\073\120\057\130\355\304\260\320\034\033\152\014  
\342\274\104\252\330\315\024\135\224\170\141\277\016\156\332\052  
\274\057\014\013\161\246\263\026\077\234\346\371\314\237\123\065  
\342\003\240\240\030\277\273\361\276\364\326\214\207\015\102\367  
\006\271\361\155\355\004\224\250\376\266\323\006\306\100\141\337  
\235\235\363\124\166\316\123\072\001\246\222\101\354\004\243\217  
\015\242\325\011\312\326\313\232\361\357\103\135\300\253\245\101  
\317\134\123\160\160\311\210\246\055\324\153\141\163\120\046\206  
\141\016\137\033\302\053\342\214\325\273\235\301\003\102\272\224  
\332\137\251\260\312\314\115\012\357\107\151\003\057\042\373\361  
\050\316\277\135\120\145\250\220\155\263\164\260\010\307\254\250  
\321\353\076\234\374\135\032\203\056\053\313\265\363\104\235\072  
\247\027\141\226\242\161\323\160\226\025\115\267\114\163\356\031  
\134\305\133\076\101\376\254\165\140\073\033\143\316\000\335\332  
\010\220\142\264\345\055\356\110\247\153\027\231\124\276\207\112  
\343\251\136\004\114\353\020\155\124\326\357\361\350\362\142\026  
\313\200\153\355\075\355\365\037\060\245\256\113\311\023\355\212  
\001\001\311\270\121\130\300\146\072\261\146\113\304\325\061\002  
\142\351\164\204\014\333\115\106\055\002\003\001\000\001\243\102  
\060\100\060\035\006\003\125\035\016\004\026\004\024\322\237\210  
\337\241\315\054\275\354\365\073\001\001\223\063\047\262\353\140  
\113\060\016\006\003\125\035\017\001\001\377\004\004\003\002\001  
\006\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001  
\001\377\060\015\006\011\052\206\110\206\367\015\001\001\014\005  
\000\003\202\002\001\000\062\312\200\263\235\075\124\006\335\322  
\322\056\360\244\001\041\013\147\110\312\155\216\340\310\252\015  
\252\215\041\127\217\306\076\172\312\333\121\324\122\263\324\226  
\204\245\130\140\177\345\013\216\037\365\334\012\025\201\345\073  
\266\267\042\057\011\234\023\026\261\154\014\065\010\155\253\143  
\162\355\334\276\354\307\127\346\060\040\161\326\327\020\301\023  
\125\001\214\052\103\344\101\361\317\072\172\123\222\316\242\003



\005\015\070\337\002\273\020\056\331\073\322\233\172\300\241\246  
\370\265\061\346\364\165\311\271\123\231\165\107\042\132\024\025  
\307\170\033\266\235\351\014\370\033\166\361\205\204\336\241\332  
\022\357\244\342\020\227\172\170\336\014\121\227\250\041\100\213  
\206\275\015\360\136\116\113\066\273\073\040\037\212\102\126\341  
\013\032\277\173\320\042\103\054\104\214\373\345\052\264\154\034  
\034\272\224\340\023\176\041\346\232\302\313\305\102\144\264\036  
\224\173\010\045\310\161\314\207\105\127\205\323\237\051\142\042  
\203\121\227\000\030\227\167\152\230\222\311\174\140\154\337\154  
\175\112\344\160\114\302\236\270\035\367\320\064\307\017\314\373  
\247\377\003\276\255\160\220\332\013\335\310\155\227\137\232\177  
\011\062\101\375\315\242\314\132\155\114\362\252\111\376\146\370  
\351\330\065\353\016\050\036\356\110\057\072\320\171\011\070\174  
\246\042\202\223\225\320\003\276\276\002\240\005\335\040\042\343  
\157\035\210\064\140\306\346\012\271\011\165\013\360\007\350\151  
\226\065\307\373\043\201\216\070\071\270\105\053\103\170\242\321  
\054\024\377\015\050\162\162\225\233\136\011\333\211\104\230\252  
\241\111\273\161\122\362\277\366\377\047\241\066\257\270\266\167  
\210\335\072\244\155\233\064\220\334\024\135\060\277\267\353\027  
\344\207\267\161\320\241\327\167\025\324\102\327\362\363\061\231  
\135\233\335\026\155\077\352\006\043\370\106\242\042\355\223\366  
\335\232\346\052\207\261\230\124\361\042\367\153\105\343\342\216  
\166\035\232\215\304\006\215\066\267\024\363\235\124\151\267\216  
\074\325\244\155\223\201\267\255\366\275\144\173\302\311\150\071  
\240\222\234\315\064\206\221\220\372\144\121\235\376\376\353\245  
\365\165\336\211\367\162

END

CKA\_NSS\_MOZILLA\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "NAVER Global Root Certification Authority"

# Issuer: CN=NAVER Global Root Certification Authority,O=NAVER BUSINESS PLATFORM Corp.,C=KR

# Serial Number:01:94:30:1e:a2:0b:dd:f5:c5:33:2a:b1:43:44:71:f8:d6:50:4d:0d

# Subject: CN=NAVER Global Root Certification Authority,O=NAVER BUSINESS PLATFORM Corp.,C=KR

# Not Valid Before: Fri Aug 18 08:58:42 2017

# Not Valid After : Tue Aug 18

23:59:59 2037

# Fingerprint (SHA-256):

88:F4:38:DC:F8:FF:D1:FA:8F:42:91:15:FF:E5:F8:2A:E1:E0:6E:0C:70:C3:75:FA:AD:71:7B:34:A4:9E:72:65

# Fingerprint (SHA1): 8F:6B:F2:A9:27:4A:DA:14:A0:C4:F4:8E:61:27:F9:C0:1E:78:5D:D1

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "NAVER Global Root Certification Authority"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

\217\153\362\251\047\112\332\024\240\304\364\216\141\047\371\300  
\036\170\135\321

END

CKA\_CERT\_MD5\_HASH MULTILINE\_OCTAL

\310\176\101\366\045\073\365\011\263\027\350\106\075\277\320\233

END

CKA\_ISSUER MULTILINE\_OCTAL

\060\151\061\013\060\011\006\003\125\004\006\023\002\113\122\061  
\046\060\044\006\003\125\004\012\014\035\116\101\126\105\122\040  
\102\125\123\111\116\105\123\123\040\120\114\101\124\106\117\122  
\115\040\103\157\162\160\056\061\062\060\060\006\003\125\004\003  
\014\051\116\101\126\105\122\040\107\154\157\142\141\154\040\122  
\157\157\164\040\103\145\162\164\151\146\151\143\141\164\151\157  
\156\040\101\165\164\150\157\162\151\164\171

END

CKA\_SERIAL\_NUMBER

MULTILINE\_OCTAL

\002\024\001\224\060\036\242\013\335\365\305\063\052\261\103\104  
\161\370\326\120\115\015

END

CKA\_TRUST\_SERVER\_AUTH CK\_TRUST CKT\_NSS\_TRUSTED\_DELEGATOR

CKA\_TRUST\_EMAIL\_PROTECTION CK\_TRUST CKT\_NSS\_MUST\_VERIFY\_TRUST

CKA\_TRUST\_CODE\_SIGNING CK\_TRUST CKT\_NSS\_MUST\_VERIFY\_TRUST

CKA\_TRUST\_STEP\_UP\_APPROVED CK\_BBOOL CK\_FALSE

#

# Certificate "AC RAIZ FNMT-RCM SERVIDORES SEGUROS"

#

# Issuer: CN=AC RAIZ FNMT-RCM SERVIDORES SEGUROS,OID.2.5.4.97=VATES-  
Q2826004J,OU=Ceres,O=FNMT-RCM,C=ES

# Serial Number:62:f6:32:6c:e5:c4:e3:68:5c:1b:62:dd:9c:2e:9d:95

# Subject: CN=AC RAIZ FNMT-RCM SERVIDORES SEGUROS,OID.2.5.4.97=VATES-  
Q2826004J,OU=Ceres,O=FNMT-RCM,C=ES

# Not Valid Before: Thu Dec 20 09:37:33 2018

# Not Valid After : Sun Dec 20 09:37:33 2043

# Fingerprint (SHA-256):

55:41:53:B1:3D:2C:F9:DD:B7:53:BF:BE:1A:4E:0A:E0:8D:0A:A4:18:70:58:FE:60:A2:B8:62:B2:E4:B8:7B:CB

# Fingerprint

(SHA1): 62:FF:D9:9E:C0:65:0D:03:CE:75:93:D2:ED:3F:2D:32:C9:E3:E5:4A

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_CERTIFICATE

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "AC RAIZ FNMT-RCM SERVIDORES SEGUROS"

CKA\_CERTIFICATE\_TYPE CK\_CERTIFICATE\_TYPE CKC\_X\_509

CKA\_SUBJECT MULTILINE\_OCTAL

\060\170\061\013\060\011\006\003\125\004\006\023\002\105\123\061  
\021\060\017\006\003\125\004\012\014\010\106\116\115\124\055\122

\103\115\061\016\060\014\006\003\125\004\013\014\005\103\145\162  
\145\163\061\030\060\026\006\003\125\004\141\014\017\126\101\124  
\105\123\055\121\062\070\062\066\060\060\064\112\061\054\060\052  
\006\003\125\004\003\014\043\101\103\040\122\101\111\132\040\106  
\116\115\124\055\122\103\115\040\123\105\122\126\111\104\117\122  
\105\123\040\123\105\107\125\122\117\123

END

CKA\_ID UTF8 "0"

CKA\_ISSUER MULTILINE\_OCTAL

\060\170\061\013\060\011\006\003\125\004\006\023\002\105\123\061  
\021\060\017\006\003\125\004\012\014\010\106\116\115\124\055\122  
\103\115\061\016\060\014\006\003\125\004\013\014\005\103\145\162  
\145\163\061\030\060\026\006\003\125\004\141\014\017\126\101\124  
\105\123\055\121\062\070\062\066\060\060\064\112\061\054\060\052  
\006\003\125\004\003\014\043\101\103\040\122\101\111\132\040\106  
\116\115\124\055\122\103\115\040\123\105\122\126\111\104\117\122  
\105\123\040\123\105\107\125\122\117\123

END

CKA\_SERIAL\_NUMBER

MULTILINE\_OCTAL

\002\020\142\366\062\154\345\304\343\150\134\033\142\335\234\056  
\235\225

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\002\156\060\202\001\363\240\003\002\001\002\002\020\142  
\366\062\154\345\304\343\150\134\033\142\335\234\056\235\225\060  
\012\006\010\052\206\110\316\075\004\003\003\060\170\061\013\060  
\011\006\003\125\004\006\023\002\105\123\061\021\060\017\006\003  
\125\004\012\014\010\106\116\115\124\055\122\103\115\061\016\060  
\014\006\003\125\004\013\014\005\103\145\162\145\163\061\030\060  
\026\006\003\125\004\141\014\017\126\101\124\105\123\055\121\062  
\070\062\066\060\060\064\112\061\054\060\052\006\003\125\004\003  
\014\043\101\103\040\122\101\111\132\040\106\116\115\124\055\122  
\103\115\040\123\105\122\126\111\104\117\122\105\123\040\123\105  
\107\125\122\117\123\060\036\027\015\061\070\061\062\062\060\060  
\071\063\067\063\063\132\027\015\064\063\061\062\062\060\060\071  
\063\067\063\063\132\060\170\061\013\060\011\006\003\125\004\006  
\023\002\105\123\061\021\060\017\006\003\125\004\012\014\010\106  
\116\115\124\055\122\103\115\061\016\060\014\006\003\125\004\013  
\014\005\103\145\162\145\163\061\030\060\026\006\003\125\004\141  
\014\017\126\101\124\105\123\055\121\062\070\062\066\060\060\064  
\112\061\054\060\052\006\003\125\004\003\014\043\101\103\040\122  
\101\111\132\040\106\116\115\124\055\122\103\115\040\123\105\122  
\126\111\104\117\122\105\123\040\123\105\107\125\122\117\123\060  
\166\060\020\006\007\052\206\110\316\075\002\001\006\005\053\201  
\004\000\042\003\142\000\004\366\272\127\123\310\312\253\337\066  
\112\122\041\344\227\322\203\147\236\360\145\121\320\136\207\307  
\107\261\131\362\127\107\233\000\002\223\104\027\151\333\102\307

```
\261\262\072\030\016\264\135\214\263\146\135\241\064\371\066\054
\111\333\363\106\374\263\104\151\104\023\146\375\327\305\375\257
\066\115\316\003\115\007\161\317\257\152\005\322\242\103\132\012
\122\157\001\003\116\216\213\243\102\060\100\060\017\006\003\125
\035\023\001\001\377\004\005\060\003\001\001\377\060\016\006\003
\125\035\017\001\001\377\004\004\003\002\001\006\060\035\006\003
\125\035\016\004\026\004\024\001\271\057\357\277\021\206\140\362
\117\320\101\156\253\163\037\347\322\156\111\060\012\006\010\052
\206\110\316\075\004\003\003\003\151\000\060\146\002\061\000\256
\112\343\053\100\303\164\021\362\225\255\026\043\336\116\014\032
\346\135\245\044\136\153\104\173\374\070\342\117\313\234\105\027
\021\114\024\047\046\125\071\165\112\003\314\023\220\237\222\002
\061\000\372\112\154\140\210\163\363\356\270\230\142\251\316\053
\302\331\212\246\160\061\035\257\260\224\114\353\117\306\343\321
\363\142\247\074\377\223\056\007\134\111\001\147\151\022\002\162
\277\347
```

END

CKA\_NSS\_MOZILLA\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "AC RAIZ FNMT-RCM SERVIDORES SEGUROS"

# Issuer: CN=AC RAIZ FNMT-RCM SERVIDORES SEGUROS,OID.2.5.4.97=VATES-  
Q2826004J,OU=Ceres,O=FNMT-RCM,C=ES

# Serial Number:62:f6:32:6c:e5:c4:e3:68:5c:1b:62:dd:9c:2e:9d:95

# Subject: CN=AC RAIZ FNMT-RCM SERVIDORES SEGUROS,OID.2.5.4.97=VATES-  
Q2826004J,OU=Ceres,O=FNMT-RCM,C=ES

# Not Valid Before: Thu Dec 20 09:37:33 2018

# Not Valid After : Sun Dec 20 09:37:33 2043

# Fingerprint (SHA-256):

55:41:53:B1:3D:2C:F9:DD:B7:53:BF:BE:1A:4E:0A:E0:8D:0A:A4:18:70:58:FE:60:A2:B8:62:B2:E4:B8:7B:CB

# Fingerprint (SHA1): 62:FF:D9:9E:C0:65:0D:03:CE:75:93:D2:ED:3F:2D:32:C9:E3:E5:4A

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "AC RAIZ FNMT-RCM SERVIDORES SEGUROS"

CKA\_CERT\_SHA1\_HASH

MULTILINE\_OCTAL

```
\142\377\331\236\300\145\015\003\316\165\223\322\355\077\055\062
\311\343\345\112
```

END

CKA\_CERT\_MD5\_HASH MULTILINE\_OCTAL

```
\031\066\234\122\003\057\322\321\273\043\314\335\036\022\125\273
```

END

CKA\_ISSUER MULTILINE\_OCTAL

```
\060\170\061\013\060\011\006\003\125\004\006\023\002\105\123\061
```

```
\021\060\017\006\003\125\004\012\014\010\106\116\115\124\055\122
\103\115\061\016\060\014\006\003\125\004\013\014\005\103\145\162
\145\163\061\030\060\026\006\003\125\004\141\014\017\126\101\124
\105\123\055\121\062\070\062\066\060\060\064\112\061\054\060\052
\006\003\125\004\003\014\043\101\103\040\122\101\111\132\040\106
\116\115\124\055\122\103\115\040\123\105\122\126\111\104\117\122
\105\123\040\123\105\107\125\122\117\123
```

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

```
\002\020\142\366\062\154\345\304\343\150\134\033\142\335\234\056
\235\225
```

END

CKA\_TRUST\_SERVER\_AUTH CK\_TRUST CKT\_NSS\_TRUSTED\_DELEGATOR

CKA\_TRUST\_EMAIL\_PROTECTION CK\_TRUST CKT\_NSS\_MUST\_VERIFY\_TRUST

CKA\_TRUST\_CODE\_SIGNING

CK\_TRUST CKT\_NSS\_MUST\_VERIFY\_TRUST

CKA\_TRUST\_STEP\_UP\_APPROVED CK\_BBOOL CK\_FALSE

#

# Certificate "GlobalSign Secure Mail Root R45"

#

# Issuer: CN=GlobalSign Secure Mail Root R45,O=GlobalSign nv-sa,C=BE

# Serial Number:76:53:fe:a8:4c:50:ab:9f:8d:32:b5:1d:03:8f:57:dc

# Subject: CN=GlobalSign Secure Mail Root R45,O=GlobalSign nv-sa,C=BE

# Not Valid Before: Wed Mar 18 00:00:00 2020

# Not Valid After : Sat Mar 18 00:00:00 2045

# Fingerprint (SHA-256):

31:9A:F0:A7:72:9E:6F:89:26:9C:13:1E:A6:A3:A1:6F:CD:86:38:9F:DC:AB:3C:47:A4:A6:75:C1:61:A3:F9:74

# Fingerprint (SHA1): 76:18:D1:F3:80:24:3D:52:40:C6:11:6A:AD:57:77:09:7D:81:30:A0

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_CERTIFICATE

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "GlobalSign Secure Mail Root R45"

CKA\_CERTIFICATE\_TYPE CK\_CERTIFICATE\_TYPE CKC\_X\_509

CKA\_SUBJECT MULTILINE\_OCTAL

```
\060\122\061\013\060\011\006\003\125\004\006\023\002\102\105\061
\031\060\027\006\003\125\004\012\023\020\107\154\157\142\141\154
\123\151\147\156\040\156\166\055\163\141\061\050\060\046\006\003
\125\004\003\023\037\107\154\157\142\141\154\123\151\147\156\040
\123\145\143\165\162\145\040\115\141\151\154\040\122\157\157\164
\040\122\064\065
```

END

CKA\_ID

UTF8 "0"

CKA\_ISSUER MULTILINE\_OCTAL

```
\060\122\061\013\060\011\006\003\125\004\006\023\002\102\105\061
\031\060\027\006\003\125\004\012\023\020\107\154\157\142\141\154
```

\123\151\147\156\040\156\166\055\163\141\061\050\060\046\006\003  
\125\004\003\023\037\107\154\157\142\141\154\123\151\147\156\040  
\123\145\143\165\162\145\040\115\141\151\154\040\122\157\157\164  
\040\122\064\065

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

\002\020\166\123\376\250\114\120\253\237\215\062\265\035\003\217  
\127\334

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\005\160\060\202\003\130\240\003\002\001\002\002\020\166  
\123\376\250\114\120\253\237\215\062\265\035\003\217\127\334\060  
\015\006\011\052\206\110\206\367\015\001\001\014\005\000\060\122  
\061\013\060\011\006\003\125\004\006\023\002\102\105\061\031\060  
\027\006\003\125\004\012\023\020\107\154\157\142\141\154\123\151  
\147\156\040\156\166\055\163\141\061\050\060\046\006\003\125\004  
\003\023\037\107\154\157\142\141\154\123\151\147\156\040\123\145  
\143\165\162\145\040\115\141\151\154\040\122\157\157\164\040\122  
\064\065\060\036\027\015\062\060\060\063\061\070\060\060\060\060  
\060\060\132\027\015\064\065\060\063\061\070\060\060\060\060\060  
\060\132\060\122\061\013\060\011\006\003\125\004\006\023\002\102  
\105\061\031\060\027\006\003\125\004\012\023\020\107\154\157\142  
\141\154\123\151\147\156\040\156\166\055\163\141\061\050\060\046  
\006\003\125\004\003\023\037\107\154\157\142\141\154\123\151\147  
\156\040\123\145\143\165\162\145\040\115\141\151\154\040\122\157  
\157\164\040\122\064\065\060\202\002\042\060\015\006\011\052\206  
\110\206\367\015\001\001\001\005\000\003\202\002\017\000\060\202  
\002\012\002\202\002\001\000\334\171\314\155\006\371\155\273\340  
\126\004\154\177\340\165\314\055\005\111\350\113\334\124\354\133  
\167\225\162\277\177\142\235\205\251\212\044\120\137\123\345\333  
\164\157\244\051\133\023\052\011\255\232\305\057\302\367\166\073  
\241\105\106\252\103\346\044\376\053\260\157\062\160\031\106\132  
\171\046\057\374\075\175\137\144\313\127\314\141\141\250\331\225  
\156\343\225\240\156\177\107\022\030\326\357\003\311\373\212\372  
\232\275\202\025\251\125\167\113\021\117\131\340\153\303\161\363  
\014\330\124\325\201\150\076\023\271\025\056\207\212\074\104\047  
\066\142\044\156\370\054\005\162\060\141\275\102\221\043\304\235  
\045\247\331\124\232\024\243\061\255\200\171\014\247\143\154\230  
\243\254\127\107\063\037\145\226\341\320\322\065\332\371\161\367  
\241\246\045\265\101\135\337\076\140\330\321\366\237\245\362\270  
\314\023\252\217\371\262\156\341\203\055\223\335\076\205\032\335  
\350\261\134\046\001\313\111\205\374\374\322\324\177\205\142\206  
\164\371\313\354\065\042\242\014\060\217\073\253\171\353\126\362  
\372\102\363\355\371\037\105\211\100\051\255\352\222\164\352\122  
\375\126\264\053\332\242\355\165\302\156\253\316\122\220\113\366  
\336\360\111\217\232\110\324\210\031\155\105\346\314\214\271\335  
\144\140\140\002\100\370\271\317\274\130\353\075\205\271\306\012  
\323\234\007\146\217\307\030\071\043\106\341\074\036\243\057\120

\141\222\013\075\053\154\361\243\107\070\127\221\253\015\217\306  
\235\115\004\322\046\122\134\345\245\375\052\055\026\052\001\151  
\347\251\175\341\066\267\261\052\305\331\261\215\275\271\213\316  
\314\213\241\076\013\110\315\120\225\064\304\330\010\131\330\153  
\046\364\276\365\324\042\027\000\127\311\256\233\004\060\063\237  
\013\373\337\126\242\311\156\124\166\332\261\227\142\047\131\017  
\021\212\042\033\144\226\077\250\361\267\044\112\215\074\123\174  
\155\203\166\075\262\046\110\163\365\104\026\001\055\011\052\216  
\026\226\120\320\163\006\135\273\042\110\202\114\012\106\132\077  
\200\377\134\362\362\232\254\054\010\340\326\352\360\022\070\201  
\117\246\020\355\106\253\314\026\234\013\317\144\246\231\002\205  
\104\147\106\255\375\115\347\002\003\001\000\001\243\102\060\100  
\060\016\006\003\125\035\017\001\001\377\004\004\003\002\001\206  
\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001  
\377\060\035\006\003\125\035\016\004\026\004\024\240\223\025\050  
\156\356\217\010\262\065\306\236\142\171\164\247\261\016\053\173  
\060\015\006\011\052\206\110\206\367\015\001\001\014\005\000\003  
\202\002\001\000\105\012\370\321\134\254\142\201\320\004\327\266  
\377\127\121\211\013\014\313\336\044\145\067\373\253\236\355\146  
\364\352\014\031\151\211\270\031\261\060\126\264\331\366\367\276  
\306\256\227\313\105\366\021\214\072\060\144\114\301\237\131\300  
\106\102\010\006\107\144\027\170\340\225\007\006\326\214\242\254  
\251\331\077\323\173\126\117\374\304\207\050\337\266\053\026\043  
\300\237\037\133\343\326\104\136\042\117\043\004\214\065\026\265  
\171\007\206\134\057\227\342\366\010\144\246\334\333\250\212\343  
\244\173\167\015\321\051\223\050\040\264\123\243\113\116\137\336  
\301\366\165\043\374\037\074\170\117\160\061\170\057\242\065\124  
\161\004\254\310\304\155\303\366\221\261\376\315\356\104\156\201  
\366\100\305\076\052\001\277\253\114\261\003\077\015\021\344\017  
\322\044\343\042\210\233\237\137\107\075\121\111\340\011\067\176  
\027\041\061\166\267\147\161\110\050\113\045\327\020\350\237\141  
\131\026\305\076\062\116\037\014\316\243\314\017\344\307\021\007  
\042\057\070\010\335\133\227\353\102\154\131\232\232\356\172\320  
\235\337\305\333\011\103\056\012\252\031\075\153\350\152\060\172  
\127\346\277\263\152\071\251\217\343\361\117\145\150\266\275\237  
\050\217\241\026\132\011\120\072\062\056\035\057\104\021\102\246  
\000\346\061\230\377\055\241\017\346\244\140\126\317\171\327\262  
\116\327\260\372\156\014\127\043\307\316\037\245\261\114\155\031  
\111\236\016\177\160\217\161\077\130\050\237\165\335\141\340\072  
\267\071\266\356\227\324\065\121\373\213\111\140\310\074\146\256  
\227\356\215\046\131\127\273\170\360\172\120\060\011\260\140\252  
\237\116\334\311\076\036\072\334\142\223\063\260\072\124\164\157  
\054\061\105\321\153\021\062\152\150\166\366\075\366\152\023\136  
\044\230\347\352\035\232\317\170\202\007\140\367\115\020\323\201  
\232\105\215\236\257\233\334\200\307\103\262\225\150\244\303\016  
\350\012\107\025\277\124\063\334\001\347\325\246\036\163\330\172  
\262\277\057\255\343\125\060\236\337\016\101\274\340\021\365\241  
\014\250\042\341\343\000\243\116\160\174\222\343\004\321\172\102

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\212\165\220\131\343\233\321\114\242\144\275\163\171\233\157\362
\263\301\366\074
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRICT_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRICT_AFTER CK_BBOOL CK_FALSE

Trust for "GlobalSign Secure Mail Root R45"
Issuer: CN=GlobalSign Secure Mail Root R45,O=GlobalSign nv-sa,C=BE
Serial Number:76:53:fe:a8:4c:50:ab:9f:8d:32:b5:1d:03:8f:57:dc
Subject: CN=GlobalSign Secure Mail Root R45,O=GlobalSign nv-sa,C=BE
Not Valid Before: Wed Mar 18 00:00:00 2020
Not Valid After : Sat Mar 18 00:00:00 2045
Fingerprint (SHA-256):
31:9A:F0:A7:72:9E:6F:89:26:9C:13:1E:A6:A3:A1:6F:CD:86:38:9F:DC:AB:3C:47:A4:A6:75:C1:61:A3:F9:74
#
Fingerprint (SHA1): 76:18:D1:F3:80:24:3D:52:40:C6:11:6A:AD:57:77:09:7D:81:30:A0
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign Secure Mail Root R45"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\166\030\321\363\200\044\075\122\100\306\021\152\255\127\167\011
\175\201\060\240
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\223\304\173\263\016\124\107\034\103\054\213\276\160\205\142\051
END
CKA_ISSUER MULTILINE_OCTAL
\060\122\061\013\060\011\006\003\125\004\006\023\002\102\105\061
\031\060\027\006\003\125\004\012\023\020\107\154\157\142\141\154
\123\151\147\156\040\156\166\055\163\141\061\050\060\046\006\003
\125\004\003\023\037\107\154\157\142\141\154\123\151\147\156\040
\123\145\143\165\162\145\040\115\141\151\154\040\122\157\157\164
\040\122\064\065
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\166\123\376\250\114\120\253\237\215\062\265\035\003\217
\127\334
END
CKA_TRUST_SERVER_AUTH
CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

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#
Certificate "GlobalSign Secure Mail Root E45"
#
Issuer: CN=GlobalSign Secure Mail Root E45,O=GlobalSign nv-sa,C=BE
Serial Number:76:53:fe:aa:27:1d:95:46:5d:d6:f1:9e:e5:b8:90:0a
Subject: CN=GlobalSign Secure Mail Root E45,O=GlobalSign nv-sa,C=BE
Not Valid Before: Wed Mar 18 00:00:00 2020
Not Valid After : Sat Mar 18 00:00:00 2045
Fingerprint (SHA-256):
5C:BF:6F:B8:1F:D4:17:EA:41:28:CD:6F:81:72:A3:C9:40:20:94:F7:4A:B2:ED:3A:06:B4:40:5D:04:F3:0B:19
Fingerprint (SHA1): 18:2E:1F:32:4F:89:DF:BE:FE:88:89:F0:93:C2:C4:A0:2B:67:75:21
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign Secure Mail Root E45"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE
CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\122\061\013\060\011\006\003\125\004\006\023\002\102\105\061
\031\060\027\006\003\125\004\012\023\020\107\154\157\142\141\154
\123\151\147\156\040\156\166\055\163\141\061\050\060\046\006\003
\125\004\003\023\037\107\154\157\142\141\154\123\151\147\156\040
\123\145\143\165\162\145\040\115\141\151\154\040\122\157\157\164
\040\105\064\065
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\122\061\013\060\011\006\003\125\004\006\023\002\102\105\061
\031\060\027\006\003\125\004\012\023\020\107\154\157\142\141\154
\123\151\147\156\040\156\166\055\163\141\061\050\060\046\006\003
\125\004\003\023\037\107\154\157\142\141\154\123\151\147\156\040
\123\145\143\165\162\145\040\115\141\151\154\040\122\157\157\164
\040\105\064\065
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\166\123\376\252\047\035\225\106\135\326\361\236\345\270
\220\012
END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\041\060\202\001\247\240\003\002\001\002\002\020\166
\123\376\252\047\035\225\106\135\326\361\236\345\270\220\012\060
\012\006\010\052\206\110\316\075\004\003\003\060\122\061\013\060
\011\006\003\125\004\006\023\002\102\105\061\031\060\027\006\003
\125\004\012\023\020\107\154\157\142\141\154\123\151\147\156\040
\156\166\055\163\141\061\050\060\046\006\003\125\004\003\023\037
\107\154\157\142\141\154\123\151\147\156\040\123\145\143\165\162
\145\040\115\141\151\154\040\122\157\157\164\040\105\064\065\060

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\036\027\015\062\060\060\063\061\070\060\060\060\060\060\060\132  
\027\015\064\065\060\063\061\070\060\060\060\060\060\060\132\060  
\122\061\013\060\011\006\003\125\004\006\023\002\102\105\061\031  
\060\027\006\003\125\004\012\023\020\107\154\157\142\141\154\123  
\151\147\156\040\156\166\055\163\141\061\050\060\046\006\003\125  
\004\003\023\037\107\154\157\142\141\154\123\151\147\156\040\123  
\145\143\165\162\145\040\115\141\151\154\040\122\157\157\164\040  
\105\064\065\060\166\060\020\006\007\052\206\110\316\075\002\001  
\006\005\053\201\004\000\042\003\142\000\004\371\171\213\201\107  
\067\211\226\077\105\111\120\177\032\046\013\223\062\176\056\300  
\300\247\010\232\303\156\217\233\076\013\042\354\067\123\267\157  
\212\260\274\047\067\113\155\251\106\073\331\037\377\245\241\104  
\273\055\163\277\236\101\007\134\123\233\121\010\072\132\273\157  
\070\307\026\221\170\302\112\023\151\035\202\337\132\057\000\210  
\226\242\056\034\164\371\235\176\146\067\212\243\102\060\100\060  
\016\006\003\125\035\017\001\001\377\004\004\003\002\001\206\060  
\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001\377  
\060\035\006\003\125\035\016\004\026\004\024\337\023\136\213\137  
\302\100\002\375\126\267\224\114\266\036\325\246\261\024\226\060  
\012\006\010\052\206\110\316\075\004\003\003\003\150\000\060\145  
\002\060\023\260\276\327\161\040\076\344\253\234\316\066\022\175  
\137\114\037\052\265\151\105\063\137\323\055\132\262\344\210\307  
\336\012\066\102\062\171\235\246\153\272\341\371\104\052\173\212  
\303\022\002\061\000\240\146\034\116\207\235\207\311\355\231\114  
\033\012\356\055\140\303\067\307\035\315\265\162\260\331\306\357  
\274\362\377\077\360\122\335\010\347\252\144\171\303\344\151\127  
\221\057\244\313\174

END

CKA\_NSS\_MOZILLA\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "GlobalSign Secure Mail Root E45"

# Issuer: CN=GlobalSign Secure Mail Root E45,O=GlobalSign nv-sa,C=BE

# Serial Number: 76:53:fe:aa:27:1d:95:46:5d:d6:f1:9e:e5:b8:90:0a

# Subject: CN=GlobalSign Secure Mail Root E45,O=GlobalSign nv-sa,C=BE

# Not Valid Before: Wed Mar 18 00:00:00 2020

# Not Valid After : Sat Mar 18 00:00:00 2045

# Fingerprint (SHA-256):

5C:BF:6F:B8:1F:D4:17:EA:41:28:CD:6F:81:72:A3:C9:40:20:94:F7:4A:B2:ED:3A:06:B4:40:5D:04:F3:0B:19

# Fingerprint (SHA1): 18:2E:1F:32:4F:89:DF:BE:FE:88:89:F0:93:C2:C4:A0:2B:67:75:21

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "GlobalSign Secure Mail Root

```

E45"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\030\056\037\062\117\211\337\276\376\210\211\360\223\302\304\240
\053\147\165\041
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\305\374\306\056\237\364\122\055\052\250\244\272\373\147\062\377
END
CKA_ISSUER MULTILINE_OCTAL
\060\122\061\013\060\011\006\003\125\004\006\023\002\102\105\061
\031\060\027\006\003\125\004\012\023\020\107\154\157\142\141\154
\123\151\147\156\040\156\166\055\163\141\061\050\060\046\006\003
\125\004\003\023\037\107\154\157\142\141\154\123\151\147\156\040
\123\145\143\165\162\145\040\115\141\151\154\040\122\157\157\164
\040\105\064\065
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\166\123\376\252\047\035\225\106\135\326\361\236\345\270
\220\012
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "GlobalSign Root R46"
#
Issuer: CN=GlobalSign
Root R46,O=GlobalSign nv-sa,C=BE
Serial Number:11:d2:bb:b9:d7:23:18:9e:40:5f:0a:9d:2d:d0:df:25:67:d1
Subject: CN=GlobalSign Root R46,O=GlobalSign nv-sa,C=BE
Not Valid Before: Wed Mar 20 00:00:00 2019
Not Valid After : Tue Mar 20 00:00:00 2046
Fingerprint (SHA-256):
4F:A3:12:6D:8D:3A:11:D1:C4:85:5A:4F:80:7C:BA:D6:CF:91:9D:3A:5A:88:B0:3B:EA:2C:63:72:D9:3C:40:C9
Fingerprint (SHA1): 53:A2:B0:4B:CA:6B:D6:45:E6:39:8A:8E:C4:0D:D2:BF:77:C3:A2:90
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign Root R46"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\106\061\013\060\011\006\003\125\004\006\023\002\102\105\061
\031\060\027\006\003\125\004\012\023\020\107\154\157\142\141\154
\123\151\147\156\040\156\166\055\163\141\061\034\060\032\006\003
\125\004\003\023\023\107\154\157\142\141\154\123\151\147\156\040

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\122\157\157\164\040\122\064\066
END
CKA_ID
UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\106\061\013\060\011\006\003\125\004\006\023\002\102\105\061
\031\060\027\006\003\125\004\012\023\020\107\154\157\142\141\154
\123\151\147\156\040\156\166\055\163\141\061\034\060\032\006\003
\125\004\003\023\023\107\154\157\142\141\154\123\151\147\156\040
\122\157\157\164\040\122\064\066
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\022\021\322\273\271\327\043\030\236\100\137\012\235\055\320
\337\045\147\321
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\132\060\202\003\102\240\003\002\001\002\002\022\021
\322\273\271\327\043\030\236\100\137\012\235\055\320\337\045\147
\321\060\015\006\011\052\206\110\206\367\015\001\001\014\005\000
\060\106\061\013\060\011\006\003\125\004\006\023\002\102\105\061
\031\060\027\006\003\125\004\012\023\020\107\154\157\142\141\154
\123\151\147\156\040\156\166\055\163\141\061\034\060\032\006\003
\125\004\003\023\023\107\154\157\142\141\154\123\151\147\156\040
\122\157\157\164\040\122\064\066\060\036\027\015\061\071\060\063
\062\060\060\060\060\060\060\060\132\027\015\064\066\060\063\062
\060\060\060\060\060\060\060\132\060\106\061\013\060\011\006\003
\125\004\006\023\002\102\105\061\031\060\027\006\003\125\004\012
\023\020\107\154\157\142\141\154\123\151\147\156\040\156\166\055
\163\141\061\034\060\032\006\003\125\004\003\023\023\107\154\157
\142\141\154\123\151\147\156\040\122\157\157\164\040\122\064\066
\060\202\002\042\060\015\006\011\052\206\110\206\367\015\001\001
\001\005\000\003\202\002\017\000\060\202\002\012\002\202\002\001
\000\254\254\164\062\350\263\145\345\272\355\103\046\035\246\211
\015\105\272\051\210\262\244\035\143\335\323\301\054\011\127\211
\071\241\125\351\147\064\167\014\156\344\125\035\122\045\322\023
\153\136\341\035\251\267\175\211\062\137\015\236\237\054\172\143
\140\100\037\246\260\266\170\217\231\124\226\010\130\256\344\006
\274\142\005\002\026\277\257\250\043\003\266\224\017\274\156\154
\302\313\325\246\273\014\351\366\301\002\373\041\336\146\335\027
\253\164\102\357\360\164\057\045\364\352\153\125\133\220\333\235
\337\136\207\012\100\373\255\031\153\373\367\312\140\210\336\332
\301\217\326\256\325\177\324\074\203\356\327\026\114\203\105\063
\153\047\320\206\320\034\055\153\363\253\175\361\205\251\365\050
\322\255\357\363\204\113\034\207\374\023\243\072\162\242\132\021
\053\326\047\161\047\355\201\055\155\146\201\222\207\264\033\130
\172\314\077\012\372\106\117\115\170\134\370\053\110\343\004\204
\313\135\366\264\152\263\145\374\102\236\121\046\043\040\313\075
\024\371\201\355\145\026\000\117\032\144\227\146\010\317\214\173
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\343\053\300\235\371\024\362\033\361\126\152\026\277\054\205\205  
\315\170\070\232\353\102\152\002\064\030\203\027\116\224\126\370  
\266\202\265\363\226\335\075\363\276\177\040\167\076\173\031\043  
\153\054\324\162\163\103\127\175\340\370\327\151\117\027\066\004  
\371\300\220\140\067\105\336\346\014\330\164\215\256\234\242\155  
\164\135\102\276\006\365\331\144\156\002\020\254\211\260\114\073  
\007\115\100\176\044\305\212\230\202\171\216\244\247\202\040\215  
\043\372\047\161\311\337\306\101\164\240\115\366\221\026\334\106  
\214\137\051\143\061\131\161\014\330\157\302\266\062\175\373\346  
\135\123\246\176\025\374\273\165\174\135\354\370\366\027\034\354  
\307\153\031\313\363\173\360\053\007\245\331\154\171\124\166\154  
\235\034\246\156\016\351\171\014\250\043\152\243\337\033\060\061  
\237\261\124\173\376\152\313\146\252\334\145\320\242\236\112\232  
\007\041\153\201\217\333\304\131\372\336\042\300\004\234\343\252  
\133\066\223\350\075\275\172\241\235\013\166\261\013\307\235\375  
\317\230\250\006\302\370\052\243\241\203\240\267\045\162\245\002  
\343\002\003\001\000\001\243\102\060\100\060\016\006\003\125\035  
\017\001\001\377\004\004\003\002\001\206\060\017\006\003\125\035  
\023\001\001\377\004\005\060\003\001\001\377\060\035\006\003\125  
\035\016\004\026\004\024\003\134\253\163\201\207\250\314\260\246  
\325\224\342\066\226\111\377\005\231\054\060\015\006\011\052\206  
\110\206\367\015\001\001\014\005\000\003\202\002\001\000\174\170  
\354\366\002\054\273\133\176\222\053\135\071\334\276\330\035\242  
\102\063\115\371\357\244\052\073\104\151\036\254\331\105\243\116  
\074\247\330\044\121\262\124\034\223\116\304\357\173\223\205\140  
\046\352\011\110\340\365\273\307\351\150\322\273\152\061\161\314  
\171\256\021\250\360\231\375\345\037\274\057\250\314\127\353\166  
\304\041\246\107\123\125\115\150\277\005\244\356\327\046\253\142  
\332\103\067\113\342\306\265\345\262\203\031\072\307\323\333\115  
\236\010\172\363\356\317\076\142\373\254\350\140\314\321\307\241  
\134\203\105\304\105\314\363\027\153\024\311\004\002\076\322\044  
\246\171\351\036\316\242\347\301\131\025\237\035\342\113\232\076  
\237\166\010\055\153\330\272\127\024\332\203\352\376\214\125\351  
\320\116\251\314\167\061\261\104\021\172\134\261\076\323\024\105  
\025\030\142\044\023\322\313\115\316\134\203\301\066\362\020\265  
\016\210\155\270\341\126\237\211\336\226\146\071\107\144\054\156  
\115\256\142\173\277\140\164\031\270\126\254\222\254\026\062\355  
\255\150\125\376\230\272\323\064\336\364\311\141\303\016\206\366  
\113\204\140\356\015\173\265\062\130\171\221\125\054\201\103\263  
\164\037\172\252\045\236\035\327\241\213\271\315\102\056\004\244  
\146\203\115\211\065\266\154\250\066\112\171\041\170\042\320\102  
\274\321\100\061\220\241\276\004\317\312\147\355\365\360\200\323  
\140\311\203\052\042\005\320\007\073\122\277\014\236\252\053\371  
\273\346\037\217\045\272\205\215\027\036\002\376\135\120\004\127  
\317\376\055\274\357\134\300\032\253\266\237\044\306\337\163\150  
\110\220\054\024\364\077\122\032\344\322\313\024\303\141\151\317  
\342\371\030\305\272\063\237\024\243\004\135\271\161\367\265\224  
\330\366\063\301\132\301\064\213\174\233\335\223\072\347\023\242

```
\160\141\237\257\217\353\330\305\165\370\063\146\324\164\147\072
\067\167\234\347\335\244\017\166\103\146\212\103\362\237\373\014
\102\170\143\321\342\017\157\173\324\241\075\164\227\205\267\110
\071\101\326\040\374\320\072\263\372\350\157\304\212\272\161\067
\276\213\227\261\170\061\117\263\347\266\003\023\316\124\235\256
\045\131\314\177\065\137\010\367\100\105\061\170\052\172
```

END

CKA\_NSS\_MOZILLA\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "GlobalSign Root R46"

# Issuer: CN=GlobalSign Root R46,O=GlobalSign nv-sa,C=BE

# Serial Number: 11:d2:bb:b9:d7:23:18:9e:40:5f:0a:9d:2d:d0:df:25:67:d1

# Subject: CN=GlobalSign Root R46,O=GlobalSign nv-sa,C=BE

# Not Valid Before: Wed Mar 20 00:00:00 2019

# Not Valid After : Tue Mar 20 00:00:00 2046

# Fingerprint (SHA-256):

4F:A3:12:6D:8D:3A:11:D1:C4:85:5A:4F:80:7C:BA:D6:CF:91:9D:3A:5A:88:B0:3B:EA:2C:63:72:D9:3C:40:C9

# Fingerprint (SHA1): 53:A2:B0:4B:CA:6B:D6:45:E6:39:8A:8E:C4:0D:D2:BF:77:C3:A2:90

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "GlobalSign Root R46"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

```
\123\242\260\113\312\153\326\105\346\071\212\216\304\015\322\277
```

```
\167\303\242\220
```

END

CKA\_CERT\_MD5\_HASH

MULTILINE\_OCTAL

```
\304\024\060\344\372\146\103\224\052\152\033\044\137\031\320\357
```

END

CKA\_ISSUER MULTILINE\_OCTAL

```
\060\106\061\013\060\011\006\003\125\004\006\023\002\102\105\061
```

```
\031\060\027\006\003\125\004\012\023\020\107\154\157\142\141\154
```

```
\123\151\147\156\040\156\166\055\163\141\061\034\060\032\006\003
```

```
\125\004\003\023\023\107\154\157\142\141\154\123\151\147\156\040
```

```
\122\157\157\164\040\122\064\066
```

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

```
\002\022\021\322\273\271\327\043\030\236\100\137\012\235\055\320
```

```
\337\045\147\321
```

END

CKA\_TRUST\_SERVER\_AUTH CK\_TRUST CKT\_NSS\_TRUSTED\_DELEGATOR

CKA\_TRUST\_EMAIL\_PROTECTION CK\_TRUST CKT\_NSS\_MUST\_VERIFY\_TRUST

CKA\_TRUST\_CODE\_SIGNING CK\_TRUST CKT\_NSS\_MUST\_VERIFY\_TRUST

CKA\_TRUST\_STEP\_UP\_APPROVED CK\_BBOOL CK\_FALSE

#

# Certificate "GlobalSign Root E46"

#

# Issuer: CN=GlobalSign Root E46,O=GlobalSign nv-sa,C=BE

# Serial Number:11:d2:bb:ba:33:6e:d4:bc:e6:24:68:c5:0d:84:1d:98:e8:43

# Subject: CN=GlobalSign Root E46,O=GlobalSign nv-sa,C=BE

#

Not Valid Before: Wed Mar 20 00:00:00 2019

# Not Valid After : Tue Mar 20 00:00:00 2046

# Fingerprint (SHA-256):

CB:B9:C4:4D:84:B8:04:3E:10:50:EA:31:A6:9F:51:49:55:D7:BF:D2:E2:C6:B4:93:01:01:9A:D6:1D:9F:50:58

# Fingerprint (SHA1): 39:B4:6C:D5:FE:80:06:EB:E2:2F:4A:BB:08:33:A0:AF:DB:B9:DD:84

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_CERTIFICATE

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "GlobalSign Root E46"

CKA\_CERTIFICATE\_TYPE CK\_CERTIFICATE\_TYPE CKC\_X\_509

CKA\_SUBJECT MULTILINE\_OCTAL

\060\106\061\013\060\011\006\003\125\004\006\023\002\102\105\061  
\031\060\027\006\003\125\004\012\023\020\107\154\157\142\141\154  
\123\151\147\156\040\156\166\055\163\141\061\034\060\032\006\003  
\125\004\003\023\023\107\154\157\142\141\154\123\151\147\156\040  
\122\157\157\164\040\105\064\066

END

CKA\_ID UTF8 "0"

CKA\_ISSUER MULTILINE\_OCTAL

\060\106\061\013\060\011\006\003\125\004\006\023\002\102\105\061  
\031\060\027\006\003\125\004\012\023\020\107\154\157\142\141\154  
\123\151\147\156\040\156\166\055\163\141\061\034\060\032\006\003  
\125\004\003\023\023\107\154\157\142\141\154\123\151\147\156\040  
\122\157\157\164\040\105\064\066

END

CKA\_SERIAL\_NUMBER

MULTILINE\_OCTAL

\002\022\021\322\273\272\063\156\324\274\346\044\150\305\015\204  
\035\230\350\103

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\002\013\060\202\001\221\240\003\002\001\002\002\022\021  
\322\273\272\063\156\324\274\346\044\150\305\015\204\035\230\350  
\103\060\012\006\010\052\206\110\316\075\004\003\003\060\106\061  
\013\060\011\006\003\125\004\006\023\002\102\105\061\031\060\027  
\006\003\125\004\012\023\020\107\154\157\142\141\154\123\151\147  
\156\040\156\166\055\163\141\061\034\060\032\006\003\125\004\003  
\023\023\107\154\157\142\141\154\123\151\147\156\040\122\157\157

\164\040\105\064\066\060\036\027\015\061\071\060\063\062\060\060  
\060\060\060\060\060\060\132\027\015\064\066\060\063\062\060\060\060  
\060\060\060\060\132\060\106\061\013\060\011\006\003\125\004\006  
\023\002\102\105\061\031\060\027\006\003\125\004\012\023\020\107  
\154\157\142\141\154\123\151\147\156\040\156\166\055\163\141\061  
\034\060\032\006\003\125\004\003\023\023\107\154\157\142\141\154  
\123\151\147\156\040\122\157\157\164\040\105\064\066\060\166\060  
\020\006\007\052\206\110\316\075\002\001\006\005\053\201\004\000  
\042\003\142\000\004\234\016\261\317\267\350\236\122\167\165\064  
\372\245\106\247\255\062\031\062\264\007\251\047\312\224\273\014  
\322\012\020\307\332\211\260\227\014\160\023\011\001\216\330\352  
\107\352\276\262\200\053\315\374\050\015\333\254\274\244\206\067  
\355\160\010\000\165\352\223\013\173\056\122\234\043\150\043\006  
\103\354\222\057\123\204\333\373\107\024\007\350\137\224\147\135  
\311\172\201\074\040\243\102\060\100\060\016\006\003\125\035\017  
\001\001\377\004\004\003\002\001\206\060\017\006\003\125\035\023  
\001\001\377\004\005\060\003\001\001\377\060\035\006\003\125\035  
\016\004\026\004\024\061\012\220\217\266\306\235\322\104\113\200  
\265\242\346\037\261\022\117\033\225\060\012\006\010\052\206\110  
\316\075\004\003\003\003\150\000\060\145\002\061\000\337\124\220  
\355\233\357\213\224\002\223\027\202\231\276\263\236\054\366\013  
\221\214\237\112\024\261\366\144\274\273\150\121\023\014\003\367  
\025\213\204\140\271\213\377\122\216\347\214\274\034\002\060\074  
\371\021\324\214\116\300\301\141\302\025\114\252\253\035\013\061  
\137\073\034\342\000\227\104\061\346\376\163\226\057\332\226\323  
\376\010\007\263\064\211\274\005\237\367\036\206\356\213\160

END

CKA\_NSS\_MOZILLA\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "GlobalSign Root E46"

# Issuer: CN=GlobalSign Root E46,O=GlobalSign nv-sa,C=BE

# Serial Number:11:d2:bb:ba:33:6e:d4:bc:e6:24:68:c5:0d:84:1d:98:e8:43

# Subject: CN=GlobalSign Root E46,O=GlobalSign nv-sa,C=BE

# Not Valid Before: Wed Mar 20 00:00:00 2019

# Not Valid After : Tue Mar 20 00:00:00 2046

# Fingerprint (SHA-256):

CB:B9:C4:4D:84:B8:04:3E:10:50:EA:31:A6:9F:51:49:55:D7:BF:D2:E2:C6:B4:93:01:01:9A:D6:1D:9F:50:58

#

Fingerprint (SHA1): 39:B4:6C:D5:FE:80:06:EB:E2:2F:4A:BB:08:33:A0:AF:DB:B9:DD:84

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "GlobalSign Root E46"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL



\071\264\154\325\376\200\006\353\342\057\112\273\010\063\240\257

\333\271\335\204

END

CKA\_CERT\_MD5\_HASH MULTILINE\_OCTAL

\265\270\146\355\336\010\203\343\311\342\001\064\006\254\121\157

END

CKA\_ISSUER MULTILINE\_OCTAL

\060\106\061\013\060\011\006\003\125\004\006\023\002\102\105\061

\031\060\027\006\003\125\004\012\023\020\107\154\157\142\141\154

\123\151\147\156\040\156\166\055\163\141\061\034\060\032\006\003

\125\004\003\023\023\107\154\157\142\141\154\123\151\147\156\040

\122\157\157\164\040\105\064\066

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

\002\022\021\322\273\272\063\156\324\274\346\044\150\305\015\204

\035\230\350\103

END

CKA\_TRUST\_SERVER\_AUTH CK\_TRUST CKT\_NSS\_TRUSTED\_DELEGATOR

CKA\_TRUST\_EMAIL\_PROTECTION

CK\_TRUST CKT\_NSS\_MUST\_VERIFY\_TRUST

CKA\_TRUST\_CODE\_SIGNING CK\_TRUST CKT\_NSS\_MUST\_VERIFY\_TRUST

CKA\_TRUST\_STEP\_UP\_APPROVED CK\_BBOOL CK\_FALSE

#

# Certificate "GLOBALTRUST 2020"

#

# Issuer: CN=GLOBALTRUST 2020,O=e-commerce monitoring GmbH,C=AT

# Serial Number:5a:4b:bd:5a:fb:4f:8a:5b:fa:65:e5

# Subject: CN=GLOBALTRUST 2020,O=e-commerce monitoring GmbH,C=AT

# Not Valid Before: Mon Feb 10 00:00:00 2020

# Not Valid After : Sun Jun 10 00:00:00 2040

# Fingerprint (SHA-256):

9A:29:6A:51:82:D1:D4:51:A2:E3:7F:43:9B:74:DA:AF:A2:67:52:33:29:F9:0F:9A:0D:20:07:C3:34:E2:3C:9A

# Fingerprint (SHA1): D0:67:C1:13:51:01:0C:AA:D0:C7:6A:65:37:31:16:26:4F:53:71:A2

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_CERTIFICATE

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "GLOBALTRUST 2020"

CKA\_CERTIFICATE\_TYPE CK\_CERTIFICATE\_TYPE CKC\_X\_509

CKA\_SUBJECT MULTILINE\_OCTAL

\060\115\061\013\060\011\006\003\125\004\006\023\002\101\124\061

\043\060\041\006\003\125\004\012\023\032\145\055\143\157\155\155

\145\162\143\145\040\155\157\156\151\164\157\162\151\156\147\040

\107\155\142\110\061\031\060\027\006\003\125\004\003\023\020\107

\114\117\102\101\114\124\122\125\123\124\040\062\060\062\060

END

CKA\_ID

UTF8 "0"

CKA\_ISSUER MULTILINE\_OCTAL

\060\115\061\013\060\011\006\003\125\004\006\023\002\101\124\061  
\043\060\041\006\003\125\004\012\023\032\145\055\143\157\155\155  
\145\162\143\145\040\155\157\156\151\164\157\162\151\156\147\040  
\107\155\142\110\061\031\060\027\006\003\125\004\003\023\020\107  
\114\117\102\101\114\124\122\125\123\124\040\062\060\062\060

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

\002\013\132\113\275\132\373\117\212\133\372\145\345

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\005\202\060\202\003\152\240\003\002\001\002\002\013\132  
\113\275\132\373\117\212\133\372\145\345\060\015\006\011\052\206  
\110\206\367\015\001\001\013\005\000\060\115\061\013\060\011\006  
\003\125\004\006\023\002\101\124\061\043\060\041\006\003\125\004  
\012\023\032\145\055\143\157\155\155\145\162\143\145\040\155\157  
\156\151\164\157\162\151\156\147\040\107\155\142\110\061\031\060  
\027\006\003\125\004\003\023\020\107\114\117\102\101\114\124\122  
\125\123\124\040\062\060\062\060\060\060\036\027\015\062\060\060\062  
\061\060\060\060\060\060\060\060\132\027\015\064\060\060\066\061  
\060\060\060\060\060\060\060\132\060\115\061\013\060\011\006\003  
\125\004\006\023\002\101\124\061\043\060\041\006\003\125\004\012  
\023\032\145\055\143\157\155\155\145\162\143\145\040\155\157\156  
\151\164\157\162\151\156\147\040\107\155\142\110\061\031\060\027  
\006\003\125\004\003\023\020\107\114\117\102\101\114\124\122\125  
\123\124\040\062\060\062\060\060\202\002\042\060\015\006\011\052  
\206\110\206\367\015\001\001\001\005\000\003\202\002\017\000\060  
\202\002\012\002\202\002\001\000\256\056\126\255\033\034\357\366  
\225\217\240\167\033\053\323\143\217\204\115\105\242\017\237\133  
\105\253\131\173\121\064\371\354\213\212\170\305\335\153\257\275  
\304\337\223\105\036\277\221\070\013\256\016\026\347\101\163\370  
\333\273\321\270\121\340\313\203\073\163\070\156\167\212\017\131  
\143\046\315\247\052\316\124\373\270\342\300\174\107\316\140\174  
\077\262\163\362\300\031\266\212\222\207\065\015\220\050\242\344  
\025\004\143\076\272\257\356\174\136\314\246\213\120\262\070\367  
\101\143\312\316\377\151\217\150\016\225\066\345\314\271\214\011  
\312\113\335\061\220\226\310\314\037\375\126\226\064\333\216\034  
\352\054\276\205\056\143\335\252\251\225\323\375\051\225\023\360  
\310\230\223\331\055\026\107\220\021\203\242\072\042\242\050\127  
\242\353\376\300\214\050\240\246\175\347\052\102\073\202\200\143  
\245\143\037\031\314\174\262\146\250\302\323\155\067\157\342\176  
\006\121\331\105\204\037\022\316\044\122\144\205\013\110\200\116  
\207\261\042\042\060\252\353\256\276\340\002\340\100\350\260\102  
\200\003\121\252\264\176\252\104\327\103\141\363\242\153\026\211  
\111\244\243\244\053\212\002\304\170\364\150\212\301\344\172\066  
\261\157\033\226\033\167\111\215\324\311\006\162\217\317\123\343  
\334\027\205\040\112\334\230\047\323\221\046\053\107\036\151\007

\257\336\242\344\344\324\153\013\263\136\174\324\044\200\107\051  
\151\073\156\350\254\375\100\353\330\355\161\161\053\362\350\130  
\035\353\101\227\042\305\037\324\071\320\047\217\207\343\030\364  
\340\251\106\015\365\164\072\202\056\320\156\054\221\243\061\134  
\073\106\352\173\004\020\126\136\200\035\365\245\145\350\202\374  
\342\007\214\142\105\365\040\336\106\160\206\241\274\223\323\036  
\164\246\154\260\054\367\003\014\210\014\313\324\162\123\206\274  
\140\106\363\230\152\302\361\277\103\371\160\040\167\312\067\101  
\171\125\122\143\215\133\022\237\305\150\304\210\235\254\362\060  
\253\267\243\061\227\147\255\217\027\017\154\307\163\355\044\224  
\153\310\203\232\320\232\067\111\004\253\261\026\310\154\111\111  
\055\253\241\320\214\222\362\101\112\171\041\045\333\143\327\266  
\234\247\176\102\151\373\072\143\002\003\001\000\001\243\143\060  
\141\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001  
\001\377\060\016\006\003\125\035\017\001\001\377\004\004\003\002  
\001\006\060\035\006\003\125\035\016\004\026\004\024\334\056\037  
\321\141\067\171\344\253\325\325\263\022\161\150\075\152\150\234  
\042\060\037\006\003\125\035\043\004\030\060\026\200\024\334\056  
\037\321\141\067\171\344\253\325\325\263\022\161\150\075\152\150  
\234\042\060\015\006\011\052\206\110\206\367\015\001\001\013\005  
\000\003\202\002\001\000\221\360\102\002\150\100\356\303\150\300  
\124\057\337\354\142\303\303\236\212\240\061\050\252\203\216\244  
\126\226\022\020\206\126\272\227\162\322\124\060\174\255\031\325  
\035\150\157\373\024\102\330\215\016\363\265\321\245\343\002\102  
\136\334\350\106\130\007\065\002\060\340\274\164\112\301\103\052  
\377\333\032\320\260\257\154\303\375\313\263\365\177\155\003\056  
\131\126\235\055\055\065\214\262\326\103\027\054\222\012\313\135  
\350\214\017\113\160\103\320\202\377\250\314\277\244\224\300\276  
\207\275\212\343\223\173\306\217\233\026\235\047\145\274\172\305  
\102\202\154\134\007\320\251\301\210\140\104\351\230\205\026\137  
\370\217\312\001\020\316\045\303\371\140\033\240\305\227\303\323  
\054\210\061\242\275\060\354\320\320\300\022\361\301\071\343\345  
\365\370\326\112\335\064\315\373\157\301\117\343\000\213\126\342  
\222\367\050\262\102\167\162\043\147\307\077\021\025\262\304\003  
\005\276\273\021\173\012\277\250\156\347\377\130\103\317\233\147  
\240\200\007\266\035\312\255\155\352\101\021\176\055\164\223\373  
\302\274\276\121\104\305\357\150\045\047\200\343\310\240\324\022  
\354\331\245\067\035\067\174\264\221\312\332\324\261\226\201\357  
\150\134\166\020\111\257\176\245\067\200\261\034\122\275\063\201  
\114\217\371\335\145\331\024\315\212\045\130\364\342\305\203\245  
\011\220\324\154\024\143\265\100\337\353\300\374\304\130\176\015  
\024\026\207\124\047\156\126\344\160\204\270\154\062\022\176\202  
\061\103\276\327\335\174\241\255\256\326\253\040\022\357\012\303  
\020\214\111\226\065\334\013\165\136\261\117\325\117\064\016\021  
\040\007\165\103\105\351\243\021\332\254\243\231\302\266\171\047  
\342\271\357\310\342\366\065\051\172\164\372\305\177\202\005\142  
\246\012\352\150\262\171\107\006\156\362\127\250\025\063\306\367  
\170\112\075\102\173\153\176\376\367\106\352\321\353\216\357\210

```
\150\133\350\301\331\161\176\375\144\357\377\147\107\210\130\045
\057\076\206\007\275\373\250\345\202\250\254\245\323\151\103\315
\061\210\111\204\123\222\300\261\071\033\071\203\001\060\304\362
\251\372\320\003\275\162\067\140\126\037\066\174\275\071\221\365
\155\015\277\173\327\222
```

END

CKA\_NSS\_MOZILLA\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRUST\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRUST\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "GLOBALTRUST 2020"

# Issuer: CN=GLOBALTRUST 2020,O=e-commerce monitoring GmbH,C=AT

# Serial Number:5a:4b:bd:5a:fb:4f:8a:5b:fa:65:e5

# Subject: CN=GLOBALTRUST 2020,O=e-commerce monitoring GmbH,C=AT

# Not Valid Before: Mon Feb 10 00:00:00 2020

# Not Valid After : Sun Jun 10 00:00:00 2040

# Fingerprint (SHA-256):

9A:29:6A:51:82:D1:D4:51:A2:E3:7F:43:9B:74:DA:AF:A2:67:52:33:29:F9:0F:9A:0D:20:07:C3:34:E2:3C:9A

#

Fingerprint (SHA1): D0:67:C1:13:51:01:0C:AA:D0:C7:6A:65:37:31:16:26:4F:53:71:A2

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "GLOBALTRUST 2020"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

```
\320\147\301\023\121\001\014\252\320\307\152\145\067\061\026\046
\117\123\161\242
```

END

CKA\_CERT\_MD5\_HASH MULTILINE\_OCTAL

```
\212\307\157\313\155\343\314\242\361\174\203\372\016\170\327\350
```

END

CKA\_ISSUER MULTILINE\_OCTAL

```
\060\115\061\013\060\011\006\003\125\004\006\023\002\101\124\061
\043\060\041\006\003\125\004\012\023\032\145\055\143\157\155\155
\145\162\143\145\040\155\157\156\151\164\157\162\151\156\147\040
\107\155\142\110\061\031\060\027\006\003\125\004\003\023\020\107
\114\117\102\101\114\124\122\125\123\124\040\062\060\062\060
```

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

```
\002\013\132\113\275\132\373\117\212\133\372\145\345
```

END

CKA\_TRUST\_SERVER\_AUTH CK\_TRUST

CKT\_NSS\_TRUSTED\_DELEGATOR

CKA\_TRUST\_EMAIL\_PROTECTION CK\_TRUST CKT\_NSS\_TRUSTED\_DELEGATOR

CKA\_TRUST\_CODE\_SIGNING CK\_TRUST CKT\_NSS\_MUST\_VERIFY\_TRUST

CKA\_TRUST\_STEP\_UP\_APPROVED CK\_BBOOL CK\_FALSE

```

#
Certificate "ANF Secure Server Root CA"
#
Issuer: CN=ANF Secure Server Root CA,OU=ANF CA Raiz,O=ANF Autoridad de
Certificacion,C=ES,serialNumber=G63287510
Serial Number:0d:d3:e3:bc:6c:f9:6b:b1
Subject: CN=ANF Secure Server Root CA,OU=ANF CA Raiz,O=ANF Autoridad de
Certificacion,C=ES,serialNumber=G63287510
Not Valid Before: Wed Sep 04 10:00:38 2019
Not Valid After : Tue Aug 30 10:00:38 2039
Fingerprint (SHA-256):
FB:8F:EC:75:91:69:B9:10:6B:1E:51:16:44:C6:18:C5:13:04:37:3F:6C:06:43:08:8D:8B:EF:FD:1B:99:75:99
Fingerprint (SHA1): 5B:6E:68:D0:CC:15:B6:A0:5F:1E:C1:5F:AE:02:FC:6B:2F:5D:6F:74
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ANF Secure Server Root CA"
CKA_CERTIFICATE_TYPE
CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\204\061\022\060\020\006\003\125\004\005\023\011\107\066
\063\062\070\067\065\061\060\061\013\060\011\006\003\125\004\006
\023\002\105\123\061\047\060\045\006\003\125\004\012\023\036\101
\116\106\040\101\165\164\157\162\151\144\141\144\040\144\145\040
\103\145\162\164\151\146\151\143\141\143\151\157\156\061\024\060
\022\006\003\125\004\013\023\013\101\116\106\040\103\101\040\122
\141\151\172\061\042\060\040\006\003\125\004\003\023\031\101\116
\106\040\123\145\143\165\162\145\040\123\145\162\166\145\162\040
\122\157\157\164\040\103\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\204\061\022\060\020\006\003\125\004\005\023\011\107\066
\063\062\070\067\065\061\060\061\013\060\011\006\003\125\004\006
\023\002\105\123\061\047\060\045\006\003\125\004\012\023\036\101
\116\106\040\101\165\164\157\162\151\144\141\144\040\144\145\040
\103\145\162\164\151\146\151\143\141\143\151\157\156\061\024\060
\022\006\003\125\004\013\023\013\101\116\106\040\103\101\040\122
\141\151\172\061\042\060\040\006\003\125\004\003\023\031\101\116
\106\040\123\145\143\165\162\145\040\123\145\162\166\145\162\040
\122\157\157\164\040\103\101
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\010\015\323\343\274\154\371\153\261
END

```

CKA\_VALUE MULTILINE\_OCTAL

\060\202\005\357\060\202\003\327\240\003\002\001\002\002\010\015  
\323\343\274\154\371\153\261\060\015\006\011\052\206\110\206\367  
\015\001\001\013\005\000\060\201\204\061\022\060\020\006\003\125  
\004\005\023\011\107\066\063\062\070\067\065\061\060\061\013\060  
\011\006\003\125\004\006\023\002\105\123\061\047\060\045\006\003  
\125\004\012\023\036\101\116\106\040\101\165\164\157\162\151\144  
\141\144\040\144\145\040\103\145\162\164\151\146\151\143\141\143  
\151\157\156\061\024\060\022\006\003\125\004\013\023\013\101\116  
\106\040\103\101\040\122\141\151\172\061\042\060\040\006\003\125  
\004\003\023\031\101\116\106\040\123\145\143\165\162\145\040\123  
\145\162\166\145\162\040\122\157\157\164\040\103\101\060\036\027  
\015\061\071\060\071\060\064\061\060\060\060\063\070\132\027\015  
\063\071\060\070\063\060\061\060\060\060\063\070\132\060\201\204  
\061\022\060\020\006\003\125\004\005\023\011\107\066\063\062\070  
\067\065\061\060\061\013\060\011\006\003\125\004\006\023\002\105  
\123\061\047\060\045\006\003\125\004\012\023\036\101\116\106\040  
\101\165\164\157\162\151\144\141\144\040\144\145\040\103\145\162  
\164\151\146\151\143\141\143\151\157\156\061\024\060\022\006\003  
\125\004\013\023\013\101\116\106\040\103\101\040\122\141\151\172  
\061\042\060\040\006\003\125\004\003\023\031\101\116\106\040\123  
\145\143\165\162\145\040\123\145\162\166\145\162\040\122\157\157  
\164\040\103\101\060\202\002\042\060\015\006\011\052\206\110\206  
\367\015\001\001\001\005\000\003\202\002\017\000\060\202\002\012  
\002\202\002\001\000\333\353\153\053\346\144\124\225\202\220\243  
\162\244\031\001\235\234\013\201\137\163\111\272\247\254\363\004  
\116\173\226\013\354\021\340\133\246\034\316\033\322\015\203\034  
\053\270\236\035\176\105\062\140\017\007\351\167\130\176\237\152  
\310\141\116\266\046\301\114\215\377\114\357\064\262\037\145\330  
\271\170\365\255\251\161\271\357\117\130\035\245\336\164\040\227  
\241\355\150\114\336\222\027\113\274\253\377\145\232\236\373\107  
\331\127\162\363\011\241\256\166\104\023\156\234\055\104\071\274  
\371\307\073\244\130\075\101\275\264\302\111\243\310\015\322\227  
\057\007\145\122\000\247\156\310\257\150\354\364\024\226\266\127  
\037\126\303\071\237\053\155\344\363\076\366\065\144\332\014\034  
\241\204\113\057\113\113\342\054\044\235\155\223\100\353\265\043  
\216\062\312\157\105\323\250\211\173\036\317\036\372\133\103\213  
\315\315\250\017\152\312\014\136\271\236\107\217\360\331\266\012  
\013\130\145\027\063\271\043\344\167\031\175\313\112\056\222\173  
\117\057\020\167\261\215\057\150\234\142\314\340\120\370\354\221  
\247\124\114\127\011\325\166\143\305\350\145\036\356\155\152\317  
\011\235\372\174\117\255\140\010\375\126\231\017\025\054\173\251  
\200\253\214\141\217\112\007\166\102\336\075\364\335\262\044\063  
\133\270\265\243\104\311\254\177\167\074\035\043\354\202\251\246  
\342\310\006\114\002\376\254\134\231\231\013\057\020\212\246\364  
\177\325\207\164\015\131\111\105\366\360\161\134\071\051\326\277  
\112\043\213\365\137\001\143\322\207\163\050\265\113\012\365\370  
\253\202\054\176\163\045\062\035\013\143\012\027\201\000\377\266

\166\136\347\264\261\100\312\041\273\325\200\121\345\110\122\147  
\054\322\141\211\007\015\017\316\102\167\300\104\163\234\104\120  
\240\333\020\012\055\225\034\201\257\344\034\345\024\036\361\066  
\101\001\002\057\175\163\247\336\102\314\114\351\211\015\126\367  
\237\221\324\003\306\154\311\217\333\330\034\340\100\230\135\146  
\231\230\200\156\055\377\001\305\316\313\106\037\254\002\306\103  
\346\256\242\204\074\305\116\036\075\155\311\024\114\343\056\101  
\273\312\071\277\066\074\052\031\252\101\207\116\245\316\113\062  
\171\335\220\111\177\002\003\001\000\001\243\143\060\141\060\037  
\006\003\125\035\043\004\030\060\026\200\024\234\137\320\154\143  
\243\137\223\312\223\230\010\255\214\207\245\054\134\301\067\060  
\035\006\003\125\035\016\004\026\004\024\234\137\320\154\143\243  
\137\223\312\223\230\010\255\214\207\245\054\134\301\067\060\016  
\006\003\125\035\017\001\001\377\004\004\003\002\001\206\060\017  
\006\003\125\035\023\001\001\377\004\005\060\003\001\001\377\060  
\015\006\011\052\206\110\206\367\015\001\001\013\005\000\003\202  
\002\001\000\116\036\271\212\306\240\230\077\156\303\151\300\152  
\134\111\122\254\313\053\135\170\070\301\325\124\204\237\223\360  
\207\031\075\054\146\211\353\015\102\374\314\360\165\205\077\213  
\364\200\135\171\345\027\147\275\065\202\342\362\074\216\175\133  
\066\313\132\200\000\051\362\316\053\054\361\217\252\155\005\223  
\154\162\307\126\353\337\120\043\050\345\105\020\075\350\147\243  
\257\016\125\017\220\011\142\357\113\131\242\366\123\361\300\065  
\344\057\301\044\275\171\057\116\040\042\073\375\032\040\260\244  
\016\054\160\355\164\077\270\023\225\006\121\310\350\207\046\312  
\244\133\152\026\041\222\335\163\140\236\020\030\336\074\201\352  
\350\030\303\174\211\362\213\120\076\275\021\342\025\003\250\066  
\175\063\001\154\110\025\327\210\220\231\004\305\314\346\007\364  
\274\364\220\355\023\342\352\213\303\217\243\063\017\301\051\114  
\023\116\332\025\126\161\163\162\202\120\366\232\063\174\242\261  
\250\032\064\164\145\134\316\321\353\253\123\340\032\200\330\352  
\072\111\344\046\060\233\345\034\212\250\251\025\062\206\231\222  
\012\020\043\126\022\340\366\316\114\342\273\276\333\215\222\163  
\001\146\057\142\076\262\162\047\105\066\355\115\126\343\227\231  
\377\072\065\076\245\124\112\122\131\113\140\333\356\376\170\021  
\177\112\334\024\171\140\266\153\144\003\333\025\203\341\242\276  
\366\043\227\120\360\011\063\066\247\161\226\045\363\271\102\175  
\333\070\077\054\130\254\350\102\341\016\330\323\073\114\056\202  
\351\203\056\153\061\331\335\107\206\117\155\227\221\056\117\342  
\050\161\065\026\321\362\163\376\045\053\007\107\044\143\047\310  
\370\366\331\153\374\022\061\126\010\300\123\102\257\234\320\063  
\176\374\006\360\061\104\003\024\361\130\352\362\152\015\251\021  
\262\203\276\305\032\277\007\352\131\334\243\210\065\357\234\166  
\062\074\115\006\042\316\025\345\335\236\330\217\332\336\322\304  
\071\345\027\201\317\070\107\353\177\210\155\131\033\337\237\102  
\024\256\176\317\250\260\146\145\332\067\257\237\252\075\352\050  
\266\336\325\061\130\026\202\133\352\273\031\165\002\163\032\312  
\110\032\041\223\220\012\216\223\204\247\175\073\043\030\222\211

```

\240\215\254
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRICT_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRICT_AFTER CK_BBOOL CK_FALSE

Trust for "ANF Secure Server Root CA"
Issuer: CN=ANF Secure Server Root CA,OU=ANF CA Raiz,O=ANF Autoridad de
Certificacion,C=ES,serialNumber=G63287510
Serial Number:0d:d3:e3:bc:6c:f9:6b:b1
Subject: CN=ANF Secure Server Root CA,OU=ANF CA Raiz,O=ANF Autoridad de
Certificacion,C=ES,serialNumber=G63287510
Not Valid Before: Wed Sep 04 10:00:38 2019
#
Not Valid After : Tue Aug 30 10:00:38 2039
Fingerprint (SHA-256):
FB:8F:EC:75:91:69:B9:10:6B:1E:51:16:44:C6:18:C5:13:04:37:3F:6C:06:43:08:8D:8B:EF:FD:1B:99:75:99
Fingerprint (SHA1): 5B:6E:68:D0:CC:15:B6:A0:5F:1E:C1:5F:AE:02:FC:6B:2F:5D:6F:74
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ANF Secure Server Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\133\156\150\320\314\025\266\240\137\036\301\137\256\002\374\153
\057\135\157\164
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\046\246\104\132\331\257\116\057\262\035\266\145\260\116\350\226
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\204\061\022\060\020\006\003\125\004\005\023\011\107\066
\063\062\070\067\065\061\060\061\013\060\011\006\003\125\004\006
\023\002\105\123\061\047\060\045\006\003\125\004\012\023\036\101
\116\106\040\101\165\164\157\162\151\144\141\144\040\144\145\040
\103\145\162\164\151\146\151\143\141\143\151\157\156\061\024\060
\022\006\003\125\004\013\023\013\101\116\106\040\103\101\040\122
\141\151\172\061\042\060\040\006\003\125\004\003\023\031\101\116
\106\040\123\145\143\165\162\145\040\123\145\162\166\145\162\040
\122\157\157\164\040\103\101
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\010\015\323\343\274\154\371\153\261
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST

```



CKA\_TRUST\_CODE\_SIGNING CK\_TRUST CKT\_NSS\_MUST\_VERIFY\_TRUST

CKA\_TRUST\_STEP\_UP\_APPROVED CK\_BBOOL CK\_FALSE

#

# Certificate "Certum EC-384 CA"

#

# Issuer: CN=Certum EC-384 CA,OU=Certum Certification Authority,O=Asseco Data Systems S.A.,C=PL

# Serial Number:78:8f:27:5c:81:12:52:20:a5:04:d0:2d:dd:ba:73:f4

# Subject: CN=Certum EC-384 CA,OU=Certum Certification Authority,O=Asseco Data Systems S.A.,C=PL

# Not Valid Before: Mon Mar 26 07:24:54 2018

# Not Valid After : Thu Mar 26 07:24:54 2043

# Fingerprint (SHA-256):

6B:32:80:85:62:53:18:AA:50:D1:73:C9:8D:8B:DA:09:D5:7E:27:41:3D:11:4C:F7:87:A0:F5:D0:6C:03:0C:F6

#

Fingerprint (SHA1): F3:3E:78:3C:AC:DF:F4:A2:CC:AC:67:55:69:56:D7:E5:16:3C:E1:ED

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_CERTIFICATE

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "Certum EC-384 CA"

CKA\_CERTIFICATE\_TYPE CK\_CERTIFICATE\_TYPE CKC\_X\_509

CKA\_SUBJECT MULTILINE\_OCTAL

\060\164\061\013\060\011\006\003\125\004\006\023\002\120\114\061  
\041\060\037\006\003\125\004\012\023\030\101\163\163\145\143\157  
\040\104\141\164\141\040\123\171\163\164\145\155\163\040\123\056  
\101\056\061\047\060\045\006\003\125\004\013\023\036\103\145\162  
\164\165\155\040\103\145\162\164\151\146\151\143\141\164\151\157  
\156\040\101\165\164\150\157\162\151\164\171\061\031\060\027\006  
\003\125\004\003\023\020\103\145\162\164\165\155\040\105\103\055  
\063\070\064\040\103\101

END

CKA\_ID UTF8 "0"

CKA\_ISSUER MULTILINE\_OCTAL

\060\164\061\013\060\011\006\003\125\004\006\023\002\120\114\061  
\041\060\037\006\003\125\004\012\023\030\101\163\163\145\143\157  
\040\104\141\164\141\040\123\171\163\164\145\155\163\040\123\056  
\101\056\061\047\060\045\006\003\125\004\013\023\036\103\145\162  
\164\165\155\040\103\145\162\164\151\146\151\143\141\164\151\157  
\156\040\101\165\164\150\157\162\151\164\171\061\031\060\027\006  
\003\125\004\003\023\020\103\145\162\164\165\155\040\105\103\055  
\063\070\064\040\103\101

END

CKA\_SERIAL\_NUMBER

MULTILINE\_OCTAL

\002\020\170\217\047\134\201\022\122\040\245\004\320\055\335\272  
\163\364

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\002\145\060\202\001\353\240\003\002\001\002\002\020\170  
\217\047\134\201\022\122\040\245\004\320\055\335\272\163\364\060  
\012\006\010\052\206\110\316\075\004\003\003\060\164\061\013\060  
\011\006\003\125\004\006\023\002\120\114\061\041\060\037\006\003  
\125\004\012\023\030\101\163\163\145\143\157\040\104\141\164\141  
\040\123\171\163\164\145\155\163\040\123\056\101\056\061\047\060  
\045\006\003\125\004\013\023\036\103\145\162\164\165\155\040\103  
\145\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164  
\150\157\162\151\164\171\061\031\060\027\006\003\125\004\003\023  
\020\103\145\162\164\165\155\040\105\103\055\063\070\064\040\103  
\101\060\036\027\015\061\070\060\063\062\066\060\067\062\064\065  
\064\132\027\015\064\063\060\063\062\066\060\067\062\064\065\064  
\132\060\164\061\013\060\011\006\003\125\004\006\023\002\120\114  
\061\041\060\037\006\003\125\004\012\023\030\101\163\163\145\143  
\157\040\104\141\164\141\040\123\171\163\164\145\155\163\040\123  
\056\101\056\061\047\060\045\006\003\125\004\013\023\036\103\145  
\162\164\165\155\040\103\145\162\164\151\146\151\143\141\164\151  
\157\156\040\101\165\164\150\157\162\151\164\171\061\031\060\027  
\006\003\125\004\003\023\020\103\145\162\164\165\155\040\105\103  
\055\063\070\064\040\103\101\060\166\060\020\006\007\052\206\110  
\316\075\002\001\006\005\053\201\004\000\042\003\142\000\004\304  
\050\216\253\030\133\152\276\156\144\067\143\344\315\354\253\072  
\367\314\241\270\016\202\111\327\206\051\237\241\224\362\343\140  
\170\230\201\170\006\115\362\354\232\016\127\140\203\237\264\346  
\027\057\032\263\135\002\133\211\043\074\302\021\005\052\247\210  
\023\030\363\120\204\327\275\064\054\047\211\125\377\316\114\347  
\337\246\037\050\304\360\124\303\271\174\267\123\255\353\302\243  
\102\060\100\060\017\006\003\125\035\023\001\001\377\004\005\060  
\003\001\001\377\060\035\006\003\125\035\016\004\026\004\024\215  
\006\146\164\044\166\072\363\211\367\274\326\275\107\175\057\274  
\020\137\113\060\016\006\003\125\035\017\001\001\377\004\004\003  
\002\001\006\060\012\006\010\052\206\110\316\075\004\003\003\003  
\150\000\060\145\002\060\003\125\055\246\346\030\304\174\357\311  
\120\156\301\047\017\234\207\257\156\325\033\010\030\275\222\051  
\301\357\224\221\170\322\072\034\125\211\142\345\033\011\036\272  
\144\153\361\166\264\324\002\061\000\264\102\204\231\377\253\347  
\236\373\221\227\047\135\334\260\133\060\161\316\136\070\032\152  
\331\045\347\352\367\141\222\126\370\352\332\066\302\207\145\226  
\056\162\045\057\177\337\303\023\311

END

CKA\_NSS\_MOZILLA\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "Certum EC-384 CA"

# Issuer: CN=Certum EC-384 CA,OU=Certum Certification Authority,O=Asseco Data Systems S.A.,C=PL

# Serial Number:78:8f:27:5c:81:12:52:20:a5:04:d0:2d:dd:ba:73:f4

```
Subject: CN=Certum EC-384 CA,OU=Certum Certification Authority,O=Asseco Data Systems S.A.,C=PL
Not Valid Before: Mon Mar 26 07:24:54 2018
Not Valid After : Thu Mar 26 07:24:54 2043
Fingerprint (SHA-256):
6B:32:80:85:62:53:18:AA:50:D1:73:C9:8D:8B:DA:09:D5:7E:27:41:3D:11:4C:F7:87:A0:F5:D0:6C:03:0C:F6
Fingerprint (SHA1): F3:3E:78:3C:AC:DF:F4:A2:CC:AC:67:55:69:56:D7:E5:16:3C:E1:ED
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certum EC-384 CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\363\076\170\074\254\337\364\242\314\254\147\125\151\126\327\345
\026\074\341\355
END
CKA_CERT_MD5_HASH
MULTILINE_OCTAL
\266\145\263\226\140\227\022\241\354\116\341\075\243\306\311\361
END
CKA_ISSUER MULTILINE_OCTAL
\060\164\061\013\060\011\006\003\125\004\006\023\002\120\114\061
\041\060\037\006\003\125\004\012\023\030\101\163\163\145\143\157
\040\104\141\164\141\040\123\171\163\164\145\155\163\040\123\056
\101\056\061\047\060\045\006\003\125\004\013\023\036\103\145\162
\164\165\155\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171\061\031\060\027\006
\003\125\004\003\023\020\103\145\162\164\165\155\040\105\103\055
\063\070\064\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\170\217\047\134\201\022\122\040\245\004\320\055\335\272
\163\364
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Certum Trusted
Root CA"
#
Issuer: CN=Certum Trusted Root CA,OU=Certum Certification Authority,O=Asseco Data Systems S.A.,C=PL
Serial Number: 1e:bf:59:50:b8:c9:80:37:4c:06:f7:eb:55:4f:b5:ed
Subject: CN=Certum Trusted Root CA,OU=Certum Certification Authority,O=Asseco Data Systems S.A.,C=PL
Not Valid Before: Fri Mar 16 12:10:13 2018
Not Valid After : Mon Mar 16 12:10:13 2043
Fingerprint (SHA-256):
```

FE:76:96:57:38:55:77:3E:37:A9:5E:7A:D4:D9:CC:96:C3:01:57:C1:5D:31:76:5B:A9:B1:57:04:E1:AE:78:FD

# Fingerprint (SHA1): C8:83:44:C0:18:AE:9F:CC:F1:87:B7:8F:22:D1:C5:D7:45:84:BA:E5

```
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certum Trusted Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\172\061\013\060\011\006\003\125\004\006\023\002\120\114\061
\041\060\037\006\003\125\004\012\023\030\101\163\163\145\143\157
\040\104\141\164\141\040\123\171\163\164\145\155\163\040\123\056
\101\056\061\047\060\045\006\003\125\004\013\023\036\103\145\162
\164\165\155\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171\061\037\060\035\006
\003\125\004\003\023\026\103\145\162\164\165\155\040\124\162\165
\163\164\145\144\040\122\157\157\164\040\103\101
```

END

CKA\_ID

UTF8 "0"

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CKA_ISSUER MULTILINE_OCTAL
\060\172\061\013\060\011\006\003\125\004\006\023\002\120\114\061
\041\060\037\006\003\125\004\012\023\030\101\163\163\145\143\157
\040\104\141\164\141\040\123\171\163\164\145\155\163\040\123\056
\101\056\061\047\060\045\006\003\125\004\013\023\036\103\145\162
\164\165\155\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171\061\037\060\035\006
\003\125\004\003\023\026\103\145\162\164\165\155\040\124\162\165
\163\164\145\144\040\122\157\157\164\040\103\101
```

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

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\002\020\036\277\131\120\270\311\200\067\114\006\367\353\125\117
\265\355
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END

CKA\_VALUE

MULTILINE\_OCTAL

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\060\202\005\300\060\202\003\250\240\003\002\001\002\002\020\036
\277\131\120\270\311\200\067\114\006\367\353\125\117\265\355\060
\015\006\011\052\206\110\206\367\015\001\001\015\005\000\060\172
\061\013\060\011\006\003\125\004\006\023\002\120\114\061\041\060
\037\006\003\125\004\012\023\030\101\163\163\145\143\157\040\104
\141\164\141\040\123\171\163\164\145\155\163\040\123\056\101\056
\061\047\060\045\006\003\125\004\013\023\036\103\145\162\164\165
\155\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040
\101\165\164\150\157\162\151\164\171\061\037\060\035\006\003\125
\004\003\023\026\103\145\162\164\165\155\040\124\162\165\163\164
\145\144\040\122\157\157\164\040\103\101\060\036\027\015\061\070
\060\063\061\066\061\062\061\060\061\063\132\027\015\064\063\060
```

\063\061\066\061\062\061\060\061\063\132\060\172\061\013\060\011  
\006\003\125\004\006\023\002\120\114\061\041\060\037\006\003\125  
\004\012\023\030\101\163\163\145\143\157\040\104\141\164\141\040  
\123\171\163\164\145\155\163\040\123\056\101\056\061\047\060\045  
\006\003\125\004\013\023\036\103\145\162\164\165\155\040\103\145  
\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150  
\157\162\151\164\171\061\037\060\035\006\003\125\004\003\023\026  
\103\145\162\164\165\155\040\124\162\165\163\164\145\144\040\122  
\157\157\164\040\103\101\060\202\002\042\060\015\006\011\052\206  
\110\206\367\015\001\001\001\005\000\003\202\002\017\000\060\202  
\002\012\002\202\002\001\000\321\055\216\273\267\066\352\155\067  
\221\237\116\223\247\005\344\051\003\045\316\034\202\367\174\231  
\237\101\006\315\355\243\272\300\333\011\054\301\174\337\051\176  
\113\145\057\223\247\324\001\153\003\050\030\243\330\235\005\301  
\052\330\105\361\221\336\337\073\320\200\002\214\317\070\017\352  
\247\134\170\021\244\301\310\205\134\045\323\323\262\347\045\317  
\021\124\227\253\065\300\036\166\034\357\000\123\237\071\334\024  
\245\054\042\045\263\162\162\374\215\263\345\076\010\036\024\052  
\067\013\210\074\312\260\364\310\302\241\256\274\301\276\051\147  
\125\342\374\255\131\134\376\275\127\054\260\220\215\302\355\067  
\266\174\231\210\265\325\003\232\075\025\015\075\072\250\250\105  
\360\225\116\045\131\035\315\230\151\273\323\314\062\311\215\357  
\201\376\255\175\211\273\272\140\023\312\145\225\147\240\363\031  
\366\003\126\324\152\323\047\342\241\255\203\360\112\022\042\167  
\034\005\163\342\031\161\102\300\354\165\106\232\220\130\340\152  
\216\053\245\106\060\004\216\031\262\027\343\276\251\272\177\126  
\361\044\003\327\262\041\050\166\016\066\060\114\171\325\101\232  
\232\250\270\065\272\014\072\362\104\033\040\210\367\305\045\327  
\075\306\343\076\103\335\207\376\304\352\365\123\076\114\145\377  
\073\112\313\170\132\153\027\137\015\307\303\117\116\232\052\242  
\355\127\115\042\342\106\232\077\017\221\064\044\175\125\343\214  
\225\067\323\032\360\011\053\054\322\311\215\264\015\000\253\147  
\051\050\330\001\365\031\004\266\035\276\166\376\162\134\304\205  
\312\322\200\101\337\005\250\243\325\204\220\117\013\363\340\077  
\233\031\322\067\211\077\362\173\122\034\214\366\341\367\074\007  
\227\214\016\242\131\201\014\262\220\075\323\343\131\106\355\017  
\251\247\336\200\153\132\252\007\266\031\313\274\127\363\227\041  
\172\014\261\053\164\076\353\332\247\147\055\114\304\230\236\066  
\011\166\146\146\374\032\077\352\110\124\034\276\060\275\200\120  
\277\174\265\316\000\366\014\141\331\347\044\003\340\343\001\201  
\016\275\330\205\064\210\275\262\066\250\173\134\010\345\104\200  
\214\157\370\057\325\041\312\035\034\320\373\304\265\207\321\072  
\116\307\166\265\065\110\265\002\003\001\000\001\243\102\060\100  
\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001  
\377\060\035\006\003\125\035\016\004\026\004\024\214\373\034\165  
\274\002\323\237\116\056\110\331\371\140\124\252\304\263\117\372  
\060\016\006\003\125\035\017\001\001\377\004\004\003\002\001\006  
\060\015\006\011\052\206\110\206\367\015\001\001\015\005\000\003

\202\002\001\000\110\242\325\000\013\056\320\077\274\034\325\265  
\124\111\036\132\153\364\344\362\340\100\067\340\314\024\173\271  
\311\372\065\265\165\027\223\152\005\151\205\234\315\117\031\170  
\133\031\201\363\143\076\303\316\133\217\365\057\136\001\166\023  
\077\054\000\271\315\226\122\071\111\155\004\116\305\351\017\206  
\015\341\372\263\137\202\022\361\072\316\146\006\044\064\053\350  
\314\312\347\151\334\207\235\302\064\327\171\321\323\167\270\252  
\131\130\376\235\046\372\070\206\076\235\212\207\144\127\345\027  
\072\342\371\215\271\343\063\170\301\220\330\270\335\267\203\121  
\344\304\314\043\325\006\174\346\121\323\315\064\061\300\366\106  
\273\013\255\374\075\020\005\052\073\112\221\045\356\214\324\204  
\207\200\052\274\011\214\252\072\023\137\350\064\171\120\301\020  
\031\371\323\050\036\324\321\121\060\051\263\256\220\147\326\037  
\012\143\261\305\251\306\102\061\143\027\224\357\151\313\057\372  
\214\024\175\304\103\030\211\331\360\062\100\346\200\342\106\137  
\345\343\301\000\131\250\371\350\040\274\211\054\016\107\064\013  
\352\127\302\123\066\374\247\324\257\061\315\376\002\345\165\372  
\271\047\011\371\363\365\073\312\175\237\251\042\313\210\311\252  
\321\107\075\066\167\250\131\144\153\047\317\357\047\301\343\044  
\265\206\367\256\176\062\115\260\171\150\321\071\350\220\130\303  
\203\274\017\054\326\227\353\316\014\341\040\307\332\267\076\303  
\077\277\057\334\064\244\373\053\041\315\147\217\113\364\343\352  
\324\077\347\117\272\271\245\223\105\034\146\037\041\372\144\136  
\157\340\166\224\062\313\165\365\156\345\366\217\307\270\244\314  
\250\226\175\144\373\044\132\112\003\154\153\070\306\350\003\103  
\232\367\127\271\263\051\151\223\070\364\003\362\273\373\202\153  
\007\040\321\122\037\232\144\002\173\230\146\333\134\115\132\017  
\320\204\225\240\074\024\103\006\312\312\333\270\101\066\332\152  
\104\147\207\257\257\343\105\021\025\151\010\262\276\026\071\227  
\044\157\022\105\321\147\135\011\250\311\025\332\372\322\246\137  
\023\141\037\277\205\254\264\255\255\005\224\010\203\036\165\027  
\323\161\073\223\120\043\131\240\355\074\221\124\235\166\000\305  
\303\270\070\333

END

CKA\_NSS\_MOZILLA\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRUST\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRUST\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "Certum Trusted Root CA"

# Issuer: CN=Certum Trusted Root CA,OU=Certum Certification Authority,O=Asseco Data Systems S.A.,C=PL

# Serial Number: 1e:bf:59:50:b8:c9:80:37:4c:06:f7:eb:55:4f:b5:ed

# Subject: CN=Certum Trusted Root CA,OU=Certum Certification Authority,O=Asseco Data Systems S.A.,C=PL

# Not Valid Before: Fri Mar 16 12:10:13 2018

# Not Valid After : Mon Mar 16 12:10:13 2043

# Fingerprint (SHA-256):

FE:76:96:57:38:55:77:3E:37:A9:5E:7A:D4:D9:CC:96:C3:01:57:C1:5D:31:76:5B:A9:B1:57:04:E1:AE:78:FD

# Fingerprint (SHA1): C8:83:44:C0:18:AE:9F:CC:F1:87:B7:8F:22:D1:C5:D7:45:84:BA:E5

```

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certum Trusted Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\310\203\104\300\030\256\237\314\361\207\267\217\042\321\305\327
\105\204\272\345
END
CKA_CERT_MD5_HASH
MULTILINE_OCTAL
\121\341\302\347\376\114\204\257\131\016\057\364\124\157\352\051
END
CKA_ISSUER MULTILINE_OCTAL
\060\172\061\013\060\011\006\003\125\004\006\023\002\120\114\061
\041\060\037\006\003\125\004\012\023\030\101\163\163\145\143\157
\040\104\141\164\141\040\123\171\163\164\145\155\163\040\123\056
\101\056\061\047\060\045\006\003\125\004\013\023\036\103\145\162
\164\165\155\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171\061\037\060\035\006
\003\125\004\003\023\026\103\145\162\164\165\155\040\124\162\165
\163\164\145\144\040\122\157\157\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\036\277\131\120\270\311\200\067\114\006\367\353\125\117
\265\355
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED
CK_BBOOL CK_FALSE

#
Certificate "TunTrust Root CA"
#
Issuer: CN=TunTrust Root CA,O=Agence Nationale de Certification Electronique,C=TN
Serial Number: 13:02:d5:e2:40:4c:92:46:86:16:67:5d:b4:bb:bb:b2:6b:3e:fc:13
Subject: CN=TunTrust Root CA,O=Agence Nationale de Certification Electronique,C=TN
Not Valid Before: Fri Apr 26 08:57:56 2019
Not Valid After : Tue Apr 26 08:57:56 2044
Fingerprint (SHA-256):
2E:44:10:2A:B5:8C:B8:54:19:45:1C:8E:19:D9:AC:F3:66:2C:AF:BC:61:4B:6A:53:96:0A:30:F7:D0:E2:EB:41
Fingerprint (SHA1): CF:E9:70:84:0F:E0:73:0F:9D:F6:0C:7F:2C:4B:EE:20:46:34:9C:BB
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE

```

```
CKA_LABEL UTF8 "TunTrust Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\141\061\013\060\011\006\003\125\004\006\023\002\124\116\061
\067\060\065\006\003\125\004\012\014\056\101\147\145\156\143\145
\040\116\141\164\151\157\156\141\154\145\040\144\145\040\103\145
\162\164\151\146\151\143\141\164\151\157\156\040\105\154\145\143
\164\162\157\156\151\161\165\145\061\031\060\027\006\003\125\004
\003\014\020\124\165\156\124\162\165\163\164\040\122\157\157\164
\040\103\101
END
CKA_ID
UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\141\061\013\060\011\006\003\125\004\006\023\002\124\116\061
\067\060\065\006\003\125\004\012\014\056\101\147\145\156\143\145
\040\116\141\164\151\157\156\141\154\145\040\144\145\040\103\145
\162\164\151\146\151\143\141\164\151\157\156\040\105\154\145\143
\164\162\157\156\151\161\165\145\061\031\060\027\006\003\125\004
\003\014\020\124\165\156\124\162\165\163\164\040\122\157\157\164
\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\023\002\325\342\100\114\222\106\206\026\147\135\264\273
\273\262\153\076\374\023
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\263\060\202\003\233\240\003\002\001\002\002\024\023
\002\325\342\100\114\222\106\206\026\147\135\264\273\273\262\153
\076\374\023\060\015\006\011\052\206\110\206\367\015\001\001\013
\005\000\060\141\061\013\060\011\006\003\125\004\006\023\002\124
\116\061\067\060\065\006\003\125\004\012\014\056\101\147\145\156
\143\145\040\116\141\164\151\157\156\141\154\145\040\144\145\040
\103\145\162\164\151\146\151\143\141\164\151\157\156\040\105\154
\145\143\164\162\157\156\151\161\165\145\061\031\060\027\006\003
\125\004\003\014\020\124\165\156\124\162\165\163\164\040\122\157
\157\164\040\103\101\060\036\027\015\061\071\060\064\062\066\060
\070\065\067\065\066\132\027\015\064\064\060\064\062\066\060\070
\065\067\065\066\132\060\141\061\013\060\011\006\003\125\004\006
\023\002\124\116\061\067\060\065\006\003\125\004\012\014\056\101
\147\145\156\143\145\040\116\141\164\151\157\156\141\154\145\040
\144\145\040\103\145\162\164\151\146\151\143\141\164\151\157\156
\040\105\154\145\143\164\162\157\156\151\161\165\145\061\031\060
\027\006\003\125\004\003\014\020\124\165\156\124\162\165\163\164
\040\122\157\157\164\040\103\101\060\202\002\042\060\015\006\011
\052\206\110\206\367\015\001\001\001\005\000\003\202\002\017\000
\060\202\002\012\002\202\002\001\000\303\315\323\374\275\004\123
\335\014\040\072\325\210\056\005\113\101\365\203\202\176\367\131
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\237\236\236\143\350\163\332\366\006\251\117\037\264\371\013\037  
\071\214\232\040\320\176\006\324\354\064\331\206\274\165\133\207  
\210\360\322\331\324\243\012\262\154\033\353\111\054\076\254\135  
\330\224\003\240\354\064\345\060\304\065\175\373\046\115\033\156  
\060\124\330\365\200\105\234\071\255\234\311\045\004\115\232\220  
\076\116\100\156\212\153\315\051\147\306\314\055\340\164\350\005  
\127\012\110\120\372\172\103\332\176\354\133\232\016\142\166\376  
\352\235\035\205\162\354\021\273\065\350\037\047\277\301\241\307  
\273\110\026\335\126\327\314\116\240\341\271\254\333\325\203\031  
\032\205\321\224\227\327\312\243\145\013\363\070\371\002\256\335  
\366\147\317\311\077\365\212\054\107\032\231\157\005\015\375\320  
\035\202\061\374\051\314\000\130\227\221\114\200\000\034\063\205  
\226\057\313\101\302\213\020\204\303\011\044\211\037\265\017\331  
\331\167\107\030\222\224\140\134\307\231\003\074\376\367\225\247  
\175\120\241\200\302\251\203\255\130\226\125\041\333\206\131\324  
\257\306\274\335\201\156\007\333\140\142\376\354\020\156\332\150  
\001\364\203\033\251\076\242\133\043\327\144\306\337\334\242\175  
\330\113\272\202\322\121\370\146\277\006\106\344\171\052\046\066  
\171\217\037\116\231\035\262\217\014\016\034\377\311\135\300\375  
\220\020\246\261\067\363\315\072\044\156\264\205\220\277\200\271  
\014\214\325\233\326\310\361\126\077\032\200\211\172\251\342\033  
\062\121\054\076\362\337\173\366\135\172\051\031\216\345\310\275  
\066\161\213\135\114\302\035\077\255\130\242\317\075\160\115\246  
\120\230\045\334\043\371\270\130\101\010\161\277\117\270\204\240  
\217\000\124\025\374\221\155\130\247\226\073\353\113\226\047\315  
\153\242\241\206\254\015\174\124\346\146\114\146\137\220\276\041  
\232\002\106\055\344\203\302\200\271\317\113\076\350\177\074\001  
\354\217\136\315\177\322\050\102\001\225\212\342\227\075\020\041  
\175\366\235\034\305\064\241\354\054\016\012\122\054\022\125\160  
\044\075\313\302\024\065\103\135\047\116\276\300\275\252\174\226  
\347\374\236\141\255\104\323\000\227\002\003\001\000\001\243\143  
\060\141\060\035\006\003\125\035\016\004\026\004\024\006\232\233  
\037\123\175\361\365\244\310\323\206\076\241\163\131\264\367\104  
\041\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001  
\001\377\060\037\006\003\125\035\043\004\030\060\026\200\024\006  
\232\233\037\123\175\361\365\244\310\323\206\076\241\163\131\264  
\367\104\041\060\016\006\003\125\035\017\001\001\377\004\004\003  
\002\001\006\060\015\006\011\052\206\110\206\367\015\001\001\013  
\005\000\003\202\002\001\000\252\005\156\266\335\025\311\277\263  
\306\040\366\006\107\260\206\223\045\323\215\271\310\000\077\227  
\365\122\047\210\161\311\164\375\353\312\144\333\133\357\036\135  
\272\277\321\353\356\134\151\272\026\310\363\271\217\323\066\056  
\100\111\007\015\131\336\213\020\260\111\005\342\377\221\077\113  
\267\335\002\216\370\201\050\134\314\334\155\257\137\024\234\175  
\130\170\015\366\200\011\271\351\016\227\051\031\270\267\353\370  
\026\313\125\022\344\306\175\273\304\354\370\265\034\116\076\147  
\277\305\137\033\155\155\107\050\252\004\130\141\326\166\277\042  
\177\320\007\152\247\144\123\360\227\215\235\200\077\273\301\007

```
\333\145\257\346\233\062\232\303\124\223\304\034\010\303\104\373
\173\143\021\103\321\152\032\141\152\171\155\220\117\051\216\107
\005\301\022\151\151\326\306\066\061\341\374\372\200\272\134\117
\304\353\267\062\254\370\165\141\027\327\020\031\271\361\322\011
\357\172\102\235\133\132\013\324\306\225\116\052\316\377\007\327
\117\176\030\006\210\361\031\265\331\230\273\256\161\304\034\347
\164\131\130\357\014\211\317\213\037\165\223\032\004\024\222\110
\120\251\353\127\051\000\026\343\066\034\310\370\277\360\063\325
\101\017\304\314\074\335\351\063\103\001\221\020\053\036\321\271
\135\315\062\031\213\217\214\040\167\327\042\304\102\334\204\026
\233\045\155\350\264\125\161\177\260\174\263\323\161\111\271\317
\122\244\004\077\334\075\240\273\257\063\236\012\060\140\216\333
\235\135\224\250\275\140\347\142\200\166\201\203\014\214\314\060
\106\111\342\014\322\250\257\353\141\161\357\347\042\142\251\367
\134\144\154\237\026\214\147\066\047\105\365\011\173\277\366\020
\012\361\260\215\124\103\214\004\272\243\077\357\342\065\307\371
\164\340\157\064\101\320\277\163\145\127\040\371\233\147\172\146
\150\044\116\200\145\275\020\231\006\131\362\145\257\270\306\107
\273\375\220\170\213\101\163\056\257\125\037\334\073\222\162\156
\204\323\320\141\114\015\314\166\127\342\055\205\042\025\066\015
\353\001\235\353\330\353\304\204\231\373\300\014\314\062\350\343
\167\332\203\104\213\236\125\050\300\213\130\323\220\076\116\033
\000\361\025\255\203\053\232
```

END

CKA\_NSS\_Mozilla\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "TunTrust Root CA"

# Issuer: CN=TunTrust

Root CA,O=Agence Nationale de Certification Electronique,C=TN

# Serial Number:13:02:d5:e2:40:4c:92:46:86:16:67:5d:b4:bb:bb:b2:6b:3e:fc:13

# Subject: CN=TunTrust Root CA,O=Agence Nationale de Certification Electronique,C=TN

# Not Valid Before: Fri Apr 26 08:57:56 2019

# Not Valid After : Tue Apr 26 08:57:56 2044

# Fingerprint (SHA-256):

2E:44:10:2A:B5:8C:B8:54:19:45:1C:8E:19:D9:AC:F3:66:2C:AF:BC:61:4B:6A:53:96:0A:30:F7:D0:E2:EB:41

# Fingerprint (SHA1): CF:E9:70:84:0F:E0:73:0F:9D:F6:0C:7F:2C:4B:EE:20:46:34:9C:BB

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "TunTrust Root CA"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

```
\317\351\160\204\017\340\163\017\235\366\014\177\054\113\356\040
\106\064\234\273
```

END

```

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\205\023\271\220\133\066\134\266\136\270\132\370\340\061\127\264
END
CKA_ISSUER MULTILINE_OCTAL
\060\141\061\013\060\011\006\003\125\004\006\023\002\124\116\061
\067\060\065\006\003\125\004\012\014\056\101\147\145\156\143\145
\040\116\141\164\151\157\156\141\154\145\040\144\145\040\103\145
\162\164\151\146\151\143\141\164\151\157\156\040\105\154\145\143
\164\162\157\156\151\161\165\145\061\031\060\027\006\003\125\004
\003\014\020\124\165\156\124\162\165\163\164\040\122\157\157\164
\040\103\101
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\024\023\002\325\342\100\114\222\106\206\026\147\135\264\273
\273\262\153\076\374\023
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "HARICA TLS RSA Root CA 2021"
#
Issuer: CN=HARICA TLS RSA Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
Serial Number:39:ca:93:1c:ef:43:f3:c6:8e:93:c7:f4:64:89:38:7e
Subject: CN=HARICA TLS RSA Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
Not Valid
Before: Fri Feb 19 10:55:38 2021
Not Valid After : Mon Feb 13 10:55:37 2045
Fingerprint (SHA-256):
D9:5D:0E:8E:DA:79:52:5B:F9:BE:B1:1B:14:D2:10:0D:32:94:98:5F:0C:62:D9:FA:BD:9C:D9:99:EC:CB:7B:1D
Fingerprint (SHA1): 02:2D:05:82:FA:88:CE:14:0C:06:79:DE:7F:14:10:E9:45:D7:A5:6D
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "HARICA TLS RSA Root CA 2021"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\154\061\013\060\011\006\003\125\004\006\023\002\107\122\061
\067\060\065\006\003\125\004\012\014\056\110\145\154\154\145\156
\151\143\040\101\143\141\144\145\155\151\143\040\141\156\144\040
\122\145\163\145\141\162\143\150\040\111\156\163\164\151\164\165
\164\151\157\156\163\040\103\101\061\044\060\042\006\003\125\004
\003\014\033\110\101\122\111\103\101\040\124\114\123\040\122\123
\101\040\122\157\157\164\040\103\101\040\062\060\062\061

```

END

CKA\_ID UTF8

"0"

CKA\_ISSUER MULTILINE\_OCTAL

\060\154\061\013\060\011\006\003\125\004\006\023\002\107\122\061  
\067\060\065\006\003\125\004\012\014\056\110\145\154\154\145\156  
\151\143\040\101\143\141\144\145\155\151\143\040\141\156\144\040  
\122\145\163\145\141\162\143\150\040\111\156\163\164\151\164\165  
\164\151\157\156\163\040\103\101\061\044\060\042\006\003\125\004  
\003\014\033\110\101\122\111\103\101\040\124\114\123\040\122\123  
\101\040\122\157\157\164\040\103\101\040\062\060\062\061

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

\002\020\071\312\223\034\357\103\363\306\216\223\307\364\144\211  
\070\176

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\005\244\060\202\003\214\240\003\002\001\002\002\020\071  
\312\223\034\357\103\363\306\216\223\307\364\144\211\070\176\060  
\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060\154  
\061\013\060\011\006\003\125\004\006\023\002\107\122\061\067\060  
\065\006\003\125\004\012\014\056\110\145\154\154\145\156\151\143  
\040\101\143\141\144\145\155\151\143\040\141\156\144\040\122\145  
\163\145\141\162\143\150\040\111\156\163\164\151\164\165\164\151  
\157\156\163\040\103\101\061\044\060\042\006\003\125\004\003\014  
\033\110\101\122\111\103\101\040\124\114\123\040\122\123\101\040  
\122\157\157\164\040\103\101\040\062\060\062\061\060\036\027\015  
\062\061\060\062\061\071\061\060\065\065\063\070\132\027\015\064  
\065\060\062\061\063\061\060\065\065\063\067\132\060\154\061\013  
\060\011\006\003\125\004\006\023\002\107\122\061\067\060\065\006  
\003\125\004\012\014\056\110\145\154\154\145\156\151\143\040\101  
\143\141\144\145\155\151\143\040\141\156\144\040\122\145\163\145  
\141\162\143\150\040\111\156\163\164\151\164\165\164\151\157\156  
\163\040\103\101\061\044\060\042\006\003\125\004\003\014\033\110  
\101\122\111\103\101\040\124\114\123\040\122\123\101\040\122\157  
\157\164\040\103\101\040\062\060\062\061\060\202\002\042\060\015  
\006\011\052\206\110\206\367\015\001\001\001\005\000\003\202\002  
\017\000\060\202\002\012\002\202\002\001\000\213\302\347\257\145  
\233\005\147\226\311\015\044\271\320\016\144\374\316\342\044\030  
\054\204\177\167\121\313\004\021\066\270\136\355\151\161\247\236  
\344\045\011\227\147\301\107\302\317\221\026\066\142\075\070\004  
\341\121\202\377\254\322\264\151\335\056\354\021\243\105\356\153  
\153\073\114\277\214\215\244\036\235\021\271\351\070\371\172\016  
\014\230\342\043\035\321\116\143\324\347\270\101\104\373\153\257  
\153\332\037\323\305\221\210\133\244\211\222\321\201\346\214\071  
\130\240\326\151\103\251\255\230\122\130\156\333\012\373\153\317  
\150\372\343\244\136\072\105\163\230\007\352\137\002\162\336\014  
\245\263\237\256\251\035\267\035\263\374\212\131\347\156\162\145

\255\365\060\224\043\007\363\202\026\113\065\230\234\123\273\057  
\312\344\132\331\307\215\035\374\230\231\373\054\244\202\153\360  
\052\037\216\013\137\161\134\134\256\102\173\051\211\201\313\003  
\243\231\312\210\236\013\100\011\101\063\333\346\130\172\375\256  
\231\160\300\132\017\326\023\206\161\057\166\151\374\220\335\333  
\055\156\321\362\233\365\032\153\236\157\025\214\172\360\113\050  
\240\042\070\200\044\154\066\244\073\362\060\221\363\170\023\317  
\301\077\065\253\361\035\021\043\265\103\042\236\001\222\267\030  
\002\345\021\321\202\333\025\000\314\141\067\301\052\174\232\341  
\320\272\263\120\106\356\202\254\235\061\370\373\043\342\003\000  
\110\160\243\011\046\171\025\123\140\363\070\134\255\070\352\201  
\000\143\024\271\063\136\335\013\333\240\105\007\032\063\011\370  
\115\264\247\002\246\151\364\302\131\005\210\145\205\126\256\113  
\313\340\336\074\175\055\032\310\351\373\037\243\141\112\326\052  
\023\255\167\114\032\030\233\221\017\130\330\006\124\305\227\370  
\252\077\040\212\246\205\246\167\366\246\374\034\342\356\156\224  
\063\052\203\120\204\012\345\117\206\370\120\105\170\000\201\353  
\133\150\343\046\215\314\173\134\121\364\024\054\100\276\032\140  
\035\172\162\141\035\037\143\055\210\252\316\242\105\220\010\374  
\153\276\263\120\052\132\375\250\110\030\106\326\220\100\222\220  
\012\204\136\150\061\370\353\355\015\323\035\306\175\231\030\125  
\126\047\145\056\215\105\305\044\354\316\343\002\003\001\000\001  
\243\102\060\100\060\017\006\003\125\035\023\001\001\377\004\005  
\060\003\001\001\377\060\035\006\003\125\035\016\004\026\004\024  
\012\110\043\246\140\244\222\012\063\352\223\133\305\127\352\045  
\115\275\022\356\060\016\006\003\125\035\017\001\001\377\004\004  
\003\002\001\206\060\015\006\011\052\206\110\206\367\015\001\001  
\013\005\000\003\202\002\001\000\076\220\110\252\156\142\025\045  
\146\173\014\325\214\213\211\235\327\355\116\007\357\234\320\024  
\137\136\120\275\150\226\220\244\024\021\252\150\155\011\065\071  
\100\011\332\364\011\054\064\245\173\131\204\111\051\227\164\310  
\007\036\107\155\362\316\034\120\046\343\236\075\100\123\077\367  
\177\226\166\020\305\106\245\320\040\113\120\364\065\073\030\364  
\125\152\101\033\107\006\150\074\273\011\010\142\331\137\125\102  
\252\254\123\205\254\225\126\066\126\253\344\005\214\305\250\332  
\037\243\151\275\123\017\304\377\334\312\343\176\362\114\210\206  
\107\106\032\363\000\365\200\221\242\334\103\102\224\233\040\360  
\321\315\262\353\054\123\302\123\170\112\117\004\224\101\232\217  
\047\062\301\345\111\031\277\361\362\302\213\250\012\071\061\050  
\264\175\142\066\054\115\354\037\063\266\176\167\155\176\120\360  
\237\016\327\021\217\317\030\305\343\047\376\046\357\005\235\317  
\317\067\305\320\173\332\073\260\026\204\014\072\223\326\276\027  
\333\017\076\016\031\170\011\307\251\002\162\042\113\367\067\166  
\272\165\304\205\003\132\143\325\261\165\005\302\271\275\224\255  
\214\025\231\247\223\175\366\305\363\252\164\317\004\205\224\230  
\000\364\342\371\312\044\145\277\340\142\257\310\305\372\262\311  
\236\126\110\332\171\375\226\166\025\276\243\216\126\304\263\064  
\374\276\107\364\301\264\250\374\325\060\210\150\356\313\256\311

```
\143\304\166\276\254\070\030\341\136\134\317\256\072\042\121\353
\321\213\263\363\053\063\007\124\207\372\264\262\023\173\272\123
\004\142\001\235\361\300\117\356\341\072\324\213\040\020\372\002
\127\346\357\301\013\267\220\106\234\031\051\214\334\157\240\112
\151\151\224\267\044\145\240\377\254\077\316\001\373\041\056\375
\150\370\233\362\245\317\061\070\134\025\252\346\227\000\301\337
\132\245\247\071\252\351\204\177\074\121\250\072\331\224\133\214
\277\117\010\161\345\333\250\134\324\322\246\376\000\243\306\026
\307\017\350\200\316\034\050\144\164\031\010\323\102\343\316\000
\135\177\261\334\023\260\341\005\313\321\040\252\206\164\236\071
\347\221\375\377\133\326\367\255\246\057\003\013\155\343\127\124
\353\166\123\030\215\021\230\272
```

END

CKA\_NSS\_Mozilla\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "HARICA TLS RSA Root CA 2021"

# Issuer: CN=HARICA TLS RSA Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR

# Serial Number:39:ca:93:1c:ef:43:f3:c6:8e:93:c7:f4:64:89:38:7e

# Subject: CN=HARICA TLS RSA Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR

# Not Valid Before: Fri Feb 19 10:55:38 2021

# Not Valid

After : Mon Feb 13 10:55:37 2045

# Fingerprint (SHA-256):

D9:5D:0E:8E:DA:79:52:5B:F9:BE:B1:1B:14:D2:10:0D:32:94:98:5F:0C:62:D9:FA:BD:9C:D9:99:EC:CB:7B:1D

# Fingerprint (SHA1): 02:2D:05:82:FA:88:CE:14:0C:06:79:DE:7F:14:10:E9:45:D7:A5:6D

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "HARICA TLS RSA Root CA 2021"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

```
\002\055\005\202\372\210\316\024\014\006\171\336\177\024\020\351
\105\327\245\155
```

END

CKA\_CERT\_MD5\_HASH MULTILINE\_OCTAL

```
\145\107\233\130\206\335\054\360\374\242\204\037\036\226\304\221
```

END

CKA\_ISSUER MULTILINE\_OCTAL

```
\060\154\061\013\060\011\006\003\125\004\006\023\002\107\122\061
\067\060\065\006\003\125\004\012\014\056\110\145\154\154\145\156
\151\143\040\101\143\141\144\145\155\151\143\040\141\156\144\040
\122\145\163\145\141\162\143\150\040\111\156\163\164\151\164\165
\164\151\157\156\163\040\103\101\061\044\060\042\006\003\125\004
\003\014\033\110\101\122\111\103\101\040\124\114\123\040\122\123
\101\040\122\157\157\164\040\103\101\040\062\060\062\061
```

```

END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\020\071\312\223\034\357\103\363\306\216\223\307\364\144\211
\070\176
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "HARICA TLS ECC Root CA 2021"
#
Issuer: CN=HARICA TLS ECC Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
Serial Number:67:74:9d:8d:77:d8:3b:6a:db:22:f4:ff:59:e2:bf:ce
Subject: CN=HARICA TLS ECC Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
Not Valid Before: Fri Feb 19 11:01:10 2021
Not Valid After : Mon Feb 13 11:01:09 2045
Fingerprint (SHA-256):
3F:99:CC:47:4A:CF:CE:4D:FE:D5:87:94:66:5E:47:8D:15:47:73:9F:2E:78:0F:1B:B4:CA:9B:13:30:97:D4:01
Fingerprint (SHA1): BC:B0:C1:9D:E9:98:92:70:19:38:57:E9:8D:A7:B4:5D:6E:EE:01:48
CKA_CLASS
CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "HARICA TLS ECC Root CA 2021"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\154\061\013\060\011\006\003\125\004\006\023\002\107\122\061
\067\060\065\006\003\125\004\012\014\056\110\145\154\154\145\156
\151\143\040\101\143\141\144\145\155\151\143\040\141\156\144\040
\122\145\163\145\141\162\143\150\040\111\156\163\164\151\164\165
\164\151\157\156\163\040\103\101\061\044\060\042\006\003\125\004
\003\014\033\110\101\122\111\103\101\040\124\114\123\040\105\103
\103\040\122\157\157\164\040\103\101\040\062\060\062\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\154\061\013\060\011\006\003\125\004\006\023\002\107\122\061
\067\060\065\006\003\125\004\012\014\056\110\145\154\154\145\156
\151\143\040\101\143\141\144\145\155\151\143\040\141\156\144\040
\122\145\163\145\141\162\143\150\040\111\156\163\164\151\164\165
\164\151\157\156\163\040\103\101\061\044\060\042\006\003\125\004
\003\014\033\110\101\122\111\103\101\040\124\114\123\040\105\103
\103\040\122\157\157\164\040\103\101\040\062\060\062\061
END

```

CKA\_SERIAL\_NUMBER

MULTILINE\_OCTAL

\002\020\147\164\235\215\167\330\073\152\333\042\364\377\131\342  
\277\316

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\002\124\060\202\001\333\240\003\002\001\002\002\020\147  
\164\235\215\167\330\073\152\333\042\364\377\131\342\277\316\060  
\012\006\010\052\206\110\316\075\004\003\003\060\154\061\013\060  
\011\006\003\125\004\006\023\002\107\122\061\067\060\065\006\003  
\125\004\012\014\056\110\145\154\154\145\156\151\143\040\101\143  
\141\144\145\155\151\143\040\141\156\144\040\122\145\163\145\141  
\162\143\150\040\111\156\163\164\151\164\165\164\151\157\156\163  
\040\103\101\061\044\060\042\006\003\125\004\003\014\033\110\101  
\122\111\103\101\040\124\114\123\040\105\103\103\040\122\157\157  
\164\040\103\101\040\062\060\062\061\060\036\027\015\062\061\060  
\062\061\071\061\061\060\061\061\060\132\027\015\064\065\060\062  
\061\063\061\061\060\061\060\071\132\060\154\061\013\060\011\006  
\003\125\004\006\023\002\107\122\061\067\060\065\006\003\125\004  
\012\014\056\110\145\154\154\145\156\151\143\040\101\143\141\144  
\145\155\151\143\040\141\156\144\040\122\145\163\145\141\162\143  
\150\040\111\156\163\164\151\164\165\164\151\157\156\163\040\103  
\101\061\044\060\042\006\003\125\004\003\014\033\110\101\122\111  
\103\101\040\124\114\123\040\105\103\103\040\122\157\157\164\040  
\103\101\040\062\060\062\061\060\166\060\020\006\007\052\206\110  
\316\075\002\001\006\005\053\201\004\000\042\003\142\000\004\070  
\010\376\261\240\226\322\172\254\257\111\072\320\300\340\303\073  
\050\252\361\162\155\145\000\107\210\204\374\232\046\153\252\113  
\272\154\004\012\210\136\027\362\125\207\374\060\260\064\342\064  
\130\127\032\204\123\351\060\331\251\362\226\164\303\121\037\130  
\111\061\314\230\116\140\021\207\165\323\162\224\220\117\233\020  
\045\052\250\170\055\276\220\101\130\220\025\162\247\241\267\243  
\102\060\100\060\017\006\003\125\035\023\001\001\377\004\005\060  
\003\001\001\377\060\035\006\003\125\035\016\004\026\004\024\311  
\033\123\201\022\376\004\325\026\321\252\274\232\157\267\240\225  
\031\156\312\060\016\006\003\125\035\017\001\001\377\004\004\003  
\002\001\206\060\012\006\010\052\206\110\316\075\004\003\003\003  
\147\000\060\144\002\060\021\336\256\370\334\116\210\260\251\360  
\042\255\302\121\100\357\140\161\055\356\217\002\304\135\003\160  
\111\244\222\352\305\024\210\160\246\323\015\260\252\312\054\100  
\234\373\351\202\156\232\002\060\053\107\232\007\306\321\302\201  
\174\312\013\226\030\101\033\243\364\060\011\236\265\043\050\015  
\237\024\266\074\123\242\114\006\151\175\372\154\221\306\052\111  
\105\346\354\267\023\341\072\154

END

CKA\_NSS\_MOZILLA\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE



CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "HARICA TLS ECC Root  
CA 2021"

# Issuer: CN=HARICA TLS ECC Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR

# Serial Number:67:74:9d:8d:77:d8:3b:6a:db:22:f4:ff:59:e2:bf:ce

# Subject: CN=HARICA TLS ECC Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR

# Not Valid Before: Fri Feb 19 11:01:10 2021

# Not Valid After : Mon Feb 13 11:01:09 2045

# Fingerprint (SHA-256):

3F:99:CC:47:4A:CF:CE:4D:FE:D5:87:94:66:5E:47:8D:15:47:73:9F:2E:78:0F:1B:B4:CA:9B:13:30:97:D4:01

# Fingerprint (SHA1): BC:B0:C1:9D:E9:98:92:70:19:38:57:E9:8D:A7:B4:5D:6E:EE:01:48

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "HARICA TLS ECC Root CA 2021"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

\274\260\301\235\351\230\222\160\031\070\127\351\215\247\264\135  
\156\356\001\110

END

CKA\_CERT\_MD5\_HASH MULTILINE\_OCTAL

\256\367\114\345\146\065\321\267\233\214\042\223\164\323\113\260  
END

CKA\_ISSUER MULTILINE\_OCTAL

\060\154\061\013\060\011\006\003\125\004\006\023\002\107\122\061  
\067\060\065\006\003\125\004\012\014\056\110\145\154\154\145\156  
\151\143\040\101\143\141\144\145\155\151\143\040\141\156\144\040  
\122\145\163\145\141\162\143\150\040\111\156\163\164\151\164\165  
\164\151\157\156\163\040\103\101\061\044\060\042\006\003\125\004  
\003\014\033\110\101\122\111\103\101\040\124\114\123\040\105\103  
\103\040\122\157\157\164\040\103\101\040\062\060\062\061

END

CKA\_SERIAL\_NUMBER

MULTILINE\_OCTAL

\002\020\147\164\235\215\167\330\073\152\333\042\364\377\131\342  
\277\316

END

CKA\_TRUST\_SERVER\_AUTH CK\_TRUST CKT\_NSS\_TRUSTED\_DELEGATOR

CKA\_TRUST\_EMAIL\_PROTECTION CK\_TRUST CKT\_NSS\_MUST\_VERIFY\_TRUST

CKA\_TRUST\_CODE\_SIGNING CK\_TRUST CKT\_NSS\_MUST\_VERIFY\_TRUST

CKA\_TRUST\_STEP\_UP\_APPROVED CK\_BBOOL CK\_FALSE

#

# Certificate "HARICA Client RSA Root CA 2021"

#

# Issuer: CN=HARICA Client RSA Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR

# Serial Number:55:52:f8:1e:db:1b:24:2c:9e:bb:96:18:cd:02:28:3e

```
Subject: CN=HARICA
Client RSA Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
Not Valid Before: Fri Feb 19 10:58:46 2021
Not Valid After : Mon Feb 13 10:58:45 2045
Fingerprint (SHA-256):
1B:E7:AB:E3:06:86:B1:63:48:AF:D1:C6:1B:68:66:A0:EA:7F:48:21:E6:7D:5E:8A:F9:37:CF:80:11:BC:75:0D
Fingerprint (SHA1): 46:C6:90:0A:77:3A:B6:BC:F4:65:AD:AC:FC:E3:F7:07:00:6E:DE:6E
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "HARICA Client RSA Root CA 2021"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\157\061\013\060\011\006\003\125\004\006\023\002\107\122\061
\067\060\065\006\003\125\004\012\014\056\110\145\154\154\145\156
\151\143\040\101\143\141\144\145\155\151\143\040\141\156\144\040
\122\145\163\145\141\162\143\150\040\111\156\163\164\151\164\165
\164\151\157\156\163\040\103\101\061\047\060\045\006\003\125\004
\003\014\036\110\101\122\111\103\101\040\103\154\151\145\156\164
\040\122\123\101\040\122\157\157\164\040\103\101\040\062\060\062
\061
END
CKA_ID
UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\157\061\013\060\011\006\003\125\004\006\023\002\107\122\061
\067\060\065\006\003\125\004\012\014\056\110\145\154\154\145\156
\151\143\040\101\143\141\144\145\155\151\143\040\141\156\144\040
\122\145\163\145\141\162\143\150\040\111\156\163\164\151\164\165
\164\151\157\156\163\040\103\101\061\047\060\045\006\003\125\004
\003\014\036\110\101\122\111\103\101\040\103\154\151\145\156\164
\040\122\123\101\040\122\157\157\164\040\103\101\040\062\060\062
\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\125\122\370\036\333\033\044\054\236\273\226\030\315\002
\050\076
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\252\060\202\003\222\240\003\002\001\002\002\020\125
\122\370\036\333\033\044\054\236\273\226\030\315\002\050\076\060
\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060\157
\061\013\060\011\006\003\125\004\006\023\002\107\122\061\067\060
\065\006\003\125\004\012\014\056\110\145\154\154\145\156\151\143
\040\101\143\141\144\145\155\151\143\040\141\156\144\040\122\145
\163\145\141\162\143\150\040\111\156\163\164\151\164\165\164\151
\157\156\163\040\103\101\061\047\060\045\006\003\125\004\003\014
```

\036\110\101\122\111\103\101\040\103\154\151\145\156\164\040\122  
\123\101\040\122\157\157\164\040\103\101\040\062\060\062\061\060  
\036\027\015\062\061\060\062\061\071\061\060\065\070\064\066\132  
\027\015\064\065\060\062\061\063\061\060\065\070\064\065\132\060  
\157\061\013\060\011\006\003\125\004\006\023\002\107\122\061\067  
\060\065\006\003\125\004\012\014\056\110\145\154\154\145\156\151  
\143\040\101\143\141\144\145\155\151\143\040\141\156\144\040\122  
\145\163\145\141\162\143\150\040\111\156\163\164\151\164\165\164  
\151\157\156\163\040\103\101\061\047\060\045\006\003\125\004\003  
\014\036\110\101\122\111\103\101\040\103\154\151\145\156\164\040  
\122\123\101\040\122\157\157\164\040\103\101\040\062\060\062\061  
\060\202\002\042\060\015\006\011\052\206\110\206\367\015\001\001  
\001\005\000\003\202\002\017\000\060\202\002\012\002\202\002\001  
\000\201\333\127\102\220\054\164\065\364\370\270\164\031\115\253  
\011\132\167\105\201\163\142\260\065\237\370\320\267\063\000\207  
\023\266\226\253\016\124\022\060\007\274\233\267\110\327\321\031  
\203\256\216\330\251\361\251\000\204\260\214\136\236\350\014\217  
\124\151\277\366\324\010\117\046\160\376\030\101\143\032\263\062  
\213\100\370\007\253\127\061\360\306\026\166\147\232\264\335\057  
\362\321\153\305\320\222\204\221\161\156\017\056\143\351\037\123  
\244\335\122\023\314\011\203\051\201\014\305\123\165\104\261\016  
\147\123\030\320\303\037\210\113\237\224\044\264\051\274\273\350  
\116\375\157\322\025\035\111\334\215\160\362\021\032\040\121\125  
\021\272\210\157\304\367\120\171\326\252\061\342\204\075\136\062  
\310\167\052\120\161\345\013\057\351\266\352\357\253\012\063\071  
\016\375\217\245\147\103\202\216\230\151\011\011\033\100\315\070  
\147\107\352\311\354\227\161\022\336\044\365\162\074\321\367\103  
\114\046\367\220\262\211\351\105\113\125\075\061\005\172\101\342  
\225\272\103\300\027\305\266\205\075\031\215\144\160\363\133\254  
\315\237\323\051\165\207\113\225\147\152\246\370\321\335\274\220  
\206\211\103\051\251\067\133\365\135\260\046\132\123\102\166\220  
\053\317\236\126\154\053\124\317\134\232\145\337\133\213\110\140  
\070\174\373\305\013\317\166\004\143\002\063\052\175\365\203\147  
\347\372\306\103\375\053\017\324\046\057\167\244\062\301\044\352  
\144\235\277\263\070\161\061\104\362\107\270\242\146\101\241\373  
\233\173\274\307\106\152\165\277\132\242\214\350\152\104\301\270  
\226\265\300\062\010\055\173\164\065\163\262\312\306\376\257\021  
\162\030\366\347\310\302\317\245\052\352\173\326\131\350\174\240  
\262\152\100\011\151\016\245\226\333\321\000\271\361\210\156\066  
\360\210\262\235\361\122\362\303\174\277\060\211\074\012\151\371  
\042\244\145\341\233\340\164\306\261\205\227\226\054\256\224\217  
\120\246\071\022\037\276\107\362\201\170\323\165\066\236\175\132  
\040\227\342\122\256\231\237\306\174\233\146\363\376\330\317\356  
\275\227\006\035\055\205\334\076\066\123\226\173\040\272\350\310  
\341\255\226\142\076\021\174\263\000\204\236\247\114\161\253\112  
\067\002\003\001\000\001\243\102\060\100\060\017\006\003\125\035  
\023\001\001\377\004\005\060\003\001\001\377\060\035\006\003\125  
\035\016\004\026\004\024\240\326\007\075\136\044\367\173\240\104

\056\044\122\015\031\252\053\004\221\247\060\016\006\003\125\035  
\017\001\001\377\004\004\003\002\001\206\060\015\006\011\052\206  
\110\206\367\015\001\001\013\005\000\003\202\002\001\000\015\107  
\371\011\146\061\122\354\171\356\302\250\362\150\076\355\226\105  
\313\072\246\230\143\077\352\053\115\116\003\320\034\202\341\313  
\323\345\326\253\133\147\050\274\235\376\014\231\012\200\125\247  
\316\033\043\141\015\260\127\360\376\340\312\276\346\220\333\203  
\054\276\203\216\364\171\266\376\320\015\102\247\130\037\151\352  
\201\365\005\245\376\106\150\353\154\170\311\340\352\347\346\336  
\061\305\322\325\054\202\143\050\235\135\250\032\176\210\346\347  
\053\361\054\325\320\005\236\334\055\275\067\146\324\004\242\247  
\255\277\072\302\250\073\255\377\215\235\063\340\271\232\204\241  
\207\037\166\364\202\164\327\016\371\060\110\076\133\210\076\252  
\134\153\326\057\014\350\216\163\302\030\221\203\071\266\146\132  
\320\037\140\047\135\115\343\366\072\015\146\120\234\170\173\253  
\363\023\020\256\017\057\253\350\144\263\030\040\235\106\065\144  
\045\163\352\233\020\134\130\065\211\261\106\110\247\364\254\324  
\035\236\133\314\251\245\032\023\117\044\120\252\331\033\155\261  
\100\373\235\335\130\164\304\302\157\024\162\354\333\065\237\270  
\124\165\105\303\246\310\032\050\065\072\256\145\362\251\230\316  
\257\133\311\070\214\061\073\177\314\334\226\375\342\133\326\320  
\131\364\166\272\013\313\117\203\020\307\100\320\035\140\351\052  
\345\110\130\167\014\105\151\276\031\161\004\044\342\343\044\037  
\112\310\301\076\231\365\226\230\070\110\045\241\025\260\033\327  
\342\204\030\133\366\161\065\232\150\173\100\314\030\134\014\044  
\235\324\225\365\231\252\106\352\256\254\277\364\024\031\044\350  
\214\354\343\365\274\006\150\212\052\014\005\137\012\227\165\247  
\334\176\300\375\327\172\030\337\060\321\070\113\037\260\230\160  
\277\314\174\163\360\156\304\061\245\244\227\035\254\277\316\154  
\041\112\276\047\043\147\363\006\126\201\012\221\216\266\341\003  
\005\063\054\332\064\010\115\116\120\043\255\037\245\305\324\172  
\376\352\011\354\247\050\140\213\106\174\265\352\233\335\117\371  
\347\153\025\306\210\317\103\333\345\047\334\004\126\156\157\106  
\025\361\126\055\350\134\014\163\303\043\201\070\040\313\311\014  
\151\317\054\253\073\204\140\063\031\122\375\151\024\063

END

CKA\_NSS\_MOZILLA\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "HARICA Client RSA Root CA 2021"

# Issuer: CN=HARICA Client RSA Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR

# Serial Number:55:52:f8:1e:db:1b:24:2c:9e:bb:96:18:cd:02:28:3e

#

Subject: CN=HARICA Client RSA Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR

# Not Valid Before: Fri Feb 19 10:58:46 2021

# Not Valid After : Mon Feb 13 10:58:45 2045

```

Fingerprint (SHA-256):
1B:E7:AB:E3:06:86:B1:63:48:AF:D1:C6:1B:68:66:A0:EA:7F:48:21:E6:7D:5E:8A:F9:37:CF:80:11:BC:75:0D
Fingerprint (SHA1): 46:C6:90:0A:77:3A:B6:BC:F4:65:AD:AC:FC:E3:F7:07:00:6E:DE:6E
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "HARICA Client RSA Root CA 2021"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\106\306\220\012\167\072\266\274\364\145\255\254\374\343\367\007
\000\156\336\156
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\157\355\134\327\210\314\070\251\334\351\335\331\135\333\330\355
END
CKA_ISSUER MULTILINE_OCTAL
\060\157\061\013\060\011\006\003\125\004\006\023\002\107\122\061
\067\060\065\006\003\125\004\012\014\056\110\145\154\154\145\156
\151\143\040\101\143\141\144\145\155\151\143\040\141\156\144\040
\122\145\163\145\141\162\143\150\040\111\156\163\164\151\164\165
\164\151\157\156\163\040\103\101\061\047\060\045\006\003\125\004
\003\014\036\110\101\122\111\103\101\040\103\154\151\145\156\164
\040\122\123\101\040\122\157\157\164\040\103\101\040\062\060\062
\061
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\020\125\122\370\036\333\033\044\054\236\273\226\030\315\002
\050\076
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "HARICA Client ECC Root CA 2021"
#
Issuer: CN=HARICA Client ECC Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
Serial Number:31:68:d9:d8:e1:62:57:1e:d2:19:44:88:e6:10:7d:f0
Subject: CN=HARICA Client ECC Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
Not Valid Before: Fri Feb 19 11:03:34 2021
Not Valid After : Mon
Feb 13 11:03:33 2045
Fingerprint (SHA-256):
8D:D4:B5:37:3C:B0:DE:36:76:9C:12:33:92:80:D8:27:46:B3:AA:6C:D4:26:E7:97:A3:1B:AB:E4:27:9C:F0:0B
Fingerprint (SHA1): BE:64:D3:DA:14:4B:D2:6B:CD:AF:8F:DB:A6:A6:72:F8:DE:26:F9:00
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

```

```
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "HARICA Client ECC Root CA 2021"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\157\061\013\060\011\006\003\125\004\006\023\002\107\122\061
\067\060\065\006\003\125\004\012\014\056\110\145\154\154\145\156
\151\143\040\101\143\141\144\145\155\151\143\040\141\156\144\040
\122\145\163\145\141\162\143\150\040\111\156\163\164\151\164\165
\164\151\157\156\163\040\103\101\061\047\060\045\006\003\125\004
\003\014\036\110\101\122\111\103\101\040\103\154\151\145\156\164
\040\105\103\103\040\122\157\157\164\040\103\101\040\062\060\062
\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\157\061\013\060\011\006\003\125\004\006\023\002\107\122\061
\067\060\065\006\003\125\004\012\014\056\110\145\154\154\145\156
\151\143\040\101\143\141\144\145\155\151\143\040\141\156\144\040
\122\145\163\145\141\162\143\150\040\111\156\163\164\151\164\165
\164\151\157\156\163\040\103\101\061\047\060\045\006\003\125\004
\003\014\036\110\101\122\111\103\101\040\103\154\151\145\156\164
\040\105\103\103\040\122\157\157\164\040\103\101\040\062\060\062
\061
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\020\061\150\331\330\341\142\127\036\322\031\104\210\346\020
\175\360
END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\132\060\202\001\341\240\003\002\001\002\002\020\061
\150\331\330\341\142\127\036\322\031\104\210\346\020\175\360\060
\012\006\010\052\206\110\316\075\004\003\003\060\157\061\013\060
\011\006\003\125\004\006\023\002\107\122\061\067\060\065\006\003
\125\004\012\014\056\110\145\154\154\145\156\151\143\040\101\143
\141\144\145\155\151\143\040\141\156\144\040\122\145\163\145\141
\162\143\150\040\111\156\163\164\151\164\165\164\151\157\156\163
\040\103\101\061\047\060\045\006\003\125\004\003\014\036\110\101
\122\111\103\101\040\103\154\151\145\156\164\040\105\103\103\040
\122\157\157\164\040\103\101\040\062\060\062\061\060\036\027\015
\062\061\060\062\061\071\061\061\060\063\063\064\132\027\015\064
\065\060\062\061\063\061\061\060\063\063\063\132\060\157\061\013
\060\011\006\003\125\004\006\023\002\107\122\061\067\060\065\006
\003\125\004\012\014\056\110\145\154\154\145\156\151\143\040\101
\143\141\144\145\155\151\143\040\141\156\144\040\122\145\163\145
\141\162\143\150\040\111\156\163\164\151\164\165\164\151\157\156
```

```
\163\040\103\101\061\047\060\045\006\003\125\004\003\014\036\110
\101\122\111\103\101\040\103\154\151\145\156\164\040\105\103\103
\040\122\157\157\164\040\103\101\040\062\060\062\061\060\166\060
\020\006\007\052\206\110\316\075\002\001\006\005\053\201\004\000
\042\003\142\000\004\007\030\255\225\226\224\320\134\017\202\367
\052\100\372\002\311\311\075\066\246\243\004\152\301\155\225\001
\210\140\022\124\154\134\242\053\156\023\072\210\225\014\034\046
\206\066\112\211\031\267\030\336\073\350\250\120\037\312\337\133
\277\111\200\025\333\343\060\341\035\132\307\052\212\001\007\376
\155\054\064\357\050\050\227\274\301\371\127\206\225\213\065\317
\236\132\321\150\225\243\102\060\100\060\017\006\003\125\035\023
\001\001\377\004\005\060\003\001\001\377\060\035\006\003\125\035
\016\004\026\004\024\122\010\322\276\062\201\045\375\365\032\227
\354\116\137\032\273\123\315\220\255\060\016\006\003\125\035\017
\001\001\377\004\004\003\002\001\206\060\012\006\010\052\206\110
\316\075\004\003\003\003\147\000\060\144\002\060\114\061\105\106
\117\250\346\276\303\167\262\032\030\113\055\210\173\130\346\253
\224\153\104\003\260\027\377\337\202\163\104\121\054\375\223\035
\006\173\024\322\211\354\100\014\357\041\001\056\002\060\057\311
\056\132\154\054\035\331\225\340\236\260\271\134\122\174\366\370
\070\312\056\361\324\035\362\242\111\242\225\370\301\130\136\117
\376\163\012\357\061\260\253\043\130\023\214\213\336\073
```

END

CKA\_NSS\_MOZILLA\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "HARICA Client ECC Root CA 2021"

# Issuer: CN=HARICA Client ECC Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR

# Serial Number:31:68:d9:d8:e1:62:57:1e:d2:19:44:88:e6:10:7d:f0

# Subject: CN=HARICA Client ECC Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR

# Not Valid Before: Fri Feb 19 11:03:34 2021

# Not Valid After : Mon Feb 13 11:03:33 2045

# Fingerprint (SHA-256):

8D:D4:B5:37:3C:B0:DE:36:76:9C:12:33:92:80:D8:27:46:B3:AA:6C:D4:26:E7:97:A3:1B:AB:E4:27:9C:F0:0B

# Fingerprint (SHA1): BE:64:D3:DA:14:4B:D2:6B:CD:AF:8F:DB:A6:A6:72:F8:DE:26:F9:00

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "HARICA Client ECC Root CA 2021"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

```
\276\144\323\332\024\113\322\153\315\257\217\333\246\246\162\370
\336\046\371\000
```

END

CKA\_CERT\_MD5\_HASH

```

MULTILINE_OCTAL
\255\270\120\246\251\202\172\154\075\032\252\244\322\143\244\104
END
CKA_ISSUER MULTILINE_OCTAL
\060\157\061\013\060\011\006\003\125\004\006\023\002\107\122\061
\067\060\065\006\003\125\004\012\014\056\110\145\154\145\156
\151\143\040\101\143\141\144\145\155\151\143\040\141\156\144\040
\122\145\163\145\141\162\143\150\040\111\156\163\164\151\164\165
\164\151\157\156\163\040\103\101\061\047\060\045\006\003\125\004
\003\014\036\110\101\122\111\103\101\040\103\154\151\145\156\164
\040\105\103\103\040\122\157\157\164\040\103\101\040\062\060\062
\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\061\150\331\330\341\142\127\036\322\031\104\210\346\020
\175\360
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED
CK_BBOOL CK_FALSE

#
Certificate "Autoridad de Certificacion Firmaprofesional CIF A62634068"
#
Issuer: CN=Autoridad de Certificacion Firmaprofesional CIF A62634068,C=ES
Serial Number:1b:70:e9:d2:ff:ae:6c:71
Subject: CN=Autoridad de Certificacion Firmaprofesional CIF A62634068,C=ES
Not Valid Before: Tue Sep 23 15:22:07 2014
Not Valid After : Mon May 05 15:22:07 2036
Fingerprint (SHA-256):
57:DE:05:83:EF:D2:B2:6E:03:61:DA:99:DA:9D:F4:64:8D:EF:7E:E8:44:1C:3B:72:8A:FA:9B:CD:E0:F9:B2:6A
Fingerprint (SHA1): 0B:BE:C2:27:22:49:CB:39:AA:DB:35:5C:53:E3:8C:AE:78:FF:B6:FE
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Autoridad de Certificacion Firmaprofesional CIF A62634068"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\121\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\102\060\100\006\003\125\004\003\014\071\101\165\164\157\162\151
\144\141\144\040\144\145\040\103\145\162\164\151\146\151\143\141
\143\151\157\156\040\106\151\162\155\141\160\162\157\146\145\163
\151\157\156\141\154\040\103\111\106\040\101\066\062\066\063\064
\060\066\070
END

```



```
CKA_ID
UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\121\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\102\060\100\006\003\125\004\003\014\071\101\165\164\157\162\151
\144\141\144\040\144\145\040\103\145\162\164\151\146\151\143\141
\143\151\157\156\040\106\151\162\155\141\160\162\157\146\145\163
\151\157\156\141\154\040\103\111\106\040\101\066\062\066\063\064
\060\066\070
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\033\160\351\322\377\256\154\161
END
CKA_VALUE MULTILINE_OCTAL
\060\202\006\024\060\202\003\374\240\003\002\001\002\002\010\033
\160\351\322\377\256\154\161\060\015\006\011\052\206\110\206\367
\015\001\001\013\005\000\060\121\061\013\060\011\006\003\125\004
\006\023\002\105\123\061\102\060\100\006\003\125\004\003\014\071
\101\165\164\157\162\151\144\141\144\040\144\145\040\103\145\162
\164\151\146\151\143\141\143\151\157\156\040\106\151\162\155\141
\160\162\157\146\145\163\151\157\156\141\154\040\103\111\106\040
\101\066\062\066\063\064\060\066\070\060\036\027\015\061\064\060
\071\062\063\061\065\062\062\060\067\132\027\015\063\066\060\065
\060\065\061\065\062\062\060\067\132\060\121\061\013\060\011\006
\003\125\004\006\023\002\105\123\061\102\060\100\006\003\125\004
\003\014\071\101\165\164\157\162\151\144\141\144\040\144\145\040
\103\145\162\164\151\146\151\143\141\143\151\157\156\040\106\151
\162\155\141\160\162\157\146\145\163\151\157\156\141\154\040\103
\111\106\040\101\066\062\066\063\064\060\066\070\060\202\002\042
\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003
\202\002\017\000\060\202\002\012\002\202\002\001\000\312\226\153
\216\352\370\373\361\242\065\340\177\114\332\340\303\122\327\175
\266\020\310\002\136\263\103\052\304\117\152\262\312\034\135\050
\232\170\021\032\151\131\127\257\265\040\102\344\213\017\346\337
\133\246\003\222\057\365\021\344\142\327\062\161\070\331\004\014
\161\253\075\121\176\017\007\337\143\005\134\351\277\224\157\301
\051\202\300\264\332\121\260\301\074\273\255\067\112\134\312\361
\113\066\016\044\253\277\303\204\167\375\250\120\364\261\347\306
\057\322\055\131\215\172\012\116\226\151\122\002\252\066\230\354
\374\372\024\203\014\067\037\311\222\067\177\327\201\055\345\304
\271\340\076\064\376\147\364\076\146\321\323\364\100\317\136\142
\064\017\160\006\076\040\030\132\316\367\162\033\045\154\223\164
\024\223\243\163\261\016\252\207\020\043\131\137\040\005\031\107
\355\150\216\222\022\312\135\374\326\053\262\222\074\040\317\341
\137\257\040\276\240\166\177\166\345\354\032\206\141\063\076\347
\173\264\077\240\017\216\242\271\152\157\271\207\046\157\101\154
\210\246\120\375\152\143\013\365\223\026\033\031\217\262\355\233
\233\311\220\365\001\014\337\031\075\017\076\070\043\311\057\217
```

\014\321\002\376\033\125\326\116\320\215\074\257\117\244\363\376  
\257\052\323\005\235\171\010\241\313\127\061\264\234\310\220\262  
\147\364\030\026\223\072\374\107\330\321\170\226\061\037\272\053  
\014\137\135\231\255\143\211\132\044\040\166\330\337\375\253\116  
\246\042\252\235\136\346\047\212\175\150\051\243\347\212\270\332  
\021\273\027\055\231\235\023\044\106\367\305\342\330\237\216\177  
\307\217\164\155\132\262\350\162\365\254\356\044\020\255\057\024  
\332\377\055\232\106\161\107\276\102\337\273\001\333\364\177\323  
\050\217\061\131\133\323\311\002\246\264\122\312\156\227\373\103  
\305\010\046\157\212\364\273\375\237\050\252\015\325\105\363\023  
\072\035\330\300\170\217\101\147\074\036\224\144\256\173\013\305  
\350\331\001\210\071\032\227\206\144\101\325\073\207\014\156\372  
\017\306\275\110\024\277\071\115\324\236\101\266\217\226\035\143  
\226\223\331\225\006\170\061\150\236\067\006\073\200\211\105\141  
\071\043\307\033\104\243\025\345\034\370\222\060\273\002\003\001  
\000\001\243\201\357\060\201\354\060\035\006\003\125\035\016\004  
\026\004\024\145\315\353\253\065\036\000\076\176\325\164\300\034  
\264\163\107\016\032\144\057\060\022\006\003\125\035\023\001\001  
\377\004\010\060\006\001\001\377\002\001\001\060\201\246\006\003  
\125\035\040\004\201\236\060\201\233\060\201\230\006\004\125\035  
\040\000\060\201\217\060\057\006\010\053\006\001\005\005\007\002  
\001\026\043\150\164\164\160\072\057\057\167\167\167\056\146\151  
\162\155\141\160\162\157\146\145\163\151\157\156\141\154\056\143  
\157\155\057\143\160\163\060\134\006\010\053\006\001\005\005\007  
\002\002\060\120\036\116\000\120\000\141\000\163\000\145\000\157  
\000\040\000\144\000\145\000\040\000\154\000\141\000\040\000\102  
\000\157\000\156\000\141\000\156\000\157\000\166\000\141\000\040  
\000\064\000\067\000\040\000\102\000\141\000\162\000\143\000\145  
\000\154\000\157\000\156\000\141\000\040\000\060\000\070\000\060  
\000\061\000\067\060\016\006\003\125\035\017\001\001\377\004\004  
\003\002\001\006\060\015\006\011\052\206\110\206\367\015\001\001  
\013\005\000\003\202\002\001\000\164\207\050\002\053\167\037\146  
\211\144\355\217\164\056\106\034\273\250\370\370\013\035\203\266  
\072\247\350\105\212\007\267\340\076\040\313\341\010\333\023\010  
\370\050\241\065\262\200\263\013\121\300\323\126\232\215\063\105  
\111\257\111\360\340\075\007\172\105\023\132\377\310\227\330\323  
\030\054\175\226\370\335\242\145\103\160\223\220\025\272\220\337  
\350\031\260\333\054\212\140\017\267\157\224\007\036\035\246\311  
\205\366\275\064\370\100\170\142\020\160\072\276\175\113\071\201  
\251\020\324\226\101\273\370\137\034\013\035\010\362\261\260\211  
\172\362\367\240\340\304\217\213\170\265\073\130\245\043\216\117  
\125\376\066\073\340\014\267\312\052\060\101\040\264\200\315\256  
\374\166\146\163\250\256\156\341\174\332\003\350\224\040\346\042  
\243\320\037\220\135\040\123\024\046\127\332\124\227\337\026\104  
\020\001\036\210\146\217\162\070\223\335\040\267\064\276\327\361  
\356\143\216\107\171\050\006\374\363\131\105\045\140\042\063\033  
\243\137\250\272\052\332\032\075\315\100\352\214\356\005\025\225  
\325\245\054\040\057\247\230\050\356\105\374\361\270\210\000\054

```
\217\102\332\121\325\234\345\023\150\161\105\103\213\236\013\041
\074\113\134\005\334\032\237\230\216\332\275\042\236\162\315\255
\012\313\314\243\147\233\050\164\304\233\327\032\074\004\130\246
\202\235\255\307\173\157\377\200\226\351\370\215\152\275\030\220
\035\377\111\032\220\122\067\223\057\074\002\135\202\166\013\121
\347\026\307\127\370\070\371\247\315\233\042\124\357\143\260\025
\155\123\145\003\112\136\112\240\262\247\216\111\000\131\070\325
\307\364\200\144\365\156\225\120\270\021\176\025\160\070\112\260
\177\320\304\062\160\300\031\377\311\070\055\024\054\146\364\102
\104\346\125\166\033\200\025\127\377\300\247\247\252\071\252\330
\323\160\320\056\272\353\224\152\372\137\064\206\347\142\265\375
\212\360\060\205\224\311\257\044\002\057\157\326\335\147\376\343
\260\125\117\004\230\117\244\101\126\342\223\320\152\350\326\363
\373\145\340\316\165\304\061\131\014\356\202\310\014\140\063\112
\031\272\204\147\047\017\274\102\135\275\044\124\015\354\035\160
\006\137\244\274\372\040\174\125
```

END

CKA\_NSS\_MOZILLA\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "Autoridad de Certificacion Firmaprofesional CIF A62634068"

# Issuer: CN=Autoridad de Certificacion Firmaprofesional CIF A62634068,C=ES

# Serial Number:1b:70:e9:d2:ff:ae:6c:71

# Subject: CN=Autoridad de Certificacion Firmaprofesional CIF A62634068,C=ES

# Not Valid Before: Tue Sep 23 15:22:07 2014

# Not Valid After : Mon May 05 15:22:07 2036

# Fingerprint (SHA-256):

57:DE:05:83:EF:D2:B2:6E:03:61:DA:99:DA:9D:F4:64:8D:EF:7E:E8:44:1C:3B:72:8A:FA:9B:CD:E0:F9:B2:6A

# Fingerprint (SHA1): 0B:BE:C2:27:22:49:CB:39:AA:DB:35:5C:53:E3:8C:AE:78:FF:B6:FE

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "Autoridad de Certificacion Firmaprofesional CIF A62634068"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

```
\013\276\302\047\042\111\313\071\252\333\065\134\123\343\214\256
\170\377\266\376
```

END

CKA\_CERT\_MD5\_HASH

MULTILINE\_OCTAL

```
\116\156\233\124\114\312\267\372\110\344\220\261\025\113\034\243
```

END

CKA\_ISSUER MULTILINE\_OCTAL

```
\060\121\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\102\060\100\006\003\125\004\003\014\071\101\165\164\157\162\151
\144\141\144\040\144\145\040\103\145\162\164\151\146\151\143\141
```

```
\143\151\157\156\040\106\151\162\155\141\160\162\157\146\145\163
\151\157\156\141\154\040\103\111\106\040\101\066\062\066\063\064
\060\066\070
```

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

```
\002\010\033\160\351\322\377\256\154\161
```

END

CKA\_TRUST\_SERVER\_AUTH CK\_TRUST CKT\_NSS\_TRUSTED\_DELEGATOR

CKA\_TRUST\_EMAIL\_PROTECTION CK\_TRUST CKT\_NSS\_TRUSTED\_DELEGATOR

CKA\_TRUST\_CODE\_SIGNING CK\_TRUST CKT\_NSS\_MUST\_VERIFY\_TRUST

CKA\_TRUST\_STEP\_UP\_APPROVED CK\_BBOOL CK\_FALSE

#

# Certificate "vTrus ECC Root CA"

#

# Issuer: CN=vTrus ECC Root CA,O="iTrusChina Co.,Ltd.",C=CN

# Serial Number:6e:6a:bc:59:aa:53:be:98:39:67:a2:d2:6b:a4:3b:e6:6d:1c:d6:da

#

Subject: CN=vTrus ECC Root CA,O="iTrusChina Co.,Ltd.",C=CN

# Not Valid Before: Tue Jul 31 07:26:44 2018

# Not Valid After : Fri Jul 31 07:26:44 2043

# Fingerprint (SHA-256):

30:FB:BA:2C:32:23:8E:2A:98:54:7A:F9:79:31:E5:50:42:8B:9B:3F:1C:8E:EB:66:33:DC:FA:86:C5:B2:7D:D3

# Fingerprint (SHA1): F6:9C:DB:B0:FC:F6:02:13:B6:52:32:A6:A3:91:3F:16:70:DA:C3:E1

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_CERTIFICATE

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "vTrus ECC Root CA"

CKA\_CERTIFICATE\_TYPE CK\_CERTIFICATE\_TYPE CKC\_X\_509

CKA\_SUBJECT MULTILINE\_OCTAL

```
\060\107\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\034\060\032\006\003\125\004\012\023\023\151\124\162\165\163\103
\150\151\156\141\040\103\157\056\054\114\164\144\056\061\032\060
\030\006\003\125\004\003\023\021\166\124\162\165\163\040\105\103
\103\040\122\157\157\164\040\103\101
```

END

CKA\_ID UTF8 "0"

CKA\_ISSUER MULTILINE\_OCTAL

```
\060\107\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\034\060\032\006\003\125\004\012\023\023\151\124\162\165\163\103
\150\151\156\141\040\103\157\056\054\114\164\144\056\061\032\060
\030\006\003\125\004\003\023\021\166\124\162\165\163\040\105\103
\103\040\122\157\157\164\040\103\101
```

END

CKA\_SERIAL\_NUMBER

MULTILINE\_OCTAL

```
\002\024\156\152\274\131\252\123\276\230\071\147\242\322\153\244
```

\073\346\155\034\326\332

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\002\017\060\202\001\225\240\003\002\001\002\002\024\156  
\152\274\131\252\123\276\230\071\147\242\322\153\244\073\346\155  
\034\326\332\060\012\006\010\052\206\110\316\075\004\003\003\060  
\107\061\013\060\011\006\003\125\004\006\023\002\103\116\061\034  
\060\032\006\003\125\004\012\023\023\151\124\162\165\163\103\150  
\151\156\141\040\103\157\056\054\114\164\144\056\061\032\060\030  
\006\003\125\004\003\023\021\166\124\162\165\163\040\105\103\103  
\040\122\157\157\164\040\103\101\060\036\027\015\061\070\060\067  
\063\061\060\067\062\066\064\064\132\027\015\064\063\060\067\063  
\061\060\067\062\066\064\064\132\060\107\061\013\060\011\006\003  
\125\004\006\023\002\103\116\061\034\060\032\006\003\125\004\012  
\023\023\151\124\162\165\163\103\150\151\156\141\040\103\157\056  
\054\114\164\144\056\061\032\060\030\006\003\125\004\003\023\021  
\166\124\162\165\163\040\105\103\103\040\122\157\157\164\040\103  
\101\060\166\060\020\006\007\052\206\110\316\075\002\001\006\005  
\053\201\004\000\042\003\142\000\004\145\120\112\256\214\171\226  
\112\252\034\010\303\243\242\315\376\131\126\101\167\375\046\224  
\102\273\035\315\010\333\163\262\133\165\363\317\234\116\202\364  
\277\370\141\046\205\154\326\205\133\162\160\322\375\333\142\264  
\337\123\213\275\261\104\130\142\102\011\307\372\177\133\020\347  
\376\100\375\300\330\303\053\062\347\160\246\267\246\040\125\035  
\173\200\135\113\217\147\114\361\020\243\102\060\100\060\035\006  
\003\125\035\016\004\026\004\024\230\071\315\276\330\262\214\367  
\262\253\341\255\044\257\173\174\241\333\037\317\060\017\006\003  
\125\035\023\001\001\377\004\005\060\003\001\001\377\060\016\006  
\003\125\035\017\001\001\377\004\004\003\002\001\006\060\012\006  
\010\052\206\110\316\075\004\003\003\003\150\000\060\145\002\060  
\127\235\335\126\361\307\343\351\270\111\120\153\233\151\303\157  
\354\303\175\045\344\127\225\023\100\233\122\323\073\363\100\031  
\274\046\307\055\006\236\265\173\066\237\365\045\324\143\153\000  
\002\061\000\351\323\306\236\126\232\052\314\241\332\077\310\146  
\053\323\130\234\040\205\372\253\221\212\160\160\021\070\140\144  
\013\142\011\221\130\000\371\115\373\064\150\332\011\255\041\006  
\030\224\316

END

CKA\_NSS\_MOZILLA\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "vTrus ECC Root CA"

# Issuer: CN=vTrus ECC Root CA,O="iTrusChina Co.,Ltd.",C=CN

# Serial Number:6e:6a:bc:59:aa:53:be:98:39:67:a2:d2:6b:a4:3b:e6:6d:1c:d6:da

# Subject: CN=vTrus ECC Root CA,O="iTrusChina Co.,Ltd.",C=CN

# Not Valid Before: Tue Jul 31 07:26:44 2018

```

Not
Valid After : Fri Jul 31 07:26:44 2043
Fingerprint (SHA-256):
30:FB:BA:2C:32:23:8E:2A:98:54:7A:F9:79:31:E5:50:42:8B:9B:3F:1C:8E:EB:66:33:DC:FA:86:C5:B2:7D:D3
Fingerprint (SHA1): F6:9C:DB:B0:FC:F6:02:13:B6:52:32:A6:A3:91:3F:16:70:DA:C3:E1
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "vTrus ECC Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\366\234\333\260\374\366\002\023\266\122\062\246\243\221\077\026
\160\332\303\341
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\336\113\301\365\122\214\233\103\341\076\217\125\124\027\215\205
END
CKA_ISSUER MULTILINE_OCTAL
\060\107\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\034\060\032\006\003\125\004\012\023\023\151\124\162\165\163\103
\150\151\156\141\040\103\157\056\054\114\164\144\056\061\032\060
\030\006\003\125\004\003\023\021\166\124\162\165\163\040\105\103
\103\040\122\157\157\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\156\152\274\131\252\123\276\230\071\147\242\322\153\244
\073\346\155\034\326\332
END
CKA_TRUST_SERVER_AUTH
CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "vTrus Root CA"
#
Issuer: CN=vTrus Root CA,O="iTrusChina Co.,Ltd.",C=CN
Serial Number:43:e3:71:13:d8:b3:59:14:5d:b7:ce:8c:fd:35:fd:6f:bc:05:8d:45
Subject: CN=vTrus Root CA,O="iTrusChina Co.,Ltd.",C=CN
Not Valid Before: Tue Jul 31 07:24:05 2018
Not Valid After : Fri Jul 31 07:24:05 2043
Fingerprint (SHA-256):
8A:71:DE:65:59:33:6F:42:6C:26:E5:38:80:D0:0D:88:A1:8D:A4:C6:A9:1F:0D:CB:61:94:E2:06:C5:C9:63:87
Fingerprint (SHA1): 84:1A:69:FB:F5:CD:1A:25:34:13:3D:E3:F8:FC:B8:99:D0:C9:14:B7
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE

```

```
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "vTrus Root CA"
CKA_CERTIFICATE_TYPE
 CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\103\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\034\060\032\006\003\125\004\012\023\023\151\124\162\165\163\103
\150\151\156\141\040\103\157\056\054\114\164\144\056\061\026\060
\024\006\003\125\004\003\023\015\166\124\162\165\163\040\122\157
\157\164\040\103\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\103\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\034\060\032\006\003\125\004\012\023\023\151\124\162\165\163\103
\150\151\156\141\040\103\157\056\054\114\164\144\056\061\026\060
\024\006\003\125\004\003\023\015\166\124\162\165\163\040\122\157
\157\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\103\343\161\023\330\263\131\024\135\267\316\214\375\065
\375\157\274\005\215\105
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\126\060\202\003\076\240\003\002\001\002\002\024\103
\343\161\023\330\263\131\024\135\267\316\214\375\065\375\157\274
\005\215\105\060\015\006\011\052\206\110\206\367\015\001\001\013
\005\000\060\103\061\013\060\011\006\003\125\004\006\023\002\103
\116\061\034\060\032\006\003\125\004\012\023\023\151\124\162\165
\163\103\150\151\156\141\040\103\157\056\054\114\164\144\056\061
\026\060\024\006\003\125\004\003\023\015\166\124\162\165\163\040
\122\157\157\164\040\103\101\060\036\027\015\061\070\060\067\063
\061\060\067\062\064\060\065\132\027\015\064\063\060\067\063\061
\060\067\062\064\060\065\132\060\103\061\013\060\011\006\003\125
\004\006\023\002\103\116\061\034\060\032\006\003\125\004\012\023
\023\151\124\162\165\163\103\150\151\156\141\040\103\157\056\054
\114\164\144\056\061\026\060\024\006\003\125\004\003\023\015\166
\124\162\165\163\040\122\157\157\164\040\103\101\060\202\002\042
\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003
\202\002\017\000\060\202\002\012\002\202\002\001\000\275\125\174
\141\323\270\035\004\142\005\240\256\154\267\160\264\101\352\113
\003\136\020\077\220\132\034\213\073\260\146\213\154\110\246\034
\042\272\325\100\222\356\063\262\043\131\311\216\274\130\332\213
\236\320\031\362\057\131\306\214\143\132\272\237\243\013\260\263
\232\134\272\021\270\022\351\014\273\317\156\154\200\207\051\024
\003\054\215\044\232\310\144\203\265\152\254\023\054\063\361\237
\334\054\141\074\032\077\160\125\233\255\000\122\177\317\004\271
\376\066\372\234\300\026\256\142\376\226\114\103\176\125\024\276
```

\032\263\322\155\302\257\166\146\225\153\052\260\224\167\205\136  
\004\017\142\035\143\165\367\153\347\313\133\232\160\354\076\147  
\005\360\376\007\010\200\317\050\333\005\306\024\047\057\206\175  
\360\047\336\377\346\176\063\110\347\013\036\130\321\047\053\123  
\016\127\112\145\327\373\242\200\140\374\114\274\065\123\001\152  
\227\162\202\257\361\035\160\350\234\365\357\136\302\154\307\107  
\176\132\224\205\046\115\073\272\353\114\350\260\011\302\145\302  
\235\235\011\233\116\265\227\005\254\365\006\240\367\066\005\176  
\364\220\262\153\304\264\371\144\352\351\032\012\310\015\250\355  
\047\311\324\347\263\271\253\202\042\220\047\075\052\350\174\220  
\357\274\117\375\342\012\044\247\336\145\044\244\135\352\300\166  
\060\323\167\120\370\015\004\233\224\066\001\163\312\006\130\246  
\323\073\334\372\004\106\023\125\212\311\104\107\270\121\071\032  
\056\350\064\342\171\313\131\112\012\177\274\246\357\037\003\147  
\152\131\053\045\142\223\331\123\031\146\074\047\142\051\206\115  
\244\153\356\377\324\116\272\325\264\342\216\110\132\000\031\011  
\361\005\331\316\221\261\367\353\351\071\117\366\157\004\103\232  
\125\365\076\005\024\275\277\263\131\264\330\216\063\204\243\220  
\122\252\263\002\225\140\371\014\114\150\371\356\325\027\015\370  
\161\127\265\045\344\051\356\145\135\257\321\356\074\027\013\132  
\103\305\245\206\352\044\236\342\005\007\334\064\102\022\221\326  
\071\164\256\114\101\202\333\362\246\110\321\263\233\363\063\252  
\363\246\300\305\116\365\364\235\166\143\346\002\306\042\113\301  
\225\077\120\144\054\124\345\266\360\074\051\317\127\002\003\001  
\000\001\243\102\060\100\060\035\006\003\125\035\016\004\026\004  
\024\124\142\160\143\361\165\204\103\130\216\321\026\040\261\306  
\254\032\274\366\211\060\017\006\003\125\035\023\001\001\377\004  
\005\060\003\001\001\377\060\016\006\003\125\035\017\001\001\377  
\004\004\003\002\001\006\060\015\006\011\052\206\110\206\367\015  
\001\001\013\005\000\003\202\002\001\000\051\272\222\111\247\255  
\360\361\160\303\344\227\360\237\251\045\325\153\236\064\376\346  
\032\144\366\072\153\122\262\020\170\032\237\114\332\212\332\354  
\034\067\122\340\102\113\373\154\166\312\044\013\071\022\025\235  
\237\021\055\374\171\144\334\340\340\365\335\340\127\311\245\262  
\166\160\120\244\376\267\012\160\325\240\064\361\165\327\115\111  
\272\021\321\263\330\354\202\377\353\016\304\277\144\055\175\143  
\156\027\170\354\135\174\210\310\353\216\127\166\331\131\004\372  
\274\122\037\105\254\360\172\200\354\354\157\166\256\221\333\020  
\216\004\334\222\337\240\366\346\256\111\323\301\154\022\033\314  
\051\252\371\010\245\342\067\024\312\261\270\146\357\032\202\344  
\360\370\361\247\026\151\267\333\251\141\074\237\365\061\313\344  
\000\106\302\057\164\261\261\327\201\356\250\046\225\274\210\257  
\114\065\007\052\002\312\170\024\155\107\053\100\126\351\313\052  
\140\241\147\003\240\316\214\274\260\162\147\304\061\316\333\064  
\345\045\003\140\045\173\161\230\344\300\033\053\137\164\102\322  
\113\305\131\010\007\207\276\305\303\177\347\226\331\341\334\050  
\227\326\217\005\343\365\233\116\312\035\120\107\005\123\260\312  
\071\347\205\240\211\301\005\073\001\067\323\077\111\342\167\353



```
\043\310\210\146\073\075\071\166\041\106\361\354\137\043\270\353
\242\146\165\164\301\100\367\330\150\232\223\342\055\251\056\275
\034\243\036\310\164\306\244\055\172\040\253\073\270\260\106\375
\157\335\137\122\125\165\142\360\227\240\174\327\070\375\045\337
\315\240\233\020\317\213\270\070\136\136\305\264\246\002\066\241
\036\137\034\317\342\226\235\051\252\375\230\256\122\341\363\101
\122\373\251\056\162\226\237\047\343\252\163\175\370\032\043\146
\173\073\253\145\260\062\001\113\025\076\075\242\117\014\053\065
\242\306\331\147\022\065\060\315\166\056\026\263\231\236\115\117
\116\055\073\064\103\341\232\016\015\244\146\227\272\322\034\112
\114\054\052\213\213\201\117\161\032\251\335\134\173\173\010\305
\000\015\067\100\343\174\173\124\137\057\205\137\166\366\367\247
\260\034\127\126\301\162\350\255\242\257\215\063\111\272\037\212
\334\346\164\174\140\206\157\207\227\173
```

END

CKA\_NSS\_MOZILLA\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "vTrus Root CA"

# Issuer: CN=vTrus Root CA,O="iTrusChina Co.,Ltd.",C=CN

# Serial Number:43:e3:71:13:d8:b3:59:14:5d:b7:ce:8c:fd:35:fd:6f:bc:05:8d:45

# Subject: CN=vTrus Root CA,O="iTrusChina Co.,Ltd.",C=CN

# Not Valid Before: Tue Jul 31 07:24:05 2018

# Not Valid After : Fri Jul 31 07:24:05 2043

# Fingerprint (SHA-256):

8A:71:DE:65:59:33:6F:42:6C:26:E5:38:80:D0:0D:88:A1:8D:A4:C6:A9:1F:0D:CB:61:94:E2:06:C5:C9:63:87

# Fingerprint (SHA1): 84:1A:69:FB:F5:CD:1A:25:34:13:3D:E3:F8:FC:B8:99:D0:C9:14:B7

CKA\_CLASS

CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "vTrus Root CA"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

```
\204\032\151\373\365\315\032\045\064\023\075\343\370\374\270\231
\320\311\024\267
```

END

CKA\_CERT\_MD5\_HASH MULTILINE\_OCTAL

```
\270\311\067\337\372\153\061\204\144\305\352\021\152\033\165\374
```

END

CKA\_ISSUER MULTILINE\_OCTAL

```
\060\103\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\034\060\032\006\003\125\004\012\023\023\151\124\162\165\163\103
\150\151\156\141\040\103\157\056\054\114\164\144\056\061\026\060
\024\006\003\125\004\003\023\015\166\124\162\165\163\040\122\157
\157\164\040\103\101
```

```

END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\103\343\161\023\330\263\131\024\135\267\316\214\375\065
\375\157\274\005\215\105
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING
CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "ISRG Root X2"
#
Issuer: CN=ISRG Root X2,O=Internet Security Research Group,C=US
Serial Number:41:d2:9d:d1:72:ea:ee:a7:80:c1:2c:6c:e9:2f:87:52
Subject: CN=ISRG Root X2,O=Internet Security Research Group,C=US
Not Valid Before: Fri Sep 04 00:00:00 2020
Not Valid After : Mon Sep 17 16:00:00 2040
Fingerprint (SHA-256):
69:72:9B:8E:15:A8:6E:FC:17:7A:57:AF:B7:17:1D:FC:64:AD:D2:8C:2F:CA:8C:F1:50:7E:34:45:3C:CB:14:70
Fingerprint (SHA1): BD:B1:B9:3C:D5:97:8D:45:C6:26:14:55:F8:DB:95:C7:5A:D1:53:AF
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ISRG Root X2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\117\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\051\060\047\006\003\125\004\012\023\040\111\156\164\145\162\156
\145\164\040\123\145\143\165\162\151\164\171\040\122\145\163\145
\141\162\143\150\040\107\162\157\165\160\061\025\060\023\006\003
\125\004\003\023\014\111\123\122\107\040\122\157\157\164\040\130
\062
END
CKA_ID
UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\117\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\051\060\047\006\003\125\004\012\023\040\111\156\164\145\162\156
\145\164\040\123\145\143\165\162\151\164\171\040\122\145\163\145
\141\162\143\150\040\107\162\157\165\160\061\025\060\023\006\003
\125\004\003\023\014\111\123\122\107\040\122\157\157\164\040\130
\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\101\322\235\321\162\352\356\247\200\301\054\154\351\057

```

\207\122

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\002\033\060\202\001\241\240\003\002\001\002\002\020\101  
\322\235\321\162\352\356\247\200\301\054\154\351\057\207\122\060  
\012\006\010\052\206\110\316\075\004\003\003\060\117\061\013\060  
\011\006\003\125\004\006\023\002\125\123\061\051\060\047\006\003  
\125\004\012\023\040\111\156\164\145\162\156\145\164\040\123\145  
\143\165\162\151\164\171\040\122\145\163\145\141\162\143\150\040  
\107\162\157\165\160\061\025\060\023\006\003\125\004\003\023\014  
\111\123\122\107\040\122\157\157\164\040\130\062\060\036\027\015  
\062\060\060\071\060\064\060\060\060\060\060\132\027\015\064  
\060\060\071\061\067\061\066\060\060\060\060\132\060\117\061\013  
\060\011\006\003\125\004\006\023\002\125\123\061\051\060\047\006  
\003\125\004\012\023\040\111\156\164\145\162\156\145\164\040\123  
\145\143\165\162\151\164\171\040\122\145\163\145\141\162\143\150  
\040\107\162\157\165\160\061\025\060\023\006\003\125\004\003\023  
\014\111\123\122\107\040\122\157\157\164\040\130\062\060\166\060  
\020\006\007\052\206\110\316\075\002\001\006\005\053\201\004\000  
\042\003\142\000\004\315\233\325\237\200\203\012\354\011\112\363  
\026\112\076\134\317\167\254\336\147\005\015\035\007\266\334\026  
\373\132\213\024\333\342\161\140\304\272\105\225\021\211\216\352  
\006\337\367\052\026\034\244\271\305\305\062\340\003\340\036\202  
\030\070\213\327\105\330\012\152\156\346\000\167\373\002\121\175  
\042\330\012\156\232\133\167\337\360\372\101\354\071\334\165\312  
\150\007\014\037\352\243\102\060\100\060\016\006\003\125\035\017  
\001\001\377\004\004\003\002\001\006\060\017\006\003\125\035\023  
\001\001\377\004\005\060\003\001\001\377\060\035\006\003\125\035  
\016\004\026\004\024\174\102\226\256\336\113\110\073\372\222\370  
\236\214\317\155\213\251\162\067\225\060\012\006\010\052\206\110  
\316\075\004\003\003\003\150\000\060\145\002\060\173\171\116\106  
\120\204\302\104\207\106\033\105\160\377\130\231\336\364\375\244  
\322\125\246\040\055\164\326\064\274\101\243\120\137\001\047\126  
\264\276\047\165\006\257\022\056\165\230\215\374\002\061\000\213  
\365\167\154\324\310\145\252\340\013\054\356\024\235\047\067\244  
\371\123\245\121\344\051\203\327\370\220\061\133\102\237\012\365  
\376\256\000\150\347\214\111\017\266\157\133\133\025\362\347

END

CKA\_NSS\_MOZILLA\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL

CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "ISRG Root X2"

# Issuer: CN=ISRG Root X2,O=Internet Security Research Group,C=US

# Serial Number:41:d2:9d:d1:72:ea:ee:a7:80:c1:2c:6c:e9:2f:87:52

# Subject: CN=ISRG Root X2,O=Internet Security Research Group,C=US

```

Not Valid Before: Fri Sep 04 00:00:00 2020
Not Valid After : Mon Sep 17 16:00:00 2040
Fingerprint (SHA-256):
69:72:9B:8E:15:A8:6E:FC:17:7A:57:AF:B7:17:1D:FC:64:AD:D2:8C:2F:CA:8C:F1:50:7E:34:45:3C:CB:14:70
Fingerprint (SHA1): BD:B1:B9:3C:D5:97:8D:45:C6:26:14:55:F8:DB:95:C7:5A:D1:53:AF
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ISRG Root X2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\275\261\271\074\325\227\215\105\306\046\024\125\370\333\225\307
\132\321\123\257
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\323\236\304\036\043\074\246\337\317\243\176\155\340\024\346\345
END
CKA_ISSUER MULTILINE_OCTAL
\060\117\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\051\060\047\006\003\125\004\012\023\040\111\156\164\145\162\156
\145\164\040\123\145\143\165\162\151\164\171\040\122\145\163\145
\141\162\143\150\040\107\162\157\165\160\061\025\060\023\006\003
\125\004\003\023\014\111\123\122\107\040\122\157\157\164\040\130
\062
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\020\101\322\235\321\162\352\356\247\200\301\054\154\351\057
\207\122
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "HiPKI Root CA - G1"
#
Issuer: CN=HiPKI Root CA - G1,O="Chunghwa Telecom Co., Ltd.",C=TW
Serial Number:2d:dd:ac:ce:62:97:94:a1:43:e8:b0:cd:76:6a:5e:60
Subject: CN=HiPKI Root CA - G1,O="Chunghwa Telecom Co., Ltd.",C=TW
Not Valid Before: Fri Feb 22 09:46:04 2019
Not Valid After : Thu Dec 31 15:59:59 2037
Fingerprint
(SHA-256):
F0:15:CE:3C:C2:39:BF:EF:06:4B:E9:F1:D2:C4:17:E1:A0:26:4A:0A:94:BE:1F:0C:8D:12:18:64:EB:69:49:CC
Fingerprint (SHA1): 6A:92:E4:A8:EE:1B:EC:96:45:37:E3:29:57:49:CD:96:E3:E5:D2:60
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

```

```
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "HiPKI Root CA - G1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\117\061\013\060\011\006\003\125\004\006\023\002\124\127\061
\043\060\041\006\003\125\004\012\014\032\103\150\165\156\147\150
\167\141\040\124\145\154\145\143\157\155\040\103\157\056\054\040
\114\164\144\056\061\033\060\031\006\003\125\004\003\014\022\110
\151\120\113\111\040\122\157\157\164\040\103\101\040\055\040\107
\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\117\061\013\060\011\006\003\125\004\006\023\002\124\127\061
\043\060\041\006\003\125\004\012\014\032\103\150\165\156\147\150
\167\141\040\124\145\154\145\143\157\155\040\103\157\056\054\040
\114\164\144\056\061\033\060\031\006\003\125\004\003\014\022\110
\151\120\113\111\040\122\157\157\164\040\103\101\040\055\040\107
\061
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\020\055\335\254\316\142\227\224\241\103\350\260\315\166\152
\136\140
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\152\060\202\003\122\240\003\002\001\002\002\020\055
\335\254\316\142\227\224\241\103\350\260\315\166\152\136\140\060
\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060\117
\061\013\060\011\006\003\125\004\006\023\002\124\127\061\043\060
\041\006\003\125\004\012\014\032\103\150\165\156\147\150\167\141
\040\124\145\154\145\143\157\155\040\103\157\056\054\040\114\164
\144\056\061\033\060\031\006\003\125\004\003\014\022\110\151\120
\113\111\040\122\157\157\164\040\103\101\040\055\040\107\061\060
\036\027\015\061\071\060\062\062\062\060\071\064\066\060\064\132
\027\015\063\067\061\062\063\061\061\065\065\071\065\071\132\060
\117\061\013\060\011\006\003\125\004\006\023\002\124\127\061\043
\060\041\006\003\125\004\012\014\032\103\150\165\156\147\150\167
\141\040\124\145\154\145\143\157\155\040\103\157\056\054\040\114
\164\144\056\061\033\060\031\006\003\125\004\003\014\022\110\151
\120\113\111\040\122\157\157\164\040\103\101\040\055\040\107\061
\060\202\002\042\060\015\006\011\052\206\110\206\367\015\001\001
\001\005\000\003\202\002\017\000\060\202\002\012\002\202\002\001
\000\364\036\177\122\163\062\014\163\344\275\023\164\243\324\060
\250\320\256\113\330\266\337\165\107\146\364\174\347\071\004\036
\152\160\040\322\132\107\162\147\125\364\245\350\235\325\036\041
```

\241\360\147\272\314\041\150\276\104\123\277\215\371\342\334\057  
\125\310\067\077\037\244\300\234\263\344\167\134\240\106\376\167  
\372\032\240\070\352\355\232\162\336\053\275\224\127\072\272\354  
\171\347\137\175\102\144\071\172\046\066\367\044\360\325\057\272  
\225\230\021\146\255\227\065\326\165\001\200\340\257\364\204\141  
\214\015\036\137\174\207\226\136\101\257\353\207\352\370\135\361  
\056\210\005\076\114\042\273\332\037\052\335\122\106\144\071\363  
\102\316\331\236\014\263\260\167\227\144\234\300\364\243\056\037  
\225\007\260\027\337\060\333\000\030\226\114\241\201\113\335\004  
\155\123\243\075\374\007\254\324\305\067\202\353\344\225\010\031  
\050\202\322\102\072\243\330\123\354\171\211\140\110\140\310\162  
\222\120\334\003\217\203\077\262\102\127\132\333\152\351\021\227  
\335\205\050\274\060\114\253\343\302\261\105\104\107\037\340\212  
\026\007\226\322\041\017\123\300\355\251\176\324\116\354\233\011  
\354\257\102\254\060\326\277\321\020\105\340\246\026\262\245\305  
\323\117\163\224\063\161\002\241\152\243\326\063\227\117\041\143  
\036\133\217\331\301\136\105\161\167\017\201\135\137\041\232\255  
\203\314\372\136\326\215\043\137\033\075\101\257\040\165\146\132  
\112\366\237\373\253\030\367\161\300\266\035\061\354\073\040\353  
\313\342\270\365\256\222\262\367\341\204\113\362\242\362\223\232  
\042\236\323\024\157\066\124\275\037\136\131\025\271\163\250\301  
\174\157\173\142\351\026\154\107\132\145\363\016\021\233\106\331  
\375\155\334\326\234\300\264\175\245\260\335\077\126\157\241\371  
\366\344\022\110\375\006\177\022\127\266\251\043\117\133\003\303  
\340\161\052\043\267\367\260\261\073\274\230\275\326\230\250\014  
\153\366\216\022\147\246\362\262\130\344\002\011\023\074\251\273  
\020\264\322\060\105\361\354\367\000\021\337\145\370\334\053\103  
\125\277\026\227\304\017\325\054\141\204\252\162\206\376\346\072  
\176\302\077\175\356\374\057\024\076\346\205\335\120\157\267\111  
\355\002\003\001\000\001\243\102\060\100\060\017\006\003\125\035  
\023\001\001\377\004\005\060\003\001\001\377\060\035\006\003\125  
\035\016\004\026\004\024\362\167\027\372\136\250\376\366\075\161  
\325\150\272\311\106\014\070\330\257\260\060\016\006\003\125\035  
\017\001\001\377\004\004\003\002\001\206\060\015\006\011\052\206  
\110\206\367\015\001\001\013\005\000\003\202\002\001\000\120\121  
\360\165\334\160\004\343\377\252\165\324\161\242\313\236\217\250  
\251\323\257\165\307\124\317\072\034\004\231\042\254\304\021\342  
\357\063\112\246\043\035\016\015\107\330\067\307\157\257\064\177  
\117\201\153\065\117\351\162\245\061\342\170\347\367\116\224\030  
\133\100\175\317\153\041\124\206\346\225\172\373\306\312\352\234  
\110\116\127\011\135\057\254\364\245\264\227\063\130\325\254\171  
\251\314\137\371\205\372\122\305\215\370\221\024\353\072\015\027  
\320\122\302\173\343\302\163\216\106\170\006\070\054\350\134\332  
\146\304\364\244\360\126\031\063\051\132\145\222\005\107\106\112  
\253\204\303\036\047\241\037\021\222\231\047\165\223\017\274\066  
\073\227\127\217\046\133\014\273\234\017\324\156\060\007\324\334  
\137\066\150\146\071\203\226\047\046\212\310\304\071\376\232\041  
\157\325\162\206\351\177\142\345\227\116\320\044\320\100\260\320

```
\165\010\216\275\150\356\010\327\156\174\020\160\106\033\174\340
\210\262\236\162\206\231\001\343\277\237\111\031\264\045\276\126
\145\256\027\143\345\036\337\350\377\107\245\277\341\046\005\204
\344\260\300\257\347\010\231\250\014\136\046\200\105\324\370\150
\057\226\217\256\342\112\034\234\026\014\023\157\070\207\366\273
\310\064\137\222\003\121\171\160\246\337\313\365\231\115\171\315
\116\274\127\237\103\116\153\056\053\030\370\152\163\214\272\305
\065\357\071\152\101\036\317\161\250\242\262\206\007\133\072\311
\341\357\077\145\004\200\107\062\104\160\225\116\061\147\152\164
\133\020\105\165\352\260\237\320\346\065\376\116\237\213\314\053
\222\105\133\156\045\140\205\106\315\321\252\260\166\146\223\167
\226\276\203\276\070\266\044\116\046\013\314\355\172\126\032\340
\351\132\306\144\255\114\172\000\110\104\057\271\100\273\023\076
\276\025\170\235\205\201\112\052\127\336\325\031\103\332\333\312
\133\107\206\203\013\077\266\015\166\170\163\171\042\136\261\200
\037\317\276\321\077\126\020\230\053\225\207\241\037\235\144\024
\140\071\054\263\000\125\056\344\365\263\016\127\304\221\101\000
\234\077\350\245\337\352\366\377\310\360\255\155\122\250\027\253
\233\141\374\022\121\065\344\045\375\257\252\152\206\071
```

END

CKA\_NSS\_MOZILLA\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER

CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "HiPKI Root CA - G1"

# Issuer: CN=HiPKI Root CA - G1,O="Chunghwa Telecom Co., Ltd.",C=TW

# Serial Number:2d:dd:ac:ce:62:97:94:a1:43:e8:b0:cd:76:6a:5e:60

# Subject: CN=HiPKI Root CA - G1,O="Chunghwa Telecom Co., Ltd.",C=TW

# Not Valid Before: Fri Feb 22 09:46:04 2019

# Not Valid After : Thu Dec 31 15:59:59 2037

# Fingerprint (SHA-256):

F0:15:CE:3C:C2:39:BF:EF:06:4B:E9:F1:D2:C4:17:E1:A0:26:4A:0A:94:BE:1F:0C:8D:12:18:64:EB:69:49:CC

# Fingerprint (SHA1): 6A:92:E4:A8:EE:1B:EC:96:45:37:E3:29:57:49:CD:96:E3:E5:D2:60

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "HiPKI Root CA - G1"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

```
\152\222\344\250\356\033\354\226\105\067\343\051\127\111\315\226
\343\345\322\140
```

END

CKA\_CERT\_MD5\_HASH MULTILINE\_OCTAL

```
\151\105\337\026\145\113\350\150\232\217\166\137\377\200\236\323
```

END

CKA\_ISSUER

```

MULTILINE_OCTAL
\060\117\061\013\060\011\006\003\125\004\006\023\002\124\127\061
\043\060\041\006\003\125\004\012\014\032\103\150\165\156\147\150
\167\141\040\124\145\154\145\143\157\155\040\103\157\056\054\040
\114\164\144\056\061\033\060\031\006\003\125\004\003\014\022\110
\151\120\113\111\040\122\157\157\164\040\103\101\040\055\040\107
\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\055\335\254\316\142\227\224\241\103\350\260\315\166\152
\136\140
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "GlobalSign ECC Root CA - R4"
#
Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R4
Serial Number:02:03:e5:7e:f5:3f:93:fd:a5:09:21:b2:a6
Subject: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R4
Not Valid Before: Tue Nov 13 00:00:00 2012
Not Valid After : Tue
Jan 19 03:14:07 2038
Fingerprint (SHA-256):
B0:85:D7:0B:96:4F:19:1A:73:E4:AF:0D:54:AE:7A:0E:07:AA:FD:AF:9B:71:DD:08:62:13:8A:B7:32:5A:24:A2
Fingerprint (SHA1): 6B:A0:B0:98:E1:71:EF:5A:AD:FE:48:15:80:77:10:F4:BD:6F:0B:28
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign ECC Root CA - R4"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\120\061\044\060\042\006\003\125\004\013\023\033\107\154\157
\142\141\154\123\151\147\156\040\105\103\103\040\122\157\157\164
\040\103\101\040\055\040\122\064\061\023\060\021\006\003\125\004
\012\023\012\107\154\157\142\141\154\123\151\147\156\061\023\060
\021\006\003\125\004\003\023\012\107\154\157\142\141\154\123\151
\147\156
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\120\061\044\060\042\006\003\125\004\013\023\033\107\154\157
\142\141\154\123\151\147\156\040\105\103\103\040\122\157\157\164
\040\103\101\040\055\040\122\064\061\023\060\021\006\003\125\004

```



```
\012\023\012\107\154\157\142\141\154\123\151\147\156\061\023\060
\021\006\003\125\004\003\023\012\107\154\157\142\141\154\123\151
\147\156
```

END

CKA\_SERIAL\_NUMBER

MULTILINE\_OCTAL

```
\002\015\002\003\345\176\365\077\223\375\245\011\041\262\246
```

END

CKA\_VALUE MULTILINE\_OCTAL

```
\060\202\001\334\060\202\001\203\240\003\002\001\002\002\015\002
\003\345\176\365\077\223\375\245\011\041\262\246\060\012\006\010
\052\206\110\316\075\004\003\002\060\120\061\044\060\042\006\003
\125\004\013\023\033\107\154\157\142\141\154\123\151\147\156\040
\105\103\103\040\122\157\157\164\040\103\101\040\055\040\122\064
\061\023\060\021\006\003\125\004\012\023\012\107\154\157\142\141
\154\123\151\147\156\061\023\060\021\006\003\125\004\003\023\012
\107\154\157\142\141\154\123\151\147\156\060\036\027\015\061\062
\061\061\061\063\060\060\060\060\060\060\132\027\015\063\070\060
\061\061\071\060\063\061\064\060\067\132\060\120\061\044\060\042
\006\003\125\004\013\023\033\107\154\157\142\141\154\123\151\147
\156\040\105\103\103\040\122\157\157\164\040\103\101\040\055\040
\122\064\061\023\060\021\006\003\125\004\012\023\012\107\154\157
\142\141\154\123\151\147\156\061\023\060\021\006\003\125\004\003
\023\012\107\154\157\142\141\154\123\151\147\156\060\131\060\023
\006\007\052\206\110\316\075\002\001\006\010\052\206\110\316\075
\003\001\007\003\102\000\004\270\306\171\323\217\154\045\016\237
\056\071\031\034\003\244\256\232\345\071\007\011\026\312\143\261
\271\206\370\212\127\301\127\316\102\372\163\241\367\145\102\377
\036\301\000\262\156\163\016\377\307\041\345\030\244\252\331\161
\077\250\324\271\316\214\035\243\102\060\100\060\016\006\003\125
\035\017\001\001\377\004\004\003\002\001\206\060\017\006\003\125
\035\023\001\001\377\004\005\060\003\001\001\377\060\035\006\003
\125\035\016\004\026\004\024\124\260\173\255\105\270\342\100\177
\373\012\156\373\276\063\311\074\243\204\325\060\012\006\010\052
\206\110\316\075\004\003\002\003\107\000\060\104\002\040\042\117
\164\162\271\140\257\361\346\234\240\026\005\120\137\303\136\073
\156\141\164\357\276\001\304\276\030\110\131\141\202\062\002\040
\046\235\124\143\100\336\067\140\120\317\310\330\355\235\202\256
\067\230\274\243\217\114\114\251\064\053\154\357\373\225\233\046
```

END

CKA\_NSS\_MOZILLA\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "GlobalSign ECC Root CA - R4"

# Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R4

# Serial Number:02:03:e5:7e:f5:3f:93:fd:a5:09:21:b2:a6

```
Subject: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R4
Not Valid Before: Tue Nov 13 00:00:00 2012
Not Valid After : Tue Jan 19 03:14:07 2038
Fingerprint (SHA-256):
B0:85:D7:0B:96:4F:19:1A:73:E4:AF:0D:54:AE:7A:0E:07:AA:FD:AF:9B:71:DD:08:62:13:8A:B7:32:5A:24:A2
Fingerprint (SHA1): 6B:A0:B0:98:E1:71:EF:5A:AD:FE:48:15:80:77:10:F4:BD:6F:0B:28
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL
CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign ECC Root CA - R4"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\153\240\260\230\341\161\357\132\255\376\110\025\200\167\020\364
\275\157\013\050
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\046\051\370\155\341\210\277\242\145\177\252\304\315\017\177\374
END
CKA_ISSUER MULTILINE_OCTAL
\060\120\061\044\060\042\006\003\125\004\013\023\033\107\154\157
\142\141\154\123\151\147\156\040\105\103\103\040\122\157\157\164
\040\103\101\040\055\040\122\064\061\023\060\021\006\003\125\004
\012\023\012\107\154\157\142\141\154\123\151\147\156\061\023\060
\021\006\003\125\004\003\023\012\107\154\157\142\141\154\123\151
\147\156
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\015\002\003\345\176\365\077\223\375\245\011\041\262\246
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED
CK_BBOOL CK_FALSE

#
Certificate "GTS Root R1"
#
Issuer: CN=GTS Root R1,O=Google Trust Services LLC,C=US
Serial Number:02:03:e5:93:6f:31:b0:13:49:88:6b:a2:17
Subject: CN=GTS Root R1,O=Google Trust Services LLC,C=US
Not Valid Before: Wed Jun 22 00:00:00 2016
Not Valid After : Sun Jun 22 00:00:00 2036
Fingerprint (SHA-256):
D9:47:43:2A:BD:E7:B7:FA:90:FC:2E:6B:59:10:1B:12:80:E0:E1:C7:E4:E4:0F:A3:C6:88:7F:FF:57:A7:F4:CF
Fingerprint (SHA1): E5:8C:1C:C4:91:3B:38:63:4B:E9:10:6E:E3:AD:8E:6B:9D:D9:81:4A
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
```

```
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GTS Root R1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\107\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\042\060\040\006\003\125\004\012\023\031\107\157\157\147\154\145
\040\124\162\165\163\164\040\123\145\162\166\151\143\145\163\040
\114\114\103\061\024\060\022\006\003\125\004\003\023\013\107\124
\123\040\122\157\157\164\040\122\061
END
CKA_ID
UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\107\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\042\060\040\006\003\125\004\012\023\031\107\157\157\147\154\145
\040\124\162\165\163\164\040\123\145\162\166\151\143\145\163\040
\114\114\103\061\024\060\022\006\003\125\004\003\023\013\107\124
\123\040\122\157\157\164\040\122\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\015\002\003\345\223\157\061\260\023\111\210\153\242\027
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\127\060\202\003\077\240\003\002\001\002\002\015\002
\003\345\223\157\061\260\023\111\210\153\242\027\060\015\006\011
\052\206\110\206\367\015\001\001\014\005\000\060\107\061\013\060
\011\006\003\125\004\006\023\002\125\123\061\042\060\040\006\003
\125\004\012\023\031\107\157\157\147\154\145\040\124\162\165\163
\164\040\123\145\162\166\151\143\145\163\040\114\114\103\061\024
\060\022\006\003\125\004\003\023\013\107\124\123\040\122\157\157
\164\040\122\061\060\036\027\015\061\066\060\066\062\062\060\060
\060\060\060\060\132\027\015\063\066\060\066\062\062\060\060\060
\060\060\060\132\060\107\061\013\060\011\006\003\125\004\006\023
\002\125\123\061\042\060\040\006\003\125\004\012\023\031\107\157
\157\147\154\145\040\124\162\165\163\164\040\123\145\162\166\151
\143\145\163\040\114\114\103\061\024\060\022\006\003\125\004\003
\023\013\107\124\123\040\122\157\157\164\040\122\061\060\202\002
\042\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000
\003\202\002\017\000\060\202\002\012\002\202\002\001\000\266\021
\002\213\036\343\241\167\233\073\334\277\224\076\267\225\247\100
\074\241\375\202\371\175\062\006\202\161\366\366\214\177\373\350
\333\274\152\056\227\227\243\214\113\371\053\366\261\371\316\204
\035\261\371\305\227\336\357\271\362\243\351\274\022\211\136\247
\252\122\253\370\043\047\313\244\261\234\143\333\327\231\176\360
\012\136\353\150\246\364\306\132\107\015\115\020\063\343\116\261
\023\243\310\030\154\113\354\374\011\220\337\235\144\051\045\043
```

\007\241\264\322\075\056\140\340\317\322\011\207\273\315\110\360  
\115\302\302\172\210\212\273\272\317\131\031\326\257\217\260\007  
\260\236\061\361\202\301\300\337\056\246\155\154\031\016\265\330  
\176\046\032\105\003\075\260\171\244\224\050\255\017\177\046\345  
\250\010\376\226\350\074\150\224\123\356\203\072\210\053\025\226  
\011\262\340\172\214\056\165\326\234\353\247\126\144\217\226\117  
\150\256\075\227\302\204\217\300\274\100\300\013\134\275\366\207  
\263\065\154\254\030\120\177\204\340\114\315\222\323\040\351\063  
\274\122\231\257\062\265\051\263\045\052\264\110\371\162\341\312  
\144\367\346\202\020\215\350\235\302\212\210\372\070\146\212\374  
\143\371\001\371\170\375\173\134\167\372\166\207\372\354\337\261  
\016\171\225\127\264\275\046\357\326\001\321\353\026\012\273\216  
\013\265\305\305\212\125\253\323\254\352\221\113\051\314\031\244  
\062\045\116\052\361\145\104\320\002\316\252\316\111\264\352\237  
\174\203\260\100\173\347\103\253\247\154\243\217\175\211\201\372  
\114\245\377\325\216\303\316\113\340\265\330\263\216\105\317\166  
\300\355\100\053\375\123\017\260\247\325\073\015\261\212\242\003  
\336\061\255\314\167\352\157\173\076\326\337\221\042\022\346\276  
\372\330\062\374\020\143\024\121\162\336\135\326\026\223\275\051  
\150\063\357\072\146\354\007\212\046\337\023\327\127\145\170\047  
\336\136\111\024\000\242\000\177\232\250\041\266\251\261\225\260  
\245\271\015\026\021\332\307\154\110\074\100\340\176\015\132\315  
\126\074\321\227\005\271\313\113\355\071\113\234\304\077\322\125  
\023\156\044\260\326\161\372\364\301\272\314\355\033\365\376\201  
\101\330\000\230\075\072\310\256\172\230\067\030\005\225\002\003  
\001\000\001\243\102\060\100\060\016\006\003\125\035\017\001\001  
\377\004\004\003\002\001\206\060\017\006\003\125\035\023\001\001  
\377\004\005\060\003\001\001\377\060\035\006\003\125\035\016\004  
\026\004\024\344\257\053\046\161\032\053\110\047\205\057\122\146  
\054\357\360\211\023\161\076\060\015\006\011\052\206\110\206\367  
\015\001\001\014\005\000\003\202\002\001\000\237\252\102\046\333  
\013\233\276\377\036\226\222\056\076\242\145\112\152\230\272\042  
\313\175\301\072\330\202\012\006\306\366\245\336\300\116\207\146  
\171\241\371\246\130\234\252\371\265\346\140\347\340\350\261\036  
\102\101\063\013\067\075\316\211\160\025\312\265\044\250\317\153  
\265\322\100\041\230\317\042\064\317\073\305\042\204\340\305\016  
\212\174\135\210\344\065\044\316\233\076\032\124\036\156\333\262  
\207\247\374\363\372\201\125\024\142\012\131\251\042\005\061\076  
\202\326\356\333\127\064\274\063\225\323\027\033\350\047\242\213  
\173\116\046\032\172\132\144\266\321\254\067\361\375\240\363\070  
\354\162\360\021\165\235\313\064\122\215\346\166\153\027\306\337  
\206\253\047\216\111\053\165\146\201\020\041\246\352\076\364\256  
\045\377\174\025\336\316\214\045\077\312\142\160\012\367\057\011  
\146\007\310\077\034\374\360\333\105\060\337\142\210\301\265\017  
\235\303\237\112\336\131\131\107\305\207\042\066\346\202\247\355  
\012\271\342\007\240\215\173\172\112\074\161\322\342\003\241\037  
\062\007\335\033\344\102\316\014\000\105\141\200\265\013\040\131  
\051\170\275\371\125\313\143\305\074\114\364\266\377\333\152\137

```
\061\153\231\236\054\301\153\120\244\327\346\030\024\275\205\077
\147\253\106\237\240\377\102\247\072\177\134\313\135\260\160\035
\053\064\365\324\166\011\014\353\170\114\131\005\363\063\102\303
\141\025\020\033\167\115\316\042\214\324\205\362\105\175\267\123
\352\357\100\132\224\012\134\040\137\116\100\135\142\042\166\337
\377\316\141\275\214\043\170\322\067\002\340\216\336\321\021\067
\211\366\277\355\111\007\142\256\222\354\100\032\257\024\011\331
\320\116\262\242\367\276\356\356\330\377\334\032\055\336\270\066
\161\342\374\171\267\224\045\321\110\163\133\241\065\347\263\231
\147\165\301\031\072\053\107\116\323\102\216\375\061\310\026\146
\332\322\014\074\333\263\216\311\241\015\200\017\173\026\167\024
\277\377\333\011\224\262\223\274\040\130\025\351\333\161\103\363
\336\020\303\000\334\250\052\225\266\302\326\077\220\153\166\333
\154\376\214\274\362\160\065\014\334\231\031\065\334\327\310\106
\143\325\066\161\256\127\373\267\202\155\334
```

END

CKA\_NSS\_MOZILLA\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "GTS Root R1"

# Issuer: CN=GTS Root R1,O=Google Trust Services LLC,C=US

# Serial Number:02:03:e5:93:6f:31:b0:13:49:88:6b:a2:17

# Subject: CN=GTS Root R1,O=Google Trust Services LLC,C=US

# Not Valid Before: Wed Jun 22 00:00:00 2016

# Not Valid After : Sun Jun 22 00:00:00 2036

# Fingerprint (SHA-256):

D9:47:43:2A:BD:E7:B7:FA:90:FC:2E:6B:59:10:1B:12:80:E0:E1:C7:E4:E4:0F:A3:C6:88:7F:FF:57:A7:F4:CF

# Fingerprint (SHA1): E5:8C:1C:C4:91:3B:38:63:4B:E9:10:6E:E3:AD:8E:6B:9D:D9:81:4A

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "GTS Root R1"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

```
\345\214\034\304\221\073\070\143\113\351\020\156\343\255\216\153
\235\331\201\112
```

END

CKA\_CERT\_MD5\_HASH

MULTILINE\_OCTAL

```
\005\376\320\277\161\250\243\166\143\332\001\340\330\122\334\100
```

END

CKA\_ISSUER MULTILINE\_OCTAL

```
\060\107\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\042\060\040\006\003\125\004\012\023\031\107\157\157\147\154\145
\040\124\162\165\163\164\040\123\145\162\166\151\143\145\163\040
\114\114\103\061\024\060\022\006\003\125\004\003\023\013\107\124
```

```

\123\040\122\157\157\164\040\122\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\015\002\003\345\223\157\061\260\023\111\210\153\242\027
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "GTS Root R2"
#
Issuer: CN=GTS Root R2,O=Google Trust Services LLC,C=US
Serial Number:02:03:e5:ae:c5:8d:04:25:1a:ab:11:25:aa
Subject: CN=GTS Root R2,O=Google Trust Services LLC,C=US
Not Valid Before:
 Wed Jun 22 00:00:00 2016
Not Valid After : Sun Jun 22 00:00:00 2036
Fingerprint (SHA-256):
8D:25:CD:97:22:9D:BF:70:35:6B:DA:4E:B3:CC:73:40:31:E2:4C:F0:0F:AF:CF:D3:2D:C7:6E:B5:84:1C:7E:A8
Fingerprint (SHA1): 9A:44:49:76:32:DB:DE:FA:D0:BC:FB:5A:7B:17:BD:9E:56:09:24:94
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GTS Root R2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\107\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\042\060\040\006\003\125\004\012\023\031\107\157\157\147\154\145
\040\124\162\165\163\164\040\123\145\162\166\151\143\145\163\040
\114\114\103\061\024\060\022\006\003\125\004\003\023\013\107\124
\123\040\122\157\157\164\040\122\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\107\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\042\060\040\006\003\125\004\012\023\031\107\157\157\147\154\145
\040\124\162\165\163\164\040\123\145\162\166\151\143\145\163\040
\114\114\103\061\024\060\022\006\003\125\004\003\023\013\107\124
\123\040\122\157\157\164\040\122\062
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\015\002\003\345\256\305\215\004\045\032\253\021\045\252
END
CKA_VALUE MULTILINE_OCTAL

```

\060\202\005\127\060\202\003\077\240\003\002\001\002\002\015\002  
\003\345\256\305\215\004\045\032\253\021\045\252\060\015\006\011  
\052\206\110\206\367\015\001\001\014\005\000\060\107\061\013\060  
\011\006\003\125\004\006\023\002\125\123\061\042\060\040\006\003  
\125\004\012\023\031\107\157\157\147\154\145\040\124\162\165\163  
\164\040\123\145\162\166\151\143\145\163\040\114\114\103\061\024  
\060\022\006\003\125\004\003\023\013\107\124\123\040\122\157\157  
\164\040\122\062\060\036\027\015\061\066\060\066\062\062\060\060  
\060\060\060\060\132\027\015\063\066\060\066\062\062\060\060\060  
\060\060\060\132\060\107\061\013\060\011\006\003\125\004\006\023  
\002\125\123\061\042\060\040\006\003\125\004\012\023\031\107\157  
\157\147\154\145\040\124\162\165\163\164\040\123\145\162\166\151  
\143\145\163\040\114\114\103\061\024\060\022\006\003\125\004\003  
\023\013\107\124\123\040\122\157\157\164\040\122\062\060\202\002  
\042\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000  
\003\202\002\017\000\060\202\002\012\002\202\002\001\000\316\336  
\375\246\373\354\354\024\064\074\007\006\132\154\131\367\031\065  
\335\367\301\235\125\252\323\315\073\244\223\162\357\012\372\155  
\235\366\360\205\200\133\241\110\122\237\071\305\267\356\050\254  
\357\313\166\150\024\271\337\255\001\154\231\037\304\042\035\237  
\376\162\167\340\054\133\257\344\004\277\117\162\240\032\064\230  
\350\071\150\354\225\045\173\166\241\346\151\271\205\031\275\211  
\214\376\255\355\066\352\163\274\377\203\342\313\175\301\322\316  
\112\263\215\005\236\213\111\223\337\301\133\320\156\136\360\056  
\060\056\202\374\372\274\264\027\012\110\345\210\233\305\233\153  
\336\260\312\264\003\360\332\364\220\270\145\144\367\134\114\255  
\350\176\146\136\231\327\270\302\076\310\320\023\235\255\356\344  
\105\173\211\125\367\212\037\142\122\204\022\263\302\100\227\343  
\212\037\107\221\246\164\132\322\370\261\143\050\020\270\263\011  
\270\126\167\100\242\046\230\171\306\376\337\045\356\076\345\240  
\177\324\141\017\121\113\074\077\214\332\341\160\164\330\302\150  
\241\371\301\014\351\241\342\177\273\125\074\166\006\356\152\116  
\314\222\210\060\115\232\275\117\013\110\232\204\265\230\243\325  
\373\163\301\127\141\335\050\126\165\023\256\207\216\347\014\121  
\011\020\165\210\114\274\215\371\173\074\324\042\110\037\052\334  
\353\153\273\104\261\313\063\161\062\106\257\255\112\361\214\350  
\164\072\254\347\032\042\163\200\322\060\367\045\102\307\042\073  
\073\022\255\226\056\306\303\166\007\252\040\267\065\111\127\351  
\222\111\350\166\026\162\061\147\053\226\176\212\243\307\224\126  
\042\277\152\113\176\001\041\262\043\062\337\344\232\104\155\131  
\133\135\365\000\240\034\233\306\170\227\215\220\377\233\310\252  
\264\257\021\121\071\136\331\373\147\255\325\133\021\235\062\232  
\033\275\325\272\133\245\311\313\045\151\123\125\047\134\340\312  
\066\313\210\141\373\036\267\320\313\356\026\373\323\246\114\336  
\222\245\324\342\337\365\006\124\336\056\235\113\264\223\060\252  
\201\316\335\032\334\121\163\015\117\160\351\345\266\026\041\031  
\171\262\346\211\013\165\144\312\325\253\274\011\301\030\241\377  
\324\124\241\205\074\375\024\044\003\262\207\323\244\267\002\003

\001\000\001\243\102\060\100\060\016\006\003\125\035\017\001\001  
\377\004\004\003\002\001\206\060\017\006\003\125\035\023\001\001  
\377\004\005\060\003\001\001\377\060\035\006\003\125\035\016\004  
\026\004\024\273\377\312\216\043\237\117\231\312\333\342\150\246  
\245\025\047\027\036\331\016\060\015\006\011\052\206\110\206\367  
\015\001\001\014\005\000\003\202\002\001\000\037\312\316\335\307  
\276\241\237\331\047\114\013\334\027\230\021\152\210\336\075\346  
\161\126\162\262\236\032\116\234\325\053\230\044\135\233\153\173  
\260\063\202\011\275\337\045\106\352\230\236\266\033\376\203\074  
\322\142\141\301\004\355\316\340\305\311\310\023\023\125\347\250  
\143\255\214\173\001\376\167\060\341\316\150\233\005\370\022\356  
\171\061\240\101\105\065\050\012\161\244\044\117\214\334\074\202  
\007\137\146\334\175\020\376\014\141\263\005\225\356\341\256\201  
\017\250\370\307\217\115\250\043\002\046\153\035\203\122\125\316  
\265\057\000\312\200\100\340\341\164\254\140\365\207\200\235\256  
\066\144\221\135\260\150\030\352\212\141\311\167\250\227\304\311  
\307\245\374\125\113\363\360\177\271\145\075\047\150\320\314\153  
\372\123\235\341\221\032\311\135\032\226\155\062\207\355\003\040  
\310\002\316\132\276\331\352\375\262\115\304\057\033\337\137\172  
\365\370\213\306\356\061\072\045\121\125\147\215\144\062\173\351  
\236\303\202\272\052\055\351\036\264\340\110\006\242\374\147\257  
\037\042\002\163\373\040\012\257\235\124\113\241\315\377\140\107  
\260\077\135\357\033\126\275\227\041\226\055\012\321\136\235\070  
\002\107\154\271\364\366\043\045\270\240\152\232\053\167\010\372  
\304\261\050\220\046\130\010\074\342\176\252\327\075\157\272\061  
\210\012\005\353\047\265\241\111\356\240\105\124\173\346\047\145  
\231\040\041\250\243\274\373\030\226\273\122\157\014\355\203\121  
\114\351\131\342\040\140\305\302\145\222\202\214\363\020\037\016  
\212\227\276\167\202\155\077\217\035\135\274\111\047\275\314\117  
\017\341\316\166\206\004\043\305\300\214\022\133\375\333\204\240  
\044\361\110\377\144\174\320\276\134\026\321\357\231\255\300\037  
\373\313\256\274\070\042\006\046\144\332\332\227\016\077\050\025  
\104\250\117\000\312\360\232\314\317\164\152\264\076\074\353\225  
\354\265\323\132\330\201\231\351\103\030\067\353\263\273\321\130  
\142\101\363\146\322\217\252\170\225\124\040\303\132\056\164\053  
\325\321\276\030\151\300\254\325\244\317\071\272\121\204\003\145  
\351\142\300\142\376\330\115\125\226\342\320\021\372\110\064\021  
\354\236\355\005\035\344\310\326\035\206\313

END

CKA\_NSS\_MOZILLA\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust

for "GTS Root R2"

# Issuer: CN=GTS Root R2,O=Google Trust Services LLC,C=US

# Serial Number:02:03:e5:ae:c5:8d:04:25:1a:ab:11:25:aa



```

Subject: CN=GTS Root R2,O=Google Trust Services LLC,C=US
Not Valid Before: Wed Jun 22 00:00:00 2016
Not Valid After : Sun Jun 22 00:00:00 2036
Fingerprint (SHA-256):
8D:25:CD:97:22:9D:BF:70:35:6B:DA:4E:B3:CC:73:40:31:E2:4C:F0:0F:AF:CF:D3:2D:C7:6E:B5:84:1C:7E:A8
Fingerprint (SHA1): 9A:44:49:76:32:DB:DE:FA:D0:BC:FB:5A:7B:17:BD:9E:56:09:24:94
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GTS Root R2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\232\104\111\166\062\333\336\372\320\274\373\132\173\027\275\236
\126\011\044\224
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\036\071\300\123\346\036\051\202\013\312\122\125\066\135\127\334
END
CKA_ISSUER MULTILINE_OCTAL
\060\107\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\042\060\040\006\003\125\004\012\023\031\107\157\157\147\154\145
\040\124\162\165\163\164\040\123\145\162\166\151\143\145\163\040
\114\114\103\061\024\060\022\006\003\125\004\003\023\013\107\124
\123\040\122\157\157\164\040\122\062
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\015\002\003\345\256\305\215\004\045\032\253\021\045\252
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "GTS Root R3"
#
Issuer: CN=GTS Root R3,O=Google Trust Services LLC,C=US
Serial Number:02:03:e5:b8:82:eb:20:f8:25:27:6d:3d:66
Subject: CN=GTS Root R3,O=Google Trust Services LLC,C=US
Not Valid Before: Wed Jun 22 00:00:00 2016
Not Valid After : Sun Jun 22 00:00:00 2036
Fingerprint (SHA-256):
34:D8:A7:3E:E2:08:D9:BC:DB:0D:95:65:20:93:4B:4E:40:E6:94:82:59:6E:8B:6F:73:C8:42:6B:01:0A:6F:48
Fingerprint (SHA1): ED:E5:71:80:2B:C8:92:B9:5B:83:3C:D2:32:68:3F:09:CD:A0:1E:46
CKA_CLASS
CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE

```

```
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GTS Root R3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\107\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\042\060\040\006\003\125\004\012\023\031\107\157\157\147\154\145
\040\124\162\165\163\164\040\123\145\162\166\151\143\145\163\040
\114\114\103\061\024\060\022\006\003\125\004\003\023\013\107\124
\123\040\122\157\157\164\040\122\063
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\107\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\042\060\040\006\003\125\004\012\023\031\107\157\157\147\154\145
\040\124\162\165\163\164\040\123\145\162\166\151\143\145\163\040
\114\114\103\061\024\060\022\006\003\125\004\003\023\013\107\124
\123\040\122\157\157\164\040\122\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\015\002\003\345\270\202\353\040\370\045\047\155\075\146
END
CKA_VALUE
MULTILINE_OCTAL
\060\202\002\011\060\202\001\216\240\003\002\001\002\002\015\002
\003\345\270\202\353\040\370\045\047\155\075\146\060\012\006\010
\052\206\110\316\075\004\003\003\060\107\061\013\060\011\006\003
\125\004\006\023\002\125\123\061\042\060\040\006\003\125\004\012
\023\031\107\157\157\147\154\145\040\124\162\165\163\164\040\123
\145\162\166\151\143\145\163\040\114\114\103\061\024\060\022\006
\003\125\004\003\023\013\107\124\123\040\122\157\157\164\040\122
\063\060\036\027\015\061\066\060\066\062\062\060\060\060\060\060
\060\132\027\015\063\066\060\066\062\062\060\060\060\060\060\060
\132\060\107\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\042\060\040\006\003\125\004\012\023\031\107\157\157\147\154
\145\040\124\162\165\163\164\040\123\145\162\166\151\143\145\163
\040\114\114\103\061\024\060\022\006\003\125\004\003\023\013\107
\124\123\040\122\157\157\164\040\122\063\060\166\060\020\006\007
\052\206\110\316\075\002\001\006\005\053\201\004\000\042\003\142
\000\004\037\117\063\207\063\051\212\241\204\336\313\307\041\130
\101\211\352\126\235\053\113\205\306\035\114\047\274\177\046\121
\162\157\342\237\326\243\312\314\105\024\106\213\255\357\176\206
\214\354\261\176\057\377\251\161\235\030\204\105\004\101\125\156
\053\352\046\177\273\220\001\343\113\031\272\344\124\226\105\011
\261\325\154\221\104\255\204\023\216\232\214\015\200\014\062\366
\340\047\243\102\060\100\060\016\006\003\125\035\017\001\001\377
\004\004\003\002\001\206\060\017\006\003\125\035\023\001\001\377
\004\005\060\003\001\001\377\060\035\006\003\125\035\016\004\026
```

```
\004\024\301\361\046\272\240\055\256\205\201\317\323\361\052\022
\275\270\012\147\375\274\060\012\006\010\052\206\110\316\075\004
\003\003\003\151\000\060\146\002\061\000\366\341\040\225\024\173
\124\243\220\026\021\277\204\310\352\157\153\027\236\036\106\230
\040\233\237\323\015\331\254\323\057\315\174\370\133\056\125\273
\277\335\222\367\244\014\334\061\341\242\002\061\000\374\227\146
\146\345\103\026\023\203\335\307\337\057\276\024\070\355\001\316
\261\027\032\021\165\351\275\003\217\046\176\204\345\311\140\246
\225\327\124\131\267\347\021\054\211\324\271\356\027
```

END

CKA\_NSS\_MOZILLA\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "GTS Root R3"

# Issuer: CN=GTS Root R3,O=Google Trust Services LLC,C=US

# Serial Number:02:03:e5:b8:82:eb:20:f8:25:27:6d:3d:66

# Subject: CN=GTS Root R3,O=Google Trust Services LLC,C=US

# Not Valid Before: Wed Jun 22 00:00:00 2016

# Not Valid After : Sun Jun 22 00:00:00 2036

# Fingerprint (SHA-256):

34:D8:A7:3E:E2:08:D9:BC:DB:0D:95:65:20:93:4B:4E:40:E6:94:82:59:6E:8B:6F:73:C8:42:6B:01:0A:6F:48

# Fingerprint (SHA1): ED:E5:71:80:2B:C8:92:B9:5B:83:3C:D2:32:68:3F:09:CD:A0:1E:46

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "GTS Root R3"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

```
\355\345\161\200\053\310\222\271\133\203\074\322\062\150\077\011
\315\240\036\106
```

END

CKA\_CERT\_MD5\_HASH

MULTILINE\_OCTAL

```
\076\347\235\130\002\224\106\121\224\345\340\042\112\213\347\163
```

END

CKA\_ISSUER MULTILINE\_OCTAL

```
\060\107\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\042\060\040\006\003\125\004\012\023\031\107\157\157\147\154\145
\040\124\162\165\163\164\040\123\145\162\166\151\143\145\163\040
\114\114\103\061\024\060\022\006\003\125\004\003\023\013\107\124
\123\040\122\157\157\164\040\122\063
```

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

```
\002\015\002\003\345\270\202\353\040\370\045\047\155\075\146
```

END

CKA\_TRUST\_SERVER\_AUTH CK\_TRUST CKT\_NSS\_TRUSTED\_DELEGATOR

```

CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "GTS Root R4"
#
Issuer: CN=GTS Root R4,O=Google Trust Services LLC,C=US
Serial Number:02:03:e5:c0:68:ef:63:1a:9c:72:90:50:52
Subject: CN=GTS Root R4,O=Google
Trust Services LLC,C=US
Not Valid Before: Wed Jun 22 00:00:00 2016
Not Valid After : Sun Jun 22 00:00:00 2036
Fingerprint (SHA-256):
34:9D:FA:40:58:C5:E2:63:12:3B:39:8A:E7:95:57:3C:4E:13:13:C8:3F:E6:8F:93:55:6C:D5:E8:03:1B:3C:7D
Fingerprint (SHA1): 77:D3:03:67:B5:E0:0C:15:F6:0C:38:61:DF:7C:E1:3B:92:46:4D:47
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GTS Root R4"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\107\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\042\060\040\006\003\125\004\012\023\031\107\157\157\147\154\145
\040\124\162\165\163\164\040\123\145\162\166\151\143\145\163\040
\114\114\103\061\024\060\022\006\003\125\004\003\023\013\107\124
\123\040\122\157\157\164\040\122\064
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\107\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\042\060\040\006\003\125\004\012\023\031\107\157\157\147\154\145
\040\124\162\165\163\164\040\123\145\162\166\151\143\145\163\040
\114\114\103\061\024\060\022\006\003\125\004\003\023\013\107\124
\123\040\122\157\157\164\040\122\064
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\015\002\003\345\300\150\357\143\032\234\162\220\120\122
END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\011\060\202\001\216\240\003\002\001\002\002\015\002
\003\345\300\150\357\143\032\234\162\220\120\122\060\012\006\010
\052\206\110\316\075\004\003\003\060\107\061\013\060\011\006\003
\125\004\006\023\002\125\123\061\042\060\040\006\003\125\004\012
\023\031\107\157\157\147\154\145\040\124\162\165\163\164\040\123
\145\162\166\151\143\145\163\040\114\114\103\061\024\060\022\006

```

```
\003\125\004\003\023\013\107\124\123\040\122\157\157\164\040\122
\064\060\036\027\015\061\066\060\066\062\062\060\060\060\060\060
\060\132\027\015\063\066\060\066\062\062\060\060\060\060\060\060
\132\060\107\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\042\060\040\006\003\125\004\012\023\031\107\157\157\147\154
\145\040\124\162\165\163\164\040\123\145\162\166\151\143\145\163
\040\114\114\103\061\024\060\022\006\003\125\004\003\023\013\107
\124\123\040\122\157\157\164\040\122\064\060\166\060\020\006\007
\052\206\110\316\075\002\001\006\005\053\201\004\000\042\003\142
\000\004\363\164\163\247\150\213\140\256\103\270\065\305\201\060
\173\113\111\235\373\301\141\316\346\336\106\275\153\325\141\030
\065\256\100\335\163\367\211\221\060\132\353\074\356\205\174\242
\100\166\073\251\306\270\107\330\052\347\222\221\152\163\351\261
\162\071\237\051\237\242\230\323\137\136\130\206\145\017\241\204
\145\006\321\334\213\311\307\163\310\214\152\057\345\304\253\321
\035\212\243\102\060\100\060\016\006\003\125\035\017\001\001\377
\004\004\003\002\001\206\060\017\006\003\125\035\023\001\001\377
\004\005\060\003\001\001\377\060\035\006\003\125\035\016\004\026
\004\024\200\114\326\353\164\377\111\066\243\325\330\374\265\076
\305\152\360\224\035\214\060\012\006\010\052\206\110\316\075\004
\003\003\003\151\000\060\146\002\061\000\350\100\377\203\336\003
\364\237\256\035\172\247\056\271\257\117\366\203\035\016\055\205
\001\035\321\331\152\354\017\302\257\307\136\126\136\134\325\034
\130\042\050\013\367\060\266\057\261\174\002\061\000\360\141\074
\247\364\240\202\343\041\325\204\035\163\206\234\055\257\312\064
\233\361\237\271\043\066\342\274\140\003\235\200\263\232\126\310
\341\342\273\024\171\312\315\041\324\224\265\111\103
```

END

CKA\_NSS\_MOZILLA\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "GTS Root R4"

# Issuer: CN=GTS Root R4,O=Google Trust Services LLC,C=US

# Serial Number:02:03:e5:c0:68:ef:63:1a:9c:72:90:50:52

# Subject: CN=GTS Root R4,O=Google Trust Services LLC,C=US

# Not Valid Before: Wed Jun 22 00:00:00 2016

# Not Valid After : Sun Jun 22 00:00:00 2036

# Fingerprint (SHA-256):

34:9D:FA:40:58:C5:E2:63:12:3B:39:8A:E7:95:57:3C:4E:13:13:C8:3F:E6:8F:93:55:6C:D5:E8:03:1B:3C:7D

#

Fingerprint (SHA1): 77:D3:03:67:B5:E0:0C:15:F6:0C:38:61:DF:7C:E1:3B:92:46:4D:47

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "GTS Root R4"

```

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\167\323\003\147\265\340\014\025\366\014\070\141\337\174\341\073
\222\106\115\107
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\103\226\203\167\031\115\166\263\235\145\122\344\035\042\245\350
END
CKA_ISSUER MULTILINE_OCTAL
\060\107\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\042\060\040\006\003\125\004\012\023\031\107\157\157\147\154\145
\040\124\162\165\163\164\040\123\145\162\166\151\143\145\163\040
\114\114\103\061\024\060\022\006\003\125\004\003\023\013\107\124
\123\040\122\157\157\164\040\122\064
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\015\002\003\345\300\150\357\143\032\234\162\220\120\122
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST
CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Telia Root CA v2"
#
Issuer: CN=Telia Root CA v2,O=Telia Finland Oyj,C=FI
Serial Number:01:67:5f:27:d6:fe:7a:e3:e4:ac:be:09:5b:05:9e
Subject: CN=Telia Root CA v2,O=Telia Finland Oyj,C=FI
Not Valid Before: Thu Nov 29 11:55:54 2018
Not Valid After : Sun Nov 29 11:55:54 2043
Fingerprint (SHA-256):
24:2B:69:74:2F:CB:1E:5B:2A:BF:98:89:8B:94:57:21:87:54:4E:5B:4D:99:11:78:65:73:62:1F:6A:74:B8:2C
Fingerprint (SHA1): B9:99:CD:D1:73:50:8A:C4:47:05:08:9C:8C:88:FB:BE:A0:2B:40:CD
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Telia Root CA v2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\104\061\013\060\011\006\003\125\004\006\023\002\106\111\061
\032\060\030\006\003\125\004\012\014\021\124\145\154\151\141\040
\106\151\156\154\141\156\144\040\117\171\152\061\031\060\027\006
\003\125\004\003\014\020\124\145\154\151\141\040\122\157\157\164
\040\103\101\040\166\062
END
CKA_ID

```

UTF8 "0"

CKA\_ISSUER MULTILINE\_OCTAL

\060\104\061\013\060\011\006\003\125\004\006\023\002\106\111\061  
\032\060\030\006\003\125\004\012\014\021\124\145\154\151\141\040  
\106\151\156\154\141\156\144\040\117\171\152\061\031\060\027\006  
\003\125\004\003\014\020\124\145\154\151\141\040\122\157\157\164  
\040\103\101\040\166\062

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

\002\017\001\147\137\047\326\376\172\343\344\254\276\011\133\005  
\236

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\005\164\060\202\003\134\240\003\002\001\002\002\017\001  
\147\137\047\326\376\172\343\344\254\276\011\133\005\236\060\015  
\006\011\052\206\110\206\367\015\001\001\013\005\000\060\104\061  
\013\060\011\006\003\125\004\006\023\002\106\111\061\032\060\030  
\006\003\125\004\012\014\021\124\145\154\151\141\040\106\151\156  
\154\141\156\144\040\117\171\152\061\031\060\027\006\003\125\004  
\003\014\020\124\145\154\151\141\040\122\157\157\164\040\103\101  
\040\166\062\060\036\027\015\061\070\061\061\062\071\061\061\065  
\065\065\064\132\027\015\064\063\061\061\062\071\061\061\065\065  
\065\064\132\060\104\061\013\060\011\006\003\125\004\006\023\002  
\106\111\061\032\060\030\006\003\125\004\012\014\021\124\145\154  
\151\141\040\106\151\156\154\141\156\144\040\117\171\152\061\031  
\060\027\006\003\125\004\003\014\020\124\145\154\151\141\040\122  
\157\157\164\040\103\101\040\166\062\060\202\002\042\060\015\006  
\011\052\206\110\206\367\015\001\001\001\005\000\003\202\002\017  
\000\060\202\002\012\002\202\002\001\000\262\320\077\007\274\342  
\173\320\153\231\370\342\167\151\347\316\235\244\003\274\202\155  
\241\376\201\145\037\114\047\254\216\000\272\026\173\353\060\152  
\000\300\263\164\150\176\262\257\307\325\142\263\172\077\120\312  
\214\066\104\044\143\322\066\351\014\205\366\103\166\325\114\241  
\140\162\147\342\050\063\245\313\061\270\072\042\043\064\270\175  
\275\126\042\100\235\352\364\173\003\255\150\374\262\201\117\230  
\320\164\352\215\345\175\315\143\303\243\366\336\222\302\130\031  
\340\226\273\305\304\251\075\245\164\226\376\257\371\211\252\275  
\225\027\124\330\170\104\361\014\167\025\222\340\230\102\247\244  
\326\252\040\222\315\301\240\263\226\262\072\204\102\215\175\325  
\225\344\326\333\351\142\304\130\263\171\305\214\323\065\063\203  
\237\165\241\122\047\141\070\361\131\075\216\120\340\275\171\074  
\347\154\226\376\136\331\002\145\264\216\134\320\021\064\337\135  
\277\122\247\201\000\303\177\231\105\231\025\325\027\310\012\123  
\354\143\363\231\175\314\151\022\206\302\027\360\001\236\277\204  
\274\321\122\313\033\222\146\316\244\123\345\241\277\304\333\011  
\326\346\211\126\053\310\343\174\336\343\377\211\345\065\156\050  
\350\154\013\043\121\251\045\005\353\110\370\335\261\312\372\154  
\010\121\357\267\030\154\104\312\046\341\163\306\211\006\201\345

\212\254\260\342\051\306\271\044\263\153\104\021\364\245\103\302  
\114\103\345\160\066\214\266\063\127\172\225\056\202\240\364\134  
\020\263\141\203\366\002\005\206\056\174\055\154\334\003\106\156  
\065\223\325\172\225\057\336\040\330\133\176\224\220\004\152\272  
\131\075\004\005\165\235\067\242\016\056\075\353\301\244\122\203  
\376\320\153\324\146\216\334\306\351\022\116\035\052\127\252\020  
\274\174\136\202\175\246\246\311\362\055\271\365\027\047\255\321  
\016\211\124\053\225\372\300\255\035\230\024\170\063\102\206\012  
\251\163\265\373\164\015\267\033\060\031\304\132\016\034\047\267  
\332\030\320\377\212\310\005\272\361\252\034\242\067\267\346\110  
\244\106\054\224\352\250\166\142\107\213\020\123\007\110\127\154  
\342\222\115\266\256\005\313\334\301\112\136\217\254\075\031\116  
\302\355\140\165\053\333\301\312\102\325\002\003\001\000\001\243  
\143\060\141\060\037\006\003\125\035\043\004\030\060\026\200\024  
\162\254\344\063\171\252\105\207\366\375\254\035\236\326\307\057  
\206\330\044\071\060\035\006\003\125\035\016\004\026\004\024\162  
\254\344\063\171\252\105\207\366\375\254\035\236\326\307\057\206  
\330\044\071\060\016\006\003\125\035\017\001\001\377\004\004\003  
\002\001\006\060\017\006\003\125\035\023\001\001\377\004\005\060  
\003\001\001\377\060\015\006\011\052\206\110\206\367\015\001\001  
\013\005\000\003\202\002\001\000\240\073\131\247\011\224\076\066  
\204\322\176\057\071\245\226\227\372\021\255\374\147\363\161\011  
\362\262\211\204\147\104\257\271\357\355\226\354\234\144\333\062  
\060\157\147\232\254\176\137\262\253\001\066\176\201\372\344\204  
\136\322\254\066\340\153\142\305\175\113\016\202\155\322\166\142  
\321\376\227\370\237\060\174\030\371\264\122\167\202\035\166\333  
\323\035\251\360\301\232\000\275\155\165\330\175\347\372\307\070  
\243\234\160\350\106\171\003\257\056\164\333\165\370\156\123\014  
\003\310\231\032\211\065\031\074\323\311\124\174\250\360\054\346  
\156\007\171\157\152\341\346\352\221\202\151\012\035\303\176\131  
\242\236\153\106\025\230\133\323\257\106\035\142\310\316\200\122  
\111\021\077\311\004\022\303\023\174\077\073\212\226\333\074\240  
\036\012\264\213\124\262\044\147\015\357\202\313\276\074\175\321  
\342\177\256\026\326\126\130\271\332\040\261\203\025\241\357\212  
\115\062\157\101\057\023\122\202\224\327\032\301\170\242\121\335  
\053\160\155\267\032\371\367\260\340\147\227\126\333\174\141\123  
\011\003\050\002\100\307\263\330\375\234\160\152\306\050\303\205  
\351\342\355\032\223\240\336\113\230\242\204\076\005\167\001\226  
\075\373\264\040\017\234\162\002\172\022\057\325\243\272\121\170  
\257\052\053\104\145\116\265\375\012\350\301\315\171\207\141\053  
\336\200\127\105\277\147\361\233\221\136\245\244\354\131\110\020  
\015\070\307\260\372\303\104\155\004\365\170\120\034\222\226\133  
\332\365\270\056\272\133\317\345\360\152\235\113\057\130\163\055  
\117\055\304\034\076\364\263\077\253\025\016\073\031\101\212\244  
\301\127\022\146\161\114\372\123\343\127\353\142\225\011\236\124  
\335\321\302\074\127\074\275\070\255\230\144\267\270\003\232\123  
\126\140\135\263\330\102\033\134\113\022\212\034\353\353\175\306  
\172\151\307\047\177\244\370\213\362\344\224\146\207\113\351\224



```
\007\011\022\171\212\262\353\164\004\334\316\364\104\131\340\026
\312\305\054\130\327\074\173\317\142\206\152\120\175\065\066\146
\247\373\067\347\050\307\330\320\255\245\151\224\217\350\301\337
\044\370\033\007\061\207\201\330\135\366\350\050\330\112\122\200
\254\023\356\120\024\036\230\307
```

END

CKA\_NSS\_MOZILLA\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRUST\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRUST\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "Telia Root CA v2"

# Issuer: CN=Telia Root CA v2,O=Telia Finland Oyj,C=FI

# Serial Number:01:67:5f:27:d6:fe:7a:e3:e4:ac:be:09:5b:05:9e

# Subject: CN=Telia Root CA v2,O=Telia Finland Oyj,C=FI

# Not Valid Before: Thu Nov 29 11:55:54 2018

# Not Valid After : Sun Nov 29 11:55:54 2043

# Fingerprint (SHA-256):

24:2B:69:74:2F:CB:1E:5B:2A:BF:98:89:8B:94:57:21:87:54:4E:5B:4D:99:11:78:65:73:62:1F:6A:74:B8:2C

# Fingerprint (SHA1): B9:99:CD:D1:73:50:8A:C4:47:05:08:9C:8C:88:FB:BE:A0:2B:40:CD

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN

CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "Telia Root CA v2"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

```
\271\231\315\321\163\120\212\304\107\005\010\234\214\210\373\276
```

```
\240\053\100\315
```

END

CKA\_CERT\_MD5\_HASH MULTILINE\_OCTAL

```
\016\217\254\252\202\337\205\261\364\334\020\034\374\231\331\110
```

END

CKA\_ISSUER MULTILINE\_OCTAL

```
\060\104\061\013\060\011\006\003\125\004\006\023\002\106\111\061
```

```
\032\060\030\006\003\125\004\012\014\021\124\145\154\151\141\040
```

```
\106\151\156\154\141\156\144\040\117\171\152\061\031\060\027\006
```

```
\003\125\004\003\014\020\124\145\154\151\141\040\122\157\157\164
```

```
\040\103\101\040\166\062
```

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

```
\002\017\001\147\137\047\326\376\172\343\344\254\276\011\133\005
```

```
\236
```

END

CKA\_TRUST\_SERVER\_AUTH CK\_TRUST CKT\_NSS\_TRUSTED\_DELEGATOR

CKA\_TRUST\_EMAIL\_PROTECTION CK\_TRUST CKT\_NSS\_TRUSTED\_DELEGATOR

CKA\_TRUST\_CODE\_SIGNING CK\_TRUST CKT\_NSS\_MUST\_VERIFY\_TRUST

CKA\_TRUST\_STEP\_UP\_APPROVED CK\_BBOOL CK\_FALSE

```

#
#
Certificate "D-TRUST BR Root CA 1 2020"
#
Issuer: CN=D-TRUST BR Root CA 1 2020,O=D-Trust GmbH,C=DE
Serial Number:7c:c9:8f:2b:84:d7:df:ea:0f:c9:65:9a:d3:4b:4d:96
Subject: CN=D-TRUST BR Root CA 1 2020,O=D-Trust GmbH,C=DE
Not Valid Before: Tue Feb 11 09:45:00 2020
Not Valid After : Sun Feb 11 09:44:59 2035
Fingerprint (SHA-256):
E5:9A:AA:81:60:09:C2:2B:FF:5B:25:BA:D3:7D:F3:06:F0:49:79:7C:1F:81:D8:5A:B0:89:E6:57:BD:8F:00:44
Fingerprint (SHA1): 1F:5B:98:F0:E3:B5:F7:74:3C:ED:E6:B0:36:7D:32:CD:F4:09:41:67
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "D-TRUST BR Root CA 1 2020"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\110\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\025\060\023\006\003\125\004\012\023\014\104\055\124\162\165\163
\164\040\107\155\142\110\061\042\060\040\006\003\125\004\003\023
\031\104\055\124\122\125\123\124\040\102\122\040\122\157\157\164
\040\103\101\040\061\040\062\060\062\060
END
CKA_ID
UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\110\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\025\060\023\006\003\125\004\012\023\014\104\055\124\162\165\163
\164\040\107\155\142\110\061\042\060\040\006\003\125\004\003\023
\031\104\055\124\122\125\123\124\040\102\122\040\122\157\157\164
\040\103\101\040\061\040\062\060\062\060
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\174\311\217\053\204\327\337\352\017\311\145\232\323\113
\115\226
END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\333\060\202\002\140\240\003\002\001\002\002\020\174
\311\217\053\204\327\337\352\017\311\145\232\323\113\115\226\060
\012\006\010\052\206\110\316\075\004\003\003\060\110\061\013\060
\011\006\003\125\004\006\023\002\104\105\061\025\060\023\006\003
\125\004\012\023\014\104\055\124\162\165\163\164\040\107\155\142
\110\061\042\060\040\006\003\125\004\003\023\031\104\055\124\122
\125\123\124\040\102\122\040\122\157\157\164\040\103\101\040\061
\040\062\060\062\060\060\036\027\015\062\060\060\062\061\061\060

```

\071\064\065\060\060\132\027\015\063\065\060\062\061\061\060\071  
\064\064\065\071\132\060\110\061\013\060\011\006\003\125\004\006  
\023\002\104\105\061\025\060\023\006\003\125\004\012\023\014\104  
\055\124\162\165\163\164\040\107\155\142\110\061\042\060\040\006  
\003\125\004\003\023\031\104\055\124\122\125\123\124\040\102\122  
\040\122\157\157\164\040\103\101\040\061\040\062\060\062\060\060  
\166\060\020\006\007\052\206\110\316\075\002\001\006\005\053\201  
\004\000\042\003\142\000\004\306\313\307\050\321\373\204\365\232  
\357\102\024\040\341\103\153\156\165\255\374\053\003\204\324\166  
\223\045\327\131\073\101\145\153\036\346\064\052\273\164\366\022  
\316\350\155\347\253\344\074\116\077\104\010\213\315\026\161\313  
\277\222\231\364\244\327\074\120\124\122\220\205\203\170\224\147  
\147\243\034\011\031\075\165\064\205\336\355\140\175\307\014\264  
\101\122\271\156\345\356\102\243\202\001\015\060\202\001\011\060  
\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001\377  
\060\035\006\003\125\035\016\004\026\004\024\163\221\020\253\377  
\125\263\132\174\011\045\325\262\272\010\240\153\253\037\155\060  
\016\006\003\125\035\017\001\001\377\004\004\003\002\001\006\060  
\201\306\006\003\125\035\037\004\201\276\060\201\273\060\076\240  
\074\240\072\206\070\150\164\164\160\072\057\057\143\162\154\056  
\144\055\164\162\165\163\164\056\156\145\164\057\143\162\154\057  
\144\055\164\162\165\163\164\137\142\162\137\162\157\157\164\137  
\143\141\137\061\137\062\060\062\060\056\143\162\154\060\171\240  
\167\240\165\206\163\154\144\141\160\072\057\057\144\151\162\145  
\143\164\157\162\171\056\144\055\164\162\165\163\164\056\156\145  
\164\057\103\116\075\104\055\124\122\125\123\124\045\062\060\102  
\122\045\062\060\122\157\157\164\045\062\060\103\101\045\062\060  
\061\045\062\060\062\060\062\060\054\117\075\104\055\124\162\165  
\163\164\045\062\060\107\155\142\110\054\103\075\104\105\077\143  
\145\162\164\151\146\151\143\141\164\145\162\145\166\157\143\141  
\164\151\157\156\154\151\163\164\060\012\006\010\052\206\110\316  
\075\004\003\003\003\151\000\060\146\002\061\000\224\220\055\023  
\372\341\143\370\141\143\350\255\205\170\124\221\234\270\223\070  
\076\032\101\332\100\026\123\102\010\312\057\216\361\076\201\126  
\300\252\330\355\030\304\260\256\364\076\372\046\002\061\000\363  
\050\342\306\333\053\231\373\267\121\270\044\243\244\224\172\032  
\077\346\066\342\003\127\063\212\060\313\202\307\326\024\021\325  
\165\143\133\024\225\234\037\001\317\330\325\162\247\017\073

END

CKA\_NSS\_MOZILLA\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "D-TRUST BR Root CA 1 2020"

# Issuer: CN=D-TRUST BR Root CA 1 2020,O=D-Trust GmbH,C=DE

# Serial Number:7c:c9:8f:2b:84:d7:df:ea:0f:c9:65:9a:d3:4b:4d:96

# Subject: CN=D-TRUST BR Root CA 1 2020,O=D-Trust GmbH,C=DE

```

Not Valid Before: Tue Feb 11 09:45:00 2020
Not Valid After : Sun Feb 11 09:44:59
2035
Fingerprint (SHA-256):
E5:9A:AA:81:60:09:C2:2B:FF:5B:25:BA:D3:7D:F3:06:F0:49:79:7C:1F:81:D8:5A:B0:89:E6:57:BD:8F:00:44
Fingerprint (SHA1): 1F:5B:98:F0:E3:B5:F7:74:3C:ED:E6:B0:36:7D:32:CD:F4:09:41:67
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "D-TRUST BR Root CA 1 2020"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\037\133\230\360\343\265\367\164\074\355\346\260\066\175\062\315
\364\011\101\147
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\265\252\113\325\355\367\343\125\056\217\162\012\363\165\270\355
END
CKA_ISSUER MULTILINE_OCTAL
\060\110\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\025\060\023\006\003\125\004\012\023\014\104\055\124\162\165\163
\164\040\107\155\142\110\061\042\060\040\006\003\125\004\003\023
\031\104\055\124\122\125\123\124\040\102\122\040\122\157\157\164
\040\103\101\040\061\040\062\060\062\060
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\174\311\217\053\204\327\337\352\017\311\145\232\323\113
\115\226
END
CKA_TRUST_SERVER_AUTH
CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "D-TRUST EV Root CA 1 2020"
#
Issuer: CN=D-TRUST EV Root CA 1 2020,O=D-Trust GmbH,C=DE
Serial Number:5f:02:41:d7:7a:87:7c:4c:03:a3:ac:96:8d:fb:ff:d0
Subject: CN=D-TRUST EV Root CA 1 2020,O=D-Trust GmbH,C=DE
Not Valid Before: Tue Feb 11 10:00:00 2020
Not Valid After : Sun Feb 11 09:59:59 2035
Fingerprint (SHA-256):
08:17:0D:1A:A3:64:53:90:1A:2F:95:92:45:E3:47:DB:0C:8D:37:AB:AA:BC:56:B8:1A:A1:00:DC:95:89:70:DB
Fingerprint (SHA1): 61:DB:8C:21:59:69:03:90:D8:7C:9C:12:86:54:CF:9D:3D:F4:DD:07
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE

```

```
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "D-TRUST EV Root CA 1 2020"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE
CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\110\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\025\060\023\006\003\125\004\012\023\014\104\055\124\162\165\163
\164\040\107\155\142\110\061\042\060\040\006\003\125\004\003\023
\031\104\055\124\122\125\123\124\040\105\126\040\122\157\157\164
\040\103\101\040\061\040\062\060\062\060
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\110\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\025\060\023\006\003\125\004\012\023\014\104\055\124\162\165\163
\164\040\107\155\142\110\061\042\060\040\006\003\125\004\003\023
\031\104\055\124\122\125\123\124\040\105\126\040\122\157\157\164
\040\103\101\040\061\040\062\060\062\060
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\137\002\101\327\172\207\174\114\003\243\254\226\215\373
\377\320
END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\333\060\202\002\140\240\003\002\001\002\002\020\137
\002\101\327\172\207\174\114\003\243\254\226\215\373\377\320\060
\012\006\010\052\206\110\316\075\004\003\003\060\110\061\013\060
\011\006\003\125\004\006\023\002\104\105\061\025\060\023\006\003
\125\004\012\023\014\104\055\124\162\165\163\164\040\107\155\142
\110\061\042\060\040\006\003\125\004\003\023\031\104\055\124\122
\125\123\124\040\105\126\040\122\157\157\164\040\103\101\040\061
\040\062\060\062\060\060\036\027\015\062\060\060\062\061\061\061
\060\060\060\060\060\132\027\015\063\065\060\062\061\061\060\071
\065\071\065\071\132\060\110\061\013\060\011\006\003\125\004\006
\023\002\104\105\061\025\060\023\006\003\125\004\012\023\014\104
\055\124\162\165\163\164\040\107\155\142\110\061\042\060\040\006
\003\125\004\003\023\031\104\055\124\122\125\123\124\040\105\126
\040\122\157\157\164\040\103\101\040\061\040\062\060\062\060\060
\166\060\020\006\007\052\206\110\316\075\002\001\006\005\053\201
\004\000\042\003\142\000\004\361\013\335\206\103\040\031\337\227
\205\350\042\112\233\317\235\230\277\264\005\046\311\313\343\246
\322\217\305\236\170\173\061\211\251\211\255\047\074\145\020\202
\374\337\303\235\116\360\063\043\304\322\062\365\034\260\337\063
\027\135\305\360\261\212\371\357\271\267\024\312\051\112\302\017
\251\177\165\145\111\052\060\147\364\144\367\326\032\167\332\303
\302\227\141\102\173\111\255\243\202\001\015\060\202\001\011\060
\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001\377
```

```
\060\035\006\003\125\035\016\004\026\004\024\177\020\001\026\067
\072\244\050\344\120\370\244\367\354\153\062\266\376\351\213\060
\016\006\003\125\035\017\001\001\377\004\004\003\002\001\006\060
\201\306\006\003\125\035\037\004\201\276\060\201\273\060\076\240
\074\240\072\206\070\150\164\164\160\072\057\057\143\162\154\056
\144\055\164\162\165\163\164\056\156\145\164\057\143\162\154\057
\144\055\164\162\165\163\164\137\145\166\137\162\157\157\164\137
\143\141\137\061\137\062\060\062\060\056\143\162\154\060\171\240
\167\240\165\206\163\154\144\141\160\072\057\057\144\151\162\145
\143\164\157\162\171\056\144\055\164\162\165\163\164\056\156\145
\164\057\103\116\075\104\055\124\122\125\123\124\045\062\060\105
\126\045\062\060\122\157\157\164\045\062\060\103\101\045\062\060
\061\045\062\060\062\060\062\060\054\117\075\104\055\124\162\165
\163\164\045\062\060\107\155\142\110\054\103\075\104\105\077\143
\145\162\164\151\146\151\143\141\164\145\162\145\166\157\143\141
\164\151\157\156\154\151\163\164\060\012\006\010\052\206\110\316
\075\004\003\003\003\151\000\060\146\002\061\000\312\074\306\052
\165\302\136\165\142\071\066\000\140\132\213\301\223\231\314\331
\333\101\073\073\207\231\027\073\325\314\117\312\042\367\240\200
\313\371\264\261\033\126\365\162\322\374\031\321\002\061\000\221
\367\060\223\077\020\106\053\161\244\320\073\104\233\300\051\002
\005\262\101\167\121\363\171\132\236\216\024\240\116\102\322\133
\201\363\064\152\003\347\042\070\120\133\355\031\117\103\026
```

END

CKA\_NSS\_Mozilla\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "D-TRUST EV Root CA

1 2020"

# Issuer: CN=D-TRUST EV Root CA 1 2020,O=D-Trust GmbH,C=DE

# Serial Number:5f:02:41:d7:7a:87:7c:4c:03:a3:ac:96:8d:fb:ff:d0

# Subject: CN=D-TRUST EV Root CA 1 2020,O=D-Trust GmbH,C=DE

# Not Valid Before: Tue Feb 11 10:00:00 2020

# Not Valid After : Sun Feb 11 09:59:59 2035

# Fingerprint (SHA-256):

08:17:0D:1A:A3:64:53:90:1A:2F:95:92:45:E3:47:DB:0C:8D:37:AB:AA:BC:56:B8:1A:A1:00:DC:95:89:70:DB

# Fingerprint (SHA1): 61:DB:8C:21:59:69:03:90:D8:7C:9C:12:86:54:CF:9D:3D:F4:DD:07

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "D-TRUST EV Root CA 1 2020"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

```
\141\333\214\041\131\151\003\220\330\174\234\022\206\124\317\235
```

```
\075\364\335\007
```

END

```

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\214\055\235\160\237\110\231\021\006\021\373\351\313\060\300\156
END
CKA_ISSUER MULTILINE_OCTAL
\060\110\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\025\060\023\006\003\125\004\012\023\014\104\055\124\162\165\163
\164\040\107\155\142\110\061\042\060\040\006\003\125\004\003\023
\031\104\055\124\122\125\123\124\040\105\126\040\122\157\157\164
\040\103\101\040\061\040\062\060\062\060
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\020\137\002\101\327\172\207\174\114\003\243\254\226\215\373
\377\320
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "DigiCert TLS ECC P384 Root G5"
#
Issuer: CN=DigiCert TLS ECC P384 Root G5,O="DigiCert, Inc.",C=US
Serial Number:09:e0:93:65:ac:f7:d9:c8:b9:3e:1c:0b:04:2a:2e:f3
Subject: CN=DigiCert TLS ECC P384 Root G5,O="DigiCert, Inc.",C=US
Not Valid Before: Fri Jan 15 00:00:00 2021
Not Valid After : Sun Jan 14 23:59:59 2046
Fingerprint (SHA-256):
01:8E:13:F0:77:25:32:CF:80:9B:D1:B1:72:81:86:72:83:FC:48:C6:E1:3B:E9:C6:98:12:85:4A:49:0C:1B:05
#
Fingerprint (SHA1): 17:F3:DE:5E:9F:0F:19:E9:8E:F6:1F:32:26:6E:20:C4:07:AE:30:EE
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert TLS ECC P384 Root G5"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\116\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\027\060\025\006\003\125\004\012\023\016\104\151\147\151\103\145
\162\164\054\040\111\156\143\056\061\046\060\044\006\003\125\004
\003\023\035\104\151\147\151\103\145\162\164\040\124\114\123\040
\105\103\103\040\120\063\070\064\040\122\157\157\164\040\107\065
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\116\061\013\060\011\006\003\125\004\006\023\002\125\123\061

```

\027\060\025\006\003\125\004\012\023\016\104\151\147\151\103\145  
\162\164\054\040\111\156\143\056\061\046\060\044\006\003\125\004  
\003\023\035\104\151\147\151\103\145\162\164\040\124\114\123\040  
\105\103\103\040\120\063\070\064\040\122\157\157\164\040\107\065  
END

CKA\_SERIAL\_NUMBER

MULTILINE\_OCTAL

\002\020\011\340\223\145\254\367\331\310\271\076\034\013\004\052  
\056\363

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\002\031\060\202\001\237\240\003\002\001\002\002\020\011  
\340\223\145\254\367\331\310\271\076\034\013\004\052\056\363\060  
\012\006\010\052\206\110\316\075\004\003\003\060\116\061\013\060  
\011\006\003\125\004\006\023\002\125\123\061\027\060\025\006\003  
\125\004\012\023\016\104\151\147\151\103\145\162\164\054\040\111  
\156\143\056\061\046\060\044\006\003\125\004\003\023\035\104\151  
\147\151\103\145\162\164\040\124\114\123\040\105\103\103\040\120  
\063\070\064\040\122\157\157\164\040\107\065\060\036\027\015\062  
\061\060\061\061\065\060\060\060\060\060\060\132\027\015\064\066  
\060\061\061\064\062\063\065\071\065\071\132\060\116\061\013\060  
\011\006\003\125\004\006\023\002\125\123\061\027\060\025\006\003  
\125\004\012\023\016\104\151\147\151\103\145\162\164\054\040\111  
\156\143\056\061\046\060\044\006\003\125\004\003\023\035\104\151  
\147\151\103\145\162\164\040\124\114\123\040\105\103\103\040\120  
\063\070\064\040\122\157\157\164\040\107\065\060\166\060\020\006  
\007\052\206\110\316\075\002\001\006\005\053\201\004\000\042\003  
\142\000\004\301\104\241\317\021\227\120\232\336\043\202\065\007  
\315\320\313\030\235\322\361\177\167\065\117\073\335\224\162\122  
\355\302\073\370\354\372\173\153\130\040\354\231\256\311\374\150  
\263\165\271\333\011\354\310\023\365\116\306\012\035\146\060\114  
\273\037\107\012\074\141\020\102\051\174\245\010\016\340\042\351  
\323\065\150\316\233\143\237\204\265\231\115\130\240\216\365\124  
\347\225\311\243\102\060\100\060\035\006\003\125\035\016\004\026  
\004\024\301\121\105\120\131\253\076\347\054\132\372\040\042\022  
\007\200\210\174\021\152\060\016\006\003\125\035\017\001\001\377  
\004\004\003\002\001\206\060\017\006\003\125\035\023\001\001\377  
\004\005\060\003\001\001\377\060\012\006\010\052\206\110\316\075  
\004\003\003\003\150\000\060\145\002\061\000\211\152\215\107\347  
\354\374\156\125\003\331\147\154\046\116\203\306\375\311\373\053  
\023\274\267\172\214\264\145\322\151\151\143\023\143\073\046\120  
\056\001\241\171\006\221\235\110\277\302\276\002\060\107\303\025  
\173\261\240\221\231\111\223\250\074\174\350\106\006\213\054\362  
\061\000\224\235\142\310\211\275\031\204\024\351\245\373\001\270  
\015\166\103\214\056\123\313\174\337\014\027\226\120

END

CKA\_NSS\_MOZILLA\_CA\_POLICY



```

CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "DigiCert TLS ECC P384 Root G5"
Issuer: CN=DigiCert TLS ECC P384 Root G5,O="DigiCert, Inc.",C=US
Serial Number:09:e0:93:65:ac:f7:d9:c8:b9:3e:1c:0b:04:2a:2e:f3
Subject: CN=DigiCert TLS ECC P384 Root G5,O="DigiCert, Inc.",C=US
Not Valid Before: Fri Jan 15 00:00:00 2021
Not Valid After : Sun Jan 14 23:59:59 2046
Fingerprint (SHA-256):
01:8E:13:F0:77:25:32:CF:80:9B:D1:B1:72:81:86:72:83:FC:48:C6:E1:3B:E9:C6:98:12:85:4A:49:0C:1B:05
Fingerprint (SHA1):
17:F3:DE:5E:9F:0F:19:E9:8E:F6:1F:32:26:6E:20:C4:07:AE:30:EE
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert TLS ECC P384 Root G5"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\027\363\336\136\237\017\031\351\216\366\037\062\046\156\040\304
\007\256\060\356
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\323\161\004\152\103\034\333\246\131\341\250\243\252\305\161\355
END
CKA_ISSUER MULTILINE_OCTAL
\060\116\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\027\060\025\006\003\125\004\012\023\016\104\151\147\151\103\145
\162\164\054\040\111\156\143\056\061\046\060\044\006\003\125\004
\003\023\035\104\151\147\151\103\145\162\164\040\124\114\123\040
\105\103\103\040\120\063\070\064\040\122\157\157\164\040\107\065
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\011\340\223\145\254\367\331\310\271\076\034\013\004\052
\056\363
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION
CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "DigiCert TLS RSA4096 Root G5"
#
Issuer: CN=DigiCert TLS RSA4096 Root G5,O="DigiCert, Inc.",C=US
Serial Number:08:f9:b4:78:a8:fa:7e:da:6a:33:37:89:de:7c:cf:8a

```

```
Subject: CN=DigiCert TLS RSA4096 Root G5,O="DigiCert, Inc.",C=US
Not Valid Before: Fri Jan 15 00:00:00 2021
Not Valid After : Sun Jan 14 23:59:59 2046
Fingerprint (SHA-256):
37:1A:00:DC:05:33:B3:72:1A:7E:EB:40:E8:41:9E:70:79:9D:2B:0A:0F:2C:1D:80:69:31:65:F7:CE:C4:AD:75
Fingerprint (SHA1): A7:88:49:DC:5D:7C:75:8C:8C:DE:39:98:56:B3:AA:D0:B2:A5:71:35
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert TLS RSA4096 Root G5"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\115\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\027\060\025\006\003\125\004\012\023\016\104\151\147\151\103\145
\162\164\054\040\111\156\143\056\061\045\060\043\006\003\125\004
\003\023\034\104\151\147\151\103\145\162\164\040\124\114\123\040
\122\123\101\064\060\071\066\040\122\157\157\164\040\107\065
END
CKA_ID
UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\115\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\027\060\025\006\003\125\004\012\023\016\104\151\147\151\103\145
\162\164\054\040\111\156\143\056\061\045\060\043\006\003\125\004
\003\023\034\104\151\147\151\103\145\162\164\040\124\114\123\040
\122\123\101\064\060\071\066\040\122\157\157\164\040\107\065
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\010\371\264\170\250\372\176\332\152\063\067\211\336\174
\317\212
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\146\060\202\003\116\240\003\002\001\002\002\020\010
\371\264\170\250\372\176\332\152\063\067\211\336\174\317\212\060
\015\006\011\052\206\110\206\367\015\001\001\014\005\000\060\115
\061\013\060\011\006\003\125\004\006\023\002\125\123\061\027\060
\025\006\003\125\004\012\023\016\104\151\147\151\103\145\162\164
\054\040\111\156\143\056\061\045\060\043\006\003\125\004\003\023
\034\104\151\147\151\103\145\162\164\040\124\114\123\040\122\123
\101\064\060\071\066\040\122\157\157\164\040\107\065\060\036\027
\015\062\061\060\061\061\065\060\060\060\060\060\060\132\027\015
\064\066\060\061\061\064\062\063\065\071\065\071\132\060\115\061
\013\060\011\006\003\125\004\006\023\002\125\123\061\027\060\025
\006\003\125\004\012\023\016\104\151\147\151\103\145\162\164\054
\040\111\156\143\056\061\045\060\043\006\003\125\004\003\023\034
\104\151\147\151\103\145\162\164\040\124\114\123\040\122\123\101
\064\060\071\066\040\122\157\157\164\040\107\065\060\202\002\042
```

\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003  
\202\002\017\000\060\202\002\012\002\202\002\001\000\263\320\364  
\311\171\021\235\375\374\146\201\347\314\325\344\274\354\201\076  
\152\065\216\056\267\347\336\257\371\007\115\317\060\235\352\011  
\013\231\275\154\127\332\030\112\270\170\254\072\071\250\246\110  
\254\056\162\345\275\353\361\032\315\347\244\003\251\077\021\264  
\330\057\211\026\373\224\001\075\273\057\370\023\005\241\170\034  
\216\050\340\105\340\203\364\131\033\225\263\256\176\003\105\345  
\276\302\102\376\356\362\074\266\205\023\230\062\235\026\250\051  
\302\013\034\070\334\237\061\167\134\277\047\243\374\047\254\267  
\053\275\164\233\027\055\362\201\332\135\260\341\043\027\076\210  
\112\022\043\320\352\317\235\336\003\027\261\102\112\240\026\114  
\244\155\223\351\077\072\356\072\174\235\130\235\364\116\217\374  
\073\043\310\155\270\342\005\332\314\353\354\303\061\364\327\247  
\051\124\200\317\104\133\114\157\060\236\363\314\335\037\224\103  
\235\115\177\160\160\015\324\072\321\067\360\154\235\233\300\024  
\223\130\357\315\101\070\165\274\023\003\225\174\177\343\134\351  
\325\015\325\342\174\020\142\252\153\360\075\166\363\077\243\350  
\260\301\375\357\252\127\115\254\206\247\030\264\051\301\054\016  
\277\144\276\051\214\330\002\055\315\134\057\362\177\357\025\364  
\014\025\254\012\260\361\323\015\117\152\115\167\227\001\240\361  
\146\267\267\316\357\316\354\354\245\165\312\254\343\341\143\367  
\270\241\004\310\274\173\077\135\055\026\042\126\355\110\111\376  
\247\057\171\060\045\233\272\153\055\077\235\073\304\027\347\035  
\056\373\362\317\246\374\343\024\054\226\230\041\214\264\221\351  
\031\140\203\362\060\053\006\163\120\325\230\073\006\351\307\212  
\014\140\214\050\370\122\233\156\341\366\115\273\006\044\233\327  
\053\046\077\375\052\057\161\365\326\044\276\177\061\236\017\155  
\350\217\117\115\243\077\377\065\352\337\111\136\101\217\206\371  
\361\167\171\113\033\264\243\136\057\373\106\002\320\146\023\136  
\136\205\117\316\330\160\210\173\316\001\265\226\227\327\315\175  
\375\202\370\302\044\301\312\001\071\117\215\242\301\024\100\037  
\234\146\325\014\011\106\326\362\320\321\110\166\126\072\103\313  
\266\012\021\071\272\214\023\154\006\265\236\317\353\002\003\001  
\000\001\243\102\060\100\060\035\006\003\125\035\016\004\026\004  
\024\121\063\034\355\066\100\257\027\323\045\315\151\150\362\257  
\116\043\076\263\101\060\016\006\003\125\035\017\001\001\377\004  
\004\003\002\001\206\060\017\006\003\125\035\023\001\001\377\004  
\005\060\003\001\001\377\060\015\006\011\052\206\110\206\367\015  
\001\001\014\005\000\003\202\002\001\000\140\246\257\133\137\127  
\332\211\333\113\120\251\304\043\065\041\377\320\141\060\204\221  
\267\077\020\317\045\216\311\277\106\064\331\301\041\046\034\160  
\031\162\036\243\311\207\376\251\103\144\226\072\310\123\004\012  
\266\101\273\304\107\000\331\237\030\030\073\262\016\363\064\352  
\044\367\335\257\040\140\256\222\050\137\066\347\135\344\336\307  
\074\333\120\071\255\273\075\050\115\226\174\166\306\133\364\301  
\333\024\245\253\031\142\007\030\100\137\227\221\334\234\307\253  
\265\121\015\346\151\123\125\314\071\175\332\305\021\125\162\305

```
\073\213\211\370\064\055\244\027\345\027\346\231\175\060\210\041
\067\315\060\027\075\270\362\274\250\165\240\103\334\076\211\113
\220\256\155\003\340\034\243\240\226\011\273\175\243\267\052\020
\104\113\106\007\064\143\355\061\271\004\356\243\233\232\256\346
\061\170\364\352\044\141\073\253\130\144\377\273\207\047\142\045
\201\337\334\241\057\366\355\247\377\172\217\121\056\060\370\244
\001\322\205\071\137\001\231\226\157\132\133\160\031\106\376\206
\140\076\255\200\020\011\335\071\045\057\130\177\273\322\164\360
\367\106\037\106\071\112\330\123\320\363\056\073\161\245\324\157
\374\363\147\344\007\217\335\046\031\341\215\133\372\243\223\021
\233\351\310\072\303\125\150\232\222\341\122\166\070\350\341\272
\275\373\117\325\357\263\347\110\203\061\360\202\041\343\266\276
\247\253\157\357\237\337\114\317\001\270\142\152\043\075\347\011
\115\200\033\173\060\244\303\335\007\177\064\276\244\046\262\366
\101\350\011\035\343\040\230\252\067\117\377\367\361\342\051\160
\061\107\077\164\320\024\026\372\041\212\002\325\212\011\224\167
\056\362\131\050\213\174\120\222\012\146\170\070\203\165\304\265
\132\250\021\306\345\301\235\146\125\317\123\304\257\327\165\205
\251\102\023\126\354\041\167\201\223\132\014\352\226\331\111\312
\241\010\362\227\073\155\233\004\030\044\104\216\174\001\362\334
\045\330\136\206\232\261\071\333\365\221\062\152\321\246\160\212
\242\367\336\244\105\205\046\250\036\214\135\051\133\310\113\330
\232\152\003\136\160\362\205\117\154\113\150\057\312\124\366\214
\332\062\376\303\153\203\077\070\306\176
```

END

CKA\_NSS\_MOZILLA\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "DigiCert TLS RSA4096 Root G5"

# Issuer: CN=DigiCert TLS RSA4096 Root G5,O="DigiCert, Inc.",C=US

# Serial Number:08:f9:b4:78:a8:fa:7e:da:6a:33:37:89:de:7c:cf:8a

# Subject: CN=DigiCert TLS RSA4096 Root G5,O="DigiCert, Inc.",C=US

# Not Valid Before: Fri Jan 15 00:00:00 2021

# Not Valid After : Sun Jan 14 23:59:59 2046

# Fingerprint (SHA-256):

37:1A:00:DC:05:33:B3:72:1A:7E:EB:40:E8:41:9E:70:79:9D:2B:0A:0F:2C:1D:80:69:31:65:F7:CE:C4:AD:75

#

Fingerprint (SHA1): A7:88:49:DC:5D:7C:75:8C:8C:DE:39:98:56:B3:AA:D0:B2:A5:71:35

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "DigiCert TLS RSA4096 Root G5"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

```
\247\210\111\334\135\174\165\214\214\336\071\230\126\263\252\320
```

```
\262\245\161\065
```

```

END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\254\376\367\064\226\251\362\263\264\022\113\344\047\101\157\341
END
CKA_ISSUER MULTILINE_OCTAL
\060\115\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\027\060\025\006\003\125\004\012\023\016\104\151\147\151\103\145
\162\164\054\040\111\156\143\056\061\045\060\043\006\003\125\004
\003\023\034\104\151\147\151\103\145\162\164\040\124\114\123\040
\122\123\101\064\060\071\066\040\122\157\157\164\040\107\065
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\010\371\264\170\250\372\176\332\152\063\067\211\336\174
\317\212
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION
CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "DigiCert SMIME ECC P384 Root G5"
#
Issuer: CN=DigiCert SMIME ECC P384 Root G5,O="DigiCert, Inc.",C=US
Serial Number:05:3f:6e:a0:06:01:72:7d:ed:3f:c3:a3:b6:a3:d6:ef
Subject: CN=DigiCert SMIME ECC P384 Root G5,O="DigiCert, Inc.",C=US
Not Valid Before: Fri Jan 15 00:00:00 2021
Not Valid After : Sun Jan 14 23:59:59 2046
Fingerprint (SHA-256):
E8:E8:17:65:36:A6:0C:C2:C4:E1:01:87:C3:BE:FC:A2:0E:F2:63:49:70:18:F5:66:D5:BE:A0:F9:4D:0C:11:1B
Fingerprint (SHA1): 1C:B8:A7:08:C9:0D:20:79:01:A0:B2:36:7F:F0:95:65:E4:53:24:FE
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert SMIME ECC P384 Root G5"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\120\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\027\060\025\006\003\125\004\012\023\016\104\151\147\151\103\145
\162\164\054\040\111\156\143\056\061\050\060\046\006\003\125\004
\003\023\037\104\151\147\151\103\145\162\164\040\123\115\111\115
\105\040\105\103\103\040\120\063\070\064\040\122\157\157\164\040
\107\065
END
CKA_ID

```

UTF8 "0"

CKA\_ISSUER MULTILINE\_OCTAL

\060\120\061\013\060\011\006\003\125\004\006\023\002\125\123\061  
\027\060\025\006\003\125\004\012\023\016\104\151\147\151\103\145  
\162\164\054\040\111\156\143\056\061\050\060\046\006\003\125\004  
\003\023\037\104\151\147\151\103\145\162\164\040\123\115\111\115  
\105\040\105\103\103\040\120\063\070\064\040\122\157\157\164\040  
\107\065

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

\002\020\005\077\156\240\006\001\162\175\355\077\303\243\266\243  
\326\357

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\002\034\060\202\001\243\240\003\002\001\002\002\020\005  
\077\156\240\006\001\162\175\355\077\303\243\266\243\326\357\060  
\012\006\010\052\206\110\316\075\004\003\003\060\120\061\013\060  
\011\006\003\125\004\006\023\002\125\123\061\027\060\025\006\003  
\125\004\012\023\016\104\151\147\151\103\145\162\164\054\040\111  
\156\143\056\061\050\060\046\006\003\125\004\003\023\037\104\151  
\147\151\103\145\162\164\040\123\115\111\115\105\040\105\103\103  
\040\120\063\070\064\040\122\157\157\164\040\107\065\060\036\027  
\015\062\061\060\061\061\065\060\060\060\060\060\060\132\027\015  
\064\066\060\061\061\064\062\063\065\071\065\071\132\060\120\061  
\013\060\011\006\003\125\004\006\023\002\125\123\061\027\060\025  
\006\003\125\004\012\023\016\104\151\147\151\103\145\162\164\054  
\040\111\156\143\056\061\050\060\046\006\003\125\004\003\023\037  
\104\151\147\151\103\145\162\164\040\123\115\111\115\105\040\105  
\103\103\040\120\063\070\064\040\122\157\157\164\040\107\065\060  
\166\060\020\006\007\052\206\110\316\075\002\001\006\005\053\201  
\004\000\042\003\142\000\004\026\235\125\345\266\324\373\373\147  
\153\032\324\241\252\322\167\225\076\210\345\007\237\266\160\146  
\040\050\244\210\354\160\065\257\263\062\377\067\023\112\236\274  
\001\003\336\204\301\270\306\346\145\107\211\362\023\125\277\315  
\245\036\010\140\177\255\177\350\141\222\051\317\011\107\136\013  
\034\300\037\244\277\362\133\274\230\357\231\114\314\160\153\266  
\272\320\050\035\277\276\004\243\102\060\100\060\035\006\003\125  
\035\016\004\026\004\024\163\172\153\226\333\102\007\213\122\146  
\302\144\062\027\376\340\147\220\056\255\060\016\006\003\125\035  
\017\001\001\377\004\004\003\002\001\206\060\017\006\003\125\035  
\023\001\001\377\004\005\060\003\001\001\377\060\012\006\010\052  
\206\110\316\075\004\003\003\003\147\000\060\144\002\060\067\104  
\365\062\200\343\161\353\364\155\317\174\314\221\232\303\156\161  
\330\322\043\135\222\115\202\102\155\134\141\225\366\221\365\247  
\010\366\152\227\351\234\224\055\230\160\375\063\266\011\002\060  
\007\074\057\271\130\202\136\017\243\142\250\223\147\360\040\303  
\151\277\003\054\073\120\247\073\257\101\070\311\122\110\221\326  
\016\373\274\140\060\174\144\077\022\036\105\177\121\076\364\246

```

END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRICT_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRICT_AFTER CK_BBOOL CK_FALSE

Trust for "DigiCert SMIME ECC P384 Root G5"
Issuer: CN=DigiCert SMIME ECC P384 Root G5,O="DigiCert, Inc.",C=US
Serial Number:05:3f:6e:a0:06:01:72:7d:ed:3f:c3:a3:b6:a3:d6:ef
Subject: CN=DigiCert SMIME ECC P384 Root G5,O="DigiCert, Inc.",C=US
Not Valid Before: Fri Jan 15 00:00:00 2021
Not Valid After : Sun Jan 14 23:59:59 2046
Fingerprint (SHA-256):
E8:E8:17:65:36:A6:0C:C2:C4:E1:01:87:C3:BE:FC:A2:0E:F2:63:49:70:18:F5:66:D5:BE:A0:F9:4D:0C:11:1B
Fingerprint (SHA1): 1C:B8:A7:08:C9:0D:20:79:01:A0:B2:36:7F:F0:95:65:E4:53:24:FE
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert SMIME ECC P384 Root G5"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\034\270\247\010\311\015\040\171\001\240\262\066\177\360\225\145
\344\123\044\376
END
CKA_CERT_MD5_HASH
MULTILINE_OCTAL
\246\376\364\122\066\104\330\356\015\267\003\013\357\164\263\003
END
CKA_ISSUER MULTILINE_OCTAL
\060\120\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\027\060\025\006\003\125\004\012\023\016\104\151\147\151\103\145
\162\164\054\040\111\156\143\056\061\050\060\046\006\003\125\004
\003\023\037\104\151\147\151\103\145\162\164\040\123\115\111\115
\105\040\105\103\103\040\120\063\070\064\040\122\157\157\164\040
\107\065
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\005\077\156\240\006\001\162\175\355\077\303\243\266\243
\326\357
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "DigiCert SMIME RSA4096 Root G5"
#

```

```
Issuer: CN=DigiCert SMIME RSA4096 Root G5,O="DigiCert, Inc.",C=US
Serial Number:05:f6:ba:04:23:83:46:cb:7d:5c:e6:b9:5b:ba:1c:55
#
Subject: CN=DigiCert SMIME RSA4096 Root G5,O="DigiCert, Inc.",C=US
Not Valid Before: Fri Jan 15 00:00:00 2021
Not Valid After : Sun Jan 14 23:59:59 2046
Fingerprint (SHA-256):
90:37:0D:3E:FA:88:BF:58:C3:01:05:BA:25:10:4A:35:84:60:A7:FA:52:DF:C2:01:1D:F2:33:A0:F4:17:91:2A
Fingerprint (SHA1): 5B:C5:AD:E2:9A:A7:54:DA:84:89:53:A5:FE:D7:5B:46:86:D0:57:08
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert SMIME RSA4096 Root G5"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\117\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\027\060\025\006\003\125\004\012\023\016\104\151\147\151\103\145
\162\164\054\040\111\156\143\056\061\047\060\045\006\003\125\004
\003\023\036\104\151\147\151\103\145\162\164\040\123\115\111\115
\105\040\122\123\101\064\060\071\066\040\122\157\157\164\040\107
\065
END
CKA_ID UTF8 "0"
CKA_ISSUER
MULTILINE_OCTAL
\060\117\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\027\060\025\006\003\125\004\012\023\016\104\151\147\151\103\145
\162\164\054\040\111\156\143\056\061\047\060\045\006\003\125\004
\003\023\036\104\151\147\151\103\145\162\164\040\123\115\111\115
\105\040\122\123\101\064\060\071\066\040\122\157\157\164\040\107
\065
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\005\366\272\004\043\203\106\313\175\134\346\271\133\272
\034\125
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\152\060\202\003\122\240\003\002\001\002\002\020\005
\366\272\004\043\203\106\313\175\134\346\271\133\272\034\125\060
\015\006\011\052\206\110\206\367\015\001\001\014\005\000\060\117
\061\013\060\011\006\003\125\004\006\023\002\125\123\061\027\060
\025\006\003\125\004\012\023\016\104\151\147\151\103\145\162\164
\054\040\111\156\143\056\061\047\060\045\006\003\125\004\003\023
\036\104\151\147\151\103\145\162\164\040\123\115\111\115\105\040
\122\123\101\064\060\071\066\040\122\157\157\164\040\107\065\060
\036\027\015\062\061\060\061\061\065\060\060\060\060\060\060\132
\027\015\064\066\060\061\061\064\062\063\065\071\065\071\132\060
```



\117\061\013\060\011\006\003\125\004\006\023\002\125\123\061\027  
\060\025\006\003\125\004\012\023\016\104\151\147\151\103\145\162  
\164\054\040\111\156\143\056\061\047\060\045\006\003\125\004\003  
\023\036\104\151\147\151\103\145\162\164\040\123\115\111\115\105  
\040\122\123\101\064\060\071\066\040\122\157\157\164\040\107\065  
\060\202\002\042\060\015\006\011\052\206\110\206\367\015\001\001  
\001\005\000\003\202\002\017\000\060\202\002\012\002\202\002\001  
\000\340\152\133\331\370\371\175\354\265\173\357\137\335\134\064  
\330\332\135\321\313\145\165\253\041\174\133\000\324\202\157\105  
\205\101\212\251\022\002\162\062\360\024\365\003\165\273\143\227  
\111\017\100\231\013\032\036\126\247\322\320\341\253\335\345\004  
\033\343\037\024\022\002\210\365\240\200\011\366\047\232\120\360  
\272\343\242\340\254\152\024\221\265\153\070\020\172\242\061\341  
\221\033\267\271\360\053\133\310\167\011\166\267\121\304\066\012  
\231\123\124\104\045\267\011\065\206\027\005\126\223\075\101\267  
\002\327\142\037\212\222\021\207\352\021\155\352\010\021\334\261  
\170\110\111\222\366\264\121\200\170\043\330\376\341\126\032\072  
\220\023\126\064\211\325\342\225\213\137\336\262\314\373\077\070  
\267\205\367\352\236\277\056\241\056\057\115\175\152\021\056\066  
\240\377\021\010\004\225\125\340\033\073\147\223\251\224\125\352  
\062\355\006\072\177\302\177\343\255\023\047\321\064\101\263\060  
\303\277\264\210\370\003\202\244\337\076\253\170\167\240\131\223  
\161\347\335\353\000\004\173\314\110\071\050\340\036\243\025\151  
\310\066\262\241\013\227\337\125\326\357\221\234\244\366\026\367  
\121\012\356\003\043\221\334\004\377\340\335\070\366\042\003\000  
\302\007\161\032\022\311\327\106\052\224\033\315\326\273\033\356  
\277\276\115\120\130\260\013\315\060\166\051\365\317\345\266\152  
\057\166\260\260\151\152\320\155\145\030\065\176\223\274\162\027  
\301\125\102\315\057\302\045\273\364\375\035\241\144\042\124\135  
\342\236\162\101\204\156\161\226\352\105\007\266\136\172\112\206  
\235\163\144\167\070\003\322\017\123\245\125\040\304\115\377\150  
\157\125\251\352\335\161\344\117\331\205\243\174\116\051\002\236  
\013\011\362\032\123\314\000\246\335\321\064\366\015\301\060\261  
\234\002\144\254\065\355\245\260\051\261\322\225\063\017\322\040  
\063\275\354\043\113\362\031\371\332\230\144\344\054\061\037\056  
\341\215\034\004\225\050\115\214\130\315\113\345\163\202\206\214  
\354\250\326\171\134\373\144\273\334\014\114\050\366\027\257\342  
\150\326\026\206\230\333\374\001\334\061\272\370\234\016\371\050  
\106\112\341\375\226\006\105\171\021\150\027\145\134\213\046\207  
\133\002\003\001\000\001\243\102\060\100\060\035\006\003\125\035  
\016\004\026\004\024\321\243\324\127\035\117\125\333\165\114\134  
\102\236\143\026\316\264\306\073\037\060\016\006\003\125\035\017  
\001\001\377\004\004\003\002\001\206\060\017\006\003\125\035\023  
\001\001\377\004\005\060\003\001\001\377\060\015\006\011\052\206  
\110\206\367\015\001\001\014\005\000\003\202\002\001\000\007\247  
\012\336\123\273\232\353\160\277\262\066\220\315\344\247\270\361  
\014\344\135\132\035\170\145\374\311\270\036\043\021\127\174\151  
\065\155\001\377\123\120\277\007\016\272\307\001\077\130\052\224

\165\003\253\034\013\043\334\033\212\036\067\075\035\130\217\163  
\331\263\052\157\337\020\240\133\014\247\312\260\177\271\044\242  
\001\065\062\345\136\106\101\353\330\177\163\347\102\351\244\121  
\046\167\201\012\250\353\017\012\120\235\176\212\040\147\374\013  
\216\072\021\323\305\214\140\030\331\113\261\374\324\361\264\111  
\116\256\207\341\321\373\166\241\137\363\006\317\227\226\014\351  
\236\165\201\134\123\015\042\374\066\346\111\156\164\333\000\205  
\215\174\042\240\216\373\020\114\324\142\023\133\357\113\162\046  
\213\374\116\212\217\376\227\020\123\305\170\213\102\144\033\137  
\340\211\375\273\011\177\120\340\124\205\046\021\152\035\145\371  
\111\051\334\174\066\337\373\075\367\322\254\356\062\215\156\246  
\175\071\234\105\304\312\015\365\073\264\171\123\245\057\126\307  
\121\305\212\114\144\135\220\103\043\216\153\114\027\170\314\350  
\277\365\073\344\250\110\317\255\233\014\337\062\112\323\331\022  
\216\043\170\015\055\257\237\257\236\074\011\302\227\000\355\072  
\151\034\161\077\071\337\323\217\304\146\365\357\066\224\017\363  
\335\222\266\226\137\220\246\335\163\252\246\040\224\224\045\152  
\011\014\162\344\023\043\140\114\243\312\027\056\173\147\000\333  
\320\315\352\172\037\071\046\127\211\060\167\313\116\345\225\105  
\117\137\373\066\134\075\371\040\265\072\020\045\117\223\062\132  
\356\301\226\350\351\126\004\260\111\141\115\354\170\250\235\030  
\301\377\330\352\057\126\357\225\053\173\004\136\147\343\125\100  
\355\071\004\371\013\171\365\152\214\134\017\211\232\220\307\315  
\213\336\333\046\065\241\156\315\263\102\362\242\017\073\014\216  
\223\377\024\317\374\367\223\367\344\101\010\156\031\122\021\017  
\123\031\163\170\014\317\330\205\201\370\255\125\310\260\236\106  
\143\257\234\122\356\134\277\360\300\133\067\036\011\040\322\076  
\043\306\241\025\112\016\066\176\060\305\171\152\274\042\210\331  
\014\122\100\037\335\116\017\147\046\026\322\255\027\034

END

CKA\_NSS\_MOZILLA\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "DigiCert SMIME RSA4096 Root G5"

# Issuer: CN=DigiCert SMIME RSA4096 Root G5,O="DigiCert, Inc.",C=US

# Serial Number:05:f6:ba:04:23:83:46:cb:7d:5c:e6:b9:5b:ba:1c:55

# Subject: CN=DigiCert SMIME RSA4096 Root G5,O="DigiCert, Inc.",C=US

# Not Valid Before: Fri Jan 15 00:00:00 2021

# Not Valid After : Sun Jan 14 23:59:59 2046

# Fingerprint (SHA-256):

90:37:0D:3E:FA:88:BF:58:C3:01:05:BA:25:10:4A:35:84:60:A7:FA:52:DF:C2:01:1D:F2:33:A0:F4:17:91:2A

# Fingerprint (SHA1): 5B:C5:AD:E2:9A:A7:54:DA:84:89:53:A5:FE:D7:5B:46:86:D0:57:08

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

```

CKA_LABEL UTF8 "DigiCert SMIME RSA4096 Root G5"
CKA_CERT_SHA1_HASH
MULTILINE_OCTAL
\133\305\255\342\232\247\124\332\204\211\123\245\376\327\133\106
\206\320\127\010
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\321\173\340\265\077\065\162\237\175\276\013\245\244\035\251\156
END
CKA_ISSUER MULTILINE_OCTAL
\060\117\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\027\060\025\006\003\125\004\012\023\016\104\151\147\151\103\145
\162\164\054\040\111\156\143\056\061\047\060\045\006\003\125\004
\003\023\036\104\151\147\151\103\145\162\164\040\123\115\111\115
\105\040\122\123\101\064\060\071\066\040\122\157\157\164\040\107
\065
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\005\366\272\004\043\203\106\313\175\134\346\271\133\272
\034\125
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Certainly Root R1"
#
Issuer: CN=Certainly Root R1,O=Certainly,C=US
#
Serial Number:00:8e:0f:f9:4b:90:71:68:65:33:54:f4:d4:44:39:b7:e0
Subject: CN=Certainly Root R1,O=Certainly,C=US
Not Valid Before: Thu Apr 01 00:00:00 2021
Not Valid After : Sun Apr 01 00:00:00 2046
Fingerprint (SHA-256):
77:B8:2C:D8:64:4C:43:05:F7:AC:C5:CB:15:6B:45:67:50:04:03:3D:51:C6:0C:62:02:A8:E0:C3:34:67:D3:A0
Fingerprint (SHA1): A0:50:EE:0F:28:71:F4:27:B2:12:6D:6F:50:96:25:BA:CC:86:42:AF
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certainly Root R1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\075\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\022\060\020\006\003\125\004\012\023\011\103\145\162\164\141\151
\156\154\171\061\032\060\030\006\003\125\004\003\023\021\103\145

```

```
\162\164\141\151\156\154\171\040\122\157\157\164\040\122\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\075\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\022\060\020\006\003\125\004\012\023\011\103\145\162\164\141\151
\156\154\171\061\032\060\030\006\003\125\004\003\023\021\103\145
\162\164\141\151\156\154\171\040\122\157\157\164\040\122\061
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\021\000\216\017\371\113\220\161\150\145\063\124\364\324\104
\071\267\340
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\107\060\202\003\057\240\003\002\001\002\002\021\000
\216\017\371\113\220\161\150\145\063\124\364\324\104\071\267\340
\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060
\075\061\013\060\011\006\003\125\004\006\023\002\125\123\061\022
\060\020\006\003\125\004\012\023\011\103\145\162\164\141\151\156
\154\171\061\032\060\030\006\003\125\004\003\023\021\103\145\162
\164\141\151\156\154\171\040\122\157\157\164\040\122\061\060\036
\027\015\062\061\060\064\060\061\060\060\060\060\060\132\027
\015\064\066\060\064\060\061\060\060\060\060\060\132\060\075
\061\013\060\011\006\003\125\004\006\023\002\125\123\061\022\060
\020\006\003\125\004\012\023\011\103\145\162\164\141\151\156\154
\171\061\032\060\030\006\003\125\004\003\023\021\103\145\162\164
\141\151\156\154\171\040\122\157\157\164\040\122\061\060\202\002
\042\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000
\003\202\002\017\000\060\202\002\012\002\202\002\001\000\320\066
\324\037\352\335\253\344\321\266\346\373\042\300\335\023\015\152
\173\042\023\034\227\074\150\143\146\062\234\003\265\215\244\201
\203\332\170\060\021\317\334\262\053\276\222\277\216\344\304\023
\276\244\150\114\332\002\150\026\164\276\262\335\004\344\153\052
\335\067\037\140\054\333\365\367\241\174\225\267\014\160\206\056
\361\072\357\122\367\314\323\233\371\213\276\016\337\061\267\235
\150\134\222\246\365\345\363\012\064\265\377\173\242\344\207\241
\306\257\027\000\357\003\221\355\251\034\116\161\075\322\213\154
\211\364\170\206\346\152\111\240\316\265\322\260\253\233\366\364
\324\056\343\162\371\066\306\353\025\267\045\214\072\374\045\015
\263\042\163\041\164\310\112\226\141\222\365\057\013\030\245\364
\255\342\356\101\275\001\171\372\226\214\215\027\002\060\264\371
\257\170\032\214\264\066\020\020\007\005\160\320\364\061\220\212
\121\305\206\046\171\262\021\210\136\305\360\012\124\315\111\246
\277\002\234\322\104\247\355\343\170\357\106\136\155\161\321\171
\160\034\106\137\121\351\311\067\334\137\176\151\173\101\337\064
\105\340\073\204\364\241\212\012\066\236\067\314\142\122\341\211
\015\050\371\172\043\261\015\075\075\232\375\235\201\357\054\220
```

\300\173\104\116\273\111\340\016\112\126\222\274\313\265\335\171  
\027\211\221\336\141\211\164\222\250\343\062\205\276\116\205\244  
\113\131\313\053\305\170\216\161\124\320\002\067\231\214\345\111  
\352\340\124\162\244\021\006\057\013\214\301\133\276\265\241\260  
\123\156\234\270\140\221\037\131\153\371\055\364\224\012\227\265  
\354\305\166\003\124\033\145\122\272\114\222\126\121\065\240\100  
\330\051\333\256\122\166\073\055\060\100\233\212\320\102\126\264  
\267\210\001\244\207\073\123\226\315\243\026\217\363\146\252\027  
\261\307\140\340\301\103\005\014\356\233\133\140\157\006\134\207  
\133\047\371\100\021\236\234\063\301\267\345\065\127\005\177\047  
\316\027\040\214\034\374\361\373\332\061\051\111\355\365\013\204  
\247\117\301\366\116\302\050\234\372\356\340\257\007\373\063\021  
\172\041\117\013\041\020\266\100\072\253\042\072\004\234\213\233  
\204\206\162\232\322\247\245\304\264\165\221\251\053\043\002\003  
\001\000\001\243\102\060\100\060\016\006\003\125\035\017\001\001  
\377\004\004\003\002\001\006\060\017\006\003\125\035\023\001\001  
\377\004\005\060\003\001\001\377\060\035\006\003\125\035\016\004  
\026\004\024\340\252\077\045\215\237\104\134\301\072\350\056\256  
\167\114\204\076\147\014\364\060\015\006\011\052\206\110\206\367  
\015\001\001\013\005\000\003\202\002\001\000\271\127\257\270\022  
\332\127\203\217\150\013\063\035\003\123\125\364\225\160\344\053  
\075\260\071\353\372\211\142\375\367\326\030\004\057\041\064\335  
\361\150\360\325\226\132\336\302\200\243\301\215\306\152\367\131  
\167\256\025\144\317\133\171\005\167\146\352\214\323\153\015\335  
\361\131\054\301\063\245\060\200\025\105\007\105\032\061\042\266  
\222\000\253\231\115\072\217\167\257\251\042\312\057\143\312\025  
\326\307\306\360\075\154\374\034\015\230\020\141\236\021\242\042  
\327\012\362\221\172\153\071\016\057\060\303\066\111\237\340\351  
\017\002\104\120\067\224\125\175\352\237\366\073\272\224\245\114  
\351\274\076\121\264\350\312\222\066\124\155\134\045\050\332\335  
\255\024\375\323\356\342\042\005\353\320\362\267\150\022\327\132  
\212\101\032\306\222\245\132\073\143\105\117\277\341\072\167\042  
\057\134\277\106\371\132\003\205\023\102\137\312\336\123\327\142  
\265\246\065\004\302\107\377\231\375\204\337\134\316\351\136\200  
\050\101\362\175\347\036\220\330\117\166\076\202\074\015\374\245  
\003\372\173\032\331\105\036\140\332\304\216\371\374\053\311\173  
\225\305\052\377\252\211\337\202\061\017\162\377\014\047\327\012  
\036\126\000\120\036\014\220\301\226\265\330\024\205\273\247\015  
\026\301\370\007\044\033\272\205\241\032\005\011\200\272\225\143  
\311\072\354\045\237\177\235\272\244\107\025\233\104\160\361\152  
\113\326\070\136\103\363\030\176\120\156\351\132\050\346\145\346  
\167\033\072\375\035\276\003\046\243\333\324\341\273\176\226\047  
\053\035\356\244\373\332\045\124\023\003\336\071\306\303\037\115  
\220\354\217\033\112\322\034\355\205\225\070\120\171\106\326\301  
\220\120\061\251\134\232\156\035\365\063\126\213\247\231\322\362  
\310\054\063\223\222\060\307\116\214\145\063\020\144\027\375\044  
\027\226\321\215\302\072\152\053\353\023\213\104\362\041\363\112  
\032\267\167\137\327\355\210\244\162\345\071\037\225\235\276\147

```
\301\160\021\075\273\364\370\111\267\343\046\227\072\237\322\137
\174\373\300\231\174\071\051\340\173\035\277\015\247\217\322\051
\064\156\044\025\313\336\220\136\277\032\304\146\352\302\346\272
\071\137\212\231\251\101\131\007\260\054\257
```

END

CKA\_NSS\_MOZILLA\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL

CK\_FALSE

# Trust for "Certainly Root R1"

# Issuer: CN=Certainly Root R1,O=Certainly,C=US

# Serial Number:00:8e:0f:f9:4b:90:71:68:65:33:54:f4:d4:44:39:b7:e0

# Subject: CN=Certainly Root R1,O=Certainly,C=US

# Not Valid Before: Thu Apr 01 00:00:00 2021

# Not Valid After : Sun Apr 01 00:00:00 2046

# Fingerprint (SHA-256):

77:B8:2C:D8:64:4C:43:05:F7:AC:C5:CB:15:6B:45:67:50:04:03:3D:51:C6:0C:62:02:A8:E0:C3:34:67:D3:A0

# Fingerprint (SHA1): A0:50:EE:0F:28:71:F4:27:B2:12:6D:6F:50:96:25:BA:CC:86:42:AF

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "Certainly Root R1"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

```
\240\120\356\017\050\161\364\047\262\022\155\157\120\226\045\272
\314\206\102\257
```

END

CKA\_CERT\_MD5\_HASH MULTILINE\_OCTAL

```
\007\160\324\076\202\207\240\372\063\066\023\364\372\063\347\022
```

END

CKA\_ISSUER MULTILINE\_OCTAL

```
\060\075\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\022\060\020\006\003\125\004\012\023\011\103\145\162\164\141\151
\156\154\171\061\032\060\030\006\003\125\004\003\023\021\103\145
\162\164\141\151\156\154\171\040\122\157\157\164\040\122\061
```

END

CKA\_SERIAL\_NUMBER

MULTILINE\_OCTAL

```
\002\021\000\216\017\371\113\220\161\150\145\063\124\364\324\104
\071\267\340
```

END

CKA\_TRUST\_SERVER\_AUTH CK\_TRUST CKT\_NSS\_TRUSTED\_DELEGATOR

CKA\_TRUST\_EMAIL\_PROTECTION CK\_TRUST CKT\_NSS\_MUST\_VERIFY\_TRUST

CKA\_TRUST\_CODE\_SIGNING CK\_TRUST CKT\_NSS\_MUST\_VERIFY\_TRUST

CKA\_TRUST\_STEP\_UP\_APPROVED CK\_BBOOL CK\_FALSE

```
#
Certificate "Certainly Root E1"
#
Issuer: CN=Certainly Root E1,O=Certainly,C=US
Serial Number:06:25:33:b1:47:03:33:27:5c:f9:8d:9a:b9:bf:cc:f8
Subject: CN=Certainly Root E1,O=Certainly,C=US
Not Valid Before: Thu Apr 01 00:00:00 2021
Not Valid After : Sun Apr 01 00:00:00 2046
Fingerprint (SHA-256):
B4:58:5F:22:E4:AC:75:6A:4E:86:12:A1:36:1C:5D:9D:03:1A:93:FD:84:FE:BB:77:8F:A3:06:8B:0F:C4:2D:C2
Fingerprint (SHA1): F9:E1:6D:DC:01:89:CF:D5:82:45:63:3E:C5:37:7D:C2:EB:93:6F:2B
CKA_CLASS
CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certainly Root E1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\075\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\022\060\020\006\003\125\004\012\023\011\103\145\162\164\141\151
\156\154\171\061\032\060\030\006\003\125\004\003\023\021\103\145
\162\164\141\151\156\154\171\040\122\157\157\164\040\105\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\075\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\022\060\020\006\003\125\004\012\023\011\103\145\162\164\141\151
\156\154\171\061\032\060\030\006\003\125\004\003\023\021\103\145
\162\164\141\151\156\154\171\040\122\157\157\164\040\105\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\006\045\063\261\107\003\063\047\134\371\215\232\271\277
\314\370
END
CKA_VALUE MULTILINE_OCTAL
\060\202\001\367\060\202\001\175\240\003\002\001\002\002\020\006
\045\063\261\107\003\063\047\134\371\215\232\271\277\314\370\060
\012\006\010\052\206\110\316\075\004\003\003\060\075\061\013\060
\011\006\003\125\004\006\023\002\125\123\061\022\060\020\006\003
\125\004\012\023\011\103\145\162\164\141\151\156\154\171\061\032
\060\030\006\003\125\004\003\023\021\103\145\162\164\141\151\156
\154\171\040\122\157\157\164\040\105\061\060\036\027\015\062\061
\060\064\060\061\060\060\060\060\060\060\132\027\015\064\066\060
\064\060\061\060\060\060\060\060\060\132\060\075\061\013\060\011
\006\003\125\004\006\023\002\125\123\061\022\060\020\006\003\125
\004\012\023\011\103\145\162\164\141\151\156\154\171\061\032\060
\030\006\003\125\004\003\023\021\103\145\162\164\141\151\156\154
```

```
\171\040\122\157\157\164\040\105\061\060\166\060\020\006\007\052
\206\110\316\075\002\001\006\005\053\201\004\000\042\003\142\000
\004\336\157\370\177\034\337\355\371\107\207\206\261\244\300\212
\370\202\227\200\352\217\310\112\136\052\175\210\150\247\001\142
\024\221\044\172\134\236\243\027\175\212\206\041\064\030\120\033
\020\336\320\067\113\046\307\031\140\200\351\064\275\140\031\066
\100\326\051\207\011\074\221\172\366\274\023\043\335\131\116\004
\136\317\310\002\034\030\123\301\061\330\332\040\351\104\215\344
\166\243\102\060\100\060\016\006\003\125\035\017\001\001\377\004
\004\003\002\001\006\060\017\006\003\125\035\023\001\001\377\004
\005\060\003\001\001\377\060\035\006\003\125\035\016\004\026\004
\024\363\050\030\313\144\165\356\051\052\353\355\256\043\130\070
\205\353\310\042\007\060\012\006\010\052\206\110\316\075\004\003
\003\003\150\000\060\145\002\061\000\261\216\132\040\303\262\031
\142\115\336\260\117\337\156\322\160\212\361\237\176\152\214\346
\272\336\203\151\312\151\263\251\005\265\226\222\027\207\302\322
\352\320\173\316\330\101\133\174\256\002\060\106\336\352\313\135
\232\354\062\302\145\026\260\114\060\134\060\363\332\116\163\206
\006\330\316\211\004\110\067\067\370\335\063\121\235\160\257\173
\125\330\001\056\175\005\144\016\206\270\221
```

END

CKA\_NSS\_MOZILLA\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "Certainly Root E1"

# Issuer: CN=Certainly Root E1,O=Certainly,C=US

# Serial Number:06:25:33:b1:47:03:33:27:5c:f9:8d:9a:b9:bf:cc:f8

# Subject: CN=Certainly Root E1,O=Certainly,C=US

# Not Valid Before: Thu Apr 01 00:00:00 2021

# Not Valid After : Sun Apr 01 00:00:00 2046

# Fingerprint (SHA-256):

B4:58:5F:22:E4:AC:75:6A:4E:86:12:A1:36:1C:5D:9D:03:1A:93:FD:84:FE:BB:77:8F:A3:06:8B:0F:C4:2D:C2

# Fingerprint (SHA1): F9:E1:6D:DC:01:89:CF:D5:82:45:63:3E:C5:37:7D:C2:EB:93:6F:2B

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "Certainly Root E1"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

```
\371\341\155\334\001\211\317\325\202\105\143\076\305\067\175\302
\353\223\157\053
```

END

CKA\_CERT\_MD5\_HASH MULTILINE\_OCTAL

```
\012\236\312\315\076\122\120\306\066\363\113\243\355\247\123\351
```

END

CKA\_ISSUER



```
MULTILINE_OCTAL
\060\075\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\022\060\020\006\003\125\004\012\023\011\103\145\162\164\141\151
\156\154\171\061\032\060\030\006\003\125\004\003\023\021\103\145
\162\164\141\151\156\154\171\040\122\157\157\164\040\105\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\006\045\063\261\107\003\063\047\134\371\215\232\271\277
\314\370
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "E-Tugra Global Root CA RSA v3"
#
Issuer: CN=E-Tugra Global Root CA RSA v3,OU=E-Tugra Trust Center,O=E-Tugra EBG A.S.,L=Ankara,C=TR
Serial Number:0d:4d:c5:cd:16:22:95:96:08:7e:b8:0b:7f:15:06:34:fb:79:10:34
Subject: CN=E-Tugra Global Root CA RSA v3,OU=E-Tugra Trust Center,O=E-Tugra EBG
A.S.,L=Ankara,C=TR
Not Valid Before:
 Wed Mar 18 09:07:17 2020
Not Valid After : Sun Mar 12 09:07:17 2045
Fingerprint (SHA-256):
EF:66:B0:B1:0A:3C:DB:9F:2E:36:48:C7:6B:D2:AF:18:EA:D2:BF:E6:F1:17:65:5E:28:C4:06:0D:A1:A3:F4:C2
Fingerprint (SHA1): E9:A8:5D:22:14:52:1C:5B:AA:0A:B4:BE:24:6A:23:8A:C9:BA:E2:A9
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "E-Tugra Global Root CA RSA v3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\200\061\013\060\011\006\003\125\004\006\023\002\124\122
\061\017\060\015\006\003\125\004\007\023\006\101\156\153\141\162
\141\061\031\060\027\006\003\125\004\012\023\020\105\055\124\165
\147\162\141\040\105\102\107\040\101\056\123\056\061\035\060\033
\006\003\125\004\013\023\024\105\055\124\165\147\162\141\040\124
\162\165\163\164\040\103\145\156\164\145\162\061\046\060\044\006
\003\125\004\003\023\035\105\055\124\165\147\162\141\040\107\154
\157\142\141\154\040\122\157\157\164\040\103\101\040\122\123\101
\040\166\063
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
```

\060\201\200\061\013\060\011\006\003\125\004\006\023\002\124\122  
\061\017\060\015\006\003\125\004\007\023\006\101\156\153\141\162  
\141\061\031\060\027\006\003\125\004\012\023\020\105\055\124\165  
\147\162\141\040\105\102\107\040\101\056\123\056\061\035\060\033  
\006\003\125\004\013\023\024\105\055\124\165\147\162\141\040\124  
\162\165\163\164\040\103\145\156\164\145\162\061\046\060\044\006  
\003\125\004\003\023\035\105\055\124\165\147\162\141\040\107\154  
\157\142\141\154\040\122\157\157\164\040\103\101\040\122\123\101  
\040\166\063

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

\002\024\015\115\305\315\026\042\225\226\010\176\270\013\177\025  
\006\064\373\171\020\064

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\005\363\060\202\003\333\240\003\002\001\002\002\024\015  
\115\305\315\026\042\225\226\010\176\270\013\177\025\006\064\373  
\171\020\064\060\015\006\011\052\206\110\206\367\015\001\001\013  
\005\000\060\201\200\061\013\060\011\006\003\125\004\006\023\002  
\124\122\061\017\060\015\006\003\125\004\007\023\006\101\156\153  
\141\162\141\061\031\060\027\006\003\125\004\012\023\020\105\055  
\124\165\147\162\141\040\105\102\107\040\101\056\123\056\061\035  
\060\033\006\003\125\004\013\023\024\105\055\124\165\147\162\141  
\040\124\162\165\163\164\040\103\145\156\164\145\162\061\046\060  
\044\006\003\125\004\003\023\035\105\055\124\165\147\162\141\040  
\107\154\157\142\141\154\040\122\157\157\164\040\103\101\040\122  
\123\101\040\166\063\060\036\027\015\062\060\060\063\061\070\060  
\071\060\067\061\067\132\027\015\064\065\060\063\061\062\060\071  
\060\067\061\067\132\060\201\200\061\013\060\011\006\003\125\004  
\006\023\002\124\122\061\017\060\015\006\003\125\004\007\023\006  
\101\156\153\141\162\141\061\031\060\027\006\003\125\004\012\023  
\020\105\055\124\165\147\162\141\040\105\102\107\040\101\056\123  
\056\061\035\060\033\006\003\125\004\013\023\024\105\055\124\165  
\147\162\141\040\124\162\165\163\164\040\103\145\156\164\145\162  
\061\046\060\044\006\003\125\004\003\023\035\105\055\124\165\147  
\162\141\040\107\154\157\142\141\154\040\122\157\157\164\040\103  
\101\040\122\123\101\040\166\063\060\202\002\042\060\015\006\011  
\052\206\110\206\367\015\001\001\001\005\000\003\202\002\017\000  
\060\202\002\012\002\202\002\001\000\242\146\360\211\267\162\173  
\356\011\311\143\322\323\103\335\136\303\246\204\070\112\361\215  
\201\273\024\275\107\350\100\027\363\075\303\170\105\162\246\056  
\220\336\232\072\324\040\161\312\274\237\035\113\227\012\307\061  
\272\076\327\376\045\251\052\216\066\364\321\057\307\267\251\135  
\063\334\060\160\370\100\154\113\262\246\061\141\321\064\074\075  
\061\172\307\257\304\247\247\204\341\227\244\350\113\366\027\174  
\356\074\007\355\342\212\127\334\266\373\370\103\045\120\352\047  
\201\250\206\274\217\122\112\226\072\140\032\226\273\375\163\364  
\205\375\203\375\177\204\155\064\154\177\152\267\113\001\003\277

\255\151\267\327\062\331\365\127\152\351\206\202\076\245\146\061  
\263\026\075\302\363\046\140\062\323\122\036\260\154\244\067\076  
\364\365\257\353\341\337\200\006\317\052\101\347\146\011\341\113  
\227\347\167\275\041\155\051\266\147\303\055\176\355\326\171\145  
\321\317\072\266\321\261\136\126\141\120\172\132\316\116\120\061  
\200\003\230\107\347\344\030\174\104\132\306\244\263\073\306\306  
\303\072\360\154\303\213\310\244\221\005\363\365\331\266\252\006  
\241\267\253\344\261\352\041\024\134\203\244\374\377\266\120\323  
\214\022\046\231\166\160\351\300\017\246\164\374\273\320\033\170  
\316\162\222\342\050\234\274\346\351\011\330\072\323\211\346\276  
\056\167\337\001\012\157\226\366\345\215\074\115\122\166\032\126  
\341\163\176\027\254\075\255\154\243\122\022\030\160\346\200\116  
\063\362\176\046\062\254\005\215\070\244\346\166\074\237\020\151  
\016\155\235\322\301\171\040\153\133\317\063\215\321\224\166\065  
\347\135\125\307\267\254\050\253\106\314\347\073\041\265\012\012  
\344\112\131\334\201\065\113\104\225\022\012\147\245\241\377\133  
\000\007\322\300\314\371\077\374\237\063\362\000\370\214\154\207  
\235\006\055\361\357\343\346\006\372\305\146\023\133\374\120\007  
\236\161\206\262\332\157\164\060\317\223\123\350\334\042\326\336  
\040\037\141\215\243\056\243\170\062\220\154\334\254\062\265\005  
\344\365\074\063\015\326\340\207\167\027\114\235\260\330\011\250  
\015\127\367\104\205\360\310\004\276\134\135\132\343\027\216\124  
\143\151\177\111\164\144\005\214\243\002\003\001\000\001\243\143  
\060\141\060\017\006\003\125\035\023\001\001\377\004\005\060\003  
\001\001\377\060\037\006\003\125\035\043\004\030\060\026\200\024  
\262\264\256\346\055\367\046\325\252\165\055\166\113\300\033\123  
\041\320\110\357\060\035\006\003\125\035\016\004\026\004\024\262  
\264\256\346\055\367\046\325\252\165\055\166\113\300\033\123\041  
\320\110\357\060\016\006\003\125\035\017\001\001\377\004\004\003  
\002\001\006\060\015\006\011\052\206\110\206\367\015\001\001\013  
\005\000\003\202\002\001\000\211\250\162\177\214\353\316\056\030  
\304\020\200\055\020\014\377\373\024\315\004\340\024\074\116\232  
\373\237\051\277\042\236\127\271\202\163\022\143\046\265\314\220  
\351\322\052\051\356\234\055\314\054\231\276\105\047\344\261\161  
\355\344\070\225\061\101\362\175\172\143\170\337\312\066\026\057  
\202\210\237\274\021\107\117\166\115\310\055\216\353\337\055\174  
\116\073\332\256\366\343\332\135\024\246\256\350\205\104\235\006  
\156\216\373\357\172\112\152\055\053\050\030\376\277\220\054\165  
\026\237\017\352\226\175\005\356\233\023\245\104\154\370\003\320  
\335\043\341\375\003\022\022\010\364\030\064\263\340\067\013\167  
\021\001\110\277\141\264\265\370\031\331\313\115\352\243\214\357  
\375\360\006\265\155\222\364\112\141\120\204\355\354\111\323\344  
\276\150\346\056\343\061\013\124\013\032\222\326\202\330\266\242  
\145\074\146\004\371\125\332\154\373\333\265\024\146\115\224\203  
\073\315\036\246\053\262\376\167\100\206\253\347\337\012\311\375  
\366\335\207\126\030\330\260\054\125\140\226\372\010\176\122\220  
\365\113\246\056\207\174\313\040\333\006\076\240\135\003\167\175  
\242\074\023\033\051\242\023\125\240\075\024\042\257\157\270\320

```
\232\033\162\335\005\001\215\206\140\277\244\147\356\265\245\015
\321\177\346\032\053\142\146\303\007\272\347\240\110\034\070\303
\351\105\373\247\177\374\355\002\150\032\312\167\022\167\246\000
\125\050\024\354\326\307\022\242\033\145\102\351\221\350\313\076
\207\211\124\135\331\257\235\227\234\151\347\012\377\017\132\170
\213\143\052\114\175\107\224\077\336\113\351\123\320\060\361\305
\366\236\111\337\073\240\221\243\243\376\315\130\314\352\337\257
\157\050\073\240\151\233\217\354\254\256\053\124\235\233\004\261
\107\040\257\226\022\076\143\224\035\004\347\056\273\206\307\014
\232\210\277\166\107\357\367\260\013\227\146\322\104\317\140\122
\007\341\325\054\112\072\047\141\167\312\327\217\347\207\016\060
\377\014\273\004\342\141\303\242\310\227\141\216\264\060\152\074
\155\302\007\137\112\163\057\077\371\026\212\001\146\357\272\221
\312\122\127\173\256\324\346\017\335\013\172\177\213\236\046\040
\317\073\357\201\161\203\131
```

END

CKA\_NSS\_Mozilla\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "E-Tugra Global Root CA RSA v3"

# Issuer: CN=E-Tugra Global Root CA RSA v3,OU=E-Tugra Trust Center,O=E-Tugra EBG A.S.,L=Ankara,C=TR

# Serial Number:0d:4d:c5:cd:16:22:95:96:08:7e:b8:0b:7f:15:06:34:fb:79:10:34

# Subject: CN=E-Tugra Global Root CA RSA v3,OU=E-Tugra Trust Center,O=E-Tugra EBG  
A.S.,L=Ankara,C=TR

# Not Valid Before: Wed Mar 18 09:07:17 2020

# Not Valid After : Sun Mar 12 09:07:17 2045

# Fingerprint (SHA-256):

EF:66:B0:B1:0A:3C:DB:9F:2E:36:48:C7:6B:D2:AF:18:EA:D2:BF:E6:F1:17:65:5E:28:C4:06:0D:A1:A3:F4:C2

# Fingerprint (SHA1): E9:A8:5D:22:14:52:1C:5B:AA:0A:B4:BE:24:6A:23:8A:C9:BA:E2:A9

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "E-Tugra Global Root CA RSA v3"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

```
\351\250\135\042\024\122\034\133\252\012\264\276\044\152\043\212
\311\272\342\251
```

END

CKA\_CERT\_MD5\_HASH

MULTILINE\_OCTAL

```
\042\276\020\366\302\370\003\210\163\137\063\051\107\050\107\244
```

END

CKA\_ISSUER MULTILINE\_OCTAL

```
\060\201\200\061\013\060\011\006\003\125\004\006\023\002\124\122
\061\017\060\015\006\003\125\004\007\023\006\101\156\153\141\162
\141\061\031\060\027\006\003\125\004\012\023\020\105\055\124\165
```

```
\147\162\141\040\105\102\107\040\101\056\123\056\061\035\060\033
\006\003\125\004\013\023\024\105\055\124\165\147\162\141\040\124
\162\165\163\164\040\103\145\156\164\145\162\061\046\060\044\006
\003\125\004\003\023\035\105\055\124\165\147\162\141\040\107\154
\157\142\141\154\040\122\157\157\164\040\103\101\040\122\123\101
\040\166\063
```

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

```
\002\024\015\115\305\315\026\042\225\226\010\176\270\013\177\025
\006\064\373\171\020\064
```

END

CKA\_TRUST\_SERVER\_AUTH CK\_TRUST CKT\_NSS\_TRUSTED\_DELEGATOR

CKA\_TRUST\_EMAIL\_PROTECTION CK\_TRUST CKT\_NSS\_MUST\_VERIFY\_TRUST

CKA\_TRUST\_CODE\_SIGNING

CK\_TRUST CKT\_NSS\_MUST\_VERIFY\_TRUST

CKA\_TRUST\_STEP\_UP\_APPROVED CK\_BBOOL CK\_FALSE

#

# Certificate "E-Tugra Global Root CA ECC v3"

#

# Issuer: CN=E-Tugra Global Root CA ECC v3,OU=E-Tugra Trust Center,O=E-Tugra EBG A.S.,L=Ankara,C=TR

# Serial Number:26:46:19:77:31:e1:4f:6f:28:36:de:39:51:86:e6:d4:97:88:22:c1

# Subject: CN=E-Tugra Global Root CA ECC v3,OU=E-Tugra Trust Center,O=E-Tugra EBG  
A.S.,L=Ankara,C=TR

# Not Valid Before: Wed Mar 18 09:46:58 2020

# Not Valid After : Sun Mar 12 09:46:58 2045

# Fingerprint (SHA-256):

87:3F:46:85:FA:7F:56:36:25:25:2E:6D:36:BC:D7:F1:6F:C2:49:51:F2:64:E4:7E:1B:95:4F:49:08:CD:CA:13

# Fingerprint (SHA1): 8A:2F:AF:57:53:B1:B0:E6:A1:04:EC:5B:6A:69:71:6D:F6:1C:E2:84

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_CERTIFICATE

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "E-Tugra Global Root CA ECC v3"

CKA\_CERTIFICATE\_TYPE CK\_CERTIFICATE\_TYPE CKC\_X\_509

CKA\_SUBJECT MULTILINE\_OCTAL

```
\060\201\200\061\013\060\011\006\003\125\004\006\023\002\124\122
\061\017\060\015\006\003\125\004\007\023\006\101\156\153\141\162
\141\061\031\060\027\006\003\125\004\012\023\020\105\055\124\165
\147\162\141\040\105\102\107\040\101\056\123\056\061\035\060\033
\006\003\125\004\013\023\024\105\055\124\165\147\162\141\040\124
\162\165\163\164\040\103\145\156\164\145\162\061\046\060\044\006
\003\125\004\003\023\035\105\055\124\165\147\162\141\040\107\154
\157\142\141\154\040\122\157\157\164\040\103\101\040\105\103\103
\040\166\063
```

END

CKA\_ID

UTF8 "0"

CKA\_ISSUER MULTILINE\_OCTAL

\060\201\200\061\013\060\011\006\003\125\004\006\023\002\124\122  
\061\017\060\015\006\003\125\004\007\023\006\101\156\153\141\162  
\141\061\031\060\027\006\003\125\004\012\023\020\105\055\124\165  
\147\162\141\040\105\102\107\040\101\056\123\056\061\035\060\033  
\006\003\125\004\013\023\024\105\055\124\165\147\162\141\040\124  
\162\165\163\164\040\103\145\156\164\145\162\061\046\060\044\006  
\003\125\004\003\023\035\105\055\124\165\147\162\141\040\107\154  
\157\142\141\154\040\122\157\157\164\040\103\101\040\105\103\103  
\040\166\063

END

CKA\_SERIAL\_NUMBER

MULTILINE\_OCTAL

\002\024\046\106\031\167\061\341\117\157\050\066\336\071\121\206  
\346\324\227\210\042\301

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\002\245\060\202\002\052\240\003\002\001\002\002\024\046  
\106\031\167\061\341\117\157\050\066\336\071\121\206\346\324\227  
\210\042\301\060\012\006\010\052\206\110\316\075\004\003\003\060  
\201\200\061\013\060\011\006\003\125\004\006\023\002\124\122\061  
\017\060\015\006\003\125\004\007\023\006\101\156\153\141\162\141  
\061\031\060\027\006\003\125\004\012\023\020\105\055\124\165\147  
\162\141\040\105\102\107\040\101\056\123\056\061\035\060\033\006  
\003\125\004\013\023\024\105\055\124\165\147\162\141\040\124\162  
\165\163\164\040\103\145\156\164\145\162\061\046\060\044\006\003  
\125\004\003\023\035\105\055\124\165\147\162\141\040\107\154\157  
\142\141\154\040\122\157\157\164\040\103\101\040\105\103\103\040  
\166\063\060\036\027\015\062\060\060\063\061\070\060\071\064\066  
\065\070\132\027\015\064\065\060\063\061\062\060\071\064\066\065  
\070\132\060\201\200\061\013\060\011\006\003\125\004\006\023\002  
\124\122\061\017\060\015\006\003\125\004\007\023\006\101\156\153  
\141\162\141\061\031\060\027\006\003\125\004\012\023\020\105\055  
\124\165\147\162\141\040\105\102\107\040\101\056\123\056\061\035  
\060\033\006\003\125\004\013\023\024\105\055\124\165\147\162\141  
\040\124\162\165\163\164\040\103\145\156\164\145\162\061\046\060  
\044\006\003\125\004\003\023\035\105\055\124\165\147\162\141\040  
\107\154\157\142\141\154\040\122\157\157\164\040\103\101\040\105  
\103\103\040\166\063\060\166\060\020\006\007\052\206\110\316\075  
\002\001\006\005\053\201\004\000\042\003\142\000\004\216\230\051  
\277\307\020\036\047\333\253\003\314\050\054\330\136\110\031\020  
\051\314\313\131\201\314\214\270\222\027\211\203\052\222\366\303  
\244\035\114\142\325\237\326\240\106\334\034\274\166\301\343\107  
\320\133\023\332\347\245\263\146\110\347\041\232\112\117\206\012  
\175\154\352\115\062\200\012\262\172\011\233\151\113\230\201\342  
\056\354\002\160\226\037\375\365\106\316\312\334\202\243\143\060  
\141\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001

```
\001\377\060\037\006\003\125\035\043\004\030\060\026\200\024\377
\202\061\162\076\371\304\146\154\255\070\236\321\260\121\210\245
\220\314\365\060\035\006\003\125\035\016\004\026\004\024\377\202
\061\162\076\371\304\146\154\255\070\236\321\260\121\210\245\220
\314\365\060\016\006\003\125\035\017\001\001\377\004\004\003\002
\001\006\060\012\006\010\052\206\110\316\075\004\003\003\003\151
\000\060\146\002\061\000\346\005\130\151\141\345\055\312\015\313
\361\031\010\275\326\375\121\222\032\176\143\124\004\220\221\232
\065\221\071\231\372\007\251\146\223\272\310\150\324\212\077\372
\355\156\026\002\047\267\002\061\000\335\132\027\053\166\035\145
\102\226\246\254\135\212\171\126\330\212\033\337\232\336\137\307
\120\217\261\133\161\014\046\337\152\100\000\354\063\221\041\161
\276\150\344\043\244\331\255\241\067
```

END

CKA\_NSS\_Mozilla\_CA\_POLICY

CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "E-Tugra Global Root CA ECC v3"

# Issuer: CN=E-Tugra Global Root CA ECC v3,OU=E-Tugra Trust Center,O=E-Tugra EBG A.S.,L=Ankara,C=TR

# Serial Number:26:46:19:77:31:e1:4f:6f:28:36:de:39:51:86:e6:d4:97:88:22:c1

# Subject: CN=E-Tugra Global Root CA ECC v3,OU=E-Tugra Trust Center,O=E-Tugra EBG  
A.S.,L=Ankara,C=TR

# Not Valid Before: Wed Mar 18 09:46:58 2020

# Not Valid After : Sun Mar 12 09:46:58 2045

# Fingerprint (SHA-256):

87:3F:46:85:FA:7F:56:36:25:25:2E:6D:36:BC:D7:F1:6F:C2:49:51:F2:64:E4:7E:1B:95:4F:49:08:CD:CA:13

# Fingerprint (SHA1): 8A:2F:AF:57:53:B1:B0:E6:A1:04:EC:5B:6A:69:71:6D:F6:1C:E2:84

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "E-Tugra Global Root CA ECC v3"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

```
\212\057\257\127\123\261\260\346\241\004\354\133\152\151\161\155
\366\034\342\204
```

END

CKA\_CERT\_MD5\_HASH

MULTILINE\_OCTAL

```
\106\274\201\273\361\265\036\367\113\226\274\024\342\347\047\144
```

END

CKA\_ISSUER MULTILINE\_OCTAL

```
\060\201\200\061\013\060\011\006\003\125\004\006\023\002\124\122
\061\017\060\015\006\003\125\004\007\023\006\101\156\153\141\162
\141\061\031\060\027\006\003\125\004\012\023\020\105\055\124\165
\147\162\141\040\105\102\107\040\101\056\123\056\061\035\060\033
\006\003\125\004\013\023\024\105\055\124\165\147\162\141\040\124
```

```
\162\165\163\164\040\103\145\156\164\145\162\061\046\060\044\006
\003\125\004\003\023\035\105\055\124\165\147\162\141\040\107\154
\157\142\141\154\040\122\157\157\164\040\103\101\040\105\103\103
\040\166\063
```

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

```
\002\024\046\106\031\167\061\341\117\157\050\066\336\071\121\206
\346\324\227\210\042\301
```

END

CKA\_TRUST\_SERVER\_AUTH CK\_TRUST CKT\_NSS\_TRUSTED\_DELEGATOR

CKA\_TRUST\_EMAIL\_PROTECTION CK\_TRUST CKT\_NSS\_MUST\_VERIFY\_TRUST

CKA\_TRUST\_CODE\_SIGNING CK\_TRUST

CKT\_NSS\_MUST\_VERIFY\_TRUST

CKA\_TRUST\_STEP\_UP\_APPROVED CK\_BBOOL CK\_FALSE

Found in path(s):

```
* /opt/cola/permits/1538589024_1681232081.9126525/0/ca-certificates-bundle-20220614-r4-tar-gz/ca-
certificates/ca-certificates-20220614-tar-bz2/ca-certificates-20220614/certdata.txt
```

No license file was found, but licenses were detected in source scan.

```
/* c_rehash.c - Create hash symlinks for certificates
```

```
* C implementation based on the original Perl and shell versions
```

```
*
```

```
* Copyright (c) 2013-2014 Timo Teräs <timo.teras@iki.fi>
```

```
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```

```
*
```

```
* This software is licensed under the MIT License.
```

```
* Full license available at: http://opensource.org/licenses/MIT
```

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1538589024_1681232081.9126525/0/ca-certificates-bundle-20220614-r4-tar-gz/ca-
certificates/ca-certificates-20220614-tar-bz2/ca-certificates-20220614/c_rehash.c
```

## 1.398 musl-utils 1.2.3-r4

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-----  
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative

work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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# 1.401 robot-infra-utils 1.0.2- 0.20221209050430-08312f1d185d

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative

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\* <http://viewvc.jboss.org/cgi-bin/viewvc.cgi/jboss/cache/experimental/jsr166/>

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package ssh
import (
 dao "github3.cisco.com/ROBOT/infra-utils/golang/nso/dao/impl"
)
type Smart_license struct {
 dao.Dao
 Development_mode bool `json:"development-mode,omitempty"`
}
func (e *Smart_license) GetDevelopment_mode() bool {
 e.Conn_.GET(e)
 return e.Development_mode
}

func (e *Smart_license) SetDevelopment_mode(v bool) {
 e.Development_mode = v
}
```



```
}
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# 1.402 robot-robot-api 0.0.0-20221212024215-203005be40da

## 1.402.1 Available under license :

# 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

[cwztpsvc-ZtpLicenseDevice](#)

### 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<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) |  
# 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)

[cw\\_ztp\\_license\\_device\\_v2-PROTO](#)  
[Top](#)

## ## cw\_ztp\_license\_device\_v2.proto

[cwztpsvc-ZtpLicenseDeviceV2](#)

### ### 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  |       |
|-------------|-------|--------|--------|--------|-------|---------|--------|-------|-------|
| double      |       | double | double | double | float | float64 | double | float | Float |
| float       |       | float  | float  | float  | float | float32 | float  | float |       |

```

Float |
| 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) |
| 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 |
| uint32 | Uses variable-length encoding. | uint32 | int | int/long | uint32 | uint | integer | Bignum
or Fixnum (as required) |
| uint64 | Uses variable-length encoding. | uint64 | long | int/long | uint64 | ulong | integer/string
| Bignum or Fixnum (as required) |
| 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) |
| 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 |
| 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) |
| 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 |
| sfixed32 | Always four bytes. | int32 | int | int | int32 | int | integer | Bignum or Fixnum (as
required) |
| sfixed64 | Always eight bytes. | int64 | long | int/long | int64 | long | integer/string | Bignum |
| bool | | bool | boolean | boolean | bool | bool | boolean | TrueClass/FalseClass
|
| string | A string must always contain UTF-8 encoded or 7-bit ASCII text. | string | String |
str/unicode | string | string | string | String (UTF-8) |
| 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), "cwztpsvc.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

Table of Contents

- [cw_ztp_license.proto](#cw_ztp_license-proto)
- [ZtpLicense](#cwztpsvc-ZtpLicense)

- [Scalar Value Types](#scalar-value-types)

```

```

<p align="right">Top</p>
```

```
cw_ztp_license.proto
```

```

```

```
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 | double   | float  | float64 | double                                   | float   Float |
| <a name="float" /> 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) |               |

```

| uint64 | Uses variable-length encoding. | uint64 | long | int/long | uint64 | ulong | integer/string
| Bignum or Fixnum (as required) |
| 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) |
| 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 |
| 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) |
| 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 |
| sfixed32 | Always four bytes. | int32 | int | int | int32 | int | integer | Bignum or Fixnum (as
required) |
| sfixed64 | Always eight bytes. | int64 | long | int/long | int64 | long | integer/string | Bignum |
| bool | | bool | boolean | boolean | bool | bool | boolean | TrueClass/FalseClass |
| string | A string must always contain UTF-8 encoded or 7-bit ASCII
text. | string | String | str/unicode | string | string | string | String (UTF-8) |
| 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.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 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,
}

// Code generated by protoc-gen-go. DO NOT EDIT.
// source: cw_ztp_license_device.proto

package cwwztpsvc

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, 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,
}

```

## 1.403 htop 3.2.1-r1

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<signature of Ty Coon>, 1 April 1989

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## 1.405 mitchellh-mapstructure 1.4.1

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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.

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## 1.417 mattn-go-isatty 0.0.12

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# 1.421 alecthomas-template 0.0.0-20190718012654-fb15b899a751

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## 1.422 philhofer-fwd 1.0.0

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## 1.423 golang 1.20.2

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## 1.424 urllib3 1.26.15

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## 1.425 curl 7.88.1-r1

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## 1.431 wheel 0.40.0

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## 1.433 nkeys 0.4.4

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## 1.434 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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## 20180606152119-120387863bf2

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Started this project and maintained it.

Andrew Brampton 2017

Merged in multiple upstream fixes/changes.

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## 1.437 gosnmp 1.32.0

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```

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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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```

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```
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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bzip2/libbzip2 version 1.0.8 of 13 July 2019

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## 1.449 libunistring 1.1-r1

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```
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The hypothetical commands

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```
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Julian Seward, [jseward@bzip.org](mailto:jseward@bzip.org)  
bzip2/libbzip2 version 1.0.6 of 6 September 2010



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Version 2.1, February 1999

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Any

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Version 3.1, 31 March 2009

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include/bsd/vis.h  
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  
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src/closefrom.c  
src/freezero.c  
src/getentropy\_aix.c  
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src/getentropy\_win.c  
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man/sha1.3

man/sha2.3

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Written by: Philip Hazel  
Email local part: Philip.Hazel  
Email domain: gmail.com

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Source: <http://www.openbsd.org/cgi-bin/cvsweb/src/usr.bin/nc/>

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```

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<signature of Ty Coon>, 1 April 1989
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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## 1.466 py3-packaging-pyc 23.1-r1

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## 1.467 python-setuptools 67.7.2

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# 1.469 chardet 5.1.0

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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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-- \$Id: COPYING,v 1.12 2023/01/07 17:55:53 tom Exp \$  
Upstream source <https://invisible-island.net/ncurses/Ada95.html>

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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

# 1.473 xz 5.4.3-r0

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```
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```

```
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## 1.474 apk-tools 2.14.0-r2

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```
set xrange [0:]
```

```
set terminal pngcairo font 'Sans, 8' lw 1 size 1400,1024
```

```
set xtics rotate by -45
```

```
set style histogram errorbars gap 2 lw 1
```

```
set style fill solid border -1
```

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## 1.476 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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@(#) \$RCSfile: certdata.txt,v

\$ \$Revision: 1.80 \$ \$Date: 2011/11/03 15:11:58 \$

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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  
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the various releases.

| Release        | Derived<br>from | Year      | Owner | GPL-<br>compatible? (1) |
|----------------|-----------------|-----------|-------|-------------------------|
| 0.9.0 thru 1.2 |                 | 1991-1995 | CWI   | yes                     |
| 1.3 thru 1.5.2 | 1.2             | 1995-1999 | CNRI  | yes                     |
| 1.6            | 1.5.2           | 2000      | CNRI  | no                      |

|       |           |           |            |         |
|-------|-----------|-----------|------------|---------|
| 2.0   | 1.6       | 2000      | BeOpen.com | no      |
| 1.6.1 | 1.6       | 2001      | CNRI       | yes (2) |
| 2.1   | 2.0+1.6.1 | 2001      | PSF        | no      |
| 2.0.1 | 2.0+1.6.1 | 2001      | PSF        | yes     |
| 2.1.1 | 2.1+2.0.1 | 2001      | PSF        | yes     |
| 2.2   | 2.1.1     | 2001      | PSF        | yes     |
| 2.1.2 | 2.1.1     | 2002      | PSF        | yes     |
| 2.1.3 |           |           |            |         |
| 2.1.2 | 2002      | PSF       | yes        |         |
| 2.2.1 | 2.2       | 2002      | PSF        | yes     |
| 2.2.2 | 2.2.1     | 2002      | PSF        | yes     |
| 2.2.3 | 2.2.2     | 2003      | PSF        | yes     |
| 2.3   | 2.2.2     | 2002-2003 | PSF        | yes     |
| 2.3.1 | 2.3       | 2002-2003 | PSF        | yes     |
| 2.3.2 | 2.3.1     | 2002-2003 | PSF        | yes     |
| 2.3.3 | 2.3.2     | 2002-2003 | PSF        | yes     |
| 2.3.4 | 2.3.3     | 2004      | PSF        | yes     |
| 2.3.5 | 2.3.4     | 2005      | PSF        | yes     |
| 2.4   | 2.3       | 2004      | PSF        | yes     |
| 2.4.1 | 2.4       | 2005      | PSF        | yes     |
| 2.4.2 | 2.4.1     | 2005      | PSF        | yes     |
| 2.4.3 | 2.4.2     | 2006      | PSF        | yes     |
| 2.4.4 | 2.4.3     | 2006      | PSF        | yes     |
| 2.5   | 2.4       | 2006      | PSF        | yes     |
| 2.5.1 | 2.5       | 2007      | PSF        | yes     |
| 2.5.2 | 2.5.1     | 2008      | PSF        | yes     |
| 2.5.3 | 2.5.2     | 2008      | PSF        | yes     |
| 2.6   | 2.5       | 2008      | PSF        | yes     |
| 2.6.1 | 2.6       | 2008      | PSF        | yes     |
| 2.6.2 | 2.6.1     | 2009      | PSF        | yes     |
| 2.6.3 | 2.6.2     | 2009      | PSF        | yes     |
| 2.6.4 | 2.6.3     | 2009      | PSF        | yes     |
| 2.6.5 | 2.6.4     | 2010      | PSF        | yes     |
| 3.0   | 2.6       | 2008      | PSF        | yes     |
| 3.0.1 | 3.0       | 2009      | PSF        | yes     |
| 3.1   | 3.0.1     | 2009      | PSF        | yes     |
| 3.1.1 | 3.1       | 2009      | PSF        | yes     |
| 3.1.2 | 3.1       | 2010      | PSF        | yes     |
| 3.2   | 3.1       | 2010      | PSF        | yes     |

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see <https://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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| 0.9.0 thru 1.2 |              | 1991-1995 | CWI        | yes                 |
| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                 |
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
| 2.1.2          | 2.1.1        | 2002      | PSF        | yes                 |
| 2.1.3          | 2.1.2        | 2002      | PSF        | yes                 |
| 2.2 and above  | 2.1.1        | 2001-now  |            |                     |

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## 1.478 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`

## 1.479 libpanelw 6.4\_p20230506-r0

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-- vile: txtmode file-encoding=utf-8

## 1.480 libc6-compat 1.2.4-r0

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## 1.481 py3-setuptools-pyc 67.7.2-r0

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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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The code contained in this directory was automatically generated using the following command:

```
python -m validate_pyproject.pre_compile --output-dir=setuputils/config/_validate_pyproject --enable-plugins
setuputils.distutils --very-verbose
```

Please avoid changing it manually.

You can report issues or suggest changes directly to `validate-pyproject` (or to the relevant plugin repository)

- <https://github.com/abralvalheri/validate-pyproject/issues>

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- `fastjsonschema\_exceptions.py`:
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```
`fastjsonschema`
=====
```

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`validate-pyproject`

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principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see <https://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
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## 1.482 py3-pip-pyc 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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@(#) \$RCSfile: certdata.txt,v

\$ \$Revision: 1.80 \$ \$Date: 2011/11/03 15:11:58 \$

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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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|----------------|--------------|-----------|------------|---------------------|
| 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 |
| 2.7   | 2.6   | 2010      | PSF | yes |

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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                 |
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| 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                 |
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| 2.2.3          | 2.2.2        | 2003      | PSF        | yes                 |
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| 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                 |
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| 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 |
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## History

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Before (and including) argparse 1.1, the argparse package was licensed under Apache License v2.0.

After argparse 1.1, all project files from the argparse project were deleted due to license compatibility issues between Apache License 2.0 and GNU GPL v2.

The project repository then had a clean start with some files taken from Python 2.7.1, so definitely all files are under Python License now.

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see <https://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

All

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| Release        | Derived from | Year      | Owner      | GPL-compatible? (1) |
|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 |              | 1991-1995 | CWI        | yes                 |
| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |



|               |           |          |      |         |
|---------------|-----------|----------|------|---------|
| 1.6.1         | 1.6       | 2001     | CNRI | yes (2) |
| 2.1           | 2.0+1.6.1 | 2001     | PSF  | no      |
| 2.0.1         | 2.0+1.6.1 | 2001     | PSF  | yes     |
| 2.1.1         | 2.1+2.0.1 | 2001     | PSF  | yes     |
| 2.1.2         | 2.1.1     | 2002     | PSF  | yes     |
| 2.1.3         | 2.1.2     | 2002     | PSF  | yes     |
| 2.2 and above | 2.1.1     | 2001-now |      |         |
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```
* /opt/cola/permits/1678090724_1684323555.0076678/0/posixtz-0-5-tar-xz/posixtz-0.5/posixtz.c
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## 1.485 autorestore 0.5.3

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## 1.488 sirupsen-logrus 1.8.1

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iconv:

iconv.c

Implementation of SUSv4 XCU iconv utility

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## 1.492 ncurses-libs 6.3\_p20221119-r0

### 1.492.1 Available under license :

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Current ncurses maintainer: Thomas Dickey <[dickey@invisible-island.net](mailto:dickey@invisible-island.net)>

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-- vile:txtmode fc=72  
-- \$Id: COPYING,v 1.10 2021/01/01 09:54:30 tom Exp \$  
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Upstream source <https://invisible-island.net/ncurses/ncurses-examples.html>

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## 1.493 ca-certificates-bundle 20230506-r0

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```
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```

Found in path(s):

```
* /opt/cola/permits/1679450782_1685340861.071418/0/ca-certificates-20230506-tar-bz2/ca-certificates-20230506/mk-ca-bundle.pl
```

No license file was found, but licenses were detected in source scan.

```
/* c_rehash.c - Create hash symlinks for certificates
* C implementation based on the original Perl and shell versions
*
```

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\*/

Found in path(s):

\* /opt/cola/permits/1679450782\_1685340861.071418/0/ca-certificates-20230506-tar-bz2/ca-certificates-20230506/c\_rehash.c

# 1.494 libgcc 12.2.1\_git20220924-r4

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<one line to give the program's name and a brief idea of what it does.>  
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```
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under certain conditions; type `show c' for details.
```

The hypothetical commands

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```
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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Julian Seward, [jseward@bzip.org](mailto:jseward@bzip.org)  
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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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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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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Any

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## 1.505 go-uber-org-zap 1.16.0

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## 1.507 githubcommiekgdns 1.1.41

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# 1.516 go.etcd.io/etcd/client/pkg/v3 3.5.4

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## 1.521 brotli 1.0.4

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## 1.522 github.com/xwb1989/sqlparser 0.0.0-20180606152119-120387863bf2

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\* @(#)queue.h 8.5 (Berkeley) 8/20/94

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# 1.524 urllib3 1.26.16

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@item

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@subheading END OF TERMS AND CONDITIONS

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@smallexample

@var{one line to give the library's name and an idea of what it does.}

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@end  
smallexample

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@var{signature of Ty Coon}, 1 April 1990  
Ty Coon, President of Vice  
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@page

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```
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@var{one line to give the program's name
and a brief idea of what it does.}
Copyright (C) @var{yyyy} @var{name of author}
```

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@end smallexample

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```
@smallexample
Gnomovision version
69, Copyright (C) @var{year} @var{name of author}
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
@end smallexample
```

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```
@example
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

```
@var{signature of Ty Coon}, 1 April 1989
```

Ty Coon, President of Vice  
@end example

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- the libintl.jar Java library,
- the GNU.Gettext.dll C# library,
- the gettext.sh shells script function library.

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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

allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

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"Source code" for a work means the preferred form of the work for

making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) The modified work must itself be a software library.
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- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.



(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or

derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.  
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6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a

work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the

Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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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7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand

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#### 1. Source Code.

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The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A

"Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

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# 1.526 python-requests 2.31.0

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* usage: mkmntdirs [fstab]
*
*/
```

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`/opt/cola/permits/1690300026_1684996389.3603017/0/alpine-baselayout-master-zip/alpine-baselayout-master/src/mkmntdirs.c`

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bzip2/libbzip2 version 1.0.4 of 20 December 2006

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```
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```

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```
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```

```
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Ty Coon, President of Vice
@end example
```

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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## 1.533 scanelf 1.3.7-r1

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```

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## 1.534 libcurl 8.1.2-r0

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Version 3.1, 31 March 2009

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To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>

Copyright (C) <year> <name of author>

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Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

The hypothetical commands

`show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

<signature of Ty Coon>, 1 April 1989

Ty Coon, President of Vice

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consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

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Julian Seward, jseward@bzip.org  
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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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 allowed to use the library. A more frequent case is that a free

library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means

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(For example, a function in a library to compute square roots has

a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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- c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
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Ty Coon, President of Vice

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Any

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Version 3.1, 31 March 2009

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zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.2.11, January 15th, 2017

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Jean-loup Gailly      Mark Adler  
 jloup@gzip.org      madler@alumni.caltech.edu

-----

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\*

\*/

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## 1.538 [github.com/aws/aws-sdk-go-v2/feature/s3/manager](https://github.com/aws/aws-sdk-go-v2/feature/s3/manager) 1.7.1

## 1.538.1 Available under license :

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
 params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 // - Beneficiary
 // - ProductSKU
 // - Fingerprint
 //
 // - Status
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32
}
```

```

// Token for the next set of results.
NextToken *string

noSmithyDocumentSerde
}

type ListLicensesOutput struct {

// License details.
Licenses []types.License

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
}

```

```

if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "ListLicenses",
 }
}

```

// Code generated by smithy-go-codegen DO NOT EDIT.

```
package licensemanager
```



```

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
 params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide to ensure
 the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Configuration for consumption of the license. Choose a provisional
 // configuration for workloads running with continuous connectivity. Choose a
 // borrow configuration for workloads with offline usage.
 //
 // This member is required.
 ConsumptionConfiguration *types.ConsumptionConfiguration

```

```

// License entitlements.
//
// This member is required.
Entitlements []types.Entitlement

// Home Region for the license.
//
// This member is required.
HomeRegion *string

// License issuer.
//
// This member is required.
Issuer *types.Issuer

// License name.
//
// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange

//
Information about the license.
LicenseMetadata []types.Metadata

noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

```

```

// License status.
Status types.LicenseStatus

// License version.
Version *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack);
 err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
}

```

```

}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil
{
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CreateLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"

```

```

"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
 params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier that you
 // provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see RFC 7518 Digital Signature with
 // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5) .
 //
 // This member is required.
 DigitalSignatureMethod types.DigitalSignatureMethod

 // License entitlements. Partial checkouts are not supported.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Amazon Resource Name (ARN) of the license. The license must use the borrow
 // consumption configuration.
 //

```

```

// This member is required.
LicenseArn *string

// Information about constraints.
CheckoutMetadata []types.Metadata

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

// Information about constraints.
CheckoutMetadata []types.Metadata

// Allowed license entitlements.
EntitlementsAllowed
[]types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{ }, middleware.After)

```

```

if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{ }, middleware.After)
if err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
 return err
}
if

```

```

err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CheckoutBorrowLicense",
}
}

```

AWS SDK for Go

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name: License Scan

on: [pull\_request]

jobs:

licensescan:

name: License Scan

runs-on: ubuntu-latest

strategy:

matrix:

python-version: [3.9]

steps:

- name: Checkout target

uses: actions/checkout@v2

with:

path: sdkbase



```

 ref: ${ { github.base_ref } }
- name: Checkout this ref
 uses: actions/checkout@v2
 with:
 path: new-ref
 fetch-depth: 0
- name: Get Diff
 run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${ { github.event.pull_request.base.sha } }
${ { github.sha } } > refDiffFiles.txt
- name: Get Target Files
 run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
- name: Checkout scancode
 uses: actions/checkout@v2
 with:
 repository: nexB/scancode-toolkit
 path: scancode-toolkit
 fetch-depth: 1
- name: Set up Python ${ { matrix.python-version } }
 uses: actions/setup-python@v2
 with:
 python-version: ${ { matrix.python-version } }
ScanCode
- name: Self-configure scancode
 working-directory: ./scancode-toolkit
 run: ./scancode --help
- name: Run Scan code on target
 run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
- name: Run Scan code on pr ref
 run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
compare
- name: License test
 run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

```

```
package licensemanager
```

```

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

```

```

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
if params == nil {
params = &ListReceivedLicensesInput{}
}

result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
if err != nil {
return nil, err
}

out := result.(*ListReceivedLicensesOutput)
out.ResultMetadata = metadata
return out, nil
}

type ListReceivedLicensesInput struct {

// Filters to scope the results. The following filters are supported:
//
- ProductSKU
// - Status
// - Fingerprint
// - IssuerName
// - Beneficiary
Filters []types.Filter

// Amazon Resource Names (ARNs) of the licenses.
LicenseArns []string

// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string

noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

// Received license details.
Licenses []types.GrantedLicense

// Token for the next set of results.
NextToken *string

```

```

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{ }, middleware.After)
if err != nil {
return err
}
if
err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack, options); err != nil {
return err
}
}

```

```

if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil
{
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "ListReceivedLicenses",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

```

```

package licensemanager

```

```

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

```

```

// Checks out the specified license. If the account that created the license is
// the same that is performing the check out, you must specify the account as the
// beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
 params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type
CheckoutLicenseInput struct {

 // Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Key fingerprint identifying the license.
 //
 // This member is required.
 KeyFingerprint *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

```

```

// License beneficiary.
Beneficiary *string

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

// Checkout type.
CheckoutType types.CheckoutType

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name
(ARN) of the checkout license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{ }, middleware.After)
if err != nil {
return err
}
}

```

```

err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{ }, middleware.After)
if err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return
err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
 return err
}
}

```

```

if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err
= addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CheckoutLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
 params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
 return nil, err
 }
}

```



```

}

out := result.(*CheckInLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary
 *string

 noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
}

```

```

}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack,
options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack);
err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
return &awsmiddleware.RegisterServiceMetadata{
Region: region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "CheckInLicense",
}
}
{
"smithy": "2.0",
"shapes": {
"com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger": {
"type": "integer"
},
"com.amazonaws.licensemanagerlinuxsubscriptions#BoxLong": {
"type": "long"
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Filter": {
"type": "structure",
"members": {
"Name": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": "<p>The type of name to filter by.</p>"
}
},
"Values": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
"traits": {
"smithy.api#documentation": "<p>One or more values for the name to filter by.</p>"
}
},
"Operator": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Operator",
"traits": {
"smithy.api#documentation": "<p>An operator for filtering results.</p>"
}
}
},
"traits": {
"smithy.api#documentation": "<p>A filter object that is used to return more specific results from a describe operation.\n Filters can be used to match a set of resources by specific criteria.</p>"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#FilterList": {
"type": "list",

```

```

 "member": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Filter"
 }
 },
 "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettings": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerErrorException"
 },
 {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
 },
 {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Lists the Linux subscriptions service settings.</p>",
 "smithy.api#http": {
 "code": 200,
 "method": "POST",
 "uri": "/subscription/GetServiceSettings"
 },
 "smithy.api#idempotent": {}
 }
 },
 "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsRequest": {
 {
 "type": "structure",
 "members": {}
 },
 "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsResponse": {
 "type": "structure",
 "members": {
 "LinuxSubscriptionsDiscovery": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
 "traits": {
 "smithy.api#documentation": "<p>Lists if discovery has been enabled for Linux subscriptions.</p>"
 }
 }
 },
 }
 }
}

```

```

"LinuxSubscriptionsDiscoverySettings": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
 "traits": {
 "smithy.api#documentation": "<p>Lists the settings defined for Linux subscriptions discovery. The
settings include if\n Organizations integration has been enabled, and
which Regions data will be aggregated from.</p>"
 }
},
"Status": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Status",
 "traits": {
 "smithy.api#documentation": "<p>Indicates the status of Linux subscriptions settings being
applied.</p>"
 }
},
"StatusMessage": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap",
 "traits": {
 "smithy.api#documentation": "<p>A message which details the Linux subscriptions service settings
current status.</p>"
 }
},
"HomeRegions": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
 "traits": {
 "smithy.api#documentation": "<p>The Region in which License Manager displays
the aggregated data for Linux\n subscriptions.</p>"
 }
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Instance": {
 "type": "structure",
 "members": {
 "AmiId": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The AMI ID used to launch the instance.</p>"
 }
 },
 "InstanceID": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The instance ID of the resource.</p>"
 }
 },
 "InstanceType": {
 "target": "smithy.api#String",

```

```

 "traits": {
 "smithy.api#documentation": "<p>The instance type of the resource.</p>"
 }
 },
 "AccountID": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The account ID which owns the instance.</p>"
 }
 },
 "Status": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The status of the instance.</p>"
 }
 },
 "Region": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The Region the instance is running in.</p>"
 }
 },
 "UsageOperation": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The usage operation of the instance. For more information, see For
more information, see\n <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/linux-
subscriptions-usage-operation.html\">Usage\n operation values in the <i>License Manager User
Guide</i>.</p>"
 }
 },
 "ProductCode": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ProductCodeList",
 "traits": {
 "smithy.api#documentation": "<p>The product code for the instance. For more information, see <a
href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/linux-subscriptions-usage-
operation.html\">Usage\n operation values in the <i>License Manager User Guide</i> .</p>"
 }
 },
 "LastUpdatedTime": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The time in which the last discovery
updated the instance details.</p>"
 }
 },
 "SubscriptionName": {

```

```

 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The name of the subscription being used by the instance.</p>"
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>Details discovered information about a running instance using Linux
subscriptions.</p>"
 }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#InstanceList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Instance"
 }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerError": {
 "type": "structure",
 "members": {
 "message": {
 "target": "smithy.api#String"
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>An exception occurred with the service.</p>",
 "smithy.api#error": "server"
 }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#LicenseManagerLinuxSubscriptions": {
 "type": "service",
 "version": "2018-05-10",
 "operations": [
 {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettings"
 },
 {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstances"
 },
 {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptions"
 },
 {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettings"
 }
]
},

```

```

"traits": {
 "aws.api#service": {
 "sdkId": "License Manager Linux Subscriptions",
 "arnNamespace": "license-manager-linux-subscriptions",
 "cloudTrailEventSource": "license-manager-linux-subscriptions.amazonaws.com"
 },
 "aws.auth#sigv4": {
 "name": "license-manager-linux-subscriptions"
 },
 "aws.protocols#restJson1": {},
 "smithy.api#cors": {
 "additionalAllowedHeaders": [
 "*",
 "content-type",
 "x-amz-content-sha256",
 "x-amz-user-agent",
 "x-amzn-platform-id",
 "x-amzn-trace-id",
 "content-length",
 "x-api-key",
 "authorization",
 "x-amz-date",
 "x-amz-security-token",
 "Access-Control-Allow-Headers",
 "Access-Control-Allow-Methods",
 "Access-Control-Allow-Origin"
],
 "additionalExposedHeaders": [
 "x-amzn-errortype",
 "x-amzn-requestid",
 "x-amzn-trace-id"
]
 },
 "smithy.api#documentation": "<p>With License Manager, you can discover and track your commercial Linux subscriptions on running Amazon EC2 instances.</p>",
 "smithy.api#title": "AWS License Manager Linux Subscriptions",
 "smithy.rules#endpointRuleSet": {
 "version": "1.0",
 "parameters": {
 "Region": {
 "builtIn": "AWS::Region",
 "required": false,
 "documentation": "The AWS region used to dispatch the request.",
 "type": "String"
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 "UseDualStack": {

```



```

 "builtIn": "AWS::UseDualStack",
 "required": true,
 "default": false,
 "documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not
support dual-stack, dispatching the request MAY return an error.",
 "type": "Boolean"
 },
 "UseFIPS": {
 "builtIn": "AWS::UseFIPS",
 "required": true,
 "default": false,
 "documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the
configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",

"type": "Boolean"
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 "Endpoint": {
 "builtIn": "SDK::Endpoint",
 "required": false,
 "documentation": "Override the endpoint used to send this request",
 "type": "String"
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"rules": [
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 "conditions": [
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 "fn": "isSet",
 "argv": [
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 "ref": "Endpoint"
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]
 }
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"rules": [
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 "conditions": [
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 "fn": "booleanEquals",
 "argv": [
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 "ref": "UseFIPS"
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]
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]
 }
]

```

```

 }
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 "error": "Invalid Configuration: FIPS and custom endpoint are not supported",
 "type": "error"
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 "rules": [
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"conditions": [
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 "argv": [
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 "ref": "UseDualStack"
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 "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
 "type": "error"
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 "conditions": [],

"endpoint": {
 "url": {
 "ref": "Endpoint"
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 "properties": {},
 "headers": {}
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 "type": "endpoint"
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 "conditions": [],
 "type": "tree",
 "rules": [
 {
 "conditions": [
 {

```

```

 "fn": "isSet",
 "argv": [
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 "ref": "Region"
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"type": "tree",
"rules": [
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 "conditions": [
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 "fn": "aws.partition",
 "argv": [
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 "ref": "Region"
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"assign": "PartitionResult"
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"type": "tree",
"rules": [
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 "conditions": [
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 "fn": "booleanEquals",
 "argv": [
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 },
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 "fn": "booleanEquals",
 "argv": [
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 "ref": "UseDualStack"
 },
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],

```

```

"type": "tree",
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 "argv": [
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 "fn": "getAttr",
 "argv": [
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 "ref": "PartitionResult"
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 "supportsFIPS"
]
 }
]
 },
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 "fn": "booleanEquals",
 "argv": [
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 "fn": "getAttr",
 "argv": [
 {
 "ref": "PartitionResult"
 },
 "supportsDualStack"
]
 }
]
 }
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 "type": "tree",
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 "conditions": [],
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 "rules": [
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 "conditions": [],
 "endpoint": {

```

```

 "url": "https://license-manager-linux-subscriptions-
fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
 "properties": {},
 "headers": {}
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 "type": "endpoint"
}
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}
]
},
{
 "conditions": [],
 "error": "FIPS and DualStack are enabled, but this partition does not support
one or both",
 "type": "error"
}
],
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 "conditions": [
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 "fn": "booleanEquals",
 "argv": [
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 "ref": "UseFIPS"
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 "type": "tree",
 "rules": [
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 "conditions": [
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 "fn": "booleanEquals",
 "argv": [
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 "fn": "getAttr",
 "argv": [
 {
 "ref": "PartitionResult"
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]
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}

```

```

 "supportsFIPS"
]
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]
}
],
"type": "tree",

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 "conditions": [],
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 "headers": {}
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 "type": "endpoint"
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 "conditions": [],
 "error": "FIPS is enabled but this partition does not support FIPS",
 "type": "error"
}
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},

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 "conditions": [
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 "fn": "booleanEquals",
 "argv": [
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 "ref": "UseDualStack"
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]
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},
],

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"type": "tree",
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 "conditions": [
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 "fn": "booleanEquals",
 "argv": [
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 {
 "fn": "getAttr",
 "argv": [
 {
 "ref": "PartitionResult"
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 "supportsDualStack"
]
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 "rules": [
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 "conditions": [],
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 "rules": [
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 "conditions": [],

 "endpoint": {
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subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
 "properties": {},
 "headers": {}
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 "type": "endpoint"
 }
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 }
]
},

{
 "conditions": [],
 "error": "DualStack is enabled but this partition does not support DualStack",
 "type": "error"
}

```

```

]
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 "conditions": [],
 "type": "tree",
 "rules": [
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 "conditions": [],
 "endpoint": {
 "url":
"https://license-manager-linux-subscriptions.{Region}.{PartitionResult#dnsSuffix}",
 "properties": {},
 "headers": {}
 },
 "type": "endpoint"
 }
]
 }
]
 }
]
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{
 "conditions": [],
 "error": "Invalid Configuration: Missing Region",
 "type": "error"
}
]
}
]
},
"smithy.rules#endpointTests": {
 "testCases": [
 {
 "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-linux-subscriptions-fips.us-gov-east-1.api.aws"
 }
 },
 "params": {
 "UseDualStack": true,
 "UseFIPS": true,
 "Region": "us-gov-east-1"
 }
 },
 {
 "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",

```



```

"expect": {

"endpoint": {
 "url": "https://license-manager-linux-subscriptions-fips.us-gov-east-1.amazonaws.com"
}
},
"params": {
 "UseDualStack": false,
 "UseFIPS": true,
 "Region": "us-gov-east-1"
}
},
{
 "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack enabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-linux-subscriptions.us-gov-east-1.api.aws"
 }
 },
 "params": {
 "UseDualStack": true,

"UseFIPS": false,
 "Region": "us-gov-east-1"
 }
},
{
 "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-linux-subscriptions.us-gov-east-1.amazonaws.com"
 }
 },
 "params": {
 "UseDualStack": false,
 "UseFIPS": false,
 "Region": "us-gov-east-1"
 }
},
{
 "documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
 "expect": {

"endpoint": {
 "url": "https://license-manager-linux-subscriptions-fips.cn-north-
1.api.amazonwebservices.com.cn"
}
},

```

```

 "params": {
 "UseDualStack": true,
 "UseFIPS": true,
 "Region": "cn-north-1"
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 },
 {
 "documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-linux-subscriptions-fips.cn-north-1.amazonaws.com.cn"
 }
 },
 "params": {
 "UseDualStack": false,

 "UseFIPS": true,
 "Region": "cn-north-1"
 }
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 "documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-linux-subscriptions.cn-north-1.api.amazonwebservices.com.cn"
 }
 },
 "params": {
 "UseDualStack": true,
 "UseFIPS": false,
 "Region": "cn-north-1"
 }
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 "documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
 "expect":
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 "endpoint": {
 "url": "https://license-manager-linux-subscriptions.cn-north-1.amazonaws.com.cn"
 }
 },
 "params": {
 "UseDualStack": false,
 "UseFIPS": false,
 "Region": "cn-north-1"
 }
 },
 {

```

```

 "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
 "expect": {
 "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
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 "params": {
 "UseDualStack": true,
 "UseFIPS": true,
 }
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 "Region": "us-iso-east-1"
},
{
 "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-linux-subscriptions-fips.us-iso-east-1.c2s.ic.gov"
 }
 },
 "params": {
 "UseDualStack": false,
 "UseFIPS": true,
 "Region": "us-iso-east-1"
 }
},
{
 "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
 "expect": {
 "error": "DualStack is enabled but
this partition does not support DualStack"
 },
 "params": {
 "UseDualStack": true,
 "UseFIPS": false,
 "Region": "us-iso-east-1"
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 "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-linux-subscriptions.us-iso-east-1.c2s.ic.gov"
 }
 },
 "params": {
 "UseDualStack": false,
 "UseFIPS": false,
 "Region": "us-iso-east-1"
 }
}

```

```

 },
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 "documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-linux-subscriptions-fips.us-east-1.api.aws"
 }
 },
 "params": {
 "UseDualStack": true,
 "UseFIPS": true,
 "Region": "us-east-1"
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 "documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-linux-subscriptions-fips.us-east-1.amazonaws.com"
 }
 },
 "params": {
 "UseDualStack": false,
 "UseFIPS": true,
 "Region": "us-east-1"
 }
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 "documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-linux-subscriptions.us-east-1.api.aws"
 }
 },
 "params": {
 "UseDualStack": true,
 "UseFIPS": false,
 "Region": "us-east-1"
 }
 },
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 "documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-linux-subscriptions.us-east-1.amazonaws.com"
 }
 }
 }
]
}

```

```

 },
 "params": {
 "UseDualStack": false,
 "UseFIPS": false,
 "Region": "us-east-1"
 }
 },
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 "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
 "expect": {
 "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
 },
 "params": {

 "UseDualStack": true,
 "UseFIPS": true,
 "Region": "us-isob-east-1"
 }
 },
 {
 "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-linux-subscriptions-fips.us-isob-east-1.sc2s.sgov.gov"
 }
 },
 "params": {
 "UseDualStack": false,
 "UseFIPS": true,
 "Region": "us-isob-east-1"
 }
 },
 {
 "documentation": "For region us-isob-east-1 with FIPS disabled
and DualStack enabled",
 "expect": {
 "error": "DualStack is enabled but this partition does not support DualStack"
 },
 "params": {
 "UseDualStack": true,
 "UseFIPS": false,
 "Region": "us-isob-east-1"
 }
 },
 {
 "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
 "expect": {
 "endpoint": {

```

```

 "url": "https://license-manager-linux-subscriptions.us-isob-east-1.sc2s.sgov.gov"
 }
},
"params": {
 "UseDualStack": false,
"UseFIPS": false,
 "Region": "us-isob-east-1"
}
},
{
 "documentation": "For custom endpoint with fips disabled and dualstack disabled",
 "expect": {
 "endpoint": {
 "url": "https://example.com"
 }
 },
 "params": {
 "UseDualStack": false,
 "UseFIPS": false,
 "Region": "us-east-1",
 "Endpoint": "https://example.com"
 }
},
{
 "documentation": "For custom endpoint with fips enabled and dualstack disabled",
 "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
},
"params": {
 "UseDualStack": false,
 "UseFIPS": true,
 "Region": "us-east-1",
 "Endpoint": "https://example.com"
}
},
{
 "documentation": "For custom endpoint with fips disabled and dualstack enabled",
 "expect": {
 "error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
 },
 "params": {
 "UseDualStack": true,
 "UseFIPS": false,
 "Region": "us-east-1",

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```

"Endpoint": "https://example.com"
 }
 }
],
 "version": "1.0"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery": {
 "type": "string",
 "traits": {
 "smithy.api#enum": [
 {
 "name": "Enabled",
 "value": "Enabled",
 "documentation": "Enabled LinuxSubscriptionsDiscovery"
 },
 {
 "name": "Disabled",
 "value": "Disabled",
 "documentation": "Disabled LinuxSubscriptionsDiscovery"
 }
]
 }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings": {
 "type": "structure",
 "members": {

 "SourceRegions": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
 "traits": {
 "smithy.api#documentation": "<p>The Regions in which to discover data for Linux
subscriptions.</p>",
 "smithy.api#required": {}
 }
 },
 "OrganizationIntegration": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#OrganizationIntegration",
 "traits": {
 "smithy.api#documentation": "<p>Details if you have enabled resource discovery across your
accounts in Organizations.</p>",
 "smithy.api#required": {}
 }
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>Lists the settings defined for discovering Linux subscriptions.</p>"
 }
}

```

```

 }
 },
 "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstances":
 {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerErrorException"
 },
 {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
 },
 {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Lists the running Amazon EC2 instances that were discovered with commercial Linux\nsubscriptions.</p>",
 "smithy.api#http": {
 "code": 200,
 "method": "POST",
 "uri": "/subscription/ListLinuxSubscriptionInstances"
 },
 "smithy.api#idempotent": {},
 "smithy.api#paginated": {
 "inputToken": "NextToken",
 "outputToken": "NextToken",
 "pageSize": "MaxResults",
 "items": "Instances"
 }
 }
 },
 "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesRequest": {
 "type": "structure",
 "members": {
 "Filters": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList",
 "traits": {
 "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those that match one or\n

```



```

 more sets of key-value pairs that you specify. For example, you can filter by the name of
 AmiID with an optional operator to see subscriptions that match, partially match, or don't match
 a certain Amazon Machine Image (AMI) ID.
 The valid names for this filter are:

- AmiID
- InstanceID
- AccountID
- Status
- Region
- UsageOperation
- ProductCode
- InstanceType

 The valid Operators for this filter are:

- contains
- equals
- Notequal

 }
 },
 "MaxResults": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger",
 "traits": {
 "smithy.api#documentation":
 "Maximum number of results to return in a single call."
 }
 },
 "NextToken": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "Token for the next set of results.",
 "smithy.api#length": {
 "min": 1,
 "max": 16384
 }
 }
 },
 "traits": {
 "smithy.api#documentation": "NextToken length limit is half of ddb accepted limit.\nIncrease this limit if
 parameters in request increases."
 }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesResponse": {
 "type": "structure",
 "members": {
 "Instances": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InstanceList",
 "traits": {
 "smithy.api#documentation": "An array that contains instance objects."
 }
 }
 }
}

```

```

 },
 "NextToken": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 }
 },
 "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptions": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerErrorException"
 },
 {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
 },
 {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Lists the Linux subscriptions that have been discovered. If you have linked your\n organization, the returned results will include data aggregated across your accounts in\n Organizations.</p>",
 "smithy.api#http": {
 "code": 200,
 "method": "POST",
 "uri": "/subscription/ListLinuxSubscriptions"
 },
 "smithy.api#idempotent": {},
 "smithy.api#paginated": {
 "inputToken": "NextToken",
 "outputToken": "NextToken",
 "pageSize": "MaxResults",
 "items": "Subscriptions"
 }
 }
 },
 "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsRequest": {
 "type": "structure",

```

```

"members": {
 "Filters": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList",
 "traits": {
 "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those
that match one or\n more sets of key-value pairs that you specify. For example, you can filter by the name of\n
<code>Subscription</code> with an optional operator to see subscriptions that match,\n partially match, or don't
match a certain subscription's name.</p>\n <p>The valid names for this filter are:</p>\n \n
\n <p>\n <code>Subscription</code>\n </p>\n \n
\n <p>The valid Operators for this filter are:</p>\n \n \n <p>\n <code>contains</code>\n </p>\n \n \n <p>\n <code>equals</code>\n </p>\n \n \n <p>\n <code>NotEqual</code>\n </p>\n \n "
 }
 },
 "MaxResults": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger",
 "traits": {
 "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
 }
 },
 "NextToken": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the
next set of results.</p>",
 "smithy.api#length": {
 "min": 1,
 "max": 16384
 }
 }
 },
 "traits": {
 "smithy.api#documentation": "NextToken length limit is half of ddb accepted limit.\nIncrease this limit if
parameters in request increases."
 }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsResponse": {
 "type": "structure",
 "members": {
 "Subscriptions": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionList",
 "traits": {
 "smithy.api#documentation": "<p>An array that contains subscription objects.</p>"
 }
 }
 },
 "NextToken": {

```

```

 "target": "smithy.api#String",

"traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Operator": {
 "type": "string",
 "traits": {
 "smithy.api#enum": [
 {
 "name": "EQUAL",
 "value": "Equal",
 "documentation": "Equal operator"
 },
 {
 "name": "NOT_EQUAL",
 "value": "NotEqual",
 "documentation": "Not equal operator"
 },
 {
 "name": "CONTAINS",
 "value": "Contains",
 "documentation": "Contains operator"
 }
],
 "smithy.api#length": {
 "min": 1,
 "max": 20
 }
 }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#OrganizationIntegration": {
 "type": "string",
 "traits": {
 "smithy.api#enum": [
 {
 "name": "Enabled",
 "value": "Enabled",
 "documentation": "Enabled OrganizationIntegration"
 },
 {
 "name": "Disabled",
 "value": "Disabled",
 "documentation": "Disabled OrganizationIntegration"
 }
]
 }
}

```

```

]
 }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ProductCodeList": {
 "type": "list",
 "member": {
 "target": "smithy.api#String"
 }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Status": {
 "type": "string",
 "traits": {
 "smithy.api#enum": [
 {
 "name": "InProgress",
 "value": "InProgress",
 "documentation": "InProgress status"
 },
 {
 "name": "Completed",
 "value": "Completed",
 "documentation": "Completed status"
 },
 {
 "name": "Successful",
 "value": "Successful",
 "documentation": "Successful status"
 },
 {
 "name": "Failed",
 "value": "Failed",
 "documentation": "Failed status"
 }
]
 }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#StringList": {
 "type": "list",
 "member": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#length": {
 "min": 1,
 "max": 100
 }
 }
 }
},

```

```

 "traits": {
 "smithy.api#length": {
 "min": 1,
 "max": 100
 },
 "smithy.api#uniqueItems": {}
 }
 },
 "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap": {
 "type": "map",
 "key": {
 "target": "smithy.api#String"
 },
 "value": {
 "target": "smithy.api#String"
 }
 },
 "com.amazonaws.licensemanagerlinuxsubscriptions#Subscription": {
 "type": "structure",
 "members": {
 "Name": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The name of the subscription.</p>"
 }
 },
 "Type": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The type of subscription. The type can be subscription-included with Amazon EC2, Bring Your Own\n Subscription model (BYOS), or from the Amazon Web Services Marketplace. Certain subscriptions may use licensing from the\n Amazon Web Services Marketplace as well as OS licensing from Amazon EC2 or BYOS.</p>"
 }
 },
 "InstanceCount": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxLong",
 "traits": {
 "smithy.api#documentation": "<p>The total amount of running instances using this subscription.</p>"
 }
 }
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>An object which details a discovered Linux subscription.</p>"
 }
},

```

```

"com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Subscription"
 }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException": {
 "type": "structure",
 "members": {
 "message": {
 "target": "smithy.api#String"
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>The request was denied due to request throttling.</p>",
 "smithy.api#error": "client"
 }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettings": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerErrorException"
 },
 {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
 },
 {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Updates the service settings for Linux subscriptions.</p>",
 "smithy.api#http": {
 "code": 200,
 "method": "POST",
 "uri": "/subscription/UpdateServiceSettings"
 },
 "smithy.api#idempotent": {}
 }
},

```

```

"com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsRequest": {
 "type": "structure",
 "members": {
 "LinuxSubscriptionsDiscovery": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
 "traits": {
 "smithy.api#documentation": "<p>Describes if the discovery of Linux subscriptions is enabled.</p>",
 "smithy.api#required": {}
 }
 },
 "LinuxSubscriptionsDiscoverySettings": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
 "traits": {
 "smithy.api#documentation": "<p>The settings defined for Linux subscriptions discovery. The settings include if Organizations\n integration has been enabled, and which Regions data will be aggregated from.</p>",
 "smithy.api#required": {}
 }
 },
 "AllowUpdate": {
 "target": "smithy.api#Boolean",
 "traits": {
 "smithy.api#documentation": "<p>Describes if updates are allowed to the service settings for Linux subscriptions. If you\n allow updates, you can aggregate Linux subscription data in more than one home Region.</p>"
 }
 }
 },
 "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsResponse": {
 "type": "structure",
 "members": {
 "LinuxSubscriptionsDiscovery": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
 "traits": {
 "smithy.api#documentation": "<p>Lists if discovery has been enabled for Linux subscriptions.</p>"
 }
 },
 "LinuxSubscriptionsDiscoverySettings": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
 "traits": {
 "smithy.api#documentation": "<p>The settings defined for Linux subscriptions discovery. The settings include if Organizations\n integration has been enabled, and which Regions data will be aggregated from.</p>"
 }
 },
 "Status": {

```



```

 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Status",
 "traits": {
 "smithy.api#documentation": "<p>Indicates the status of Linux subscriptions settings being
applied.</p>"
 }
 },
 "StatusMessage": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap",
 "traits": {
 "smithy.api#documentation": "<p>A message which details the Linux subscriptions service settings
current status.</p>"
 }
 },
 "HomeRegions": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
 "traits": {
 "smithy.api#documentation": "<p>The Region in which License Manager displays the aggregated
data for Linux\n subscriptions.</p>"
 }
 }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException": {
 "type": "structure",
 "members": {
 "message": {
 "target": "smithy.api#String"
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>The provided input is not valid. Try your request again.</p>",
 "smithy.api#error":
"client"
 }
}
}
{
 "smithy": "2.0",
 "shapes": {
 "com.amazonaws.licensemanageruserssubscriptions#AccessDeniedException": {
 "type": "structure",
 "members": {
 "message": {
 "target": "smithy.api#String"
 }
 },
 "traits": {

```

```

 "smithy.api#documentation": "<p>You don't have sufficient access to perform this action.</p>",
 "smithy.api#error": "client"
 }
},
"com.amazonaws.licenseanagerusersubscriptions#ActiveDirectoryIdentityProvider": {
 "type": "structure",
 "members": {
 "DirectoryId": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The directory ID for an Active Directory identity provider.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#documentation":
"<p>Details about an Active Directory identity provider.</p>"
 }
},
"com.amazonaws.licenseanagerusersubscriptions#AssociateUser": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#AssociateUserRequest"
 },
 "output": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#AssociateUserResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ConflictException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#InternalServerErrorException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ResourceNotFoundException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ServiceQuotaExceededException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ThrottlingException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ValidationException"
 }
]
}

```

```

 }
],
 "traits": {
 "smithy.api#documentation": "<p>Associates the user to an EC2 instance to utilize user-based
subscriptions.</p>\n <note>\n <p>Your estimated bill for charges on the number of users and related
costs will take 48\n hours to appear for billing periods that haven't closed (marked as Pending billing
status) in Amazon Web Services Billing. For more information, see Viewing your\n
monthly charges in the <i>Amazon Web Services Billing User Guide</i>.</p>\n </note>",
 "smithy.api#http": {
 "code": 200,
 "method": "POST",
 "uri": "/user/AssociateUser"
 },
 "smithy.api#idempotent": {}
 }
},
"com.amazonaws.licenseanagerusersubscriptions#AssociateUserRequest": {
 "type": "structure",
 "members": {
 "Username": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
 "smithy.api#required": {}
 }
 },
 "InstanceId": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The ID of the
EC2 instance, which provides user-based subscriptions.</p>",
 "smithy.api#required": {}
 }
 },
 "IdentityProvider": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#IdentityProvider",
 "traits": {
 "smithy.api#documentation": "<p>The identity provider of the user.</p>",
 "smithy.api#required": {}
 }
 },
 "Domain": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The domain name of the user.</p>"
 }
 }
 }
}

```

```

 }
 },
 "com.amazonaws.licensemanagerusersubscriptions#AssociateUserResponse": {
 "type": "structure",
 "members": {
 "InstanceUserSummary": {
 "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary",
 "traits": {
 "smithy.api#documentation": "<p>Metadata that describes the associate user operation.</p>",
 "smithy.api#required": {}
 }
 }
 }
 },
 "com.amazonaws.licensemanagerusersubscriptions#BoxInteger": {
 "type": "integer"
 },
 "com.amazonaws.licensemanagerusersubscriptions#ConflictException": {
 "type": "structure",
 "members": {
 "message": {
 "target": "smithy.api#String"
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>The request couldn't be completed because it conflicted with the current state of the\n resource.</p>",
 "smithy.api#error": "server"
 }
 },
 "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProvider":
 {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
 },
 {
 "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerErrorException"
 }
]
 }
}

```

```

 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ResourceNotFoundException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ServiceQuotaExceededException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ThrottlingException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Deregisters the identity provider from providing user-based
subscriptions.</p>",
 "smithy.api#http": {
 "code": 200,
 "method": "POST",
 "uri": "/identity-provider/DeregisterIdentityProvider"
 },
 "smithy.api#idempotent": {}
 }
},
"com.amazonaws.licenseanagerusersubscriptions#DeregisterIdentityProviderRequest": {
 "type": "structure",
 "members": {
 "IdentityProvider": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#IdentityProvider",
 "traits": {
 "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
 "smithy.api#required": {}
 }
 },
 "Product": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
 "smithy.api#required": {}
 }
 }
 }
},
"com.amazonaws.licenseanagerusersubscriptions#DeregisterIdentityProviderResponse": {
 "type": "structure",
 "members": {
 "IdentityProviderSummary": {

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```

 "target": "com.amazonaws.licenseanagerusersubscriptions#IdentityProviderSummary",
 "traits": {
 "smithy.api#documentation":
 <p>Metadata that describes the results of an identity provider operation.</p>,
 "smithy.api#required": {}
 }
 },
 "com.amazonaws.licenseanagerusersubscriptions#DisassociateUser": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#DisassociateUserRequest"
 },
 "output": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#DisassociateUserResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ConflictException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#InternalServerError"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ResourceNotFoundException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ServiceQuotaExceededException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ThrottlingException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Disassociates the user from an EC2 instance providing user-based
subscriptions.</p>",
 "smithy.api#http": {
 "code": 200,
 "method": "POST",
 "uri": "/user/DisassociateUser"
 },
 },
 },

```

```

 "smithy.api#idempotent": {}
 }
},
"com.amazonaws.licenseanagerusersubscriptions#DisassociateUserRequest": {
 "type": "structure",
 "members": {
 "Username": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
 "smithy.api#required": {}
 }
 },
 "InstanceId": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
 "smithy.api#required": {}
 }
 },
 "IdentityProvider": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#IdentityProvider",
 "traits": {
 "smithy.api#documentation":
"<p>An object that specifies details for the identity provider.</p>",
 "smithy.api#required": {}
 }
 },
 "Domain": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The domain name of the user.</p>"
 }
 }
 }
},
"com.amazonaws.licenseanagerusersubscriptions#DisassociateUserResponse": {
 "type": "structure",
 "members": {
 "InstanceUserSummary": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#InstanceUserSummary",
 "traits": {
 "smithy.api#documentation": "<p>Metadata that describes the associate user operation.</p>",
 "smithy.api#required": {}
 }
 }
 }
}

```

```

 }
 },
 "com.amazonaws.licensemanagerusersubscriptions#Filter": {
 "type": "structure",
 "members": {
 "Attribute": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The name of an attribute to use as a filter.</p>"
 }
 },
 "Operation": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The type of search (For example, eq, geq, leq)</p>"
 }
 },
 "Value": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>Value of the filter.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>A filter name and value pair that is used
to return more specific results from a describe\n operation. Filters can be used to match a set of resources by
specific criteria, such as tags,\n attributes, or IDs.</p>"
 }
 },
 "com.amazonaws.licensemanagerusersubscriptions#FilterList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanagerusersubscriptions#Filter"
 }
 },
 "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider": {
 "type": "union",
 "members": {
 "ActiveDirectoryIdentityProvider": {
 "target": "com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryIdentityProvider",
 "traits": {
 "smithy.api#documentation": "<p>An object that details an Active Directory identity provider.</p>"
 }
 }
 }
 },
 "traits": {

```



```

 "smithy.api#documentation":
"<p>Details about an identity provider.</p>"
 }
},
"com.amazonaws.licenseanagerusersubscriptions#IdentityProviderSummary": {
 "type": "structure",
 "members": {
 "IdentityProvider": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#IdentityProvider",
 "traits": {
 "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
 "smithy.api#required": {}
 }
 },
 "Settings": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#Settings",
 "traits": {
 "smithy.api#documentation": "<p>An object that details the registered identity providers product
related configuration\n settings such as the subnets to provision VPC endpoints.</p>",
 "smithy.api#required":
{}
 }
 },
 "Product": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
 "smithy.api#required": {}
 }
 },
 "Status": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The status of an identity provider.</p>",
 "smithy.api#required": {}
 }
 },
 "FailureMessage": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The failure message associated with an identity provider.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#documentation":
"<p>Describes an identity provider.</p>"
 }
}

```

```

 },
 "com.amazonaws.licenseanagerusersubscriptions#IdentityProviderSummaryList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#IdentityProviderSummary"
 }
 },
 "com.amazonaws.licenseanagerusersubscriptions#InstanceSummary": {
 "type": "structure",
 "members": {
 "InstanceId": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
 "smithy.api#required": {}
 }
 },
 "Status": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The status
of an EC2 instance resource.</p>",
 "smithy.api#required": {}
 }
 },
 "Products": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#StringList",
 "traits": {
 "smithy.api#documentation": "<p>A list of provided user-based subscription products.</p>",
 "smithy.api#required": {}
 }
 },
 "LastStatusCheckDate": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The date of the last status check.</p>"
 }
 },
 "StatusMessage": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The status message for an EC2 instance.</p>"
 }
 }
 }
 },
 "traits": {

```

```

 "smithy.api#documentation": "<p>Describes an EC2 instance providing user-based subscriptions.</p>"
 }
},
"com.amazonaws.licenseanagerusersubscriptions#InstanceSummaryList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#InstanceSummary"
 }
},
"com.amazonaws.licenseanagerusersubscriptions#InstanceUserSummary": {
 "type": "structure",
 "members": {
 "Username": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
 "smithy.api#required": {}
 }
 },
 "InstanceId": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
 "smithy.api#required": {}
 }
 },
 "IdentityProvider": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#IdentityProvider",
 "traits": {
 "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
 "smithy.api#required": {}
 }
 },
 "Status": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The status of a user associated with an EC2 instance.</p>",
 "smithy.api#required": {}
 }
 },
 "StatusMessage": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The status message for users of an EC2 instance.</p>"
 }
 }
 }
},

```

```

 "Domain": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The domain name of the user.</p>"
 }
 },
 "AssociationDate": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The date a user was associated with an EC2 instance.</p>"
 }
 },
 "DisassociationDate": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The date a user was disassociated from an EC2 instance.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>Describes users of an EC2 instance providing user-based
subscriptions.</p>"
 }
},
"com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummaryList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary"
 }
},
"com.amazonaws.licensemanagerusersubscriptions#InternalServerError": {
 "type": "structure",
 "members": {
 "message": {
 "target": "smithy.api#String"
 }
 }
},
"traits": {
 "smithy.api#documentation": "<p>An exception occurred with the service.</p>",
 "smithy.api#error": "server"
}
},
"com.amazonaws.licensemanagerusersubscriptions#LicenseManagerUserSubscriptions": {
 "type": "service",

"version": "2018-05-10",
"operations": [

```

```

 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#AssociateUser"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#DeregisterIdentityProvider"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#DisassociateUser"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ListIdentityProviders"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ListInstances"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ListProductSubscriptions"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ListUserAssociations"
 }
],
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#RegisterIdentityProvider"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#StartProductSubscription"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#StopProductSubscription"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#UpdateIdentityProviderSettings"
 }
],
"traits": {
 "aws.api#service": {
 "sdkId": "License Manager User Subscriptions",
 "arnNamespace": "license-manager-user-subscriptions",
 "cloudTrailEventSource": "license-manager-user-subscriptions.amazonaws.com"
 },
 "aws.auth#sigv4": {
 "name": "license-manager-user-subscriptions"
 },
 "aws.protocols#restJson1": {},
 "smithy.api#cors": {
 "additionalAllowedHeaders": [
 "*"
]
 }
}

```

```

 "content-type",
 "x-amz-content-sha256",
 "x-amz-user-agent",
 "x-amzn-platform-id",
 "x-amzn-trace-id",
 "content-length",
 "x-api-key",
 "authorization",
 "x-amz-date",
 "x-amz-security-token",
 "Access-Control-Allow-Headers",
 "Access-Control-Allow-Methods",
 "Access-Control-Allow-Origin"
],
 "additionalExposedHeaders": [
 "x-amzn-errortype",
 "x-amzn-requestid",
 "x-amzn-trace-id"
]
}
]
},
"smithy.api#documentation": "<p>With License Manager, you can create user-based subscriptions to utilize licensed software with a per user subscription fee on Amazon EC2 instances.</p>",
"smithy.api#title": "AWS License Manager User Subscriptions",
"smithy.rules#endpointRuleSet": {
 "version": "1.0",
 "parameters": {
 "Region": {
 "builtIn": "AWS::Region",
 "required": false,
 "documentation": "The AWS region used to dispatch the request.",
 "type": "String"
 },
 "UseDualStack": {
 "builtIn": "AWS::UseDualStack",
 "required": true,
 "default": false,
 "documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
 "type": "Boolean"
 },
 "UseFIPS": {
 "builtIn": "AWS::UseFIPS",
 "required": true,
 "default": false,
 "documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
 "type": "Boolean"
 }
 }
}

```

```

 },
 "Endpoint": {
 "builtIn": "SDK::Endpoint",
 "required": false,
 "documentation": "Override the endpoint used to send this request",
 "type": "String"
 }
 },
 "rules": [
 {
 "conditions": [
 {
 "fn": "isSet",
 "argv": [
 {
 "ref": "Endpoint"
 }
]
 }
]
 }
],
 "type": "tree",
 "rules": [
 {
 "conditions": [
 {
 "fn": "booleanEquals",
 "argv": [
 {
 "ref": "UseFIPS"
 },
 true
]
 }
],
 "error": "Invalid Configuration: FIPS and custom endpoint are not supported",
 "type": "error"
 },
 {
 "conditions": [],
 "type": "tree",
 "rules": [
 {
 "conditions": [
 {
 "fn": "booleanEquals",
 "argv": [

```

```

 {
 "ref": "UseDualStack"
 },
 true
]
}
],
"error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
"type": "error"
},
{
 "conditions": [],
 "endpoint": {
 "url": {
 "ref": "Endpoint"
 },
 "properties": {},
 "headers": {}
 },
 "type": "endpoint"
}
]
}
]
},
{
 "conditions": [],
 "type": "tree",
 "rules": [
 {
 "conditions": [
 {
 "fn": "isSet",
 "argv": [
 {
 "ref": "Region"
 }
]
 }
],
 "type": "tree",
 }
],
 "rules": [
 {
 "conditions": [
 {

```



```

 "fn": "aws.partition",
 "argv": [
 {
 "ref": "Region"
 }
],
 "assign": "PartitionResult"
 }
],
"type": "tree",
"rules": [
 {
 "conditions": [
 {
 "fn": "booleanEquals",
 "argv": [
 {
 "ref": "UseFIPS"
 },
 true
]
 },
 {
 "fn": "booleanEquals",
 "argv": [
 {
 "ref": "UseDualStack"
 },
 true
]
 }
],
 "type": "tree",
 "rules": [
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 "conditions": [
 {
 "fn": "booleanEquals",
 "argv": [
 true,
 {
 "fn": "getAttr",
 "argv": [
 {
 "ref": "PartitionResult"
 }
]
 }
]
 }
]
 }
]
 }
]

```

```

 },
 "supportsFIPS"
]
}
],
},
{
 "fn": "booleanEquals",
 "argv": [

 true,
 {
 "fn": "getAttr",
 "argv": [
 {
 "ref": "PartitionResult"
 },
 "supportsDualStack"
]
 }
]
}
}],
"type": "tree",
"rules": [
 {
 "conditions": [],
 "type": "tree",
 "rules": [
 {
 "conditions": [],
 "endpoint": {
 "url": "https://license-manager-user-subscriptions-
fips.{Region}.{PartitionResult#dualStackDnsSuffix}",

 "properties": {},

 "headers": {}
 },
 "type": "endpoint"
 }
]
}
],
},
{
 "conditions": [],
 "error": "FIPS and DualStack are enabled, but this partition does not support

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one or both",

"type": "error"

```
 }
]
},
{
 "conditions": [
 {
 "fn": "booleanEquals",
 "argv": [
 {
 "ref": "UseFIPS"
 },
 true
]
 }
],
}
```

"type": "tree",

```
 "rules": [
 {
 "conditions": [
 {
 "fn": "booleanEquals",
 "argv": [
 true,
 {
 "fn": "getAttr",
 "argv": [
 {
 "ref": "PartitionResult"
 }
],
 },
 "supportsFIPS"
]
 }
]
 }
],
}
```

"type": "tree",

```
 "rules": [
 {
 "conditions": [],
 "type": "tree",
 "rules": [
 {
 "conditions": [
 {
 "fn": "booleanEquals",
 "argv": [
 {
 "ref": "PartitionResult"
 },
 true
]
 },
 "supportsFIPS"
]
 }
]
 }
],
}
```

```

 {
 "conditions": [],
 "endpoint": {
 "url": "https://license-manager-user-subscriptions-
fips.{Region}.{PartitionResult#dnsSuffix}",
 "properties": {},
 "headers": {}
 },
 "type": "endpoint"
 }
]
},
{
 "conditions": [],
 "error": "FIPS is enabled but this partition does not support FIPS",
 "type": "error"
}
],
{
 "conditions": [
 {
 "fn": "booleanEquals",
 "argv": [
 {
 "ref": "UseDualStack"
 },
 true
]
 }
],
 "type": "tree",
 "rules": [
 {
 "conditions": [
 {
 "fn": "booleanEquals",
 "argv": [
 true,
 {
 "fn": "getAttr",
 "argv": [
 {

```

```

 "ref": "PartitionResult"
 },
 "supportsDualStack"
]
 }
]
},
],
"type": "tree",
"rules": [
 {
 "conditions": [],
 "type": "tree",
 "rules": [
 {
 "conditions": [],
 "endpoint": {
 "url": "https://license-manager-user-
subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
 "properties": {}},
 "headers": {}
 },
 {
 "type": "endpoint"
 }
]
 },
 {
 "conditions": [],
 "error": "DualStack is enabled but this partition does not support DualStack",
 "type": "error"
 }
]
},
{
 "conditions": [],
 "type": "tree",
 "rules": [
 {
 "conditions": [],
 "endpoint": {
 "url": "https://license-manager-user-
subscriptions.{Region}.{PartitionResult#dnsSuffix}",
 "properties": {}},

```

```

 "headers": {}
 },
 "type": "endpoint"
 }
]
}
],
},
{
 "conditions": [],
 "error": "Invalid Configuration: Missing Region",
 "type": "error"
}
]
}
],
},
"smithy.rules#endpointTests": {
 "testCases": [
 {
 "documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-user-subscriptions-fips.us-east-1.api.aws"
 }
 },
 "params": {
 "Region": "us-east-1",
 "UseDualStack": true,
 "UseFIPS": true
 }
 },
 {
 "documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-user-subscriptions-fips.us-east-1.amazonaws.com"
 }
 },
 "params": {
 "Region": "us-east-1",
 "UseDualStack": false,
 "UseFIPS":
true
 }
]
}

```

```

 },
 {
 "documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-user-subscriptions.us-east-1.api.aws"
 }
 },
 "params": {
 "Region": "us-east-1",
 "UseDualStack": true,
 "UseFIPS": false
 }
 },
 {
 "documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-user-subscriptions.us-east-1.amazonaws.com"
 }
 },
 "params": {
 "Region": "us-east-1",
 "UseDualStack": false,
 "UseFIPS": false
 }
 },
 {
 "documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-user-subscriptions-fips.cn-north-
1.api.amazonwebservices.com.cn"
 }
 },
 "params": {
 "Region": "cn-north-1",
 "UseDualStack": true,
 "UseFIPS": true
 }
 },
 {
 "documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-user-subscriptions-fips.cn-north-1.amazonaws.com.cn"
 }
 }
 }
 }
}

```

```

 },
 "params": {
 "Region": "cn-north-1",
 "UseDualStack": false,
 "UseFIPS": true
 }
 },
 {
 "documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-user-subscriptions.cn-north-1.api.amazonwebservices.com.cn"
 }
 },
 "params": {
 "Region": "cn-north-1",
 "UseDualStack": true,
 "UseFIPS": false
 }
 },
 {
 "documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-user-subscriptions.cn-north-1.amazonaws.com.cn"
 }
 },
 "params": {
 "Region": "cn-north-1",
 "UseDualStack": false,
 "UseFIPS": false
 }
 },
 {
 "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-user-subscriptions-fips.us-gov-east-1.api.aws"
 }
 },
 "params": {
 "Region": "us-gov-east-1",
 "UseDualStack": true,
 "UseFIPS": true
 }
 },
 {

```



```

 "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-user-subscriptions-fips.us-gov-east-1.amazonaws.com"
 }
 },
 "params": {
 "Region": "us-gov-east-1",
 "UseDualStack": false,
 "UseFIPS": true
 }
 },
 {
 "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack enabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-user-subscriptions.us-gov-east-1.api.aws"
 }
 },
 "params": {
 "Region": "us-gov-east-1",
 "UseDualStack": true,
 "UseFIPS": false
 }
 }
},
{
 "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-user-subscriptions.us-gov-east-1.amazonaws.com"
 }
 },
 "params": {
 "Region": "us-gov-east-1",
 "UseDualStack": false,
 "UseFIPS": false
 }
},
{
 "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-user-subscriptions-fips.us-iso-east-1.c2s.ic.gov"
 }
 },
 "params": {
 "Region": "us-iso-east-1",

```

```

 "UseDualStack": false,
 "UseFIPS": true
 }
},
{
 "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-user-subscriptions.us-iso-east-1.c2s.ic.gov"
 }
 },
 "params": {
 "Region": "us-iso-east-1",
 "UseDualStack": false,
 "UseFIPS": false
 }
}
},
{
 "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-user-subscriptions-fips.us-isob-east-1.sc2s.sgov.gov"
 }
 },
 "params": {
 "Region": "us-isob-east-1",
 "UseDualStack": false,
 "UseFIPS": true
 }
},
{
 "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-user-subscriptions.us-isob-east-1.sc2s.sgov.gov"
 }
 },
 "params": {
 "Region": "us-isob-east-1",
 "UseDualStack": false,
 "UseFIPS": false
 }
},
{
 "documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
 "expect": {
 "endpoint": {

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 "url": "https://example.com"
 }
},
"params": {
 "Region": "us-east-1",
 "UseDualStack": false,
 "UseFIPS": false,
 "Endpoint":
"https://example.com"
}
},
{
 "documentation": "For custom endpoint with region not set and fips disabled and dualstack
disabled",
 "expect": {
 "endpoint": {
 "url": "https://example.com"
 }
 },
 "params": {
 "UseDualStack": false,
 "UseFIPS": false,
 "Endpoint": "https://example.com"
 }
},
{
 "documentation": "For custom endpoint with fips enabled and dualstack disabled",
 "expect": {
 "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
 },
 "params": {
 "Region": "us-east-1",
 "UseDualStack": false,
 "UseFIPS": true,
 "Endpoint": "https://example.com"
 }
},
{
 "documentation": "For custom endpoint with fips disabled and dualstack enabled",
 "expect": {
 "error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
 },
 "params": {
 "Region": "us-east-1",
 "UseDualStack": true,
 "UseFIPS": false,
 "Endpoint": "https://example.com"
 }
}
}

```

```

 }

],
 "version": "1.0"
 }
},
"com.amazonaws.licenseanagerusersubscriptions#ListIdentityProviders": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ListIdentityProvidersRequest"
 },
 "output": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ListIdentityProvidersResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ConflictException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#InternalServerErrorException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ResourceNotFoundException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ServiceQuotaExceededException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ThrottlingException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Lists the identity providers for user-based subscriptions.</p>",
 "smithy.api#http": {
 "code": 200,
 "method": "POST",
 "uri": "/identity-provider/ListIdentityProviders"
 },
 "smithy.api#paginated": {
 "inputToken": "NextToken",
 "outputToken": "NextToken",

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 "pageSize":
"MaxResults",
 "items": "IdentityProviderSummaries"
 }
}
},
"com.amazonaws.licenseanagerusersubscriptions#ListIdentityProvidersRequest": {
 "type": "structure",
 "members": {
 "MaxResults": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#BoxInteger",
 "traits": {
 "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
 }
 },
 "NextToken": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 }
 }
},
"com.amazonaws.licenseanagerusersubscriptions#ListIdentityProvidersResponse": {
 "type": "structure",
 "members": {
 "IdentityProviderSummaries": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#IdentityProviderSummaryList",
 "traits": {
 "smithy.api#documentation": "<p>Metadata that describes the list identity providers operation.</p>",
 "smithy.api#required": {}
 }
 },
 "NextToken": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 }
 }
},
"com.amazonaws.licenseanagerusersubscriptions#ListInstances": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ListInstancesRequest"
 },
 "output": {

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 "target": "com.amazonaws.licenseanagerusersubscriptions#ListInstancesResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ConflictException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#InternalServerError"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ResourceNotFoundException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ServiceQuotaExceededException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ThrottlingException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Lists the EC2 instances providing user-based subscriptions.</p>",
 "smithy.api#http": {
 "code": 200,
 "method": "POST",
 "uri": "/instance/ListInstances"
 },
 "smithy.api#paginated": {
 "inputToken": "NextToken",
 "outputToken": "NextToken",
 "pageSize": "MaxResults",
 "items": "InstanceSummaries"
 }
 }
},
"com.amazonaws.licenseanagerusersubscriptions#ListInstancesRequest": {
 "type": "structure",
 "members": {
 "MaxResults": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#BoxInteger",
 "traits": {
 "smithy.api#documentation": "<p>Maximum number

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of results to return in a single call.</p>"

```
 }
 },
 "NextToken": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 },
 "Filters": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#FilterList",
 "traits": {
 "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those
that match one or\n more sets of key-value pairs that you specify.</p>"
 }
 }
},
"com.amazonaws.licenseanagerusersubscriptions#ListInstancesResponse": {
 "type": "structure",
 "members": {
 "InstanceSummaries": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#InstanceSummaryList",
 "traits": {
 "smithy.api#documentation": "<p>Metadata that describes the list instances operation.</p>"
 }
 },
 "NextToken": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 }
 }
},
"com.amazonaws.licenseanagerusersubscriptions#ListProductSubscriptions": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ListProductSubscriptionsRequest"
 },
 "output": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ListProductSubscriptionsResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#AccessDeniedException"
 },
 {
```

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 "target": "com.amazonaws.licenseanagerusersubscriptions#ConflictException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#InternalServerErrorException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ResourceNotFoundException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ServiceQuotaExceededException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ThrottlingException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ValidationException"
 }
],
"traits": {
 "smithy.api#documentation": "<p>Lists the user-based
subscription products available from an identity provider.</p>",
 "smithy.api#http": {
 "code": 200,
 "method": "POST",
 "uri": "/user/ListProductSubscriptions"
 },
 "smithy.api#paginated": {
 "inputToken": "NextToken",
 "outputToken": "NextToken",
 "pageSize": "MaxResults",
 "items": "ProductUserSummaries"
 }
}
},
"com.amazonaws.licenseanagerusersubscriptions#ListProductSubscriptionsRequest": {
 "type": "structure",
 "members": {
 "Product": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
 "smithy.api#required": {}
 }
 }
 },
 "IdentityProvider": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#IdentityProvider",
 "traits": {

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 "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
 "smithy.api#required": {}
 }
},
"MaxResults": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#BoxInteger",
 "traits": {
 "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
 }
},
"Filters": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#FilterList",
 "traits": {
 "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those
that match one or\n more sets
of key-value pairs that you specify.</p>"
 }
},
"NextToken": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
}
},
"com.amazonaws.licenseanagerusersubscriptions#ListProductSubscriptionsResponse": {
 "type": "structure",
 "members": {
 "ProductUserSummaries": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ProductUserSummaryList",
 "traits": {
 "smithy.api#documentation": "<p>Metadata that describes the list product subscriptions
operation.</p>"
 }
 },
 "NextToken": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation":
"<p>Token for the next set of results.</p>"
 }
 }
 }
},
"com.amazonaws.licenseanagerusersubscriptions#ListUserAssociations": {
 "type": "operation",
 "input": {

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 "target": "com.amazonaws.licenseanagerusersubscriptions#ListUserAssociationsRequest"
 },
 "output": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ListUserAssociationsResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ConflictException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#InternalServerErrorException"
 },
 {
 "target":
"com.amazonaws.licenseanagerusersubscriptions#ResourceNotFoundException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ServiceQuotaExceededException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ThrottlingException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Lists user associations for an identity provider.</p>",
 "smithy.api#http": {
 "code": 200,
 "method": "POST",
 "uri": "/user/ListUserAssociations"
 },
 "smithy.api#paginated": {
 "inputToken": "NextToken",
 "outputToken": "NextToken",
 "pageSize":
"MaxResults",
 "items": "InstanceUserSummaries"
 }
 },
 "com.amazonaws.licenseanagerusersubscriptions#ListUserAssociationsRequest": {
 "type": "structure",
 "members": {

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 "InstanceId": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
 "smithy.api#required": {}
 }
 },
 "IdentityProvider": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#IdentityProvider",
 "traits": {
 "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
 "smithy.api#required": {}
 }
 },
 "MaxResults":
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#BoxInteger",
 "traits": {
 "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
 }
 },
 "Filters": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#FilterList",
 "traits": {
 "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those
that match one or\n more sets of key-value pairs that you specify.</p>"
 }
 },
 "NextToken": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 }
},
"com.amazonaws.licenseanagerusersubscriptions#ListUserAssociationsResponse":
{
 "type": "structure",
 "members": {
 "InstanceUserSummaries": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#InstanceUserSummaryList",
 "traits": {
 "smithy.api#documentation": "<p>Metadata that describes the list user association operation.</p>"
 }
 },
 "NextToken": {

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 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 },
 "com.amazonaws.licenseanagerusersubscriptions#ProductUserSummary": {
 "type": "structure",
 "members": {
 "Username": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation":
"<p>The user name from the identity provider of the user.</p>",
 "smithy.api#required": {}
 }
 },
 "Product": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
 "smithy.api#required": {}
 }
 },
 "IdentityProvider": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#IdentityProvider",
 "traits": {
 "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
 "smithy.api#required": {}
 }
 },
 "Status": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The status of a product for a user.</p>",
 "smithy.api#required": {}
 }
 },
 "StatusMessage": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The status message for a product for a user.</p>"
 }
 },
 "Domain": {
 "target": "smithy.api#String",

```

```

 "traits": {
 "smithy.api#documentation": "<p>The domain name of the user.</p>"
 }
 },
 "SubscriptionStartDate": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The start date of a subscription.</p>"
 }
 },
 "SubscriptionEndDate": {
 "target":
"smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The end date of a subscription.</p>"
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>The summary of the user-based subscription products for a user.</p>"
 }
},
"com.amazonaws.licenseanagerusersubscriptions#ProductUserSummaryList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ProductUserSummary"
 }
},
"com.amazonaws.licenseanagerusersubscriptions#RegisterIdentityProvider": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#RegisterIdentityProviderRequest"
 },
 "output": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#RegisterIdentityProviderResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ConflictException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#InternalServerErrorException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ResourceNotFoundException"
 }
]
}

```

```

 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ServiceQuotaExceededException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ThrottlingException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Registers an identity provider for user-based subscriptions.</p>",
 "smithy.api#http": {
 "code": 200,
 "method": "POST",
 "uri": "/identity-provider/RegisterIdentityProvider"
 },
 "smithy.api#idempotent": {}
 }
},
"com.amazonaws.licenseanagerusersubscriptions#RegisterIdentityProviderRequest": {
 "type": "structure",
 "members": {
 "IdentityProvider": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#IdentityProvider",
 "traits": {
 "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
 "smithy.api#required": {}
 }
 },
 "Product":
 {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
 "smithy.api#required": {}
 }
 },
 "Settings": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#Settings",
 "traits": {
 "smithy.api#documentation": "<p>The registered identity providers product related configuration settings such as the\n subnets to provision VPC endpoints.</p>"
 }
 }
}
},
},

```

```

"com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderResponse": {
 "type": "structure",
 "members": {
 "IdentityProviderSummary": {
 "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",

"traits": {
 "smithy.api#documentation": "<p>Metadata that describes the results of an identity provider
operation.</p>",
 "smithy.api#required": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException": {
 "type": "structure",
 "members": {
 "message": {
 "target": "smithy.api#String"
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>The resource couldn't be found.</p>",
 "smithy.api#error": "client",
 "smithy.api#httpError": 404
 }
},
"com.amazonaws.licensemanagerusersubscriptions#SecurityGroup": {
 "type": "string",
 "traits": {
 "smithy.api#length": {
 "min": 5,
 "max": 200
 },

"smithy.api#pattern": "^sg-([0-9a-z]{8})([0-9a-z]{17})$"
}
},
"com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException": {
 "type": "structure",
 "members": {
 "message": {
 "target": "smithy.api#String"
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>The request failed because a service quota is exceeded.</p>",
 "smithy.api#error": "client"
 }
}

```

```

 }
 },
 "com.amazonaws.licensemanagerusersubscriptions#Settings": {
 "type": "structure",
 "members": {
 "Subnets": {
 "target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
 "traits": {
 "smithy.api#documentation": "<p>The subnets defined for the registered identity provider.</p>",
 "smithy.api#length": {
 "min": 1
 },
 "smithy.api#required": {}
 }
 },
 "SecurityGroupId": {
 "target": "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup",
 "traits": {
 "smithy.api#documentation": "<p>A security group ID that allows inbound TCP port 1688 communication between resources in\n your VPC and the VPC endpoint for activation servers.</p>",
 "smithy.api#required": {}
 }
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>The registered identity providers product related configuration settings such as the\n subnets to provision VPC endpoints, and the security group ID that is associated with the VPC\n endpoints. The security group should permit inbound TCP port 1688 communication from resources\n in the VPC.</p>"
 }
 },
 "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscription": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
 },
 {
 "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerError"
 }
]
 }
}

```



```

 },
 {
 "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
 },
 {
 "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
 },
 {
 "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
 },
 {
 "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Starts a product subscription for a user with the specified identity provider.</p>\n <note>\n <p>Your estimated bill for charges on the number of users and related costs will take 48\n hours to appear for billing periods that haven't closed (marked as Pending billing status) in Amazon Web Services Billing. For more information, see Viewing your\n monthly charges in the <i>Amazon Web Services Billing User Guide</i>.</p>\n </note>",
 "smithy.api#http": {
 "code": 200,
 "method": "POST",
 "uri": "/user/StartProductSubscription"
 }
 }
},
"com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionRequest": {
 "type": "structure",
 "members": {
 "Username": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The user name from the identity provider of the user.</p>",
 "smithy.api#required": {}
 }
 }
 },
 "IdentityProvider": {
 "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
 "traits": {
 "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
 "smithy.api#required": {}
 }
 },
 "Product": {
 "target": "smithy.api#String",

```

```

 "traits": {
 "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
 "smithy.api#required": {}
 }
 },
 "Domain": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The domain name of the user.</p>"
 }
 }
},
"com.amazonaws.licenseanagerusersubscriptions#StartProductSubscriptionResponse": {
 "type": "structure",
 "members": {
 "ProductUserSummary": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ProductUserSummary",
 "traits": {
 "smithy.api#documentation": "<p>Metadata that describes the start product subscription
operation.</p>",
 "smithy.api#required": {}
 }
 }
 }
},
"com.amazonaws.licenseanagerusersubscriptions#StopProductSubscription": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#StopProductSubscriptionRequest"
 },
 "output": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#StopProductSubscriptionResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ConflictException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#InternalServerErrorException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ResourceNotFoundException"
 },
 {

```

```

 "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
 },
 {
 "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
 },
 {
 "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
 }
],
"traits": {
 "smithy.api#documentation": "<p>Stops a product subscription for a user with the specified identity
provider.</p>",
 "smithy.api#http": {
 "code": 200,
 "method": "POST",
 "uri":
"/user/StopProductSubscription"
 }
},
"com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionRequest": {
 "type": "structure",
 "members": {
 "Username": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
 "smithy.api#required": {}
 }
 },
 "IdentityProvider": {
 "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
 "traits": {
 "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
 "smithy.api#required": {}
 }
 },
 "Product": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
 "smithy.api#required": {}
 }
 },
 "Domain": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The domain name of the user.</p>"
 }
 }
 }
}

```

```

 }
 }
},
"com.amazonaws.licenseanagerusersubscriptions#StopProductSubscriptionResponse": {
 "type": "structure",
 "members": {
 "ProductUserSummary": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ProductUserSummary",
 "traits": {
 "smithy.api#documentation": "<p>Metadata that describes the start product subscription
operation.</p>",
 "smithy.api#required": {}
 }
 }
 }
},
"com.amazonaws.licenseanagerusersubscriptions#StringList": {
 "type": "list",
 "member": {
 "target": "smithy.api#String"
 }
},
"com.amazonaws.licenseanagerusersubscriptions#Subnet": {
 "type": "string",
 "traits": {
 "smithy.api#pattern": "subnet-[a-z0-9]{8,17}"
 }
},
"com.amazonaws.licenseanagerusersubscriptions#Subnets": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#Subnet"
 }
},
"com.amazonaws.licenseanagerusersubscriptions#ThrottlingException": {
 "type": "structure",
 "members": {
 "message": {
 "target": "smithy.api#String"
 }
 }
},
"traits": {
 "smithy.api#documentation":
"<p>The request was denied because of request throttling. Retry the request.</p>",
 "smithy.api#error": "client"
}
},

```

```

"com.amazonaws.licenseanagerusersubscriptions#UpdateIdentityProviderSettings": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#UpdateIdentityProviderSettingsRequest"
 },
 "output": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#UpdateIdentityProviderSettingsResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#InternalServerErrorException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ThrottlingException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Updates additional product configuration settings for the registered
identity\n provider.</p>",
 "smithy.api#http": {
 "code": 200,
 "method": "POST",
 "uri": "/identity-provider/UpdateIdentityProviderSettings"
 },
 "smithy.api#idempotent": {}
 }
},
"com.amazonaws.licenseanagerusersubscriptions#UpdateIdentityProviderSettingsRequest": {
 "type": "structure",
 "members": {
 "IdentityProvider": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#IdentityProvider",
 "traits": {
 "smithy.api#required": {}
 }
 }
 },
 "Product": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
 "smithy.api#required": {}
 }
 }
}

```

```

 }
 },
 "UpdateSettings": {
 "target": "com.amazonaws.licensemanagerusersubscriptions#UpdateSettings",
 "traits": {
 "smithy.api#documentation": "<p>Updates the registered identity providers product related
configuration settings. You can\n update any combination of settings in a single operation such as the:</p>\n
\n \n <p>Subnets which you want to add to provision VPC endpoints.</p>\n \n
 \n <p>Subnets which you want to remove the VPC endpoints from.</p>\n \n
 \n <p>Security group ID which permits traffic to the VPC endpoints.</p>\n \n ",
 "smithy.api#required": {}
 }
 }
},
"com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsResponse": {
 "type": "structure",
 "members": {
 "IdentityProviderSummary": {
 "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
 "traits": {
 "smithy.api#required": {}
 }
 }
 }
},
"com.amazonaws.licensemanagerusersubscriptions#UpdateSettings": {
 "type": "structure",
 "members": {
 "AddSubnets": {
 "target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
 "traits": {
 "smithy.api#documentation":
"<p>The ID of one or more subnets in which License Manager will create a VPC endpoint for products that\n
require connectivity to activation servers.</p>",
 "smithy.api#required": {}
 }
 },
 "RemoveSubnets": {
 "target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
 "traits": {
 "smithy.api#documentation": "<p>The ID of one or more subnets to remove.</p>",
 "smithy.api#required": {}
 }
 }
 }
},
"SecurityGroupId": {
 "target": "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup",

```

```

 "traits": {
 "smithy.api#documentation": "<p>A security group ID that allows inbound TCP port 1688
communication between resources in\n your VPC and the VPC endpoints for activation servers.</p>"
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>Updates the registered identity providers product related configuration
settings such as\n the subnets to provision VPC endpoints.</p>"
 },
 "com.amazonaws.licensemanagerusersubscriptions#ValidationException": {
 "type": "structure",
 "members": {
 "message": {
 "target": "smithy.api#String"
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>A parameter is not valid.</p>",
 "smithy.api#error": "client"
 }
 }
}
}
}

```

// Code generated by smithy-go-codegen DO NOT EDIT.

```
package licensemanager
```

```
import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

```

// Gets detailed information about the specified license.

```
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
 params = &GetLicenseInput{}
 }
}

```

```
result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)

```

```

if err != nil {
 return nil, err
}

out := result.(*GetLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version
 *string

 noSmithyDocumentSerde
}

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
}

```



```

}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if
err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack);
err != nil {
 return err
}

```

```

}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "GetLicense",
}
}
}

```

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// Code generated by smithy-go-codegen DO NOT EDIT.

```
package grafana
```

```
import (
```

```

"context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/grafana/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
if params == nil {
params = &DisassociateLicenseInput{}
}

result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
if err != nil {
return nil, err
}

out := result.(*DisassociateLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type DisassociateLicenseInput struct {

// The type of license to remove from the workspace.
//
// This
member is required.
LicenseType types.LicenseType

// The ID of the workspace to remove the Grafana Enterprise license from.
//
// This member is required.
WorkspaceId *string

noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

// A structure containing information about the workspace.
//
// This member is required.
Workspace *types.WorkspaceDescription

```

```

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack, options); err != nil {
return err
}
}

```

```

if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "grafana",
 OperationName: "DisassociateLicense",
}
}

```

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 "url": "https://license-manager.us-east-2.amazonaws.com"
 }
 },
 "params": {
 "UseFIPS": false,
 "UseDualStack": false,
 "Region": "us-east-2"
 }
 },
 {
 "documentation": "For region us-east-2 with FIPS enabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-fips.us-east-2.amazonaws.com"
 }
 },
 "params": {
 "UseFIPS": true,
 "UseDualStack": false,
 "Region": "us-east-2"
 }
 },
 {
 "documentation": "For region us-west-1 with FIPS disabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager.us-west-1.amazonaws.com"
 }
 },
 "params": {
 "UseFIPS": false,
 "UseDualStack": false,
 "Region": "us-west-1"
 }
 }
},
{
 "documentation": "For region us-west-1 with FIPS enabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-fips.us-west-1.amazonaws.com"
 }
 }
}

```

```

 }
 },
 "params": {
 "UseFIPS": true,
 "UseDualStack": false,
 "Region": "us-west-1"
 }
},
{
 "documentation": "For region us-west-2 with FIPS disabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager.us-west-2.amazonaws.com"
 }
 }
},
{
 "params": {
 "UseFIPS": false,
 "UseDualStack": false,
 "Region": "us-west-2"
 }
},
{
 "documentation": "For region us-west-2 with FIPS enabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-fips.us-west-2.amazonaws.com"
 }
 },
 "params": {
 "UseFIPS": true,
 "UseDualStack": false,
 "Region": "us-west-2"
 }
},
{
 "documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-fips.us-east-1.api.aws"
 }
 },
 "params": {
 "UseFIPS": true,
 "UseDualStack": true,
 "Region": "us-east-1"
 }
}

```

```

},
{
 "documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager.us-east-1.api.aws"
 }
 },
 "params": {
 "UseFIPS": false,
 "UseDualStack": true,
 "Region": "us-east-1"
 }
},
{
 "documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager.cn-north-1.amazonaws.com.cn"
 }
 },
 "params": {
 "UseFIPS": false,
 "UseDualStack": false,
 "Region": "cn-north-1"
 }
},
{
 "documentation": "For region cn-northwest-1 with FIPS disabled and DualStack disabled",

 "expect": {
 "endpoint": {
 "url": "https://license-manager.cn-northwest-1.amazonaws.com.cn"
 }
 },
 "params": {
 "UseFIPS": false,
 "UseDualStack": false,
 "Region": "cn-northwest-1"
 }
},
{
 "documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-fips.cn-north-1.api.amazonwebservices.com.cn"
 }
 }
}

```

```

 },
 "params": {
 "UseFIPS": true,
 "UseDualStack": true,
 "Region": "cn-north-1"
 }
 },
 {
 "documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-fips.cn-north-1.amazonaws.com.cn"
 }
 },
 "params": {
 "UseFIPS": true,
 "UseDualStack": false,
 "Region": "cn-north-1"
 }
 },
 {
 "documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager.cn-north-1.api.amazonwebservices.com.cn"
 }
 },
 "params": {
 "UseFIPS": false,
 "UseDualStack": true,
 "Region": "cn-north-1"
 }
 },
 {
 "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager.us-gov-east-1.amazonaws.com"
 }
 },
 "params": {
 "UseFIPS": false,
 "UseDualStack": false,

 "Region": "us-gov-east-1"
 }
 },
}

```

```

{
 "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-fips.us-gov-east-1.amazonaws.com"
 }
 },
 "params": {
 "UseFIPS": true,
 "UseDualStack": false,
 "Region": "us-gov-east-1"
 }
},
{
 "documentation": "For region us-gov-west-1 with FIPS disabled and DualStack disabled",
 "expect": {
 "endpoint": {

 "url": "https://license-manager.us-gov-west-1.amazonaws.com"
 }
 },
 "params": {
 "UseFIPS": false,
 "UseDualStack": false,
 "Region": "us-gov-west-1"
 }
},
{
 "documentation": "For region us-gov-west-1 with FIPS enabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-fips.us-gov-west-1.amazonaws.com"
 }
 },
 "params": {
 "UseFIPS": true,
 "UseDualStack": false,
 "Region": "us-gov-west-1"
 }
},
{
 "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-fips.us-gov-east-1.api.aws"
 }
 },
 "params": {

```



```

 "UseFIPS": true,
 "UseDualStack": true,
 "Region": "us-gov-east-1"
 }
},
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 "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack enabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager.us-gov-east-1.api.aws"
 }
 },
 "params": {
 "UseFIPS": false,
 "UseDualStack": true,
 "Region": "us-gov-east-1"
 }
},
{
 "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager.us-iso-east-1.c2s.ic.gov"
 }
 },
 "params": {
 "UseFIPS": false,
 "UseDualStack": false,
 "Region": "us-iso-east-1"
 }
},
{
 "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
 "expect": {
 "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
 },
 "params": {
 "UseFIPS": true,
 "UseDualStack": true,
 "Region": "us-iso-east-1"
 }
},
{
 "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-fips.us-iso-east-1.c2s.ic.gov"
 }
 }
}

```

```

 }
 },
 "params": {
 "UseFIPS": true,
 "UseDualStack": false,
 "Region": "us-iso-east-1"
 }
},
{
 "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
 "expect": {
 "error": "DualStack is enabled but this partition does not support DualStack"
 },
 "params": {
 "UseFIPS": false,
 "UseDualStack": true,
 "Region": "us-iso-east-1"
 }
},
{
 "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager.us-isob-east-1.sc2s.sgov.gov"
 }
 },
 "params": {
 "UseFIPS": false,
 "UseDualStack": false,
 "Region": "us-isob-east-1"
 }
},
{
 "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
 "expect": {
 "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
 },
 "params": {
 "UseFIPS": true,
 "UseDualStack": true,
 "Region": "us-isob-east-1"
 }
},
{
 "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
 "expect": {
 "endpoint": {

```

```

 "url": "https://license-manager-fips.us-isob-east-1.sc2s.sgov.gov"
 }
},
"params": {
 "UseFIPS": true,
 "UseDualStack": false,
 "Region": "us-isob-east-1"
}
},
{
 "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
 "expect": {
 "error": "DualStack is enabled but this partition does not support DualStack"
 },
 "params": {
 "UseFIPS": false,
 "UseDualStack": true,
 "Region": "us-isob-east-1"
 }
},
{
 "documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
 "expect": {
 "endpoint": {
 "url": "https://example.com"
 }
 },
 "params": {
 "UseFIPS": false,
 "UseDualStack": false,
 "Region": "us-east-1",
 "Endpoint": "https://example.com"
 }
},
{
 "documentation": "For custom endpoint with region not set and fips disabled and dualstack
disabled",
 "expect": {
 "endpoint": {
 "url": "https://example.com"
 }
 },
 "params": {
 "UseFIPS": false,
 "UseDualStack": false,
 "Endpoint": "https://example.com"
 }
}

```

```

 },
 {
 "documentation": "For custom endpoint with fips enabled and dualstack disabled",
 "expect": {
 "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
 },
 "params": {

"UseFIPS": true,
 "UseDualStack": false,
 "Region": "us-east-1",
 "Endpoint": "https://example.com"
 }
 },
 {
 "documentation": "For custom endpoint with fips disabled and dualstack enabled",
 "expect": {
 "error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
 },
 "params": {
 "UseFIPS": false,
 "UseDualStack": true,
 "Region": "us-east-1",
 "Endpoint": "https://example.com"
 }
 },
 {
 "documentation": "Missing region",

 "expect": {
 "error": "Invalid Configuration: Missing Region"
 }
 }
],
 "version": "1.0"
}
},
"com.amazonaws.licensemanager#AcceptGrant": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#AcceptGrantRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#AcceptGrantResponse"
 },
 "errors": [
 {

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 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
"traits": {
 "smithy.api#documentation": "<p>Accepts the specified grant.</p>"
}
},
"com.amazonaws.licensemanager#AcceptGrantRequest": {
 "type": "structure",
 "members": {
 "GrantArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
"smithy.api#required": {}
 }
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
},
"com.amazonaws.licensemanager#AcceptGrantResponse": {
 "type": "structure",
 "members": {
 "GrantArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {

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 "smithy.api#documentation": "<p>Grant ARN.</p>"
 }
},
"Status": {
 "target": "com.amazonaws.licensemanager#GrantStatus",
 "traits": {
 "smithy.api#documentation": "<p>Grant status.</p>"
 }
},
"Version": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Grant version.</p>"
 }
}
}
},
"traits": {
 "smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#AccessDeniedException": {
 "type": "structure",
 "members": {
 "Message": {
 "target": "com.amazonaws.licensemanager#Message"
 }
 },
 "traits": {
 "aws.protocols#awsQueryError": {
 "code": "ServiceAccessDenied",
 "httpResponseCode": 401
 },
 "smithy.api#documentation": "<p>Access to resource denied.</p>",
 "smithy.api#error": "client",
 "smithy.api#httpError": 401
 }
},
"com.amazonaws.licensemanager#ActivationOverrideBehavior": {
 "type": "enum",
 "members": {
 "DISTRIBUTED_GRANTS_ONLY": {
 "target": "smithy.api#Unit",

```

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"ALL_GRANTS_PERMITTED_BY_ISSUER": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "ALL_GRANTS_PERMITTED_BY_ISSUER"
 }
}
},
"com.amazonaws.licensemanager#AllowedOperation": {
 "type": "enum",
 "members": {
 "CREATE_GRANT": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "CreateGrant"
 }
 },
 "CHECKOUT_LICENSE": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "CheckoutLicense"
 }
 },
 "CHECKOUT_BORROW_LICENSE":
{
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "CheckoutBorrowLicense"
 }
},
 "CHECK_IN_LICENSE": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "CheckInLicense"
 }
 },
 "EXTEND_CONSUMPTION_LICENSE": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "ExtendConsumptionLicense"
 }
 },
 "LIST_PURCHASED_LICENSES": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "ListPurchasedLicenses"
 }
 },
 },
}

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"CREATE_TOKEN": {
 "target": "smithy.api#Unit",

 "traits": {
 "smithy.api#enumValue": "CreateToken"
 }
},
"com.amazonaws.licensemanager#AllowedOperationList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#AllowedOperation"
 },
 "traits": {
 "smithy.api#length": {
 "min": 1,
 "max": 7
 }
 }
},
"com.amazonaws.licensemanager#Arn": {
 "type": "string",
 "traits": {
 "smithy.api#length": {
 "min": 0,
 "max": 2048
 },
 "smithy.api#pattern": "^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:/+=,@.-]{0,1023}$"
 }
},
"com.amazonaws.licensemanager#ArnList":
{
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#Arn"
 }
},
"com.amazonaws.licensemanager#AuthorizationException": {
 "type": "structure",
 "members": {
 "Message": {
 "target": "com.amazonaws.licensemanager#Message"
 }
 },
 "traits": {
 "aws.protocols#awsQueryError": {

```



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 "code": "AuthorizationFailure",
 "httpResponseCode": 403
 },
 "smithy.api#documentation": "<p>The Amazon Web Services user account does not have permission to
perform the action. Check the IAM\n policy associated with this account.</p>",
 "smithy.api#error": "client",
 "smithy.api#httpError": 403
}
},
"com.amazonaws.licensemanager#AutomatedDiscoveryInformation": {
 "type":
"structure",
 "members": {
 "LastRunTime": {
 "target": "com.amazonaws.licensemanager#DateTime",
 "traits": {
 "smithy.api#documentation": "<p>Time that automated discovery last ran.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>Describes automated discovery.</p>"
 }
},
"com.amazonaws.licensemanager#Boolean": {
 "type": "boolean",
 "traits": {
 "smithy.api#default": false
 }
},
"com.amazonaws.licensemanager#BorrowConfiguration": {
 "type": "structure",
 "members": {
 "AllowEarlyCheckIn": {
 "target": "com.amazonaws.licensemanager#BoxBoolean",
 "traits": {
 "smithy.api#documentation": "<p>Indicates whether early check-ins are
allowed.</p>",
 "smithy.api#required": {}
 }
 },
 "MaxTimeToLiveInMinutes": {
 "target": "com.amazonaws.licensemanager#BoxInteger",
 "traits": {
 "smithy.api#documentation": "<p>Maximum time for the borrow configuration, in minutes.</p>",
 "smithy.api#required": {}
 }
 }
 }
}

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 },
 "traits": {
 "smithy.api#documentation": "<p>Details about a borrow configuration.</p>"
 }
 },
 "com.amazonaws.licensemanager#BoxBoolean": {
 "type": "boolean"
 },
 "com.amazonaws.licensemanager#BoxInteger": {
 "type": "integer"
 },
 "com.amazonaws.licensemanager#BoxLong": {
 "type": "long"
 },
 "com.amazonaws.licensemanager#CheckInLicense": {
 "type": "operation",
 "input":
 {
 "target": "com.amazonaws.licensemanager#CheckInLicenseRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#CheckInLicenseResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#ConflictException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"

```

```

 }
],
 "traits": {
 "smithy.api#documentation": "<p>Checks in the specified license. Check in a license when it is no longer
in use.</p>"
 }
},
"com.amazonaws.licensemanager#CheckInLicenseRequest": {
 "type": "structure",
 "members": {
 "LicenseConsumptionToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>License consumption token.</p>",
 "smithy.api#required": {}
 }
 }
 },
 "Beneficiary": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>License beneficiary.</p>"
 }
 }
},
"traits": {
 "smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CheckInLicenseResponse": {
 "type": "structure",
 "members": {},
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#CheckoutBorrowLicense": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 }
],
}

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 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#EntitlementNotAllowedException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#RedirectException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Checks out the specified license for offline use.</p>"
 }
},
"com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest": {
 "type": "structure",
 "members": {
 "LicenseArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license. The license must use the borrow consumption configuration.</p>",
 "smithy.api#required": {}
 }
 }
 },
 "Entitlements": {
 "target": "com.amazonaws.licensemanager#EntitlementDataList",

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 "traits":
 {
 "smithy.api#documentation": "<p>License entitlements. Partial checkouts are not supported.</p>",
 "smithy.api#required": {}
 }
},
"DigitalSignatureMethod": {
 "target": "com.amazonaws.licensemanager#DigitalSignatureMethod",
 "traits": {
 "smithy.api#documentation": "<p>Digital signature method. The possible value is JSON Web
Signature (JWS) algorithm PS384.\n For more information, see RFC 7518 Digital Signature with RSASSA-PSS.</p>",
 "smithy.api#required": {}
 }
},
"NodeId": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Node ID.</p>"
 }
},
},
"CheckoutMetadata": {
 "target": "com.amazonaws.licensemanager#MetadataList",
 "traits": {
 "smithy.api#documentation": "<p>Information about constraints.</p>"
 }
},
"ClientToken": {
 "target": "com.amazonaws.licensemanager#ClientToken",
 "traits": {
 "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",
 "smithy.api#required": {}
 }
}
},
"traits": {
 "smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse": {
 "type": "structure",
 "members": {
 "LicenseArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
 }
 }
 }
}

```

```

 }
 },
 "LicenseConsumptionToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>License consumption token.</p>"
 }
 },
 "EntitlementsAllowed": {
 "target": "com.amazonaws.licensemanager#EntitlementDataList",
 "traits": {
 "smithy.api#documentation": "<p>Allowed license entitlements.</p>"
 }
 },
 "NodeId": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Node ID.</p>"
 }
 },
 "SignedToken":
{
 "target": "com.amazonaws.licensemanager#SignedToken",
 "traits": {
 "smithy.api#documentation": "<p>Signed token.</p>"
 }
},
 "IssuedAt": {
 "target": "com.amazonaws.licensemanager#ISO8601DateTime",
 "traits": {
 "smithy.api#documentation": "<p>Date and time at which the license checkout is issued.</p>"
 }
 },
 "Expiration": {
 "target": "com.amazonaws.licensemanager#ISO8601DateTime",
 "traits": {
 "smithy.api#documentation": "<p>Date and time at which the license checkout expires.</p>"
 }
 },
 "CheckoutMetadata": {
 "target": "com.amazonaws.licensemanager#MetadataList",
 "traits": {
 "smithy.api#documentation":
"<p>Information about constraints.</p>"
 }
 }
},
 "traits": {

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 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#CheckoutLicense": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#CheckoutLicenseRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#CheckoutLicenseResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#RedirectException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Checks out the specified license.</p>\n <note>\n <p>If the
account that created the license
is the same that is performing the check out, you must\n specify the account as the beneficiary.</p>\n
</note>"
 }
}

```

```

 }
 },
 "com.amazonaws.licensemanager#CheckoutLicenseRequest": {
 "type": "structure",
 "members": {
 "ProductSKU": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Product SKU.</p>",
 "smithy.api#required": {}
 }
 },
 "CheckoutType": {
 "target": "com.amazonaws.licensemanager#CheckoutType",
 "traits": {
 "smithy.api#documentation": "<p>Checkout type.</p>",
 "smithy.api#required": {}
 }
 },
 "KeyFingerprint": {
 "target": "com.amazonaws.licensemanager#String",

 "traits": {
 "smithy.api#documentation": "<p>Key fingerprint identifying the license.</p>",
 "smithy.api#required": {}
 }
 },
 "Entitlements": {
 "target": "com.amazonaws.licensemanager#EntitlementDataList",
 "traits": {
 "smithy.api#documentation": "<p>License entitlements.</p>",
 "smithy.api#required": {}
 }
 },
 "ClientToken": {
 "target": "com.amazonaws.licensemanager#ClientToken",
 "traits": {
 "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
 "smithy.api#required": {}
 }
 },
 "Beneficiary": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>License beneficiary.</p>"
 }
 }
 }
 },

```



```

 "NodeId": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Node ID.</p>"
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
 },
 "com.amazonaws.licensemanager#CheckoutLicenseResponse": {
 "type": "structure",
 "members": {
 "CheckoutType": {
 "target": "com.amazonaws.licensemanager#CheckoutType",
 "traits": {
 "smithy.api#documentation": "<p>Checkout type.</p>"
 }
 },
 "LicenseConsumptionToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>License consumption token.</p>"
 }
 },
 "EntitlementsAllowed": {
 "target": "com.amazonaws.licensemanager#EntitlementDataList",
 "traits": {
 "smithy.api#documentation": "<p>Allowed license entitlements.</p>"
 }
 },
 "SignedToken": {
 "target": "com.amazonaws.licensemanager#SignedToken",
 "traits": {
 "smithy.api#documentation": "<p>Signed token.</p>"
 }
 },
 "NodeId": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Node ID.</p>"
 }
 },
 "IssuedAt": {
 "target": "com.amazonaws.licensemanager#ISO8601DateTime",
 "traits": {
 "smithy.api#documentation": "<p>Date and time at which the license checkout is issued.</p>"
 }
 }
 }
 }
}

```

```

 }
 },
 "Expiration": {
 "target": "com.amazonaws.licensemanager#ISO8601DateTime",
 "traits": {
 "smithy.api#documentation": "<p>Date and time at which the license checkout expires.</p>"
 }
 },
 "LicenseArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the checkout license.</p>"
 }
 }
},
"traits": {
 "smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CheckoutType":
{
 "type": "enum",
 "members": {
 "PROVISIONAL": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "PROVISIONAL"
 }
 },
 "PERPETUAL": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "PERPETUAL"
 }
 }
 }
}
},
"com.amazonaws.licensemanager#ClientRequestToken": {
 "type": "string",
 "traits": {
 "smithy.api#length": {
 "min": 1,
 "max": 36
 }
 }
}
},
"com.amazonaws.licensemanager#ClientToken": {
 "type": "string",

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```

"traits": {
 "smithy.api#length": {
 "min": 0,
 "max": 2048
 },
 "smithy.api#pattern": "^\\S+$"
}
},
"com.amazonaws.licensemanager#ConflictException": {
 "type": "structure",
 "members": {
 "Message": {
 "target": "com.amazonaws.licensemanager#Message"
 }
 },
 "traits": {
 "aws.protocols#awsQueryError": {
 "code": "ConflictException",
 "httpResponseCode": 409
 },
 "smithy.api#documentation": "<p>There was a conflict processing the request. Try your request again.</p>",
 "smithy.api#error": "client",
 "smithy.api#httpError": 409
 }
},
"com.amazonaws.licensemanager#ConsumedLicenseSummary": {
 "type": "structure",
 "members": {
 "ResourceType": {
 "target": "com.amazonaws.licensemanager#ResourceType",
 "traits": {
 {
 "smithy.api#documentation": "<p>Resource type of the resource consuming a license.</p>"
 }
 },
 },
 "ConsumedLicenses": {
 "target": "com.amazonaws.licensemanager#BoxLong",
 "traits": {
 "smithy.api#documentation": "<p>Number of licenses consumed by the resource.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>Details about license consumption.</p>"
 }
},
"com.amazonaws.licensemanager#ConsumedLicenseSummaryList": {

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 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#ConsumedLicenseSummary"
 }
 },
 "com.amazonaws.licensemanager#ConsumptionConfiguration": {
 "type": "structure",
 "members": {
 "RenewType": {
 "target": "com.amazonaws.licensemanager#RenewType",
 "traits": {
 "smithy.api#documentation": "<p>Renewal frequency.</p>"
 }
 },
 "ProvisionalConfiguration": {
 "target": "com.amazonaws.licensemanager#ProvisionalConfiguration",
 "traits": {
 "smithy.api#documentation": "<p>Details about a provisional configuration.</p>"
 }
 },
 "BorrowConfiguration": {
 "target": "com.amazonaws.licensemanager#BorrowConfiguration",
 "traits": {
 "smithy.api#documentation": "<p>Details about a borrow configuration.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>Details about a consumption configuration.</p>"
 }
 },
 "com.amazonaws.licensemanager#CreateGrant":
{
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#CreateGrantRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#CreateGrantResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 }
],

```

```

 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Creates a grant for the specified license. A grant shares the use of
license\n entitlements with a specific Amazon Web Services account, an organization, or an\n
organizational unit (OU). For more information, see <a href=\"https://docs.aws.amazon.com/license-
manager/latest/userguide/granted-licenses.html\">Granted licenses in License Manager in the <i>License
Manager User Guide</i>.</p>"
 }
},
"com.amazonaws.licensemanager#CreateGrantRequest": {
 "type": "structure",
 "members": {
 "ClientToken": {
 "target": "com.amazonaws.licensemanager#ClientToken",
 "traits": {
 "smithy.api#documentation":
"<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
 "smithy.api#required": {}
 }
 },
 "GrantName": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Grant name.</p>",
 "smithy.api#required": {}
 }
 },
 "LicenseArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
 "smithy.api#required": {}
 }
 }
 }
}

```

```

 },
 "Principals": {
 "target": "com.amazonaws.licensemanager#PrincipalArnList",
 "traits": {
 "smithy.api#documentation":
 "<p>The grant principals. You can specify one of the following as an Amazon Resource Name\n
 (ARN):</p>\n \n \n <p>An Amazon Web Services account, which includes only the\n
 account specified.</p>\n \n \n \n \n <p>An organizational unit\n
 (OU), which includes all accounts in the OU.</p>\n \n \n \n \n <p>An organization, which will include all accounts across your organization.</p>\n \n ",
 "smithy.api#required": {}
 }
 },
 },
 "HomeRegion": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Home Region of the grant.</p>",
 "smithy.api#required": {}
 }
 }
 }
},
"AllowedOperations": {
 "target": "com.amazonaws.licensemanager#AllowedOperationList",
 "traits": {
 "smithy.api#documentation": "<p>Allowed operations for the grant.</p>",
 "smithy.api#required": {}
 }
}
},
"traits": {
 "smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateGrantResponse": {
 "type": "structure",
 "members": {
 "GrantArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>Grant ARN.</p>"
 }
 }
 },
 "Status": {
 "target": "com.amazonaws.licensemanager#GrantStatus",
 "traits": {
 "smithy.api#documentation":
 "<p>Grant status.</p>"
 }
 }
}

```

```

 },
 "Version": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Grant version.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#CreateGrantVersion": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#CreateGrantVersionRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#CreateGrantVersionResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Creates a new version of the specified grant. For more information, see\n Granted licenses in License Manager in the <i>License Manager User Guide</i>.</p>"
 }
}

```

```

 }
 },
 "com.amazonaws.licensemanager#CreateGrantVersionRequest": {
 "type": "structure",
 "members": {
 "ClientToken": {
 "target": "com.amazonaws.licensemanager#ClientToken",
 "traits": {
 "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
 "smithy.api#required": {}
 }
 },
 "GrantArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
 "smithy.api#required": {}
 }
 },
 "GrantName": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Grant name.</p>"
 }
 },
 "AllowedOperations": {
 "target": "com.amazonaws.licensemanager#AllowedOperationList",
 "traits": {
 "smithy.api#documentation": "<p>Allowed operations for the grant.</p>"
 }
 },
 "Status": {
 "target": "com.amazonaws.licensemanager#GrantStatus",
 "traits": {
 "smithy.api#documentation": "<p>Grant status.</p>"
 }
 },
 "StatusReason": {
 "target": "com.amazonaws.licensemanager#StatusReasonMessage",
 "traits": {
 "smithy.api#documentation": "<p>Grant status reason.</p>"
 }
 },
 "SourceVersion": {
 "target": "com.amazonaws.licensemanager#String",

```



```

 "traits": {
 "smithy.api#documentation": "<p>Current version of the grant.</p>"
 }
 },
 "Options": {
 "target": "com.amazonaws.licensemanager#Options",
 "traits": {
 "smithy.api#documentation": "<p>The options specified for the grant.</p>"
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
},
"com.amazonaws.licensemanager#CreateGrantVersionResponse": {
 "type": "structure",
 "members": {
 "GrantArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>Grant ARN.</p>"
 }
 },
 "Status": {
 "target": "com.amazonaws.licensemanager#GrantStatus",
 "traits": {
 "smithy.api#documentation": "<p>Grant status.</p>"
 }
 },
 "Version": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>New version of the grant.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#CreateLicense": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#CreateLicenseRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#CreateLicenseResponse"
 }
}

```

```

 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 }
],
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#RedirectException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Creates a license.</p>"
 }
},
"com.amazonaws.licensemanager#CreateLicenseConfiguration": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#CreateLicenseConfigurationRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#CreateLicenseConfigurationResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {

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```

 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 }
],
"traits": {
 "smithy.api#documentation": "<p>Creates a license configuration.</p>\n <p>A license configuration is an abstraction of a customer license agreement that can be\n consumed and enforced by License Manager. Components include specifications for the license\n type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n Dedicated Instance, Dedicated Host, or all of these), license affinity to host (how long a \n license must be associated with a host), and the number of licenses purchased and used.</p>"
}
},
"com.amazonaws.licensemanager#CreateLicenseConfigurationRequest": {
 "type": "structure",
 "members": {
 "Name": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Name of the license configuration.</p>",
 "smithy.api#required": {}
 }
 },
 "Description": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Description of the license configuration.</p>"
 }
 },
 "LicenseCountingType": {
 "target": "com.amazonaws.licensemanager#LicenseCountingType",
 "traits": {
 "smithy.api#documentation": "<p>Dimension used to track the license inventory.</p>",
 "smithy.api#required": {}
 }
 },
 "LicenseCount": {
 "target": "com.amazonaws.licensemanager#BoxLong",
 "traits": {
 "smithy.api#documentation": "<p>Number of licenses managed by the license configuration.</p>"
 }
 }
 }
}

```

```

 }
 },
 "LicenseCountHardLimit": {
 "target": "com.amazonaws.licensemanager#BoxBoolean",
 "traits": {
 "smithy.api#documentation": "<p>Indicates whether hard or soft license enforcement is used. Exceeding a hard limit\n blocks the launch of new instances.</p>"
 }
 },
 "LicenseRules": {
 "target": "com.amazonaws.licensemanager#StringList",
 "traits": {
 "smithy.api#documentation": "<p>License rules. The syntax is #name=value (for example, #allowedTenancy=EC2-DedicatedHost). The available rules \n vary by dimension, as follows.</p>\n
 \n
 \n
 <p>\n
 <code>Cores</code> dimension: <code>allowedTenancy</code> |\n
 <code>licenseAffinityToHost</code> |\n
 <code>maximumCores</code> |\n
 <code>minimumCores</code>\n
 </p>\n
 \n
 \n
 <p>\n
 <code>Instances</code> dimension:\n
 <code>allowedTenancy</code> | \n
 <code>maximumCores</code> | <code>minimumCores</code> |\n
 <code>maximumSockets</code> | <code>minimumSockets</code> |\n
 <code>maximumVcpus</code> | <code>minimumVcpus</code>\n
 </p>\n
 \n
 \n
 <p>\n
 <code>Sockets</code> dimension: <code>allowedTenancy</code> | \n
 <code>licenseAffinityToHost</code> |\n
 <code>maximumSockets</code> |\n
 <code>minimumSockets</code>\n
 </p>\n
 \n
 \n
 <p>\n
 <code>vCPUs</code> dimension: <code>allowedTenancy</code> | \n
 <code>honorVcpuOptimization</code> | \n
 <code>maximumVcpus</code> |\n
 <code>minimumVcpus</code>\n
 </p>\n
 \n
 \n
 <p>The unit for <code>licenseAffinityToHost</code> is days and the range is 1 to 180. The possible \n values for <code>allowedTenancy</code> are <code>EC2-Default</code>, <code>EC2-DedicatedHost</code>, and \n <code>EC2-DedicatedInstance</code>. The possible values for <code>honorVcpuOptimization</code> are \n <code>True</code> and <code>False</code>.</p>"
 }
 },
 "Tags": {
 "target": "com.amazonaws.licensemanager#TagList",
 "traits": {
 "smithy.api#documentation": "<p>Tags to add to the license configuration.</p>"
 }
 },
 "DisassociateWhenNotFound": {
 "target": "com.amazonaws.licensemanager#BoxBoolean",
 "traits": {
 "smithy.api#documentation": "<p>When true, disassociates a resource when software is uninstalled.</p>"
 }
 },
 "ProductInformationList": {
 "target": "com.amazonaws.licensemanager#ProductInformationList",

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 "traits": {
 "smithy.api#documentation": "<p>Product information.</p>"
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
 },
 "com.amazonaws.licensemanager#CreateLicenseConfigurationResponse": {
 "type": "structure",
 "members": {
 "LicenseConfigurationArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
 }
 },
 "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource":
{
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 }
]
}

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```

 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Creates a new license conversion task.</p>"
 }
},
"com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest": {
 "type": "structure",
 "members": {
 "ResourceArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource you are converting
the license type for.</p>",
 "smithy.api#required": {}
 }
 },
 "SourceLicenseContext": {
 "target": "com.amazonaws.licensemanager#LicenseConversionContext",
 "traits": {
 "smithy.api#documentation":
"<p>Information that identifies the license type you are converting from. \n\n For the structure of the source
license, see <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/conversion-
procedures.html#conversion-cli\">Convert a license type using the CLI in the <i>License Manager User
Guide</i>.</p>",
 "smithy.api#required": {}
 }
 },
 "DestinationLicenseContext": {
 "target": "com.amazonaws.licensemanager#LicenseConversionContext",
 "traits": {
 "smithy.api#documentation": "<p>Information that identifies the license type you are converting to.
For the structure of the destination license, see <a href=\"https://docs.aws.amazon.com/license-
manager/latest/userguide/conversion-procedures.html#conversion-cli\">Convert a license type using the CLI in
the <i>License Manager User Guide</i>.</p>",
 "smithy.api#required": {}
 }
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
},
"com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse": {

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```

"type": "structure",
"members": {
 "LicenseConversionTaskId": {
 "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
 "traits": {
 "smithy.api#documentation": "<p>The ID of the created license type conversion task.</p>"
 }
 }
},
"traits": {
 "smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
 "traits": {

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 "smithy.api#documentation": "<p>Creates a report generator.</p>"
 }
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest": {
 "type": "structure",
 "members": {
 "ReportGeneratorName": {
 "target": "com.amazonaws.licensemanager#ReportGeneratorName",
 "traits": {
 "smithy.api#documentation": "<p>Name of the report generator.</p>",
 "smithy.api#required": {}
 }
 }
 },
 "Type": {
 "target": "com.amazonaws.licensemanager#ReportTypeList",
 "traits": {
 "smithy.api#documentation": "<p>Type of reports to generate. The following report types can be generated:</p>\n \n \n <p>License configuration report - Reports the number and details of consumed licenses for a license configuration.</p>\n \n \n <p>Resource report - Reports the tracked licenses and resource consumption for a license configuration.</p>\n \n ",
 "smithy.api#required": {}
 }
 }
 },
 "ReportContext": {
 "target": "com.amazonaws.licensemanager#ReportContext",
 "traits": {
 "smithy.api#documentation": "<p>Defines the type of license configuration the report generator tracks.</p>",
 "smithy.api#required": {}
 }
 },
 "ReportFrequency": {
 "target": "com.amazonaws.licensemanager#ReportFrequency",

 "traits": {
 "smithy.api#documentation": "<p>Frequency by which reports are generated. Reports can be generated daily, monthly, or weekly.</p>",
 "smithy.api#required": {}
 }
 },
 "ClientToken": {
 "target": "com.amazonaws.licensemanager#ClientRequestToken",
 "traits": {
 "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
 "smithy.api#required": {}
 }
 }
}

```



```

 },
 "Description": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Description of the report generator.</p>"
 }
 },
 "Tags": {
 "target": "com.amazonaws.licensemanager#TagList",
 "traits": {
 "smithy.api#documentation": "<p>Tags to add to the report generator.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse": {
 "type": "structure",
 "members": {
 "LicenseManagerReportGeneratorArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the new report generator.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#CreateLicenseRequest": {
 "type": "structure",
 "members": {
 "LicenseName": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>License name.</p>",
 "smithy.api#required": {}
 }
 },
 "ProductName": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Product name.</p>",

```

```

 "smithy.api#required": {}
 }
},
"ProductSKU": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Product SKU.</p>",
 "smithy.api#required": {}
 }
},
"Issuer": {
 "target": "com.amazonaws.licensemanager#Issuer",

"traits": {
 "smithy.api#documentation": "<p>License issuer.</p>",
 "smithy.api#required": {}
}
},
"HomeRegion": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Home Region for the license.</p>",
 "smithy.api#required": {}
 }
},
"Validity": {
 "target": "com.amazonaws.licensemanager#DatetimeRange",
 "traits": {
 "smithy.api#documentation": "<p>Date and time range during which the license is valid, in ISO8601-
UTC format.</p>",
 "smithy.api#required": {}
 }
},
"Entitlements": {
 "target": "com.amazonaws.licensemanager#EntitlementList",
 "traits":
{
 "smithy.api#documentation": "<p>License entitlements.</p>",
 "smithy.api#required": {}
}
},
"Beneficiary": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>License beneficiary.</p>",
 "smithy.api#required": {}
 }
},

```

```

"ConsumptionConfiguration": {
 "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
 "traits": {
 "smithy.api#documentation": "<p>Configuration for consumption of the license. Choose a provisional
configuration for workloads\n running with continuous connectivity. Choose a borrow configuration for
workloads with offline\n usage.</p>",
 "smithy.api#required": {}
 }
},
"LicenseMetadata": {
 "target": "com.amazonaws.licensemanager#MetadataList",
 "traits": {
 "smithy.api#documentation": "<p>Information about the license.</p>"
 }
},
"ClientToken": {
 "target": "com.amazonaws.licensemanager#ClientToken",
 "traits": {
 "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",
 "smithy.api#required": {}
 }
},
"traits": {
 "smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseResponse": {
 "type": "structure",
 "members": {
 "LicenseArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
 }
 },
 "Status": {
 "target": "com.amazonaws.licensemanager#LicenseStatus",
 "traits": {
 "smithy.api#documentation": "<p>License status.</p>"
 }
 },
 "Version": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>License version.</p>"
 }
 }
 }
}

```

```

 }
 }
},
"traits": {
 "smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseVersion": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#CreateLicenseVersionRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#CreateLicenseVersionResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#ConflictException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#RedirectException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 }
],
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
"traits": {
 "smithy.api#documentation": "<p>Creates a new version of the specified license.</p>"
}
},
"com.amazonaws.licensemanager#CreateLicenseVersionRequest": {
 "type": "structure",

```

```

"members": {
 "LicenseArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
 "smithy.api#required": {}
 }
 },
 "LicenseName": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>License name.</p>",
 "smithy.api#required": {}
 }
 }
},
"ProductName": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Product name.</p>",
 "smithy.api#required": {}
 }
},
"Issuer": {
 "target": "com.amazonaws.licensemanager#Issuer",
 "traits": {
 "smithy.api#documentation": "<p>License issuer.</p>",
 "smithy.api#required": {}
 }
},
"HomeRegion": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Home Region of the license.</p>",
 "smithy.api#required": {}
 }
},
"Validity": {
 "target": "com.amazonaws.licensemanager#DatetimeRange",
 "traits": {
 "smithy.api#documentation": "<p>Date and time range during which the license is valid, in ISO8601-
UTC format.</p>",
 "smithy.api#required": {}
 }
},
"LicenseMetadata": {
 "target": "com.amazonaws.licensemanager#MetadataList",

```

```

 "traits": {
 "smithy.api#documentation": "<p>Information about the license.</p>"
 }
 },
 "Entitlements": {
 "target": "com.amazonaws.licensemanager#EntitlementList",
 "traits": {
 "smithy.api#documentation": "<p>License entitlements.</p>",
 "smithy.api#required": {}
 }
 },
 "ConsumptionConfiguration": {
 "target":
"com.amazonaws.licensemanager#ConsumptionConfiguration",
 "traits": {
 "smithy.api#documentation": "<p>Configuration for consumption of the license. Choose a provisional
configuration for workloads\n running with continuous connectivity. Choose a borrow configuration for
workloads with offline\n usage.</p>",
 "smithy.api#required": {}
 }
 },
 "Status": {
 "target": "com.amazonaws.licensemanager#LicenseStatus",
 "traits": {
 "smithy.api#documentation": "<p>License status.</p>",
 "smithy.api#required": {}
 }
 },
 "ClientToken": {
 "target": "com.amazonaws.licensemanager#ClientToken",
 "traits": {
 "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you
provide to ensure the idempotency of the request.</p>",
 "smithy.api#required": {}
 }
 },
 "SourceVersion": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Current version of the license.</p>"
 }
 }
},
"traits": {
 "smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseVersionResponse": {

```

```

"type": "structure",
"members": {
 "LicenseArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>License ARN.</p>"
 }
 },
 "Version": {
 "target": "com.amazonaws.licensemanager#String",

 "traits": {
 "smithy.api#documentation": "<p>New version of the license.</p>"
 }
 },
 "Status": {
 "target": "com.amazonaws.licensemanager#LicenseStatus",
 "traits": {
 "smithy.api#documentation": "<p>License status.</p>"
 }
 }
},
"traits": {
 "smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CreateToken": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#CreateTokenRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#CreateTokenResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#RedirectException"
 }
],

```

```

 {
 "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Creates a long-lived token.</p>\n <p>A refresh token is a JWT token used to get an access token. With an access token,\n you can call AssumeRoleWithWebIdentity to get role credentials that you can use to \n call License Manager to manage the specified license.</p>"
 }
},
"com.amazonaws.licensemanager#CreateTokenRequest": {
 "type": "structure",
 "members": {
 "LicenseArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license. The ARN is mapped to the aud claim of the\n JWT token.</p>",
 "smithy.api#required": {}
 }
 },
 "RoleArns": {
 "target": "com.amazonaws.licensemanager#ArnList",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the IAM roles to embed in the token. \n License Manager does not check whether the roles are in use.</p>"
 }
 },
 "ExpirationInDays": {
 "target": "com.amazonaws.licensemanager#Integer",
 "traits": {
 "smithy.api#documentation": "<p>Token expiration, in days, counted from token creation. The default is 365 days.</p>"
 }
 },
 "TokenProperties": {
 "target": "com.amazonaws.licensemanager#MaxSize3StringList",

```



```

 "traits": {
 "smithy.api#documentation": "<p>Data specified by the caller to be included in the JWT token. The
data is mapped\n to the amr claim of the JWT token.</p>"
 }
 },
 "ClientToken": {
 "target": "com.amazonaws.licensemanager#ClientToken",
 "traits": {
 "smithy.api#documentation":
"<p>Idempotency token, valid for 10 minutes.</p>",
 "smithy.api#required": {}
 }
 }
},
"traits": {
 "smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateTokenResponse": {
 "type": "structure",
 "members": {
 "TokenId": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token ID.</p>"
 }
 },
 "TokenType": {
 "target": "com.amazonaws.licensemanager#TokenType",
 "traits": {
 "smithy.api#documentation": "<p>Token type.</p>"
 }
 },
 "Token": {
 "target": "com.amazonaws.licensemanager#TokenString",
 "traits": {
 "smithy.api#documentation": "<p>Refresh token, encoded as a JWT token.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#DateTime": {
 "type": "timestamp"
},

```

```

"com.amazonaws.licensemanager#DatetimeRange": {
 "type": "structure",
 "members": {
 "Begin": {
 "target": "com.amazonaws.licensemanager#ISO8601DateTime",
 "traits": {
 "smithy.api#documentation": "<p>Start of the time range.</p>",
 "smithy.api#required": {}
 }
 },
 "End": {
 "target": "com.amazonaws.licensemanager#ISO8601DateTime",
 "traits": {
 "smithy.api#documentation": "<p>End of the time range.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>Describes a time range, in ISO8601-UTC format.</p>"
 }
},
"com.amazonaws.licensemanager#DeleteGrant": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#DeleteGrantRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#DeleteGrantResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 }
]
}

```

```

 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Deletes the specified grant.</p>"
 }
},
"com.amazonaws.licensemanager#DeleteGrantRequest": {
 "type": "structure",
 "members": {
 "GrantArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
 "smithy.api#required": {}
 }
 },
 "StatusReason": {
 "target": "com.amazonaws.licensemanager#StatusReasonMessage",
 "traits": {
 "smithy.api#documentation": "<p>The Status reason for the delete request.</p>"
 }
 },
 "Version": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Current version of the grant.</p>",
 "smithy.api#required": {}
 }
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
},
"com.amazonaws.licensemanager#DeleteGrantResponse": {
 "type": "structure",
 "members": {
 "GrantArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>Grant ARN.</p>"
 }
 },
 "Status": {

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```

 "target": "com.amazonaws.licensemanager#GrantStatus",
 "traits": {
 "smithy.api#documentation": "<p>Grant status.</p>"
 }
 },
 "Version": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Grant version.</p>"
 }
 }
},
"traits": {
 "smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#DeleteLicense": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#DeleteLicenseRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#DeleteLicenseResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#ConflictException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#RedirectException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {

```

```

 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
"traits": {
 "smithy.api#documentation": "<p>Deletes the specified license.</p>"
}
},
"com.amazonaws.licensemanager#DeleteLicenseConfiguration": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 }
]
}
},
"traits": {
 "smithy.api#documentation": "<p>Deletes the specified license configuration.</p>\n <p>You cannot delete a license configuration that is in use.</p>"
}
},
"com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest": {
 "type": "structure",
 "members": {
 "LicenseConfigurationArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>ID of the license configuration.</p>",
 "smithy.api#required": {}
 }
 }
 }
}

```

```

 }
 },
 "traits": {
 "smithy.api#input": {}
 }
},
"com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse": {
 "type": "structure",
 "members": {},
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
]
},

```

```

 "traits": {
 "smithy.api#documentation": "<p>Deletes the specified report generator.</p>\n <p>This action
deletes the report generator, which stops it from generating future reports.\n The action cannot be reversed. It
has no effect on the previous reports from this generator.</p>"
 }
 },
 "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest": {

 "type": "structure",
 "members": {
 "LicenseManagerReportGeneratorArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator to be
deleted.</p>",
 "smithy.api#required": {}
 }
 },
 },
 "traits": {
 "smithy.api#input": {}
 }
 },
 "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse": {
 "type": "structure",
 "members": {},
 "traits": {
 "smithy.api#output": {}
 }
 },
 "com.amazonaws.licensemanager#DeleteLicenseRequest": {
 "type": "structure",
 "members": {
 "LicenseArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits":
{
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
 "smithy.api#required": {}
 }
 },
 },
 "SourceVersion": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Current version of the license.</p>",
 "smithy.api#required": {}
 }
 }
 }
}

```

```

 },
 "traits": {
 "smithy.api#input": {}
 }
 },
 "com.amazonaws.licensemanager#DeleteLicenseResponse": {
 "type": "structure",
 "members": {
 "Status": {
 "target": "com.amazonaws.licensemanager#LicenseDeletionStatus",
 "traits": {
 "smithy.api#documentation": "<p>License status.</p>"
 }
 }
 },
 "DeletionDate": {
 "target": "com.amazonaws.licensemanager#ISO8601DateTime",
 "traits": {
 "smithy.api#documentation": "<p>Date when the license is deleted.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#DeleteToken": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#DeleteTokenRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#DeleteTokenResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#RedirectException"
 }
],

```



```

 {
 "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Deletes the specified token. Must be called in the license home
Region.</p>"
 }
},
"com.amazonaws.licensemanager#DeleteTokenRequest": {
 "type": "structure",
 "members": {
 "TokenId": {
 "target": "com.amazonaws.licensemanager#String",

"traits": {
 "smithy.api#documentation": "<p>Token ID.</p>",
 "smithy.api#required": {}
}
}
},
"traits": {
 "smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#DeleteTokenResponse": {
 "type": "structure",
 "members": {},
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#DigitalSignatureMethod": {
 "type": "enum",
 "members": {
 "JWT_PS384": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "JWT_PS384"
 }
 }
 }
}
}

```

```

},
"com.amazonaws.licensemanager#Entitlement": {
 "type": "structure",
 "members": {
 "Name": {

 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Entitlement name.</p>",
 "smithy.api#required": {}
 }
 },
 "Value": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Entitlement resource. Use only if the unit is None.</p>"
 }
 },
 "MaxCount": {
 "target": "com.amazonaws.licensemanager#Long",
 "traits": {
 "smithy.api#documentation": "<p>Maximum entitlement count. Use if the unit is not None.</p>"
 }
 },
 "Overage": {
 "target": "com.amazonaws.licensemanager#BoxBoolean",
 "traits": {
 "smithy.api#documentation":
"<p>Indicates whether overages are allowed.</p>"
 }
 },
 "Unit": {
 "target": "com.amazonaws.licensemanager#EntitlementUnit",
 "traits": {
 "smithy.api#documentation": "<p>Entitlement unit.</p>",
 "smithy.api#required": {}
 }
 },
 "AllowCheckIn": {
 "target": "com.amazonaws.licensemanager#BoxBoolean",
 "traits": {
 "smithy.api#documentation": "<p>Indicates whether check-ins are allowed.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>Describes a resource entitled for use with a license.</p>"
 }
}

```

```

 },
 "com.amazonaws.licensemanager#EntitlementData": {
 "type": "structure",
 "members": {
 "Name": {
 {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Entitlement data name.</p>",
 "smithy.api#required": {}
 }
 },
 },
 "Value": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Entitlement data value.</p>"
 }
 },
 "Unit": {
 "target": "com.amazonaws.licensemanager#EntitlementDataUnit",
 "traits": {
 "smithy.api#documentation": "<p>Entitlement data unit.</p>",
 "smithy.api#required": {}
 }
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>Data associated with an entitlement resource.</p>"
 }
 }
 },
 "com.amazonaws.licensemanager#EntitlementDataList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#EntitlementData"
 }
 },
 "com.amazonaws.licensemanager#EntitlementDataUnit": {
 "type": "enum",
 "members": {
 "COUNT": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Count"
 }
 },
 },
 "NONE": {
 "target": "smithy.api#Unit",
 }
 }

```

```

 "traits": {
 "smithy.api#enumValue": "None"
 }
 },
 "SECONDS": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Seconds"
 }
 },
 "MICROSECONDS": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Microseconds"
 }
 },
 "MILLISECONDS": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Milliseconds"
 }
 },
 "BYTES": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Bytes"
 }
 },
 "KILOBYTES": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Kilobytes"
 }
 },
 "MEGABYTES": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Megabytes"
 }
 }
},
"GIGABYTES": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Gigabytes"
 }
},

```

```

"TERABYTES": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Terabytes"
 }
},
"BITS": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Bits"
 }
},
"KILOBITS": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Kilobits"
 }
},
"MEGABITS": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Megabits"
 }
},
"GIGABITS": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Gigabits"
 }
},
"TERABITS": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Terabits"
 }
},
"PERCENT": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Percent"
 }
},
"BYTES_PER_SECOND": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Bytes/Second"
 }
}

```

```

 },
 "KILOBYTES_PER_SECOND": {
 "target":
"smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Kilobytes/Second"
 }
 },
 "MEGABYTES_PER_SECOND": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Megabytes/Second"
 }
 },
 "GIGABYTES_PER_SECOND": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Gigabytes/Second"
 }
 },
 "TERABYTES_PER_SECOND": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Terabytes/Second"
 }
 },
 "BITS_PER_SECOND": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue":
"Bits/Second"
 }
 },
 "KILOBITS_PER_SECOND": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Kilobits/Second"
 }
 },
 "MEGABITS_PER_SECOND": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Megabits/Second"
 }
 },
 "GIGABITS_PER_SECOND": {
 "target": "smithy.api#Unit",
 "traits": {

```

```

 "smithy.api#enumValue": "Gigabits/Second"
 }
},
"TERABITS_PER_SECOND": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Terabits/Second"
 }
},

"COUNT_PER_SECOND": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Count/Second"
 }
}
},
"com.amazonaws.licensemanager#EntitlementList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#Entitlement"
 }
},
"com.amazonaws.licensemanager#EntitlementNotAllowedException": {
 "type": "structure",
 "members": {
 "Message": {
 "target": "com.amazonaws.licensemanager#Message"
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>The entitlement is not allowed.</p>",
 "smithy.api#error": "client",
 "smithy.api#httpError": 400
 }
},
"com.amazonaws.licensemanager#EntitlementUnit": {
 "type": "enum",
 "members": {
 "COUNT": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Count"
 }
 },
 "NONE": {

```

```
"target": "smithy.api#Unit",
"traits": {
 "smithy.api#enumValue": "None"
}
},
"SECONDS": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Seconds"
 }
},
"MICROSECONDS": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Microseconds"
 }
},
"MILLISECONDS": {
 "target": "smithy.api#Unit",
 "traits": {

 "smithy.api#enumValue": "Milliseconds"
 }
},
"BYTES": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Bytes"
 }
},
"KILOBYTES": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Kilobytes"
 }
},
"MEGABYTES": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Megabytes"
 }
},
"GIGABYTES": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Gigabytes"
 }
},
```



```

 "TERABYTES": {
 "target":
"smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Terabytes"
 }
 },
 "BITS": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Bits"
 }
 },
 "KILOBITS": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Kilobits"
 }
 },
 "MEGABITS": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Megabits"
 }
 },
 "GIGABITS": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Gigabits"
 }
 },
 "TERABITS": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Terabits"
 }
 },
 "PERCENT": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Percent"
 }
 },
 "BYTES_PER_SECOND": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Bytes/Second"
 }
 }

```

```

 }
 },
 "KILOBYTES_PER_SECOND": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Kilobytes/Second"
 }
 },
 "MEGABYTES_PER_SECOND": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Megabytes/Second"
 }
 },
 "GIGABYTES_PER_SECOND": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Gigabytes/Second"
 }
 },
 "TERABYTES_PER_SECOND": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Terabytes/Second"
 }
 },
 "BITS_PER_SECOND": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Bits/Second"
 }
 },
 "KILOBITS_PER_SECOND": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Kilobits/Second"
 }
 },
},
 "MEGABITS_PER_SECOND": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Megabits/Second"
 }
 },
 "GIGABITS_PER_SECOND": {
 "target": "smithy.api#Unit",

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 "traits": {
 "smithy.api#enumValue": "Gigabits/Second"
 }
 },
 "TERABITS_PER_SECOND": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Terabits/Second"
 }
 },
 "COUNT_PER_SECOND": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Count/Second"
 }
 }
}
},
"com.amazonaws.licensemanager#EntitlementUsage": {
 "type": "structure",
 "members": {
 "Name": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Entitlement usage name.</p>",
 "smithy.api#required": {}
 }
 },
 "ConsumedValue": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Resource usage consumed.</p>",
 "smithy.api#required": {}
 }
 },
 "MaxCount": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Maximum entitlement usage count.</p>"
 }
 },
 "Unit": {
 "target": "com.amazonaws.licensemanager#EntitlementDataUnit",
 "traits": {
 "smithy.api#documentation": "<p>Entitlement usage unit.</p>",
 "smithy.api#required": {}
 }
 }
 }
}

```

```

 },
 "traits": {
 "smithy.api#documentation": "<p>Usage associated with an entitlement resource.</p>"
 }
 },
 "com.amazonaws.licensemanager#EntitlementUsageList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#EntitlementUsage"
 }
 },
 "com.amazonaws.licensemanager#ExtendLicenseConsumption": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse"
 }
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Extends the expiration date for license consumption.</p>"
 }
},

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"com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest": {
 "type": "structure",
 "members": {
 "LicenseConsumptionToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>License consumption token.</p>",
 "smithy.api#required": {}
 }
 },
 "DryRun": {
 "target": "com.amazonaws.licensemanager#Boolean",
 "traits": {
 "smithy.api#default": false,
 "smithy.api#documentation": "<p>Checks whether you have the required permissions for the action, without actually making the request. Provides an error response if you do not have the required permissions.</p>"
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
 },
 "com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse": {
 "type": "structure",
 "members": {
 "LicenseConsumptionToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>License consumption token.</p>"
 }
 },
 "Expiration": {
 "target": "com.amazonaws.licensemanager#ISO8601DateTime",
 "traits": {
 "smithy.api#documentation": "<p>Date and time at which the license consumption expires.</p>"
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
 },
 "com.amazonaws.licensemanager#FailedDependencyException": {
 "type": "structure",
 "members": {
 "Message": {
 "target": "com.amazonaws.licensemanager#Message"
 }
 }
 }
 }
}

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 },
 "ErrorCode": {
 "target": "com.amazonaws.licensemanager#String"
 }
 },
 "traits": {
 "aws.protocols#awsQueryError": {
 "code": "FailedDependency",
 "httpResponseCode": 424
 },
 "smithy.api#documentation": "<p>A dependency required to run the API is missing.</p>",
 "smithy.api#error": "client",
 "smithy.api#httpError": 424
 }
},
"com.amazonaws.licensemanager#Filter": {
 "type": "structure",
 "members": {
 "Name": {
 "target": "com.amazonaws.licensemanager#FilterName",
 "traits": {
 "smithy.api#documentation": "<p>Name of the filter. Filter names are case-sensitive.</p>"
 }
 },
 "Values": {
 "target": "com.amazonaws.licensemanager#FilterValues",
 "traits": {
 "smithy.api#documentation": "<p>The value of the filter, which is case-sensitive. You can only specify one value for the filter.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>A filter name and value pair that is used to return more specific results from a\n describe operation. Filters can be used to match a set of resources by specific criteria,\n such as tags, attributes, or IDs.</p>"
 }
},
"com.amazonaws.licensemanager#FilterLimitExceededException": {
 "type": "structure",
 "members": {
 "Message": {
 "target": "com.amazonaws.licensemanager#Message"
 }
 },
 "traits":
{
 "aws.protocols#awsQueryError": {

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 "code": "FilterLimitExceeded",
 "httpResponseCode": 400
 },
 "smithy.api#documentation": "<p>The request uses too many filters or too many filter values.</p>",
 "smithy.api#error": "client",
 "smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#FilterList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#Filter"
 }
},
"com.amazonaws.licensemanager#FilterName": {
 "type": "string"
},
"com.amazonaws.licensemanager#FilterValue": {
 "type": "string"
},
"com.amazonaws.licensemanager#FilterValues": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#FilterValue",
 "traits": {
"smithy.api#xmlName": "item"
 }
 }
},
"com.amazonaws.licensemanager#Filters": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#Filter",
 "traits": {
 "smithy.api#xmlName": "item"
 }
 }
},
"com.amazonaws.licensemanager#GetAccessToken": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#GetAccessTokenRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#GetAccessTokenResponse"
 },
 "errors": [

```

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 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target":
"com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Gets a temporary access token to use with
AssumeRoleWithWebIdentity. Access tokens\n are valid for one hour.</p>"
 }
},
"com.amazonaws.licensemanager#GetAccessTokenRequest": {
 "type": "structure",
 "members": {
 "Token": {
 "target": "com.amazonaws.licensemanager#TokenString",
 "traits": {
 "smithy.api#documentation": "<p>Refresh token, encoded as a JWT token.</p>",
 "smithy.api#required": {}
 }
 },
 "TokenProperties": {
 "target": "com.amazonaws.licensemanager#MaxSize3StringList",
 "traits": {
 "smithy.api#documentation": "<p>Token properties to validate against those present in the JWT
token.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
},
"com.amazonaws.licensemanager#GetAccessTokenResponse": {
 "type": "structure",
 "members": {
 "AccessToken": {

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 "target": "com.amazonaws.licensemanager#TokenString",
 "traits": {
 "smithy.api#documentation": "<p>Temporary access token.</p>"
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#GetGrant": {
 "type": "operation",

 "input": {
 "target": "com.amazonaws.licensemanager#GetGrantRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#GetGrantResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Gets detailed information about the specified grant.</p>"
 }
},
"com.amazonaws.licensemanager#GetGrantRequest": {

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```

"type": "structure",
"members": {
 "GrantArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
 "smithy.api#required": {}
 }
 },
 "Version": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Grant version.</p>"
 }
 }
},
"traits": {
 "smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#GetGrantResponse": {
 "type": "structure",
 "members": {
 "Grant": {
 "target": "com.amazonaws.licensemanager#Grant",
 "traits": {
 "smithy.api#documentation": "<p>Grant details.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#GetLicense": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#GetLicenseRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#GetLicenseResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 }
],

```

```

{
 "target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
 "target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
 "target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
 "smithy.api#documentation": "<p>Gets detailed information about the specified license.</p>"
}
},
"com.amazonaws.licensemanager#GetLicenseConfiguration": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#GetLicenseConfigurationRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#GetLicenseConfigurationResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Gets detailed information about the specified license

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configuration.</p>"
 }
 },
 "com.amazonaws.licensemanager#GetLicenseConfigurationRequest":
 {
 "type": "structure",
 "members": {
 "LicenseConfigurationArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
 "smithy.api#required": {}
 }
 },
 },
 "traits": {
 "smithy.api#input": {}
 }
 },
 "com.amazonaws.licensemanager#GetLicenseConfigurationResponse": {
 "type": "structure",
 "members": {
 "LicenseConfigurationId": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Unique ID for the license configuration.</p>"
 }
 },
 "LicenseConfigurationArn":
 {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
 }
 },
 "Name": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Name of the license configuration.</p>"
 }
 },
 "Description": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Description of the license configuration.</p>"
 }
 },
 },

```

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"LicenseCountingType": {
 "target": "com.amazonaws.licensemanager#LicenseCountingType",
 "traits": {
 "smithy.api#documentation":
"<p>Dimension for which the licenses are counted.</p>"
 }
},
"LicenseRules": {
 "target": "com.amazonaws.licensemanager#StringList",
 "traits": {
 "smithy.api#documentation": "<p>License rules.</p>"
 }
},
"LicenseCount": {
 "target": "com.amazonaws.licensemanager#BoxLong",
 "traits": {
 "smithy.api#documentation": "<p>Number of available licenses.</p>"
 }
},
"LicenseCountHardLimit": {
 "target": "com.amazonaws.licensemanager#BoxBoolean",
 "traits": {
 "smithy.api#documentation": "<p>Sets the number of available licenses as a hard limit.</p>"
 }
},
"ConsumedLicenses": {
 "target":
"com.amazonaws.licensemanager#BoxLong",
 "traits": {
 "smithy.api#documentation": "<p>Number of licenses assigned to resources.</p>"
 }
},
"Status": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>License configuration status.</p>"
 }
},
"OwnerAccountId": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Account ID of the owner of the license configuration.</p>"
 }
},
"ConsumedLicenseSummaryList": {
 "target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",
 "traits": {
 "smithy.api#documentation": "<p>Summaries

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of the licenses consumed by resources.</p>"

```
 }
 },
 "ManagedResourceSummaryList": {
 "target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
 "traits": {
 "smithy.api#documentation": "<p>Summaries of the managed resources.</p>"
 }
 },
 "Tags": {
 "target": "com.amazonaws.licensemanager#TagList",
 "traits": {
 "smithy.api#documentation": "<p>Tags for the license configuration.</p>"
 }
 },
 "ProductInformationList": {
 "target": "com.amazonaws.licensemanager#ProductInformationList",
 "traits": {
 "smithy.api#documentation": "<p>Product information.</p>"
 }
 },
 "AutomatedDiscoveryInformation":
{
 "target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
 "traits": {
 "smithy.api#documentation": "<p>Automated discovery information.</p>"
 }
 },
 "DisassociateWhenNotFound": {
 "target": "com.amazonaws.licensemanager#BoxBoolean",
 "traits": {
 "smithy.api#documentation": "<p>When true, disassociates a resource when software is
uninstalled.</p>"
 }
 }
},
"traits": {
 "smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTask": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#GetLicenseConversionTaskRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#GetLicenseConversionTaskResponse"
```

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 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Gets information about the specified license type conversion task.</p>"
 }
 },
 "com.amazonaws.licensemanager#GetLicenseConversionTaskRequest": {
 "type": "structure",
 "members": {
 "LicenseConversionTaskId": {
 "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
 "traits": {
 "smithy.api#documentation": "<p>ID of the license type conversion task to retrieve information on.</p>",
 "smithy.api#required": {}
 }
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
 },
 "com.amazonaws.licensemanager#GetLicenseConversionTaskResponse": {
 "type": "structure",
 "members": {
 "LicenseConversionTaskId": {
 "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
 "traits": {
 "smithy.api#documentation": "<p>ID of the license type conversion task.</p>"
 }
 }
 },
 "ResourceArn": {

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 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Names (ARN) of the resources the license
conversion task is associated with.</p>"
 }
 },
 "SourceLicenseContext": {
 "target": "com.amazonaws.licensemanager#LicenseConversionContext",
 "traits": {
 "smithy.api#documentation": "<p>Information about the license type converted from.</p>"
 }
 },
 "DestinationLicenseContext": {
 "target": "com.amazonaws.licensemanager#LicenseConversionContext",
 "traits": {
 "smithy.api#documentation": "<p>Information about the license type converted to.</p>"
 }
 },
 "StatusMessage": {
 "target": "com.amazonaws.licensemanager#String",

"traits": {
 "smithy.api#documentation": "<p>The status message for the conversion task.</p>"
}
},
 "Status": {
 "target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
 "traits": {
 "smithy.api#documentation": "<p>Status of the license type conversion task.</p>"
 }
 },
 "StartTime": {
 "target": "com.amazonaws.licensemanager#DateTime",
 "traits": {
 "smithy.api#documentation": "<p>Time at which the license type conversion task was started .</p>"
 }
 },
 "LicenseConversionTime": {
 "target": "com.amazonaws.licensemanager#DateTime",
 "traits": {
 "smithy.api#documentation": "<p>Amount of time to complete the license type
conversion.</p>"
 }
 },
 "EndTime": {
 "target": "com.amazonaws.licensemanager#DateTime",
 "traits": {
 "smithy.api#documentation": "<p>Time at which the license type conversion task was

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completed.</p>"
 }
 }
},
"traits": {
 "smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#GetLicenseManagerReportGenerator": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Gets information about the specified report generator.</p>"
 }
},

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```

"com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest": {
 "type": "structure",
 "members": {
 "LicenseManagerReportGeneratorArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator.</p>",
 "smithy.api#required": {}
 }
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
},
"com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse": {
 "type": "structure",
 "members": {
 "ReportGenerator": {
 "target": "com.amazonaws.licensemanager#ReportGenerator",
 "traits": {
 "smithy.api#documentation": "<p>A report generator that creates
periodic reports about your license configurations.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#GetLicenseRequest": {
 "type": "structure",
 "members": {
 "LicenseArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
 "smithy.api#required": {}
 }
 },
 "Version": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>License version.</p>"
 }
 }
 },
 "traits": {

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 "smithy.api#input": {}
 }
},

"com.amazonaws.licensemanager#GetLicenseResponse": {
 "type": "structure",
 "members": {
 "License": {
 "target": "com.amazonaws.licensemanager#License",
 "traits": {
 "smithy.api#documentation": "<p>License details.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
},

"com.amazonaws.licensemanager#GetLicenseUsage": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#GetLicenseUsageRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#GetLicenseUsageResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Gets detailed information about the usage of the specified license.</p>"
 }
}

```

```

 }
 },
 "com.amazonaws.licensemanager#GetLicenseUsageRequest": {
 "type": "structure",
 "members": {
 "LicenseArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
 "smithy.api#required": {}
 }
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
 },
 "com.amazonaws.licensemanager#GetLicenseUsageResponse": {
 "type": "structure",
 "members": {
 "LicenseUsage": {
 "target": "com.amazonaws.licensemanager#LicenseUsage",
 "traits": {
 "smithy.api#documentation": "<p>License usage details.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
 },
 "com.amazonaws.licensemanager#GetServiceSettings": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#GetServiceSettingsRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#GetServiceSettingsResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {

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```

 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 }
],
"traits": {
 "smithy.api#documentation": "<p>Gets the License Manager settings for the current Region.</p>"
}
},
"com.amazonaws.licensemanager#GetServiceSettingsRequest": {
 "type": "structure",
 "members": {},
 "traits": {
 "smithy.api#input": {}
 }
},
"com.amazonaws.licensemanager#GetServiceSettingsResponse": {
 "type": "structure",
 "members": {
 "S3BucketArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Regional S3 bucket path for storing reports, license trail event data,
discovery data,\n and so on.</p>"
 }
 },
 "SnsTopicArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>SNS topic configured to receive notifications from License
Manager.</p>"
 }
 },
 "OrganizationConfiguration": {
 "target": "com.amazonaws.licensemanager#OrganizationConfiguration",
 "traits": {
 "smithy.api#documentation":
 "<p>Indicates whether Organizations is integrated with License Manager for\n cross-account discovery.</p>"
 }
 },
 "EnableCrossAccountsDiscovery": {
 "target": "com.amazonaws.licensemanager#BoxBoolean",
 "traits": {
 "smithy.api#documentation": "<p>Indicates whether cross-account discovery is enabled.</p>"
 }
 },
 "LicenseManagerResourceShareArn": {

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 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource share. The License
Manager management account \n provides member accounts with access to this share.</p>"
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
},

"com.amazonaws.licensemanager#Grant": {
 "type": "structure",
 "members": {
 "GrantArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
 "smithy.api#required": {}
 }
 },
 "GrantName": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Grant name.</p>",
 "smithy.api#required": {}
 }
 },
 "ParentArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>Parent ARN.</p>",
 "smithy.api#required": {}
 }
 }
 },
 "LicenseArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>License ARN.</p>",
 "smithy.api#required": {}
 }
 },
 "GranteePrincipalArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>The grantee principal ARN.</p>",

```

```

 "smithy.api#required": {}
 }
},
"HomeRegion": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Home Region of the grant.</p>",
 "smithy.api#required": {}
 }
},
"GrantStatus": {
 "target":
"com.amazonaws.licensemanager#GrantStatus",
 "traits": {
 "smithy.api#documentation": "<p>Grant status.</p>",
 "smithy.api#required": {}
 }
},
"StatusReason": {
 "target": "com.amazonaws.licensemanager#StatusReasonMessage",
 "traits": {
 "smithy.api#documentation": "<p>Grant status reason.</p>"
 }
},
"Version": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Grant version.</p>",
 "smithy.api#required": {}
 }
},
"GrantedOperations": {
 "target": "com.amazonaws.licensemanager#AllowedOperationList",
 "traits": {
 "smithy.api#documentation":
"<p>Granted operations.</p>",
 "smithy.api#required": {}
 }
},
"Options": {
 "target": "com.amazonaws.licensemanager#Options",
 "traits": {
 "smithy.api#documentation": "<p>The options specified for the grant.</p>"
 }
},
"traits": {
 "smithy.api#documentation": "<p>Describes a grant.</p>"
}

```

```

 }
 },
 "com.amazonaws.licensemanager#GrantList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#Grant"
 }
 },
 "com.amazonaws.licensemanager#GrantStatus": {
 "type": "enum",
 "members": {
 "PENDING_WORKFLOW": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue":
"PENDING_WORKFLOW"
 }
 },
 "PENDING_ACCEPT": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "PENDING_ACCEPT"
 }
 },
 "REJECTED": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "REJECTED"
 }
 },
 "ACTIVE": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "ACTIVE"
 }
 },
 "FAILED_WORKFLOW": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "FAILED_WORKFLOW"
 }
 },
 "DELETED": {
 "target":
"smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "DELETED"
 }
 }
 }
 }
}

```



```

 },
 "PENDING_DELETE": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "PENDING_DELETE"
 }
 },
 "DISABLED": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "DISABLED"
 }
 },
 "WORKFLOW_COMPLETED": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "WORKFLOW_COMPLETED"
 }
 }
 }
},
"com.amazonaws.licensemanager#GrantedLicense": {
 "type": "structure",
 "members": {
 "LicenseArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
 }
 },
 "LicenseName": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>License name.</p>"
 }
 },
 "ProductName": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Product name.</p>"
 }
 },
 "ProductSKU": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Product SKU.</p>"
 }
 }
 }
}

```

```

 },
 "Issuer":
 {
 "target": "com.amazonaws.licensemanager#IssuerDetails",
 "traits": {
 "smithy.api#documentation": "<p>Granted license issuer.</p>"
 }
 },
 "HomeRegion": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Home Region of the granted license.</p>"
 }
 },
 "Status": {
 "target": "com.amazonaws.licensemanager#LicenseStatus",
 "traits": {
 "smithy.api#documentation": "<p>Granted license status.</p>"
 }
 },
 "Validity": {
 "target": "com.amazonaws.licensemanager#DatetimeRange",
 "traits": {
 "smithy.api#documentation": "<p>Date and time range during which the
granted license is valid, in ISO8601-UTC format.</p>"
 }
 },
 "Beneficiary": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Granted license beneficiary.</p>"
 }
 },
 "Entitlements": {
 "target": "com.amazonaws.licensemanager#EntitlementList",
 "traits": {
 "smithy.api#documentation": "<p>License entitlements.</p>"
 }
 },
 "ConsumptionConfiguration": {
 "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
 "traits": {
 "smithy.api#documentation": "<p>Configuration for consumption of the license.</p>"
 }
 },
 "LicenseMetadata": {

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```

"target": "com.amazonaws.licensemanager#MetadataList",
 "traits": {
 "smithy.api#documentation": "<p>Granted license metadata.</p>"
 }
},
"CreateTime": {
 "target": "com.amazonaws.licensemanager#ISO8601DateTime",
 "traits": {
 "smithy.api#documentation": "<p>Creation time of the granted license.</p>"
 }
},
"Version": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Version of the granted license.</p>"
 }
},
"ReceivedMetadata": {
 "target": "com.amazonaws.licensemanager#ReceivedMetadata",
 "traits": {
 "smithy.api#documentation": "<p>Granted license received metadata.</p>"
 }
},
"traits": {
 "smithy.api#documentation": "<p>Describes a license that is granted to a grantee.</p>"
},
"com.amazonaws.licensemanager#GrantedLicenseList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#GrantedLicense"
 }
},
"com.amazonaws.licensemanager#ISO8601DateTime": {
 "type": "string",
 "traits": {
 "smithy.api#length": {
 "min": 0,
 "max": 50
 },
 "smithy.api#pattern": "^(-(?:[1-9][0-9]*)?[0-9]{4})-(1[0-2]|0[1-9])-(3[0-1]|0[1-9]|[1-2][0-9])T(2[0-3]|[0-1][0-9]):([0-5][0-9]):([0-5][0-9])(\\.([0-9]+)?(?:Z|[+-](?:2[0-3]|0[0-9]):[0-5][0-9])+$)"
 }
},
"com.amazonaws.licensemanager#Integer": {
 "type": "integer"
},

```

```

"com.amazonaws.licensemanager#InvalidParameterValueException":
{
 "type": "structure",
 "members": {
 "Message": {
 "target": "com.amazonaws.licensemanager#Message"
 }
 },
 "traits": {
 "aws.protocols#awsQueryError": {
 "code": "InvalidParameterValueProvided",
 "httpResponseCode": 400
 },
 "smithy.api#documentation": "<p>One or more parameter values are not valid.</p>",
 "smithy.api#error": "client",
 "smithy.api#httpError": 400
 }
},
"com.amazonaws.licensemanager#InvalidResourceStateException": {
 "type": "structure",
 "members": {
 "Message": {
 "target": "com.amazonaws.licensemanager#Message"
 }
 },
 "traits": {
 "aws.protocols#awsQueryError": {

 "code": "InvalidResourceState",
 "httpResponseCode": 400
 },
 "smithy.api#documentation": "<p>License Manager cannot allocate a license to a resource because of its
state. </p>\n <p>For example, you cannot allocate a license to an instance in the process of shutting\n
down.</p>",
 "smithy.api#error": "client",
 "smithy.api#httpError": 400
 }
},
"com.amazonaws.licensemanager#InventoryFilter": {
 "type": "structure",
 "members": {
 "Name": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Name of the filter.</p>",
 "smithy.api#required": {}
 }
 }
 },
},

```

```

"Condition": {
 "target": "com.amazonaws.licensemanager#InventoryFilterCondition",
 "traits": {
 "smithy.api#documentation": "<p>Condition of the filter.</p>",
 "smithy.api#required": {}
 }
},
"Value": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Value of the filter.</p>"
 }
},
"traits": {
 "smithy.api#documentation": "<p>An inventory filter.</p>"
}
},
"com.amazonaws.licensemanager#InventoryFilterCondition": {
 "type": "enum",
 "members": {
 "EQUALS": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "EQUALS"
 }
 },
 "NOT_EQUALS": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "NOT_EQUALS"
 }
 },
 "BEGINS_WITH": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "BEGINS_WITH"
 }
 },
 "CONTAINS": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "CONTAINS"
 }
 }
 }
},
"com.amazonaws.licensemanager#InventoryFilterList": {

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```

 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#InventoryFilter"
 }
 },
 "com.amazonaws.licensemanager#Issuer": {
 "type": "structure",
 "members": {
 "Name": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Issuer name.</p>",
 "smithy.api#required": {}
 }
 },
 "SignKey": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Asymmetric KMS key from Key Management Service. The KMS
key must have a key usage of sign and verify, \n and support the RSASSA-PSS SHA-256 signing
algorithm.</p>"
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>Details about the issuer of a license.</p>"
 }
 },
 "com.amazonaws.licensemanager#IssuerDetails": {
 "type": "structure",
 "members": {
 "Name": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Issuer name.</p>"
 }
 },
 "SignKey": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Asymmetric KMS key from Key Management Service. The KMS
key must have a key usage of sign and verify, \n and support the RSASSA-PSS SHA-256 signing
algorithm.</p>"
 }
 },
 "KeyFingerprint": {
 "target": "com.amazonaws.licensemanager#String",

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```

 "traits": {
 "smithy.api#documentation": "<p>Issuer key fingerprint.</p>"
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>Details associated with the issuer of a license.</p>"
 }
},
"com.amazonaws.licensemanager#License": {

"type": "structure",
"members": {
 "LicenseArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
 }
 },
 "LicenseName": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>License name.</p>"
 }
 },
 "ProductName": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Product name.</p>"
 }
 },
 "ProductSKU": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation":
"<p>Product SKU.</p>"
 }
 },
 "Issuer": {
 "target": "com.amazonaws.licensemanager#IssuerDetails",
 "traits": {
 "smithy.api#documentation": "<p>License issuer.</p>"
 }
 },
 "HomeRegion": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Home Region of the license.</p>"
 }
 }
}

```

```

 }
 },
 "Status": {
 "target": "com.amazonaws.licensemanager#LicenseStatus",
 "traits": {
 "smithy.api#documentation": "<p>License status.</p>"
 }
 },
 "Validity": {
 "target": "com.amazonaws.licensemanager#DatetimeRange",
 "traits": {
 "smithy.api#documentation": "<p>Date and time range during which the license is valid, in ISO8601-UTC
format.</p>"
 }
 },
 "Beneficiary": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>License beneficiary.</p>"
 }
 },
 "Entitlements": {
 "target": "com.amazonaws.licensemanager#EntitlementList",
 "traits": {
 "smithy.api#documentation": "<p>License entitlements.</p>"
 }
 },
 "ConsumptionConfiguration": {
 "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
 "traits": {
 "smithy.api#documentation": "<p>Configuration for consumption of the license.</p>"
 }
 },
},
"LicenseMetadata": {
 "target": "com.amazonaws.licensemanager#MetadataList",
 "traits": {
 "smithy.api#documentation": "<p>License metadata.</p>"
 }
},
"CreateTime": {
 "target": "com.amazonaws.licensemanager#ISO8601DateTime",
 "traits": {
 "smithy.api#documentation": "<p>License creation time.</p>"
 }
},
"Version": {

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 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>License version.</p>"
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>Software license that is managed in License Manager.</p>"
 }
},
"com.amazonaws.licensemanager#LicenseConfiguration":
{
 "type": "structure",
 "members": {
 "LicenseConfigurationId": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Unique ID of the license configuration.</p>"
 }
 },
 "LicenseConfigurationArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
 }
 },
 "Name": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Name of the license configuration.</p>"
 }
 },
 "Description": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Description of the license configuration.</p>"
 }
 },
 "LicenseCountingType": {
 "target": "com.amazonaws.licensemanager#LicenseCountingType",
 "traits": {
 "smithy.api#documentation": "<p>Dimension to use to track the license inventory.</p>"
 }
 },
 "LicenseRules": {
 "target": "com.amazonaws.licensemanager#StringList",
 "traits": {
 "smithy.api#documentation": "<p>License rules.</p>"
 }
 }
 }
}

```

```

 }
 },
 "LicenseCount": {
 "target": "com.amazonaws.licensemanager#BoxLong",
 "traits": {
 "smithy.api#documentation": "<p>Number of licenses managed by the license
configuration.</p>"
 }
 },
 "LicenseCountHardLimit": {
 "target": "com.amazonaws.licensemanager#BoxBoolean",
 "traits": {
 "smithy.api#documentation": "<p>Number of available licenses as a hard limit.</p>"
 }
 },
 "DisassociateWhenNotFound": {
 "target": "com.amazonaws.licensemanager#BoxBoolean",
 "traits": {
 "smithy.api#documentation": "<p>When true, disassociates a resource when software is
uninstalled.</p>"
 }
 },
 "ConsumedLicenses": {
 "target": "com.amazonaws.licensemanager#BoxLong",
 "traits": {
 "smithy.api#documentation": "<p>Number of licenses consumed. </p>"
 }
 },
 "Status": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Status of the license configuration.</p>"
 }
 },
 "OwnerAccountId": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Account ID of the license configuration's owner.</p>"
 }
 },
 "ConsumedLicenseSummaryList": {
 "target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",
 "traits": {
 "smithy.api#documentation": "<p>Summaries for licenses consumed by various resources.</p>"
 }
 },
 "ManagedResourceSummaryList": {

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 "target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
 "traits":
{
 "smithy.api#documentation": "<p>Summaries for managed resources.</p>"
 }
},
"ProductInformationList": {
 "target": "com.amazonaws.licensemanager#ProductInformationList",
 "traits": {
 "smithy.api#documentation": "<p>Product information.</p>"
 }
},
"AutomatedDiscoveryInformation": {
 "target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
 "traits": {
 "smithy.api#documentation": "<p>Automated discovery information.</p>"
 }
}
},
"traits": {
 "smithy.api#documentation": "<p>A license configuration is an abstraction of a customer license
agreement that can be\n consumed and enforced by License Manager. Components include specifications for
the license\n
 type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n Dedicated
Instance, Dedicated Host, or all of these), host affinity (how long a VM\n must be associated with a host), and
the number of licenses purchased and used.</p>"
 }
},
"com.amazonaws.licensemanager#LicenseConfigurationAssociation": {
 "type": "structure",
 "members": {
 "ResourceArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
 }
 },
 "ResourceType": {
 "target": "com.amazonaws.licensemanager#ResourceType",
 "traits": {
 "smithy.api#documentation": "<p>Type of server resource.</p>"
 }
 }
 }
},
"ResourceOwnerId": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>ID of the Amazon Web Services account that owns the resource

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```

consuming licenses.</p>"
 }
 },
 "AssociationTime": {
 "target": "com.amazonaws.licensemanager#DateTime",
 "traits": {
 "smithy.api#documentation": "<p>Time when the license configuration was associated with the
resource.</p>"
 }
 },
 "AmiAssociationScope": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Scope of AMI associations. The possible value is <code>cross-
account</code>.</p>"
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>Describes an association with a license configuration.</p>"
 }
},
"com.amazonaws.licensemanager#LicenseConfigurationAssociations": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#LicenseConfigurationAssociation"
 }
},
"com.amazonaws.licensemanager#LicenseConfigurationStatus": {
 "type": "enum",
 "members": {
 "AVAILABLE": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "AVAILABLE"
 }
 },
 "DISABLED": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "DISABLED"
 }
 }
 }
},
"com.amazonaws.licensemanager#LicenseConfigurationUsage": {

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```

"type": "structure",
"members": {
 "ResourceArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
 }
 },
 "ResourceType": {
 "target": "com.amazonaws.licensemanager#ResourceType",
 "traits": {
 "smithy.api#documentation": "<p>Type of resource.</p>"
 }
 },
 "ResourceStatus": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Status of the resource.</p>"
 }
 },
 "ResourceOwnerId": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>ID of the account that owns the resource.</p>"
 }
 },
 "AssociationTime": {
 "target": "com.amazonaws.licensemanager#DateTime",
 "traits": {
 "smithy.api#documentation": "<p>Time when the license configuration was initially associated with
the resource.</p>"
 }
 },
 "ConsumedLicenses": {
 "target": "com.amazonaws.licensemanager#BoxLong",
 "traits": {
 "smithy.api#documentation": "<p>Number of licenses consumed by the resource.</p>"
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>Details about the usage of a resource associated with a license
configuration.</p>"
 }
},
"com.amazonaws.licensemanager#LicenseConfigurationUsageList":

```

```

{
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#LicenseConfigurationUsage"
 }
},
"com.amazonaws.licensemanager#LicenseConfigurations": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#LicenseConfiguration"
 }
},
"com.amazonaws.licensemanager#LicenseConversionContext": {
 "type": "structure",
 "members": {
 "UsageOperation": {
 "target": "com.amazonaws.licensemanager#UsageOperation",
 "traits": {
 "smithy.api#documentation": "<p>The Usage operation value that corresponds to the license type you
are converting your resource from. For more information about which platforms correspond to which usage
operation values see <a href='\"https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/billing-info-
fields.html#billing-info\">Sample
data: usage operation by platform\n \n </p>"
 }
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>Information about a license type conversion task.</p>"
 }
},
"com.amazonaws.licensemanager#LicenseConversionTask": {
 "type": "structure",
 "members": {
 "LicenseConversionTaskId": {
 "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
 "traits": {
 "smithy.api#documentation": "<p>The ID of the license type conversion task.</p>"
 }
 },
 "ResourceArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the resource associated
with the license type\n
conversion task.</p>"
 }
 }
 },
 "SourceLicenseContext": {

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```

 "target": "com.amazonaws.licensemanager#LicenseConversionContext",
 "traits": {
 "smithy.api#documentation": "<p>Information about the license type this conversion task converted
from.</p>"
 }
 },
 "DestinationLicenseContext": {
 "target": "com.amazonaws.licensemanager#LicenseConversionContext",
 "traits": {
 "smithy.api#documentation": "<p>Information about the license type this conversion task converted
to.</p>"
 }
 },
 "Status": {
 "target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
 "traits": {
 "smithy.api#documentation": "<p>The status of the conversion task.</p>"
 }
 },
 "StatusMessage": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>The status message for the conversion task.</p>"
 }
 },
 "StartTime": {
 "target": "com.amazonaws.licensemanager#DateTime",
 "traits": {
 "smithy.api#documentation": "<p>The time the conversion task was started at.</p>"
 }
 },
 "LicenseConversionTime": {
 "target": "com.amazonaws.licensemanager#DateTime",
 "traits": {
 "smithy.api#documentation": "<p>The time the usage operation value of the resource was
changed.</p>"
 }
 },
 "EndTime": {
 "target": "com.amazonaws.licensemanager#DateTime",
 "traits": {
 "smithy.api#documentation": "<p>The time the conversion task was completed.</p>"
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>Information about a license type conversion task.</p>"
 }

```

```

 }
 },
 "com.amazonaws.licensemanager#LicenseConversionTaskId": {
 "type": "string",
 "traits": {
 "smithy.api#length": {
 "min": 0,
 "max": 50
 },
 "smithy.api#pattern": "^\\lct-[a-zA-Z0-9]*$"
 }
 },
 "com.amazonaws.licensemanager#LicenseConversionTaskStatus": {
 "type": "enum",
 "members": {
 "IN_PROGRESS": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "IN_PROGRESS"
 }
 }
 }
 },
 "SUCCEEDED": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "SUCCEEDED"
 }
 },
 "FAILED": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "FAILED"
 }
 }
},
"com.amazonaws.licensemanager#LicenseConversionTasks": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#LicenseConversionTask"
 }
},
"com.amazonaws.licensemanager#LicenseCountingType": {
 "type": "enum",
 "members": {
 "VCPU": {
 "target": "smithy.api#Unit",
 "traits": {

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 "smithy.api#enumValue": "vCPU"
 }
},

"INSTANCE": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Instance"
 }
},
"CORE": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Core"
 }
},
"SOCKET": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Socket"
 }
}
},
"com.amazonaws.licensemanager#LicenseDeletionStatus": {
 "type": "enum",
 "members": {
 "PENDING_DELETE": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "PENDING_DELETE"
 }
 },
 "DELETED": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "DELETED"
 }
 }
 }
},
"com.amazonaws.licensemanager#LicenseList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#License"
 }
},

```

```

"com.amazonaws.licensemanager#LicenseOperationFailure": {
 "type": "structure",
 "members": {
 "ResourceArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
 }
 },
 "ResourceType": {
 "target": "com.amazonaws.licensemanager#ResourceType",
 "traits": {
 "smithy.api#documentation":
"<p>Resource type.</p>"
 }
 },
 "ErrorMessage": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Error message.</p>"
 }
 },
 "FailureTime": {
 "target": "com.amazonaws.licensemanager#DateTime",
 "traits": {
 "smithy.api#documentation": "<p>Failure time.</p>"
 }
 },
 "OperationName": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Name of the operation.</p>"
 }
 },
 "ResourceOwnerId": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation":
"<p>ID of the Amazon Web Services account that owns the resource.</p>"
 }
 },
 "OperationRequestedBy": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>The requester is \"License Manager Automated Discovery\".</p>"
 }
 },
 "MetadataList": {

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 "target": "com.amazonaws.licensemanager#MetadataList",
 "traits": {
 "smithy.api#documentation": "<p>Reserved.</p>"
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>Describes the failure of a license operation.</p>"
 }
},
"com.amazonaws.licensemanager#LicenseOperationFailureList": {
 "type": "list",
 "member": {
 "target":
"com.amazonaws.licensemanager#LicenseOperationFailure"
 }
},
"com.amazonaws.licensemanager#LicenseSpecification": {
 "type": "structure",
 "members": {
 "LicenseConfigurationArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
 "smithy.api#required": {}
 }
 },
 "AmiAssociationScope": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Scope of AMI associations. The possible value is <code>cross-
account</code>.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>Details for associating a license configuration
with a resource.</p>"
 }
},
"com.amazonaws.licensemanager#LicenseSpecifications": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#LicenseSpecification"
 }
},
"com.amazonaws.licensemanager#LicenseStatus": {

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```

"type": "enum",
"members": {
 "AVAILABLE": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "AVAILABLE"
 }
 },
 "PENDING_AVAILABLE": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "PENDING_AVAILABLE"
 }
 },
 "DEACTIVATED": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "DEACTIVATED"
 }
 },
 "SUSPENDED": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "SUSPENDED"
 }
 },
 "EXPIRED": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "EXPIRED"
 }
 },
 "PENDING_DELETE": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "PENDING_DELETE"
 }
 },
 "DELETED": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "DELETED"
 }
 }
},
"com.amazonaws.licensemanager#LicenseUsage": {
 "type":

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```

"structure",
 "members": {
 "EntitlementUsages": {
 "target": "com.amazonaws.licensemanager#EntitlementUsageList",
 "traits": {
 "smithy.api#documentation": "<p>License entitlement usages.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>Describes the entitlement usage associated with a license.</p>"
 }
},
"com.amazonaws.licensemanager#LicenseUsageException": {
 "type": "structure",
 "members": {
 "Message": {
 "target": "com.amazonaws.licensemanager#Message"
 }
 },
 "traits": {
 "aws.protocols#awsQueryError": {
 "code": "LicenseUsageFailure",
 "httpResponseCode": 412
 },
 "smithy.api#documentation": "<p>You do not have
enough licenses available to support a new resource launch.</p>",
 "smithy.api#error": "client",
 "smithy.api#httpError": 412
 }
},
"com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
 }
]
}

```

```

 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Lists the resource associations for the specified license configuration.</p>\n <p>Resource associations need not consume licenses from a license configuration. \n For example, an AMI or a stopped instance might not consume a license (depending on \n the license rules).</p>"
 }
},
"com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest": {
 "type": "structure",
 "members": {
 "LicenseConfigurationArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of a license configuration.</p>",
 "smithy.api#required": {}
 }
 },
 "MaxResults": {
 "target": "com.amazonaws.licensemanager#BoxInteger",
 "traits": {
 "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
},
"com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse":

```

```

{
 "type": "structure",
 "members": {
 "LicenseConfigurationAssociations": {
 "target": "com.amazonaws.licensemanager#LicenseConfigurationAssociations",
 "traits": {
 "smithy.api#documentation": "<p>Information about the associations for the license
configuration.</p>"
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#ListDistributedGrants": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#ListDistributedGrantsRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#ListDistributedGrantsResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 }
],

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```

 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Lists the grants distributed for the specified license.</p>"
 }
},
"com.amazonaws.licensemanager#ListDistributedGrantsRequest": {
 "type": "structure",
 "members": {
 "GrantArns": {
 "target": "com.amazonaws.licensemanager#ArnList",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the grants.</p>"
 }
 },
 "Filters": {
 "target": "com.amazonaws.licensemanager#FilterList",
 "traits": {
 "smithy.api#documentation": "<p>Filters to scope the results. The following filters are supported:</p>\n
 \n
 \n
 <p>\n
 <code>LicenseArn</code>\n
 </p>\n
 \n
 \n
 <p>\n
 <code>GrantStatus</code>\n
 </p>\n
 \n
 \n
 <p>\n
 <code>GranteePrincipalARN</code>\n
 </p>\n
 \n
 \n
 <p>\n
 <code>ProductSKU</code>\n
 </p>\n
 \n
 \n
 <p>\n
 <code>LicenseIssuerName</code>\n
 </p>\n
 \n
 "
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 },
 "MaxResults": {
 "target": "com.amazonaws.licensemanager#MaxSize100",
 "traits": {
 "smithy.api#documentation":
 "<p>Maximum number of results to return in a single call.</p>"
 }
 }
 }
},
"traits": {
 "smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListDistributedGrantsResponse": {

```



```

"type": "structure",
"members": {
 "Grants": {
 "target": "com.amazonaws.licensemanager#GrantList",
 "traits": {
 "smithy.api#documentation": "<p>Distributed grant details.</p>"
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Lists the license configuration operations that failed.</p>"
 }
}

```

```

 },
 "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest": {
 "type": "structure",
 "members": {
 "LicenseConfigurationArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name of the license configuration.</p>",
 "smithy.api#required": {}
 }
 },
 "MaxResults": {
 "target": "com.amazonaws.licensemanager#BoxInteger",
 "traits": {
 "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
 }
 }
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
},
"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse": {
 "type": "structure",
 "members": {
 "LicenseOperationFailureList": {
 "target": "com.amazonaws.licensemanager#LicenseOperationFailureList",
 "traits": {
 "smithy.api#documentation": "<p>License configuration operations that failed.</p>"
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
}

```

```

 }
 },
 "com.amazonaws.licensemanager#ListLicenseConfigurations": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#ListLicenseConfigurationsResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Lists the license configurations for your account.</p>"
 }
 },
 "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest": {
 "type": "structure",
 "members": {
 "LicenseConfigurationArns": {
 "target": "com.amazonaws.licensemanager#StringList",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Names (ARN) of the license configurations.</p>"
 }
 },
 "MaxResults": {
 "target": "com.amazonaws.licensemanager#BoxInteger",

```

```

 "traits": {
 "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 },
 "Filters": {
 "target": "com.amazonaws.licensemanager#Filters",
 "traits": {
 "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical operators\n are supported:</p>\n \n \n <p>\n <code>licenseCountingType</code> - The dimension for which licenses are counted.\n Possible values are <code>vCPU</code> | <code>Instance</code> | <code>Core</code> | <code>Socket</code>.\n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n \n \n <p>\n <code>enforceLicenseCount</code> - A Boolean value that indicates whether hard license enforcement is used.\n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n \n \n <p>\n <code>usagelimitExceeded</code> - A Boolean value that indicates whether the available licenses have been exceeded.\n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n \n "
 }
 }
},
"traits": {
 "smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListLicenseConfigurationsResponse": {
 "type": "structure",
 "members": {
 "LicenseConfigurations": {
 "target": "com.amazonaws.licensemanager#LicenseConfigurations",
 "traits": {
 "smithy.api#documentation": "<p>Information about the license configurations.</p>"
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 }
 }
},
"traits": {

```

```

 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#ListLicenseConversionTasks": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#ListLicenseConversionTasksRequest"
 },
 "output": {

"target": "com.amazonaws.licensemanager#ListLicenseConversionTasksResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Lists the license type conversion tasks for your account.</p>"
 }
},
"com.amazonaws.licensemanager#ListLicenseConversionTasksRequest": {

"type": "structure",
 "members": {
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 },
 "MaxResults": {
 "target": "com.amazonaws.licensemanager#BoxInteger",
 "traits": {
 "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
 }
 }
 }
}

```

```

 },
 "Filters": {
 "target": "com.amazonaws.licensemanager#Filters",
 "traits": {
 "smithy.api#documentation": "<p>\n Filters to scope the results. Valid filters are
<code>ResourceArns</code> and <code>Status</code>.\n </p>"
 }
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
},
"com.amazonaws.licensemanager#ListLicenseConversionTasksResponse": {
 "type": "structure",
 "members": {
 "LicenseConversionTasks": {
 "target": "com.amazonaws.licensemanager#LicenseConversionTasks",
 "traits": {
 "smithy.api#documentation": "<p>Information about the license configuration tasks for your
account.</p>"
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#ListLicenseManagerReportGenerators": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 }
]
}

```

```

 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Lists the report generators for your account.</p>"
 }
},
"com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest": {
 "type": "structure",
 "members": {
 "Filters": {
 "target": "com.amazonaws.licensemanager#FilterList",
 "traits": {
 "smithy.api#documentation": "<p>Filters to scope the results. The following filters are supported:
</p>\n \n \n <p>\n <code>LicenseConfigurationArn</code>\n </p>\n \n "
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 },
 "MaxResults": {
 "target": "com.amazonaws.licensemanager#MaxSize100",
 "traits": {
 "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
 }
 }
 }
}

```

```

 },
 "traits": {
 "smithy.api#input": {}
 }
 },
 "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse": {
 "type": "structure",
 "members": {
 "ReportGenerators": {
 "target": "com.amazonaws.licensemanager#ReportGeneratorList",
 "traits": {
 "smithy.api#documentation": "<p>A report generator that creates periodic reports about your license configurations.</p>"
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
 },
 "com.amazonaws.licensemanager#ListLicenseSpecificationsForResource": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse"
 },
 "errors":
 [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 }
]

```



```

 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Describes the license configurations for the specified resource.</p>"
 }
},
"com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest": {
 "type": "structure",
 "members": {
 "ResourceArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of a resource that has an
associated license configuration.</p>",
 "smithy.api#required": {}
 }
 },
 "MaxResults": {
 "target": "com.amazonaws.licensemanager#BoxInteger",
 "traits": {
 "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
},
"com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse":
{
 "type": "structure",
 "members": {
 "LicenseSpecifications": {
 "target": "com.amazonaws.licensemanager#LicenseSpecifications",
 "traits": {
 "smithy.api#documentation": "<p>License configurations associated with a resource.</p>"
 }
 },
 "NextToken": {

```

```

 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#ListLicenseVersions": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#ListLicenseVersionsRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#ListLicenseVersionsResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Lists all versions of the specified license.</p>"
 }
},
"com.amazonaws.licensemanager#ListLicenseVersionsRequest":
{
 "type": "structure",
 "members": {
 "LicenseArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
 "smithy.api#required": {}
 }
 }
 }
}

```

```

 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 },
 "MaxResults": {
 "target": "com.amazonaws.licensemanager#MaxSize100",
 "traits": {
 "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
 }
 }
},
"traits":
{
 "smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListLicenseVersionsResponse": {
 "type": "structure",
 "members": {
 "Licenses": {
 "target": "com.amazonaws.licensemanager#LicenseList",
 "traits": {
 "smithy.api#documentation": "<p>License details.</p>"
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#ListLicenses": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#ListLicensesRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#ListLicensesResponse"
 },
}

```

```

"errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
"traits": {
 "smithy.api#documentation": "<p>Lists
the licenses for your account.</p>"
}
},
"com.amazonaws.licensemanager#ListLicensesRequest": {
 "type": "structure",
 "members": {
 "LicenseArns": {
 "target": "com.amazonaws.licensemanager#ArnList",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the licenses.</p>"
 }
 },
 "Filters": {
 "target": "com.amazonaws.licensemanager#FilterList",
 "traits": {
 "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n \n \n <p>\n <code>Beneficiary</code>\n </p>\n \n \n <p>\n <code>ProductSKU</code>\n </p>\n \n \n <p>\n <code>Fingerprint</code>\n </p>\n \n \n <p>\n <code>Status</code>\n </p>\n \n "
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {

```

```

 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
},
"MaxResults": {
 "target": "com.amazonaws.licensemanager#MaxSize100",
 "traits": {
 "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
 }
}
},
"traits": {
 "smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListLicensesResponse":
{
 "type": "structure",
 "members": {
 "Licenses": {
 "target": "com.amazonaws.licensemanager#LicenseList",
 "traits": {
 "smithy.api#documentation": "<p>License details.</p>"
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#ListReceivedGrants": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#ListReceivedGrantsRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#ListReceivedGrantsResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {

```

```

 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
"traits": {
 "smithy.api#documentation":
 "<p>Lists grants that are received. Received grants are grants created while specifying the\n recipient as this Amazon Web Services account, your organization, or an organizational unit\n (OU) to which this member account belongs.</p>"
}
},
"com.amazonaws.licensemanager#ListReceivedGrantsForOrganization": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
 }
]
}

```

```

 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Lists the grants received for all accounts in the organization.</p>"
 }
},
"com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationRequest": {
 "type": "structure",
 "members": {
 "LicenseArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the received
license.</p>",
 "smithy.api#required": {}
 }
 },
 "Filters": {
 "target": "com.amazonaws.licensemanager#FilterList",
 "traits": {
 "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n \n \n <p>\n <code>ParentArn</code>\n </p>\n \n \n <p>\n <code>GranteePrincipalArn</code>\n </p>\n \n "
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next
set of results.</p>"
 }
 },
 "MaxResults": {
 "target": "com.amazonaws.licensemanager#MaxSize100",
 "traits": {
 "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
}

```

```

 }
 },
 "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationResponse": {
 "type": "structure",
 "members": {
 "Grants": {
 "target": "com.amazonaws.licensemanager#GrantList",
 "traits": {
 "smithy.api#documentation": "<p>Lists the grants the organization has received.</p>"
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
 },
 "com.amazonaws.licensemanager#ListReceivedGrantsRequest": {
 "type": "structure",
 "members": {
 "GrantArns": {
 "target": "com.amazonaws.licensemanager#ArnList",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the grants.</p>"
 }
 },
 "Filters": {
 "target": "com.amazonaws.licensemanager#FilterList",
 "traits": {
 "smithy.api#documentation": "<p>Filters to scope the results. The following filters are supported:</p>\n
 \n
 \n
 <p>\n
 <code>ProductSKU</code>\n
 </p>\n
 \n
 \n
 <p>\n
 <code>LicenseIssuerName</code>\n
 </p>\n
 \n
 \n
 <p>\n
 <code>LicenseArn</code>\n
 </p>\n
 \n
 \n
 <p>\n
 <code>GrantStatus</code>\n
 </p>\n
 \n
 \n
 <p>\n
 <code>GranterAccountId</code>\n
 </p>\n
 \n
 "
 }
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 }
}

```



```

 },
 "MaxResults": {
 "target": "com.amazonaws.licensemanager#MaxSize100",
 },
 "traits": {
 "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
},
"com.amazonaws.licensemanager#ListReceivedGrantsResponse": {
 "type": "structure",
 "members": {
 "Grants": {
 "target": "com.amazonaws.licensemanager#GrantList",
 "traits": {
 "smithy.api#documentation": "<p>Received grant details.</p>"
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#ListReceivedLicenses": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#ListReceivedLicensesRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#ListReceivedLicensesResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 }
]
}

```

```

 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Lists received licenses.</p>"
 }
},
"com.amazonaws.licensemanager#ListReceivedLicensesForOrganization": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 }
],

```

```

 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Lists the licenses received for all accounts in the organization.</p>"
 }
},
"com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationRequest": {
 "type": "structure",
 "members": {
 {
 "Filters": {
 "target": "com.amazonaws.licensemanager#FilterList",
 "traits": {
 "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n \n \n <p>\n <code>Beneficiary</code>\n </p>\n \n \n <p>\n <code>ProductSKU</code>\n </p>\n \n "
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 },
 "MaxResults": {
 "target": "com.amazonaws.licensemanager#MaxSize100",
 "traits": {
 "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
 },
 "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationResponse": {
 "type": "structure",
 "members": {
 "Licenses": {
 "target": "com.amazonaws.licensemanager#GrantedLicenseList",
 "traits": {
 "smithy.api#documentation": "<p>Lists the licenses the organization has received.</p>"
 }
 }
 },
 },

```

```

 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 },
 "traits": {

 "smithy.api#output": {}
 },
 "com.amazonaws.licensemanager#ListReceivedLicensesRequest": {
 "type": "structure",
 "members": {
 "LicenseArns": {
 "target": "com.amazonaws.licensemanager#ArnList",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the licenses.</p>"
 }
 },
 "Filters": {
 "target": "com.amazonaws.licensemanager#FilterList",
 "traits": {
 "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n \n \n <p>\n <code>ProductSKU</code>\n </p>\n \n \n <p>\n <code>Status</code>\n </p>\n \n \n <p>\n <code>Fingerprint</code>\n </p>\n \n \n <p>\n <code>IssuerName</code>\n </p>\n \n \n <p>\n <code>Beneficiary</code>\n </p>\n \n "
 }
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 },
 "MaxResults": {
 "target": "com.amazonaws.licensemanager#MaxSize100",
 "traits": {
 "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
 }
 }
 },
 "traits":

```

```

{
 "smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListReceivedLicensesResponse": {
 "type": "structure",
 "members": {
 "Licenses": {
 "target": "com.amazonaws.licensemanager#GrantedLicenseList",
 "traits": {
 "smithy.api#documentation": "<p>Received license details.</p>"
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#ListResourceInventory": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#ListResourceInventoryRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#ListResourceInventoryResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#FailedDependencyException"
 },
 {
 "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 }
],

```

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 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target":
"com.amazonaws.licensemanager#ServerInternalException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Lists resources managed using Systems Manager inventory.</p>"
 }
},
"com.amazonaws.licensemanager#ListResourceInventoryRequest": {
 "type": "structure",
 "members": {
 "MaxResults": {
 "target": "com.amazonaws.licensemanager#BoxInteger",
 "traits": {
 "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 }
 },
 "Filters": {
 "target":
"com.amazonaws.licensemanager#InventoryFilterList",
 "traits": {
 "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical
operators\n are supported:</p>\n \n \n <p>\n <code>account_id</code>
- The ID of the Amazon Web Services account that owns the resource.\n Logical operators are
<code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n \n \n <p>\n
<code>application_name</code> - The name of the application. \n Logical operators are
<code>EQUALS</code> | <code>BEGINS_WITH</code>.</p>\n \n \n <p>\n
<code>license_included</code> - The type of license included. \n Logical operators are
<code>EQUALS</code> | <code>NOT_EQUALS</code>.\n Possible values are <code>sql-server-
enterprise</code>
| \n <code>sql-server-standard</code> | \n <code>sql-server-web</code> | \n
<code>windows-server-datacenter</code>.</p>\n \n \n <p>\n
<code>platform</code> - The platform of the resource.\n Logical operators are <code>EQUALS</code> |
<code>BEGINS_WITH</code>.</p>\n \n \n <p>\n
<code>resource_id</code> - The ID of the resource. \n Logical operators are <code>EQUALS</code> |
<code>NOT_EQUALS</code>.</p>\n \n \n <p>\n
<code>tag:<key></code> - The key/value combination of a tag assigned \n to the resource. Logical
operators are <code>EQUALS</code> (single account) or\n <code>EQUALS</code> |

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<code>NOT\_EQUALS</code> (cross account).</p>\n       </li>\n     </ul>"

```
}
 }
},
"traits": {
 "smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListResourceInventoryResponse": {
 "type": "structure",
 "members": {
 "ResourceInventoryList": {
 "target": "com.amazonaws.licensemanager#ResourceInventoryList",
 "traits": {
 "smithy.api#documentation": "<p>Information about the resources.</p>"
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#ListTagsForResource": {
 "type":
"operation",
 "input": {
 "target": "com.amazonaws.licensemanager#ListTagsForResourceRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#ListTagsForResourceResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
],
}
```

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 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Lists the
tags for the specified license configuration.</p>"
 }
},
"com.amazonaws.licensemanager#ListTagsForResourceRequest": {
 "type": "structure",
 "members": {
 "ResourceArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
 "smithy.api#required": {}
 }
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
},
"com.amazonaws.licensemanager#ListTagsForResourceResponse": {
 "type": "structure",
 "members": {
 "Tags": {
 "target": "com.amazonaws.licensemanager#TagList",
 "traits": {
 "smithy.api#documentation": "<p>Information about the tags.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#ListTokens": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#ListTokensRequest"
 },

```



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"output": {
 "target": "com.amazonaws.licensemanager#ListTokensResponse"
},
"errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
"traits": {
 "smithy.api#documentation": "<p>Lists your tokens.</p>"
}
},
"com.amazonaws.licensemanager#ListTokensRequest": {
 "type": "structure",
 "members": {
 "TokenIds": {
 "target": "com.amazonaws.licensemanager#StringList",
 "traits": {
 "smithy.api#documentation": "<p>Token IDs.</p>"
 }
 },
 "Filters": {
 "target": "com.amazonaws.licensemanager#FilterList",
 "traits": {
 "smithy.api#documentation": "<p>Filters to scope the results. The following filter is supported:</p>\n
\n \n <p>\n <code>LicenseArns</code>\n </p>\n \n"
 }
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 }
}

```

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 },
 "MaxResults": {
 "target": "com.amazonaws.licensemanager#MaxSize100",
 "traits": {
 "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
},
"com.amazonaws.licensemanager#ListTokensResponse": {
 "type": "structure",
 "members": {
 "Tokens": {
 "target": "com.amazonaws.licensemanager#TokenList",
 "traits": {
 "smithy.api#documentation":
"<p>Received token details.</p>"
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#ListUsageForLicenseConfiguration": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {

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"target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 }
],
"traits": {
 "smithy.api#documentation": "<p>Lists all license usage records for a license configuration, displaying
license consumption details by resource at a selected point in time. Use this action to audit the
current
license consumption for any license inventory and configuration.</p>"
}
},
"com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest":
{
 "type": "structure",
 "members": {
 "LicenseConfigurationArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
 "smithy.api#required": {}
 }
 },
 "MaxResults": {
 "target": "com.amazonaws.licensemanager#BoxInteger",
 "traits": {
 "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 }
 },
 "Filters": {
 "target": "com.amazonaws.licensemanager#Filters",

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```

 "traits": {
 "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical
operators\n are supported:</p>\n \n \n <p>\n<code>resourceArn</code> - The ARN of the license configuration resource.\n Logical operators are
<code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n \n \n <p>\n<code>resourceType</code> - The resource type (<code>EC2_INSTANCE</code> |
<code>EC2_HOST</code> | <code>EC2_AMI</code> |
<code>SYSTEMS_MANAGER_MANAGED_INSTANCE</code>).\n Logical operators are
<code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n \n \n <p>\n<code>resourceAccount</code>
- The ID of the account that owns the resource. \n Logical operators are <code>EQUALS</code> |
<code>NOT_EQUALS</code>.</p>\n \n "
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
},
"com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse": {
 "type": "structure",
 "members": {
 "LicenseConfigurationUsageList": {
 "target": "com.amazonaws.licensemanager#LicenseConfigurationUsageList",
 "traits": {
 "smithy.api#documentation": "<p>Information about the license configurations.</p>"
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#Location": {
 "type": "string"
},
"com.amazonaws.licensemanager#Long": {
 "type": "long"
},
"com.amazonaws.licensemanager#ManagedResourceSummary": {
 "type": "structure",
 "members": {

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"ResourceType": {
 "target": "com.amazonaws.licensemanager#ResourceType",
 "traits": {
 "smithy.api#documentation": "<p>Type of resource associated with a license.</p>"
 }
},
"AssociationCount": {
 "target": "com.amazonaws.licensemanager#BoxLong",
 "traits": {
 "smithy.api#documentation": "<p>Number of resources associated with licenses.</p>"
 }
}
},
"traits": {
 "smithy.api#documentation": "<p>Summary information about a managed resource.</p>"
}
},
"com.amazonaws.licensemanager#ManagedResourceSummaryList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#ManagedResourceSummary"
 }
},
"com.amazonaws.licensemanager#MaxSize100": {
 "type": "integer",
 "traits": {
 "smithy.api#range": {
 "min": 1,
 "max": 100
 }
 }
},
"com.amazonaws.licensemanager#MaxSize3StringList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#String"
 },
 "traits": {
 "smithy.api#length": {
 "min": 0,
 "max": 3
 }
 }
}
},
"com.amazonaws.licensemanager#Message": {
 "type": "string"
}

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},
"com.amazonaws.licensemanager#Metadata": {
 "type": "structure",
 "members": {
 "Name": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>The key name.</p>"
 }
 },
 "Value": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>The value.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>Describes key/value pairs.</p>"
 }
},
"com.amazonaws.licensemanager#MetadataList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#Metadata"
 }
},
"com.amazonaws.licensemanager#NoEntitlementsAllowedException": {
 "type": "structure",
 "members": {
 "Message": {
 "target": "com.amazonaws.licensemanager#Message"
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>There are no entitlements found for this license, or the entitlement
maximum count is reached.</p>",
 "smithy.api#error": "client",
 "smithy.api#httpError": 400
 }
},
"com.amazonaws.licensemanager#Options": {
 "type": "structure",
 "members": {
 "ActivationOverrideBehavior": {
 "target": "com.amazonaws.licensemanager#ActivationOverrideBehavior",
 "traits": {
 "smithy.api#documentation": "<p>An activation option for your grant that determines the behavior of

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activating

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a grant.\n Activation options can only be used with granted licenses sourced from the Amazon Web Services\n Marketplace. Additionally, the operation must specify the value of <code>ACTIVE</code> for the\n <code>Status</code> parameter.</p>\n \n \n <p>As a license administrator, you can\n optionally specify an\n <code>ActivationOverrideBehavior</code> when activating a grant.</p>\n \n \n <p>As a grantor, you can optionally specify an\n <code>ActivationOverrideBehavior</code> when you activate a grant for a grantee\n account in your\n organization.</p>\n \n \n <p>As a grantee, if the grantor creating the distributed\n grant doesnt specify an\n <code>ActivationOverrideBehavior</code>, you can optionally specify one\n when you\n are activating the grant.</p>\n \n \n <dl>\n <dt>DISTRIBUTED_GRANTS_ONLY</dt>\n <dd>\n <p>Use this value to activate a grant without replacing any member accounts\n active grants for the same\n product.</p>\n </dd>\n <dt>ALL_GRANTS_PERMITTED_BY_ISSUER</dt>\n <dd>\n <p>Use this value to activate a grant and disable other active grants in any\n member accounts for the\n same product. This action will also replace their\n previously activated grants with this activated\n grant.</p>\n </dd>\n </dl>\n }\n },\n "traits": {\n "smithy.api#documentation": "<p>The options you can specify when you create a new version of a grant,\n such as activation\n override behavior. For more information, see <a\n href=\\\"https://docs.aws.amazon.com/license-manager/latest/userguide/granted-licenses.html\\\">Granted\n licenses in License Manager in the <i>License Manager User Guide</i>.</p>"\n }\n },\n "com.amazonaws.licensemanager#OrganizationConfiguration": {\n "type": "structure",\n "members": {\n "EnableIntegration": {\n "target": "com.amazonaws.licensemanager#Boolean",\n "traits": {\n "smithy.api#default": false,\n "smithy.api#documentation": "<p>Enables Organizations integration.</p>",\n "smithy.api#required": {} \n }\n }\n }\n },\n "traits": {\n "smithy.api#documentation": "<p>Configuration information for Organizations.</p>"\n }\n },\n "com.amazonaws.licensemanager#PrincipalArnList": {\n "type": "list",\n "member": {\n "target": "com.amazonaws.licensemanager#Arn"\n },\n "traits":
```

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{
 "smithy.api#length": {
 "min": 1,
 "max": 1
 }
},
"com.amazonaws.licensemanager#ProductInformation": {
 "type": "structure",
 "members": {
 "ResourceType": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Resource type. The possible values are
<code>SSM_MANAGED</code> | <code>RDS</code>.</p>",
 "smithy.api#required": {}
 }
 },
 "ProductInformationFilterList": {
 "target": "com.amazonaws.licensemanager#ProductInformationFilterList",
 "traits": {
 "smithy.api#documentation": "<p>A Product information filter consists of a
<code>ProductInformationFilterComparator</code> which is a logical operator, a
<code>ProductInformationFilterName</code>
which specifies the type of filter being declared, and a <code>ProductInformationFilterValue</code> that specifies
the value to filter on. </p>\n <p>Accepted values for <code>ProductInformationFilterName</code> are listed
here along with descriptions and valid options for <code>ProductInformationFilterComparator</code>. </p>\n
<p>The following filters and are supported when the resource type \n is
<code>SSM_MANAGED</code>:</p>\n \n \n <p>\n <code>Application
Name</code> - The name of the application.\n Logical operator is <code>EQUALS</code>.</p>\n
\n \n <p>\n <code>Application Publisher</code> - The publisher of the
application.\n Logical operator is <code>EQUALS</code>.</p>\n
\n \n <p>\n <code>Application Version</code> - The
version of the application.\n Logical operator is <code>EQUALS</code>.</p>\n
\n \n <p>\n <code>Platform Name</code> - The name of the platform.\n Logical
operator is <code>EQUALS</code>.</p>\n
\n \n <p>\n <code>Platform
Type</code> - The platform type.\n Logical operator is <code>EQUALS</code>.</p>\n
\n \n <p>\n <code>Tag:key</code> - The key of a tag attached to an Amazon Web Services
resource you wish to exclude from automated discovery. Logical operator is <code>NOT_EQUALS</code>. The
key for your tag must be appended to <code>Tag:</code> following the example: <code>Tag:name-of-your-
key</code>. <code>ProductInformationFilterValue</code> is optional if you are not using values for the key.\n
</p>\n
\n \n <p>\n <code>AccountId</code> - The 12-digit ID of an Amazon Web Services account you wish to
exclude from automated discovery.\n Logical operator is <code>NOT_EQUALS</code>.</p>\n
\n \n <p>\n <code>License Included</code> - The type of license included.\n Logical operators are <code>EQUALS</code> and <code>NOT_EQUALS</code>.\n Possible values
are: <code>sql-server-enterprise</code> | \n <code>sql-server-standard</code> | \n <code>sql-
server-web</code> | \n <code>windows-server-datacenter</code>.</p>\n
\n \n

```



The following filters and logical operators are supported when the resource type is RDS:

- Engine Edition - The edition of the database engine. Logical operator is EQUALS. Possible values are: oracle-ee | oracle-se1 | oracle-se2.
- License Pack - The license pack. Logical operator is EQUALS. Possible values are: data guard | diagnostic pack sqlt | tuning pack sqlt | ols | olap.

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 "smithy.api#required": {}
 }
},
"traits": {
 "smithy.api#documentation": "<p>Describes product information for a license configuration.</p>"
}
},
"com.amazonaws.licensemanager#ProductInformationFilter": {
 "type": "structure",
 "members": {
 "ProductInformationFilterName": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Filter name.</p>",
 "smithy.api#required": {}
 }
 },
 "ProductInformationFilterValue": {
 "target": "com.amazonaws.licensemanager#StringList",
 "traits": {
 "smithy.api#documentation": "<p>Filter value.</p>"
 }
 },
 "ProductInformationFilterComparator": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Logical operator.</p>",
 "smithy.api#required": {}
 }
 }
 },
 "traits": {
 "smithy.api#documentation":
 "<p>Describes product information filters.</p>"
 }
},
"com.amazonaws.licensemanager#ProductInformationFilterList": {
 "type": "list",

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 "member": {
 "target": "com.amazonaws.licensemanager#ProductInformationFilter"
 }
 },
 "com.amazonaws.licensemanager#ProductInformationList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#ProductInformation"
 }
 },
 "com.amazonaws.licensemanager#ProvisionalConfiguration": {
 "type": "structure",
 "members": {
 "MaxTimeToLiveInMinutes": {
 "target": "com.amazonaws.licensemanager#BoxInteger",
 "traits": {
 "smithy.api#documentation": "<p>Maximum time for the provisional configuration, in minutes.</p>",
 "smithy.api#required": {}
 }
 }
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>Details about a provisional configuration.</p>"
 }
},
"com.amazonaws.licensemanager#RateLimitExceededException": {
 "type": "structure",
 "members": {
 "Message": {
 "target": "com.amazonaws.licensemanager#Message"
 }
 },
 "traits": {
 "aws.protocols#awsQueryError": {
 "code": "RateLimitExceeded",
 "httpResponseCode": 429
 },
 "smithy.api#documentation": "<p>Too many requests have been submitted. Try again after a brief wait.</p>",
 "smithy.api#error": "client",
 "smithy.api#httpError": 429
 }
},
"com.amazonaws.licensemanager#ReceivedMetadata": {
 "type": "structure",
 "members": {

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"ReceivedStatus": {
 "target": "com.amazonaws.licensemanager#ReceivedStatus",
 "traits": {
 "smithy.api#documentation": "<p>Received status.</p>"
 }
},
"ReceivedStatusReason": {
 "target": "com.amazonaws.licensemanager#StatusReasonMessage",
 "traits": {
 "smithy.api#documentation": "<p>Received status reason.</p>"
 }
},
"AllowedOperations": {
 "target": "com.amazonaws.licensemanager#AllowedOperationList",
 "traits": {
 "smithy.api#documentation": "<p>Allowed operations.</p>"
 }
},
"traits": {
 "smithy.api#documentation": "<p>Metadata associated with received licenses and grants.</p>"
}
},
"com.amazonaws.licensemanager#ReceivedStatus":
{
 "type": "enum",
 "members": {
 "PENDING_WORKFLOW": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "PENDING_WORKFLOW"
 }
 },
 "PENDING_ACCEPT": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "PENDING_ACCEPT"
 }
 },
 "REJECTED": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "REJECTED"
 }
 },
 "ACTIVE": {
 "target": "smithy.api#Unit",
 "traits": {

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 "smithy.api#enumValue": "ACTIVE"
 }
},
"FAILED_WORKFLOW": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "FAILED_WORKFLOW"
 }
},
"DELETED": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "DELETED"
 }
},
"DISABLED": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "DISABLED"
 }
},
"WORKFLOW_COMPLETED": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "WORKFLOW_COMPLETED"
 }
}
},
"com.amazonaws.licensemanager#RedirectException": {
 "type": "structure",
 "members": {
 "Location": {
 "target": "com.amazonaws.licensemanager#Location",
 "traits": {
 "smithy.api#httpHeader": "Location"
 }
 },
 "Message": {
 "target": "com.amazonaws.licensemanager#Message"
 }
 }
},
"traits": {
 "smithy.api#documentation": "<p>This is not the correct Region for the resource. Try again.</p>",
 "smithy.api#error": "client",
 "smithy.api#httpError": 308
}

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 }
 },
 "com.amazonaws.licensemanager#RejectGrant": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#RejectGrantRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#RejectGrantResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Rejects the specified grant.</p>"
 }
 },
 "com.amazonaws.licensemanager#RejectGrantRequest":
 {
 "type": "structure",
 "members": {
 "GrantArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
 "smithy.api#required": {}
 }
 }
 }
 }
}

```

```

 },
 "traits": {
 "smithy.api#input": {}
 }
 },
 "com.amazonaws.licensemanager#RejectGrantResponse": {
 "type": "structure",
 "members": {
 "GrantArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>Grant ARN.</p>"
 }
 },
 "Status": {
 "target": "com.amazonaws.licensemanager#GrantStatus",
 "traits": {

"smithy.api#documentation": "<p>Grant status.</p>"
 }
 },
 "Version": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Grant version.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
 },
 "com.amazonaws.licensemanager#RenewType": {
 "type": "enum",
 "members": {
 "NONE": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "None"
 }
 },
 "WEEKLY": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Weekly"
 }
 },
 "MONTHLY": {

```

```

 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Monthly"
 }
 }
},
"com.amazonaws.licensemanager#ReportContext": {
 "type": "structure",
 "members": {
 "licenseConfigurationArns": {
 "target": "com.amazonaws.licensemanager#ArnList",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration that
this generator reports on.</p>",
 "smithy.api#required": {}
 }
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>Details of the license configuration that this generator reports on.</p>"
 }
},
"com.amazonaws.licensemanager#ReportFrequency": {
 "type": "structure",
 "members":
{
 "value": {
 "target": "com.amazonaws.licensemanager#Integer",
 "traits": {
 "smithy.api#documentation": "<p>Number of times within the frequency period that a report is
generated. \n The only supported value is <code>1</code>.</p>"
 }
 },
 "period": {
 "target": "com.amazonaws.licensemanager#ReportFrequencyType",
 "traits": {
 "smithy.api#documentation": "<p>Time period between each report. The period can be daily, weekly,
or monthly.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>Details about how frequently reports are generated.</p>"
 }
},
"com.amazonaws.licensemanager#ReportFrequencyType": {

```

```

"type": "enum",
"members": {
 "DAY": {

"target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "DAY"
 }
},
"WEEK": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "WEEK"
 }
},
"MONTH": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "MONTH"
 }
}
},
"com.amazonaws.licensemanager#ReportGenerator": {
 "type": "structure",
 "members": {
 "ReportGeneratorName": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Name of the report generator.</p>"
 }
 },
 "ReportType": {
 "target": "com.amazonaws.licensemanager#ReportTypeList",
 "traits": {
 "smithy.api#documentation": "<p>Type of reports that are generated.</p>"
 }
 },
 "ReportContext": {
 "target": "com.amazonaws.licensemanager#ReportContext",
 "traits": {
 "smithy.api#documentation": "<p>License configuration type for this generator.</p>"
 }
 },
 "ReportFrequency": {
 "target": "com.amazonaws.licensemanager#ReportFrequency",
 "traits": {

```



```

 "smithy.api#documentation": "<p>Details about how frequently reports are generated.</p>"
 }
},
"LicenseManagerReportGeneratorArn": {
 "target": "com.amazonaws.licensemanager#String",

"traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator.</p>"
 }
},
"LastRunStatus": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Status of the last report generation attempt.</p>"
 }
},
"LastRunFailureReason": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Failure message for the last report generation attempt.</p>"
 }
},
"LastReportGenerationTime": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Time the last report was generated at.</p>"
 }
},
"ReportCreatorAccount": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>The Amazon Web Services account ID used to create the report
generator.</p>"
 }
},
"Description": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Description of the report generator.</p>"
 }
},
"S3Location": {
 "target": "com.amazonaws.licensemanager#S3Location",
 "traits": {
 "smithy.api#documentation": "<p>Details of the S3 bucket that report generator reports are published
to.</p>"
 }
},

```

```

 "CreateTime": {
 "target":
"com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Time the report was created.</p>"
 }
 },
 "Tags": {
 "target": "com.amazonaws.licensemanager#TagList",
 "traits": {
 "smithy.api#documentation": "<p>Tags associated with the report generator.</p>"
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>Describe the details of a report generator.</p>"
 },
 "com.amazonaws.licensemanager#ReportGeneratorList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#ReportGenerator"
 }
 },
 "com.amazonaws.licensemanager#ReportGeneratorName": {
 "type": "string",
 "traits": {
 "smithy.api#length":
{
 "min": 1,
 "max": 100
 }
 }
 },
 "com.amazonaws.licensemanager#ReportType": {
 "type": "enum",
 "members": {
 "LICENSE_CONFIGURATION_SUMMARY_REPORT": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "LicenseConfigurationSummaryReport"
 }
 },
 "LICENSE_CONFIGURATION_USAGE_REPORT": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "LicenseConfigurationUsageReport"
 }
 }
 }
 }
 }

```

```

 }
 }
},
"com.amazonaws.licensemanager#ReportTypeList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#ReportType"
 }
},
"com.amazonaws.licensemanager#ResourceInventory":
{
 "type": "structure",
 "members": {
 "ResourceId": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>ID of the resource.</p>"
 }
 },
 "ResourceType": {
 "target": "com.amazonaws.licensemanager#ResourceType",
 "traits": {
 "smithy.api#documentation": "<p>Type of resource.</p>"
 }
 },
 "ResourceArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
 }
 },
 "Platform": {
 "target": "com.amazonaws.licensemanager#String",

"traits": {
 "smithy.api#documentation": "<p>Platform of the resource.</p>"
 }
 },
 "PlatformVersion": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Platform version of the resource in the inventory.</p>"
 }
 },
 "ResourceOwningAccountId": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>ID of the account that owns the resource.</p>"
 }
 }
}

```

```

 }
 },
 "traits": {
 "smithy.api#documentation": "<p>Details about a resource.</p>"
 }
},
"com.amazonaws.licensemanager#ResourceInventoryList": {
 "type": "list",
 "member": {
 "target":
"com.amazonaws.licensemanager#ResourceInventory"
 }
},
"com.amazonaws.licensemanager#ResourceLimitExceededException": {
 "type": "structure",
 "members": {
 "Message": {
 "target": "com.amazonaws.licensemanager#Message"
 }
 },
 "traits": {
 "aws.protocols#awsQueryError": {
 "code": "ResourceLimitExceeded",
 "httpResponseCode": 400
 },
 "smithy.api#documentation": "<p>Your resource limits have been exceeded.</p>",
 "smithy.api#error": "client",
 "smithy.api#httpError": 400
 }
},
"com.amazonaws.licensemanager#ResourceNotFoundException": {
 "type": "structure",
 "members": {
 "Message": {
 "target": "com.amazonaws.licensemanager#Message"
 }
 },
 "traits": {
 "aws.protocols#awsQueryError": {
 "code": "InvalidResource.NotFound",
 "httpResponseCode": 400
 },
 "smithy.api#documentation": "<p>The resource cannot be found.</p>",
 "smithy.api#error": "client",
 "smithy.api#httpError": 400
 }
},

```

```

"com.amazonaws.licensemanager#ResourceType": {
 "type": "enum",
 "members": {
 "EC2_INSTANCE": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "EC2_INSTANCE"
 }
 },
 "EC2_HOST": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "EC2_HOST"
 }
 },
 "EC2_AMI": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "EC2_AMI"
 }
 },
 "RDS": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "RDS"
 }
 },
 "SYSTEMS_MANAGER_MANAGED_INSTANCE": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "SYSTEMS_MANAGER_MANAGED_INSTANCE"
 }
 }
 }
},
"com.amazonaws.licensemanager#S3Location": {
 "type": "structure",
 "members": {
 "bucket": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Name of the S3 bucket reports are published to.</p>"
 }
 }
 },
 "keyPrefix": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {

```

```

 "smithy.api#documentation": "<p>Prefix of the S3 bucket reports are published to.</p>"
 }
}
},
"traits": {
 "smithy.api#documentation": "<p>Details of the S3 bucket that report generator reports are published
to.</p>"
}
},
"com.amazonaws.licensemanager#ServerInternalException": {
 "type": "structure",
 "members": {
 "Message": {
 "target": "com.amazonaws.licensemanager#Message"
 }
 },
 "traits": {
 "aws.protocols#awsQueryError": {
 "code": "InternalServerError",
 "httpResponseCode": 500
 },
 "smithy.api#documentation": "<p>The server experienced an internal
error. Try again.</p>",
 "smithy.api#error": "server",
 "smithy.api#httpError": 500
 }
},
"com.amazonaws.licensemanager#SignedToken": {
 "type": "string",
 "traits": {
 "smithy.api#length": {
 "min": 4096
 }
 }
},
"com.amazonaws.licensemanager#StatusReasonMessage": {
 "type": "string",
 "traits": {
 "smithy.api#length": {
 "min": 0,
 "max": 400
 },
 "smithy.api#pattern": "^[[s\\S]+$"
 }
},
"com.amazonaws.licensemanager#String": {
 "type": "string"
},

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```

"com.amazonaws.licensemanager#StringList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#String"
 }
},
"com.amazonaws.licensemanager#Tag":
{
 "type": "structure",
 "members": {
 "Key": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Tag key.</p>"
 }
 },
 "Value": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Tag value.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>Details about a tag for a license configuration.</p>"
 }
},
"com.amazonaws.licensemanager#TagKeyList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#String"
 }
},
"com.amazonaws.licensemanager#TagList": {
 "type": "list",
 "member":
{
 "target": "com.amazonaws.licensemanager#Tag"
}
},
"com.amazonaws.licensemanager#TagResource": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#TagResourceRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#TagResourceResponse"
 },
}

```

```

"errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 }
],
"traits": {
 "smithy.api#documentation": "<p>Adds the specified tags to the specified license configuration.</p>"
}
},
"com.amazonaws.licensemanager#TagResourceRequest": {
 "type": "structure",
 "members": {
 "ResourceArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>",
 "smithy.api#required": {}
 }
 },
 "Tags": {
 "target": "com.amazonaws.licensemanager#TagList",
 "traits": {
 "smithy.api#documentation": "<p>One or more tags.</p>",
 "smithy.api#required": {}
 }
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
},
"com.amazonaws.licensemanager#TagResourceResponse": {
 "type": "structure",
 "members": {},
 "traits": {

```



```

 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#TokenData": {
 "type": "structure",
 "members": {
 "TokenId": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token ID.</p>"
 }
 },
 "TokenType": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Type of token generated. The supported value is
<code>REFRESH_TOKEN</code>.</p>"
 }
 },
 "LicenseArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
 }
 },
 "ExpirationTime": {
 "target": "com.amazonaws.licensemanager#ISO8601DateTime",
 "traits": {
 "smithy.api#documentation": "<p>Token expiration time, in ISO8601-UTC format.</p>"
 }
 },
 "TokenProperties": {
 "target": "com.amazonaws.licensemanager#MaxSize3StringList",
 "traits": {
 "smithy.api#documentation": "<p>Data specified by the caller.</p>"
 }
 },
 "RoleArns": {
 "target": "com.amazonaws.licensemanager#ArnList",
 "traits": {
 "smithy.api#documentation":
"<p>Amazon Resource Names (ARN) of the roles included in the token.</p>"
 }
 },
 "Status": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {

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```

 "smithy.api#documentation": "<p>Token status. The possible values are
<code>AVAILABLE</code> and <code>DELETED</code>.</p>"
 }
}
},
"traits": {
 "smithy.api#documentation": "<p>Describes a token.</p>"
}
},
"com.amazonaws.licensemanager#TokenList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#TokenData"
 }
},
"com.amazonaws.licensemanager#TokenString": {
 "type": "string",
 "traits": {
 "smithy.api#length": {
 "min": 0,
 "max": 4096
 }
 },

 "smithy.api#pattern": "^\\S+$"
}
},
"com.amazonaws.licensemanager#TokenType": {
 "type": "enum",
 "members": {
 "REFRESH_TOKEN": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "REFRESH_TOKEN"
 }
 }
 }
}
},
"com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException": {
 "type": "structure",
 "members": {
 "Message": {
 "target": "com.amazonaws.licensemanager#Message"
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>The digital signature method is unsupported. Try your request
again.</p>",
 "smithy.api#error": "client",

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```

 "smithy.api#httpError": 400
 }
},
"com.amazonaws.licensemanager#UntagResource":
{
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#UntagResourceRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#UntagResourceResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Removes
the specified tags from the specified license configuration.</p>"
 }
},
"com.amazonaws.licensemanager#UntagResourceRequest": {
 "type": "structure",
 "members": {
 "ResourceArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
 "smithy.api#required": {}
 }
 }
 },
 "TagKeys": {
 "target": "com.amazonaws.licensemanager#TagKeyList",
 "traits": {

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```

 "smithy.api#documentation": "<p>Keys identifying the tags to remove.</p>",
 "smithy.api#required": {}
 }
}
},
"traits": {
 "smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UntagResourceResponse":
{
 "type": "structure",
 "members": {},
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#UpdateLicenseConfiguration": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target":
"com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Modifies the attributes of an existing license configuration.</p>"
 }
}

```

```

 }
 },
 "com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest": {
 "type": "structure",
 "members": {
 "LicenseConfigurationArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
 "smithy.api#required": {}
 }
 }
 },
 "LicenseConfigurationStatus": {
 "target": "com.amazonaws.licensemanager#LicenseConfigurationStatus",
 "traits": {
 "smithy.api#documentation": "<p>New status of the license configuration.</p>"
 }
 },
 "LicenseRules": {
 "target": "com.amazonaws.licensemanager#StringList",
 "traits": {
 "smithy.api#documentation": "<p>New license rule. The only rule that you can add after you create a
license\n configuration is licenseAffinityToHost.</p>"
 }
 },
 "LicenseCount": {
 "target": "com.amazonaws.licensemanager#BoxLong",
 "traits": {
 "smithy.api#documentation": "<p>New number of licenses managed by the license
configuration.</p>"
 }
 },
 "LicenseCountHardLimit": {
 "target": "com.amazonaws.licensemanager#BoxBoolean",
 "traits": {
 "smithy.api#documentation": "<p>New hard limit of the number of available licenses.</p>"
 }
 },
 "Name": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>New name of the license configuration.</p>"
 }
 },
 "Description": {

```

```

 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>New description of the license configuration.</p>"
 }
 },
 "ProductInformationList": {
 "target": "com.amazonaws.licensemanager#ProductInformationList",
 "traits": {
 "smithy.api#documentation": "<p>New product information.</p>"
 }
 },
 "DisassociateWhenNotFound": {
 "target": "com.amazonaws.licensemanager#BoxBoolean",
 "traits": {
 "smithy.api#documentation": "<p>When true, disassociates a resource when software is
uninstalled.</p>"
 }
 }
},
"traits": {
 "smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse": {
 "type": "structure",
 "members": {},
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 }
]
}

```

```

 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Updates a report generator.</p>\n <p>After you make changes to a report generator, it starts generating new reports within 60 minutes of being updated.</p>"
 }
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest": {
 "type": "structure",
 "members": {
 "LicenseManagerReportGeneratorArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator to update.</p>",
 "smithy.api#required": {}
 }
 },
 "ReportGeneratorName": {
 "target": "com.amazonaws.licensemanager#ReportGeneratorName",
 "traits": {
 "smithy.api#documentation": "<p>Name of the report generator.</p>",
 "smithy.api#required": {}
 }
 }
 },
 "Type": {
 "target": "com.amazonaws.licensemanager#ReportTypeList",
 "traits": {
 "smithy.api#documentation": "<p>Type of reports to generate. The following report types are supported:</p>\n \n \n <p>License configuration report - Reports the number and details of consumed licenses for a license configuration.</p>\n \n \n <p>Resource report - Reports the tracked licenses and resource consumption for a license configuration.</p>\n \n ",
 }
 }
}

```

```

 "smithy.api#required": {}
 }
},
"ReportContext": {
 "target": "com.amazonaws.licensemanager#ReportContext",
 "traits": {
 "smithy.api#documentation": "<p>The report context.</p>",
 "smithy.api#required": {}
 }
},
"ReportFrequency": {
 "target": "com.amazonaws.licensemanager#ReportFrequency",
 "traits": {
 "smithy.api#documentation": "<p>Frequency by which reports are generated.</p>",
 "smithy.api#required": {}
 }
},
"ClientToken": {
 "target": "com.amazonaws.licensemanager#ClientRequestToken",
 "traits": {
 "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
 "smithy.api#required": {}
 }
},
"Description": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Description of the report generator.</p>"
 }
},
"traits": {
 "smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse": {
 "type": "structure",
 "members": {},
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest"
 }
}

```



```

 },
 "output": {
 "target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidResourceStateException"
 },
 {
 "target": "com.amazonaws.licensemanager#LicenseUsageException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 }
],
 "traits":
 {
 "smithy.api#documentation": "<p>Adds or removes the specified license configurations for the specified Amazon Web Services resource.</p>\n <p>You can update the license specifications of AMIs, instances, and hosts.\n You cannot update the license specifications for launch templates and CloudFormation templates, \n as they send license configurations to the operation that creates the resource.</p>"
 }
},
"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest": {
 "type": "structure",
 "members": {
 "ResourceArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the Amazon Web Services resource.</p>",
 "smithy.api#required": {}
 }
 }
 },
 "AddLicenseSpecifications":

```

```

{
 "target": "com.amazonaws.licensemanager#LicenseSpecifications",
 "traits": {
 "smithy.api#documentation": "<p>ARNs of the license configurations to add.</p>"
 }
},
"RemoveLicenseSpecifications": {
 "target": "com.amazonaws.licensemanager#LicenseSpecifications",
 "traits": {
 "smithy.api#documentation": "<p>ARNs of the license configurations to remove.</p>"
 }
}
},
"traits": {
 "smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse": {
 "type": "structure",
 "members": {},
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#UpdateServiceSettings": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#UpdateServiceSettingsRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#UpdateServiceSettingsResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 }
]
}

```

```

 }
],
 "traits": {
 "smithy.api#documentation": "<p>Updates
License Manager settings for the current Region.</p>"
 }
},
"com.amazonaws.licensemanager#UpdateServiceSettingsRequest": {
 "type": "structure",
 "members": {
 "S3BucketArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the Amazon S3 bucket where
the License Manager information is stored.</p>"
 }
 },
 "SnsTopicArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the Amazon SNS topic used
for License Manager alerts.</p>"
 }
 },
 "OrganizationConfiguration": {
 "target": "com.amazonaws.licensemanager#OrganizationConfiguration",
 "traits": {
 "smithy.api#documentation": "<p>Enables integration with Organizations for cross-account
discovery.</p>"
 }
 },
 "EnableCrossAccountsDiscovery": {
 "target": "com.amazonaws.licensemanager#BoxBoolean",
 "traits": {
 "smithy.api#documentation": "<p>Activates cross-account discovery.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
},
"com.amazonaws.licensemanager#UpdateServiceSettingsResponse": {
 "type": "structure",
 "members": {},
 "traits": {
 "smithy.api#output": {}
 }
}

```

```

 },
 "com.amazonaws.licensemanager#UsageOperation": {
 "type": "string",
 "traits": {
 "smithy.api#length": {
 "min":
0,
 "max": 50
 }
 }
 },
 "com.amazonaws.licensemanager#ValidationException": {
 "type": "structure",
 "members": {
 "Message": {
 "target": "com.amazonaws.licensemanager#Message"
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>The provided input is not valid. Try your request again.</p>",
 "smithy.api#error": "client",
 "smithy.api#httpError": 400
 }
 }
}
}
}

```

// Code generated by smithy-go-codegen DO NOT EDIT.

```
package grafana
```

```
import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)
```

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana

// Enterprise incurs additional fees. For more information, see Upgrade a

// workspace to Grafana Enterprise (<https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html>)

// .

```
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
```

```
(*AssociateLicenseOutput, error) {
```

```
 if params == nil {
```

```
 params = &AssociateLicenseInput{}
```

```

}

result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
if err != nil {
 return nil, err
}

out
:= result.(*AssociateLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

 // A structure containing data about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{ }, middleware.After)

```

```

if
err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
err != nil {
 return err
}
if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
 return err
}
}

```

```

if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "grafana",
 OperationName: "AssociateLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
 params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
 return nil, err
 }
}

```

```

}

out := result.(*DeleteLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version of the
 license.
 //
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

 // Date when the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
}

```



```

}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack,
options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack);
err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}

```

```

}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "DeleteLicense",
}
}
}

```

## 1.539 [github.com/gabriel-vasile/mimetype](https://github.com/gabriel-vasile/mimetype)

### 1.4.0

#### 1.539.1 Available under license :

MIT License

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# 1.540 github.com/aws/aws-sdk-go-v2/service/internal/s3shared 1.9.0

## 1.540.1 Available under license :

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
 params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier that you
 // provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
```

```

// algorithm PS384. For more information, see RFC 7518 Digital Signature with
// RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5) .
//
// This member is required.
DigitalSignatureMethod types.DigitalSignatureMethod

// License entitlements. Partial checkouts are not supported.
//
// This member is required.
Entitlements []types.EntitlementData

// Amazon Resource Name (ARN) of the license. The license must use the borrow
// consumption configuration.
//
// This member is required.
LicenseArn *string

// Information about constraints.
CheckoutMetadata []types.Metadata

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

// Information about constraints.
CheckoutMetadata []types.Metadata

// Allowed license entitlements.
EntitlementsAllowed
[]types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.

```

```

NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}

```

```

}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
 return err
}
if
err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)

```

```

*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CheckoutBorrowLicense",
}
}

```

```

// Code generated by smithy-go-codegen DO NOT EDIT.

```

```

package licensemanager

```

```

import (
 "context"

```

```

awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
 params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 // - Beneficiary
 // - ProductSKU
 // - Fingerprint
 //
 // - Status
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListLicensesOutput struct {

```

```

// License details.
Licenses []types.License

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {

```



```

return err
}
if err = addClientUserAgent(stack, options); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region: region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "ListLicenses",
}
}

```

// Code generated by smithy-go-codegen DO NOT EDIT.

```
package licensemanager
```

```

import (
"context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
"github.com/aws/smithy-go/middleware"

```

```

smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
 params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide to ensure
 the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Configuration for consumption of the license. Choose a provisional
 // configuration for workloads running with continuous connectivity. Choose a
 // borrow configuration for workloads with offline usage.
 //
 // This member is required.
 ConsumptionConfiguration *types.ConsumptionConfiguration

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.Entitlement

 // Home Region for the license.

```

```

//
// This member is required.
HomeRegion *string

// License issuer.
//
// This member is required.
Issuer *types.Issuer

// License name.
//
// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange

//
// Information about the license.
LicenseMetadata []types.Metadata

noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License status.
Status types.LicenseStatus

// License version.
Version *string

// Metadata pertaining to the operation's result.

```

ResultMetadata middleware.Metadata

```
noSmithyDocumentSerde
}
```

```
func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack);
 err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
}
```

```

if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil
{
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CreateLicense",
}
}

```

AWS SDK for Go

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name: License Scan

on: [pull\_request]

jobs:

licensescan:

name: License Scan

runs-on: ubuntu-latest

strategy:

matrix:

python-version: [3.9]

```

steps:
 - name: Checkout target
 uses: actions/checkout@v2
 with:
 path: sdkbase
 ref: ${ github.base_ref }
 - name: Checkout this ref
 uses: actions/checkout@v2
 with:
 path: new-ref
 fetch-depth: 0
 - name: Get Diff
 run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${ github.event.pull_request.base.sha }
 ${{ github.sha }} > refDiffFiles.txt
 - name: Get Target Files
 run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
 - name: Checkout scancode
 uses: actions/checkout@v2
 with:
 repository: nexB/scancode-toolkit
 path: scancode-toolkit
 fetch-depth: 1
 - name: Set up Python ${ matrix.python-version }
 uses: actions/setup-python@v2
 with:
 python-version: ${ matrix.python-version }
 # ScanCode
 - name: Self-configure scancode
 working-directory: ./scancode-toolkit
 run: ./scancode --help
 - name: Run Scan code on target
 run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
 toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
 - name: Run Scan code on pr ref
 run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
 toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
 # compare
 - name: License test
 run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
 are the same. Success."; exit 0; fi
 // Code generated by smithy-go-codegen DO NOT EDIT.

```

```
package licensemanager
```

```

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"

```

```

"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
 params = &ListReceivedLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 // - ProductSKU
 // - Status
 // - Fingerprint
 // - IssuerName
 // - Beneficiary
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

```

```

// Received license details.
Licenses []types.GrantedLicense

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{ }, middleware.After)
if err != nil {
return err
}
if
err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
}

```



```

if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil
{
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)

```

```

*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "ListReceivedLicenses",
}
}

```

```

// Code generated by smithy-go-codegen DO NOT EDIT.

```

```

package licensemanager

```

```

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"

```

```

"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license. If the account that created the license is
// the same that is performing the check out, you must specify the account as the
// beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
 params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type
CheckoutLicenseInput struct {

 // Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Key fingerprint identifying the license.
 //
 // This member is required.

```

```

KeyFingerprint *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// License beneficiary.
Beneficiary *string

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

// Checkout type.
CheckoutType types.CheckoutType

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name
// (ARN) of the checkout license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

```

```

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {

```

```

 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err
= addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CheckoutLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
 params = &CheckInLicenseInput{}
 }

```

```

}

result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
if err != nil {
 return nil, err
}

out := result.(*CheckInLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary
 *string

 noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
}

```

```

}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack,
options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack);
err != nil {
 return err
}

```

```

}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CheckInLicense",
}
}
{
 "smithy": "2.0",
 "shapes": {
 "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger": {
 "type": "integer"
 },
 "com.amazonaws.licensemanagerlinuxsubscriptions#BoxLong": {
 "type": "long"
 },
 "com.amazonaws.licensemanagerlinuxsubscriptions#Filter": {
 "type": "structure",
 "members": {
 "Name": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The type of name to filter by.</p>"
 }
 },
 "Values": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
 "traits": {
 "smithy.api#documentation": "<p>One or more values for the name to filter by.</p>"
 }
 },
 "Operator": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Operator",
 "traits": {
 "smithy.api#documentation": "<p>An operator for filtering results.</p>"
 }
 }
 },
 "traits": {

```



```

 "smithy.api#documentation": "<p>A filter object that is used to return more specific results from a describe operation.\n Filters can be used to match a set of resources by specific criteria.</p>"
 }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#FilterList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Filter"
 }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettings": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerErrorException"
 },
 {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
 },
 {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Lists the Linux subscriptions service settings.</p>",
 "smithy.api#http": {
 "code": 200,
 "method": "POST",
 "uri": "/subscription/GetServiceSettings"
 },
 "smithy.api#idempotent": {}
 }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsRequest":
{
 "type": "structure",
 "members": {}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsResponse": {
 "type": "structure",
 "members": {

```

```

"LinuxSubscriptionsDiscovery": {
 "target": "com.amazonaws.licenseanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
 "traits": {
 "smithy.api#documentation": "<p>Lists if discovery has been enabled for Linux subscriptions.</p>"
 }
},
"LinuxSubscriptionsDiscoverySettings": {
 "target": "com.amazonaws.licenseanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
 "traits": {
 "smithy.api#documentation": "<p>Lists the settings defined for Linux subscriptions discovery. The
settings include if\n Organizations integration has been enabled, and
which Regions data will be aggregated from.</p>"
 }
},
"Status": {
 "target": "com.amazonaws.licenseanagerlinuxsubscriptions#Status",
 "traits": {
 "smithy.api#documentation": "<p>Indicates the status of Linux subscriptions settings being
applied.</p>"
 }
},
"StatusMessage": {
 "target": "com.amazonaws.licenseanagerlinuxsubscriptions#StringMap",
 "traits": {
 "smithy.api#documentation": "<p>A message which details the Linux subscriptions service settings
current status.</p>"
 }
},
"HomeRegions": {
 "target": "com.amazonaws.licenseanagerlinuxsubscriptions#StringList",
 "traits": {
 "smithy.api#documentation": "<p>The Region in which License Manager displays
the aggregated data for Linux\n subscriptions.</p>"
 }
}
},
"com.amazonaws.licenseanagerlinuxsubscriptions#Instance": {
 "type": "structure",
 "members": {
 "AmiId": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The AMI ID used to launch the instance.</p>"
 }
 },
 "InstanceID": {
 "target": "smithy.api#String",

```

```

 "traits": {
 "smithy.api#documentation": "<p>The instance ID of the resource.</p>"
 }
 },
 "InstanceType": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The instance type of the resource.</p>"
 }
 },
},
"AccountID": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The account ID which owns the instance.</p>"
 }
},
"Status": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The status of the instance.</p>"
 }
},
"Region": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The Region the instance is running in.</p>"
 }
},
"UsageOperation": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The usage operation of the instance. For more information, see For
more information, see\n <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/linux-
subscriptions-usage-operation.html\">Usage\n operation values in the <i>License Manager User
Guide</i>.</p>"
 }
},
"ProductCode": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ProductCodeList",
 "traits": {
 "smithy.api#documentation": "<p>The product code for the instance. For more information, see <a
href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/linux-subscriptions-usage-
operation.html\">Usage\n operation values in the <i>License Manager User Guide</i> .</p>"
 }
},
"LastUpdatedTime": {
 "target": "smithy.api#String",

```

```

 "traits": {
 "smithy.api#documentation": "<p>The time in which the last discovery
updated the instance details.</p>"
 }
 },
 "SubscriptionName": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The name of the subscription being used by the instance.</p>"
 }
 }
},
"traits": {
 "smithy.api#documentation": "<p>Details discovered information about a running instance using Linux
subscriptions.</p>"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#InstanceList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Instance"
 }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerError": {
 "type": "structure",
 "members": {
 "message": {
 "target": "smithy.api#String"
 }
 }
},
"traits": {
 "smithy.api#documentation": "<p>An exception occurred with the service.</p>",
 "smithy.api#error": "server"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#LicenseManagerLinuxSubscriptions": {
 "type": "service",
 "version": "2018-05-10",
 "operations": [
 {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettings"
 },
 {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstances"
 },
 {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptions"
 }
]
},

```

```

 {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettings"
 }
],
 "traits": {
 "aws.api#service": {
 "sdkId": "License Manager Linux Subscriptions",
 "arnNamespace": "license-manager-linux-subscriptions",
 "cloudTrailEventSource": "license-manager-linux-subscriptions.amazonaws.com"
 },
 "aws.auth#sigv4": {
 "name": "license-manager-linux-subscriptions"
 },
 "aws.protocols#restJson1": {},
 "smithy.api#cors": {
 "additionalAllowedHeaders": [
 "*",
 "content-type",
 "x-amz-content-sha256",
 "x-amz-user-agent",
 "x-amzn-platform-id",
 "x-amzn-trace-id",
 "content-length",
 "x-api-key",
 "authorization",
 "x-amz-date",
 "x-amz-security-token",
 "Access-Control-Allow-Headers",
 "Access-Control-Allow-Methods",
 "Access-Control-Allow-Origin"
],
 "additionalExposedHeaders": [
 "x-amzn-errortype",
 "x-amzn-requestid",
 "x-amzn-trace-id"
]
 },
 "smithy.api#documentation": "<p>With License Manager, you can discover and track your commercial Linux subscriptions on running Amazon EC2 instances.</p>",
 "smithy.api#title": "AWS License Manager Linux Subscriptions",
 "smithy.rules#endpointRuleSet": {
 "version": "1.0",
 "parameters": {
 "Region": {
 "builtIn": "AWS::Region",
 "required": false,

```

```

 "documentation": "The
AWS region used to dispatch the request.",
 "type": "String"
 },
 "UseDualStack": {
 "builtIn": "AWS::UseDualStack",
 "required": true,
 "default": false,
 "documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not
support dual-stack, dispatching the request MAY return an error.",
 "type": "Boolean"
 },
 "UseFIPS": {
 "builtIn": "AWS::UseFIPS",
 "required": true,
 "default": false,
 "documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the
configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",

"type": "Boolean"
 },
 "Endpoint": {
 "builtIn": "SDK::Endpoint",
 "required": false,
 "documentation": "Override the endpoint used to send this request",
 "type": "String"
 }
},
"rules": [
 {
 "conditions": [
 {
 "fn": "isSet",
 "argv": [
 {
 "ref": "Endpoint"
 }
]
 }
]
 }
],
"type": "tree",
"rules": [
 {
 "conditions": [
 {
 "fn": "booleanEquals",
 "argv": [

```

```

 {
 "ref": "UseFIPS"
 },
 true
]
}
],
"error": "Invalid Configuration: FIPS and custom endpoint are not supported",
"type": "error"
},
{
 "conditions": [],
 "type": "tree",
 "rules": [
 {

"conditions": [
 {
 "fn": "booleanEquals",
 "argv": [
 {
 "ref": "UseDualStack"
 },
],
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]
 }
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 "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
 "type": "error"
},
{
 "conditions": [],

"endpoint": {
 "url": {
 "ref": "Endpoint"
 },
 "properties": {},
 "headers": {}
},
 "type": "endpoint"
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]
}
]
},
{
 "conditions": [],

```

```

 "type": "tree",
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 {
 "conditions": [
 {
 "fn": "isSet",
 "argv": [
 {
 "ref": "Region"
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 "conditions": [
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 "fn": "aws.partition",
 "argv": [
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 "ref": "Region"
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 "assign": "PartitionResult"
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],
 "type": "tree",
 "rules": [
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 "conditions": [
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 "fn": "booleanEquals",
 "argv": [
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 "ref": "UseFIPS"
 },
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 "fn": "booleanEquals",
 "argv": [
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 "ref": "UseDualStack"
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]
 }
]
 }

```



```

 },
 true
]
}
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"type": "tree",
"rules": [
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 "fn": "booleanEquals",
 "argv": [
 true,
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 "fn": "getAttr",
 "argv": [
 {
 "ref": "PartitionResult"
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 "supportsFIPS"
]
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]
 }
]
 },
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 "fn": "booleanEquals",
 "argv": [
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 {
 "fn": "getAttr",
 "argv": [
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 "ref": "PartitionResult"
 },
 "supportsDualStack"
]
 }
]
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 "type": "tree",

```

```

 "rules": [
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 "conditions": [],
 "endpoint": {
 "url": "https://license-manager-linux-subscriptions-
fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
 "properties": {},
 "headers": {}
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 "type": "endpoint"
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]
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 "conditions": [],
 "error": "FIPS and DualStack are enabled, but this partition does not support
one or both",
 "type": "error"
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 "conditions": [
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 "fn": "booleanEquals",
 "argv": [
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 "ref": "UseFIPS"
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 "type": "tree",
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 "conditions": [
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 "fn": "booleanEquals",
 "argv": [
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 "argv": [
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 "ref": "PartitionResult"
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 "url": "https://license-manager-linux-subscriptions-
fips.{Region}.{PartitionResult#dnsSuffix}",
 "properties": {},
 "headers": {}
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 "type": "endpoint"
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 "conditions": [],
 "error": "FIPS is enabled but this partition does not support FIPS",
 "type": "error"
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},

{
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 "fn": "booleanEquals",
 "argv": [
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 "ref": "UseDualStack"
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 "argv": [
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 "fn": "getAttr",
 "argv": [
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 "ref": "PartitionResult"
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 "supportsDualStack"
]
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subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
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 "headers": {}
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 "type": "endpoint"
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},

```

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{
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 "type": "error"
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 "properties": {},
 "headers": {}
 },
 "type": "endpoint"
 }
]
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]
}
],
},
{
 "conditions": [],
 "error": "Invalid Configuration: Missing Region",
 "type": "error"
}
]
}
]
},
"smithy.rules#endpointTests": {
 "testCases": [
 {
 "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-linux-subscriptions-fips.us-gov-east-1.api.aws"
 }
 },
 "params": {
 "UseDualStack": true,

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```

 "UseFIPS": true,
 "Region": "us-gov-east-1"
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{
 "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-linux-subscriptions-fips.us-gov-east-1.amazonaws.com"
 }
 },
 "params": {
 "UseDualStack": false,
 "UseFIPS": true,
 "Region": "us-gov-east-1"
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 "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack enabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-linux-subscriptions.us-gov-east-1.api.aws"
 }
 },
 "params": {
 "UseDualStack": true,
 "UseFIPS": false,
 "Region": "us-gov-east-1"
 }
},
{
 "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-linux-subscriptions.us-gov-east-1.amazonaws.com"
 }
 },
 "params": {
 "UseDualStack": false,
 "UseFIPS": false,
 "Region": "us-gov-east-1"
 }
},
{
 "documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
 "expect": {

```

```

 "endpoint": {
 "url": "https://license-manager-linux-subscriptions-fips.cn-north-
1.api.amazonwebservices.com.cn"
 }
 },
 "params": {
 "UseDualStack": true,
 "UseFIPS": true,
 "Region": "cn-north-1"
 }
},
{
 "documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-linux-subscriptions-fips.cn-north-1.amazonaws.com.cn"
 }
 },
 "params": {
 "UseDualStack": false,

 "UseFIPS": true,
 "Region": "cn-north-1"
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 "documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-linux-subscriptions.cn-north-1.api.amazonwebservices.com.cn"
 }
 },
 "params": {
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 "UseFIPS": false,
 "Region": "cn-north-1"
 }
},
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 "documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
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{
 "endpoint": {
 "url": "https://license-manager-linux-subscriptions.cn-north-1.amazonaws.com.cn"
 }
},
 "params": {

```

```

 "UseDualStack": false,
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 "Region": "cn-north-1"
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},
{
 "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
 "expect": {
 "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
 },
 "params": {
 "UseDualStack": true,
 "UseFIPS": true,
"Region": "us-iso-east-1"
 }
},
{
 "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-linux-subscriptions-fips.us-iso-east-1.c2s.ic.gov"
 }
 },
 "params": {
 "UseDualStack": false,
 "UseFIPS": true,
 "Region": "us-iso-east-1"
 }
},
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 "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
 "expect": {
 "error": "DualStack is enabled but
this partition does not support DualStack"
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 "params": {
 "UseDualStack": true,
 "UseFIPS": false,
 "Region": "us-iso-east-1"
 }
},
{
 "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-linux-subscriptions.us-iso-east-1.c2s.ic.gov"
 }
 }
}

```



```

 },
 "params": {
 "UseDualStack": false,
 "UseFIPS": false,
 "Region": "us-iso-east-1"
 }
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 "documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-linux-subscriptions-fips.us-east-1.api.aws"
 }
 },
 "params": {
 "UseDualStack": true,
 "UseFIPS": true,
 "Region": "us-east-1"
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 "documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-linux-subscriptions-fips.us-east-1.amazonaws.com"
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 "params": {
 "UseDualStack": false,
 "UseFIPS": true,
 "Region": "us-east-1"
 }
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 "documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-linux-subscriptions.us-east-1.api.aws"
 }
 },
 "params": {
 "UseDualStack": true,
 "UseFIPS": false,
 "Region": "us-east-1"
 }
 },
 {

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```

"documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-linux-subscriptions.us-east-1.amazonaws.com"
 }
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 "params": {
 "UseDualStack": false,
 "UseFIPS": false,
 "Region": "us-east-1"
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},
{
 "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
 "expect": {
 "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
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 "params": {
 "UseDualStack": true,
 "UseFIPS": true,
 "Region": "us-isob-east-1"
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{
 "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-linux-subscriptions-fips.us-isob-east-1.sc2s.sgov.gov"
 }
 },
 "params": {
 "UseDualStack": false,
 "UseFIPS": true,
 "Region": "us-isob-east-1"
 }
},
{
 "documentation": "For region us-isob-east-1 with FIPS disabled
and DualStack enabled",
 "expect": {
 "error": "DualStack is enabled but this partition does not support DualStack"
 },
 "params": {
 "UseDualStack": true,
 "UseFIPS": false,
 "Region": "us-isob-east-1"
 }
}

```

```

 }
 },
 {
 "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-linux-subscriptions.us-isob-east-1.sc2s.sgov.gov"
 }
 },
 "params": {
 "UseDualStack": false,
 "UseFIPS": false,
 "Region": "us-isob-east-1"
 }
 },
 {
 "documentation": "For custom endpoint with fips disabled and dualstack disabled",
 "expect": {
 "endpoint": {
 "url": "https://example.com"
 }
 },
 "params": {
 "UseDualStack": false,
 "UseFIPS": false,
 "Region": "us-east-1",
 "Endpoint": "https://example.com"
 }
 },
 {
 "documentation": "For custom endpoint with fips enabled and dualstack disabled",
 "expect": {
 "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
 },
 "params": {
 "UseDualStack": false,
 "UseFIPS": true,
 "Region": "us-east-1",
 "Endpoint": "https://example.com"
 }
 },
 {
 "documentation": "For custom endpoint with fips disabled and dualstack enabled",
 "expect": {
 "error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
 },
 },

```

```

 "params": {
 "UseDualStack": true,
 "UseFIPS": false,
 "Region": "us-east-1",
 },
 "Endpoint": "https://example.com"
 },
 "version": "1.0"
},
"com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery": {
 "type": "string",
 "traits": {
 "smithy.api#enum": [
 {
 "name": "Enabled",
 "value": "Enabled",
 "documentation": "Enabled LinuxSubscriptionsDiscovery"
 },
 {
 "name": "Disabled",
 "value": "Disabled",
 "documentation": "Disabled LinuxSubscriptionsDiscovery"
 }
]
 }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings": {
 "type": "structure",
 "members": {
 "SourceRegions": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
 "traits": {
 "smithy.api#documentation": "<p>The Regions in which to discover data for Linux
subscriptions.</p>",
 "smithy.api#required": {}
 }
 },
 "OrganizationIntegration": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#OrganizationIntegration",
 "traits": {
 "smithy.api#documentation": "<p>Details if you have enabled resource discovery across your
accounts in Organizations.</p>",
 "smithy.api#required": {}
 }
 }
 }
}

```

```

 }
 },
 "traits": {
 "smithy.api#documentation": "<p>Lists the settings defined for discovering Linux subscriptions.</p>"
 }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstances":
{
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerErrorException"
 },
 {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
 },
 {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Lists the running Amazon EC2 instances that were discovered with
commercial Linux\n
subscriptions.</p>",
 "smithy.api#http": {
 "code": 200,
 "method": "POST",
 "uri": "/subscription/ListLinuxSubscriptionInstances"
 },
 "smithy.api#idempotent": {},
 "smithy.api#paginated": {
 "inputToken": "NextToken",
 "outputToken": "NextToken",
 "pageSize": "MaxResults",
 "items": "Instances"
 }
 }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesRequest": {
 "type": "structure",
 "members": {

```

```

 "Filters": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList",
 "traits": {
 "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those
that match one or\n
more sets of key-value pairs that you specify. For example, you can filter by the name of\n
<code>AmiID</code> with an optional operator to see subscriptions that match, partially\n match, or don't match
a certain Amazon Machine Image (AMI) ID.</p>\n <p>The valid names for this filter are:</p>\n \n
\n <p>\n <code>AmiID</code>\n </p>\n \n \n
<p>\n <code>InstanceID</code>\n </p>\n \n \n <p>\n
<code>AccountID</code>\n </p>\n \n \n <p>\n
<code>Status</code>\n </p>\n \n \n <p>\n
<code>Region</code>\n </p>\n \n \n <p>\n
<code>UsageOperation</code>\n </p>\n \n \n <p>\n
<code>ProductCode</code>\n </p>\n \n \n <p>\n
<code>InstanceType</code>\n </p>\n \n \n
<p>The valid Operators for this filter are:</p>\n \n \n <p>\n
<code>contains</code>\n </p>\n \n \n <p>\n
<code>equals</code>\n </p>\n \n \n <p>\n
<code>Notequal</code>\n </p>\n \n "
 }
 },
 "MaxResults": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger",
 "traits": {
 "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
 }
 },
 "NextToken": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>",
 "smithy.api#length": {
 "min": 1,
 "max": 16384
 }
 }
 },
 "traits": {
 "smithy.api#documentation": "NextToken length limit is half of ddb accepted limit.\nIncrease this limit if
parameters in request increases."
 }
 },
 "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesResponse": {
 "type": "structure",
 "members": {

```

```

 "Instances": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InstanceList",
 "traits": {
 "smithy.api#documentation": "<p>An array that contains instance objects.</p>"
 }
 },
 "NextToken": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 }
 },
 "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptions": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsResponse"
 },
 "errors": [
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 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerErrorException"
 },
 {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
 },
 {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Lists the Linux subscriptions that have been discovered. If you have linked your\n organization, the returned results will include data aggregated across your accounts in\n Organizations.</p>",
 "smithy.api#http": {
 "code": 200,
 "method": "POST",
 "uri": "/subscription/ListLinuxSubscriptions"
 },
 "smithy.api#idempotent": {},
 "smithy.api#paginated": {
 "inputToken": "NextToken",
 "outputToken": "NextToken",
 "pageSize": "MaxResults",

```

```

 "items": "Subscriptions"
 }
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsRequest": {
 "type": "structure",
 "members": {
 "Filters": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList",
 "traits": {
 "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those
that match one or\n more sets of key-value pairs that you specify. For example, you can filter by the name of\n
<code>Subscription</code> with an optional operator to see subscriptions that match,\n partially match, or don't
match a certain subscription's name.</p>\n <p>The valid names for this filter are:</p>\n \n
\n <p>\n <code>Subscription</code>\n </p>\n \n
\n <p>The valid Operators for this filter are:</p>\n \n \n <p>\n <code>contains</code>\n </p>\n \n \n <p>\n <code>equals</code>\n </p>\n \n \n <p>\n <code>Notequal</code>\n </p>\n \n "
 }
 },
 "MaxResults": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger",
 "traits": {
 "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
 }
 },
 "NextToken": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the
next set of results.</p>",
 "smithy.api#length": {
 "min": 1,
 "max": 16384
 }
 }
 },
 "traits": {
 "smithy.api#documentation": "NextToken length limit is half of ddb accepted limit.\nIncrease this limit if
parameters in request increases."
 }
 },
 "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsResponse": {
 "type": "structure",
 "members": {
 "Subscriptions": {

```



```

 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionList",
 "traits": {
 "smithy.api#documentation": "<p>An array that contains subscription objects.</p>"
 }
 },
 "NextToken": {
 "target": "smithy.api#String",

"traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Operator": {
 "type": "string",
 "traits": {
 "smithy.api#enum": [
 {
 "name": "EQUAL",
 "value": "Equal",
 "documentation": "Equal operator"
 },
 {
 "name": "NOT_EQUAL",
 "value": "NotEqual",
 "documentation": "Not equal operator"
 },
 {
 "name": "CONTAINS",
 "value": "Contains",
 "documentation": "Contains operator"
 }
],
 "smithy.api#length": {
 "min": 1,
 "max": 20
 }
 }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#OrganizationIntegration": {
 "type": "string",
 "traits": {
 "smithy.api#enum": [
 {
 "name": "Enabled",
 "value": "Enabled",
 "documentation": "Enabled OrganizationIntegration"
 }
]
 }
}

```

```

 },
 {
 "name": "Disabled",
 "value": "Disabled",
 "documentation": "Disabled OrganizationIntegration"
 }
]
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ProductCodeList": {
 "type": "list",
 "member": {
 "target": "smithy.api#String"
 }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Status": {
 "type": "string",
 "traits": {
 "smithy.api#enum": [
 {
 "name": "InProgress",
 "value": "InProgress",
 "documentation": "InProgress status"
 },
 {
 "name": "Completed",
 "value": "Completed",
 "documentation": "Completed status"
 },
 {
 "name": "Successful",
 "value": "Successful",
 "documentation": "Successful status"
 },
 {
 "name": "Failed",
 "value": "Failed",
 "documentation": "Failed status"
 }
]
 }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#StringList": {
 "type": "list",
 "member":
{
 "target": "smithy.api#String",
 "traits": {

```

```

 "smithy.api#length": {
 "min": 1,
 "max": 100
 }
 },
 "traits": {
 "smithy.api#length": {
 "min": 1,
 "max": 100
 },
 "smithy.api#uniqueItems": {}
 }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#StringMap": {
 "type": "map",
 "key": {
 "target": "smithy.api#String"
 },
 "value": {
 "target": "smithy.api#String"
 }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Subscription": {
 "type": "structure",
 "members": {
 "Name": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The name of the subscription.</p>"
 }
 },
 "Type": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The type of subscription. The type can be subscription-included with Amazon EC2, Bring Your Own\n Subscription model (BYOS), or from the Amazon Web Services Marketplace. Certain subscriptions may use licensing from the\n Amazon Web Services Marketplace as well as OS licensing from Amazon EC2 or BYOS.</p>"
 }
 },
 "InstanceCount": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxLong",
 "traits": {
 "smithy.api#documentation": "<p>The total amount of running instances using this subscription.</p>"
 }
 }
 }
}

```

```

 },
 "traits": {
 "smithy.api#documentation": "<p>An object which details a discovered Linux subscription.</p>"
 }
 },
 "com.amazonaws.licenseanagerlinuxsubscriptions#SubscriptionList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licenseanagerlinuxsubscriptions#Subscription"
 }
 },
 "com.amazonaws.licenseanagerlinuxsubscriptions#ThrottlingException": {
 "type": "structure",
 "members": {
 "message": {
 "target": "smithy.api#String"
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>The request was denied due to request throttling.</p>",
 "smithy.api#error": "client"
 }
 },
 "com.amazonaws.licenseanagerlinuxsubscriptions#UpdateServiceSettings": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licenseanagerlinuxsubscriptions#UpdateServiceSettingsRequest"
 },
 "output": {
 "target": "com.amazonaws.licenseanagerlinuxsubscriptions#UpdateServiceSettingsResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licenseanagerlinuxsubscriptions#InternalServerErrorException"
 },
 {
 "target": "com.amazonaws.licenseanagerlinuxsubscriptions#ThrottlingException"
 },
 {
 "target": "com.amazonaws.licenseanagerlinuxsubscriptions#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Updates the service settings for Linux subscriptions.</p>",
 "smithy.api#http": {
 "code": 200,
 "method": "POST",

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 "uri": "/subscription/UpdateServiceSettings"
 },

 "smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsRequest": {
 "type": "structure",
 "members": {
 "LinuxSubscriptionsDiscovery": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
 "traits": {
 "smithy.api#documentation": "<p>Describes if the discovery of Linux subscriptions is enabled.</p>",
 "smithy.api#required": {}
 }
 },
 "LinuxSubscriptionsDiscoverySettings": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
 "traits": {
 "smithy.api#documentation": "<p>The settings defined for Linux subscriptions discovery. The settings include if Organizations\n integration has been enabled, and which Regions data will be aggregated from.</p>",
 "smithy.api#required": {}
 }
 },
 "AllowUpdate": {
 "target": "smithy.api#Boolean",
 "traits": {
 "smithy.api#documentation": "<p>Describes if updates are allowed to the service settings for Linux subscriptions. If you\n allow updates, you can aggregate Linux subscription data in more than one home Region.</p>"
 }
 }
 }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsResponse": {
 "type": "structure",
 "members": {
 "LinuxSubscriptionsDiscovery": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
 "traits": {
 "smithy.api#documentation": "<p>Lists if discovery has been enabled for Linux subscriptions.</p>"
 }
 },
 "LinuxSubscriptionsDiscoverySettings": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
 "traits": {

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 "smithy.api#documentation": "<p>The settings defined for Linux subscriptions discovery. The settings include if Organizations\n integration has been enabled, and which Regions data will be aggregated from.</p>"
 },
 "Status": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Status",
 "traits": {
 "smithy.api#documentation": "<p>Indicates the status of Linux subscriptions settings being applied.</p>"
 }
 },
 "StatusMessage": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap",
 "traits": {
 "smithy.api#documentation": "<p>A message which details the Linux subscriptions service settings current status.</p>"
 }
 },
 "HomeRegions": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
 "traits": {
 "smithy.api#documentation": "<p>The Region in which License Manager displays the aggregated data for Linux\n subscriptions.</p>"
 }
 }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException": {
 "type": "structure",
 "members": {
 "message": {
 "target": "smithy.api#String"
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>The provided input is not valid. Try your request again.</p>",
 "smithy.api#error":
"client"
 }
}
}
{
 "smithy": "2.0",
 "shapes": {
 "com.amazonaws.licensemanageruserssubscriptions#AccessDeniedException": {
 "type": "structure",

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"members": {
 "message": {
 "target": "smithy.api#String"
 }
},
"traits": {
 "smithy.api#documentation": "<p>You don't have sufficient access to perform this action.</p>",
 "smithy.api#error": "client"
}
},
"com.amazonaws.licenseanagerusersubscriptions#ActiveDirectoryIdentityProvider": {
 "type": "structure",
 "members": {
 "DirectoryId": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The directory ID for an Active Directory identity provider.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#documentation":
"<p>Details about an Active Directory identity provider.</p>"
 }
},
"com.amazonaws.licenseanagerusersubscriptions#AssociateUser": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#AssociateUserRequest"
 },
 "output": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#AssociateUserResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ConflictException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#InternalServerErrorException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ResourceNotFoundException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ServiceQuotaExceededException"
 }
]
}

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 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ThrottlingException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Associates the user to an EC2 instance to utilize user-based
subscriptions.</p>\n <note>\n <p>Your estimated bill for charges on the number of users and related
costs will take 48\n hours to appear for billing periods that haven't closed (marked as Pending billing
status) in Amazon Web Services Billing. For more information, see Viewing your\n
monthly charges in the <i>Amazon Web Services Billing User Guide</i>.</p>\n </note>",
 "smithy.api#http": {
 "code": 200,
 "method": "POST",
 "uri": "/user/AssociateUser"
 },
 "smithy.api#idempotent": {}
 }
},
"com.amazonaws.licenseanagerusersubscriptions#AssociateUserRequest": {
 "type": "structure",
 "members": {
 "Username": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
 "smithy.api#required": {}
 }
 },
 "InstanceId": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The ID of the
EC2 instance, which provides user-based subscriptions.</p>",
 "smithy.api#required": {}
 }
 },
 "IdentityProvider": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#IdentityProvider",
 "traits": {
 "smithy.api#documentation": "<p>The identity provider of the user.</p>",
 "smithy.api#required": {}
 }
 }
 },
}

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 "Domain": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The domain name of the user.</p>"
 }
 }
 },
 "com.amazonaws.licenseanagerusersubscriptions#AssociateUserResponse": {
 "type": "structure",
 "members": {
 "InstanceUserSummary": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#InstanceUserSummary",
 "traits": {
 "smithy.api#documentation": "<p>Metadata that describes the associate user operation.</p>",
 "smithy.api#required": {}
 }
 }
 }
 },
 "com.amazonaws.licenseanagerusersubscriptions#BoxInteger": {
 "type": "integer"
 },
 "com.amazonaws.licenseanagerusersubscriptions#ConflictException": {
 "type": "structure",
 "members": {
 "message": {
 "target": "smithy.api#String"
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>The request couldn't be completed because it conflicted with the current state of the\n resource.</p>",
 "smithy.api#error": "server"
 }
 },
 "com.amazonaws.licenseanagerusersubscriptions#DeregisterIdentityProvider":
 {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#DeregisterIdentityProviderRequest"
 },
 "output": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#DeregisterIdentityProviderResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#AccessDeniedException"
 }
]
 }
}

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 },
 {
 "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
 },
 {
 "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerErrorException"
 },
 {
 "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
 },
 {
 "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
 },
 {
 "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
 },
 {
 "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Deregisters the identity provider from providing user-based
subscriptions.</p>",
 "smithy.api#http": {
 "code": 200,
 "method": "POST",
 "uri": "/identity-provider/DeregisterIdentityProvider"
 },
 "smithy.api#idempotent": {}
 }
},
"com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderRequest": {
 "type": "structure",
 "members": {
 "IdentityProvider": {
 "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
 "traits": {
 "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
 "smithy.api#required": {}
 }
 },
 "Product": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
 "smithy.api#required": {}
 }
 }
 }
}

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 }
 },
 "com.amazonaws.licenseanagerusersubscriptions#DeregisterIdentityProviderResponse": {
 "type": "structure",
 "members": {
 "IdentityProviderSummary": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#IdentityProviderSummary",
 "traits": {
 "smithy.api#documentation":
"<p>Metadata that describes the results of an identity provider operation.</p>",
 "smithy.api#required": {}
 }
 }
 }
 },
 "com.amazonaws.licenseanagerusersubscriptions#DisassociateUser": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#DisassociateUserRequest"
 },
 "output": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#DisassociateUserResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ConflictException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#InternalServerErrorException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ResourceNotFoundException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ServiceQuotaExceededException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ThrottlingException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Disassociates the user from an EC2 instance providing user-based

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subscriptions.</p>",
 "smithy.api#http": {
 "code": 200,
 "method": "POST",
 "uri": "/user/DisassociateUser"
 },
 "smithy.api#idempotent": {}
}

},
"com.amazonaws.licenseanagerusersubscriptions#DisassociateUserRequest": {
 "type": "structure",
 "members": {
 "Username": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
 "smithy.api#required": {}
 }
 },
 "InstanceId": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
 "smithy.api#required": {}
 }
 },
 "IdentityProvider": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#IdentityProvider",
 "traits": {
 "smithy.api#documentation":
"<p>An object that specifies details for the identity provider.</p>",
 "smithy.api#required": {}
 }
 },
 "Domain": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The domain name of the user.</p>"
 }
 }
 }
},
"com.amazonaws.licenseanagerusersubscriptions#DisassociateUserResponse": {
 "type": "structure",
 "members": {
 "InstanceUserSummary": {

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 "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary",
 "traits": {
 "smithy.api#documentation": "<p>Metadata that describes the associate user operation.</p>",
 "smithy.api#required": {}
 }
 }
},
"com.amazonaws.licensemanagerusersubscriptions#Filter": {
 "type": "structure",
 "members": {
 "Attribute": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The name of an attribute to use as a filter.</p>"
 }
 },
 "Operation": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The type of search (For example, eq, geq, leq)</p>"
 }
 },
 "Value": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>Value of the filter.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>A filter name and value pair that is used
to return more specific results from a describe\n operation. Filters can be used to match a set of resources by
specific criteria, such as tags,\n attributes, or IDs.</p>"
 }
},
"com.amazonaws.licensemanagerusersubscriptions#FilterList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanagerusersubscriptions#Filter"
 }
},
"com.amazonaws.licensemanagerusersubscriptions#IdentityProvider": {
 "type": "union",
 "members": {
 "ActiveDirectoryIdentityProvider": {
 "target": "com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryIdentityProvider",

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 "traits": {
 "smithy.api#documentation": "<p>An object that details an Active Directory identity provider.</p>"
 }
 },
 "traits": {
 "smithy.api#documentation":
"<p>Details about an identity provider.</p>"
 }
},
"com.amazonaws.licenseanagerusersubscriptions#IdentityProviderSummary": {
 "type": "structure",
 "members": {
 "IdentityProvider": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#IdentityProvider",
 "traits": {
 "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
 "smithy.api#required": {}
 }
 },
 "Settings": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#Settings",
 "traits": {
 "smithy.api#documentation": "<p>An object that details the registered identity providers product
related configuration\n settings such as the subnets to provision VPC endpoints.</p>",
 "smithy.api#required":
{}
 }
 },
 "Product": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
 "smithy.api#required": {}
 }
 },
 "Status": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The status of an identity provider.</p>",
 "smithy.api#required": {}
 }
 },
 "FailureMessage": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The failure message associated with an identity provider.</p>"
 }
 }
 }
}

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 }
 },
 "traits": {
 "smithy.api#documentation":
"<p>Describes an identity provider.</p>"
 }
},
"com.amazonaws.licenseanagerusersubscriptions#IdentityProviderSummaryList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#IdentityProviderSummary"
 }
},
"com.amazonaws.licenseanagerusersubscriptions#InstanceSummary": {
 "type": "structure",
 "members": {
 "InstanceId": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
 "smithy.api#required": {}
 }
 },
 "Status": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The status
of an EC2 instance resource.</p>",
 "smithy.api#required": {}
 }
 },
 "Products": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#StringList",
 "traits": {
 "smithy.api#documentation": "<p>A list of provided user-based subscription products.</p>",
 "smithy.api#required": {}
 }
 },
 "LastStatusCheckDate": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The date of the last status check.</p>"
 }
 },
 "StatusMessage": {
 "target": "smithy.api#String",
 "traits": {

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 "smithy.api#documentation": "<p>The status message for an EC2 instance.</p>"
 }
}
},
"traits": {
 "smithy.api#documentation": "<p>Describes an EC2 instance providing user-based subscriptions.</p>"
}
},
"com.amazonaws.licenseanagerusersubscriptions#InstanceSummaryList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#InstanceSummary"
 }
},
"com.amazonaws.licenseanagerusersubscriptions#InstanceUserSummary": {
 "type": "structure",
 "members": {
 "Username": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
 "smithy.api#required": {}
 }
 },
 "InstanceId": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
 "smithy.api#required": {}
 }
 },
 "IdentityProvider": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#IdentityProvider",
 "traits": {
 "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
 "smithy.api#required": {}
 }
 },
 "Status": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The status of a user associated with an EC2 instance.</p>",
 "smithy.api#required": {}
 }
 }
 },
}

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 "StatusMessage": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The status message for users of an EC2 instance.</p>"
 }
 },
 "Domain": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The domain name of the user.</p>"
 }
 },
 "AssociationDate": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The date a user was associated with an EC2 instance.</p>"
 }
 },
 "DisassociationDate": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The date a user was disassociated from an EC2 instance.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>Describes users of an EC2 instance providing user-based
subscriptions.</p>"
 }
},
"com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummaryList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary"
 }
},
"com.amazonaws.licensemanagerusersubscriptions#InternalServerError": {
 "type": "structure",
 "members": {
 "message": {
 "target": "smithy.api#String"
 }
 }
},
"traits": {
 "smithy.api#documentation": "<p>An exception occurred with the service.</p>",
 "smithy.api#error": "server"
}

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 },
 "com.amazonaws.licensemanagerusersubscriptions#LicenseManagerUserSubscriptions": {
 "type": "service",

 "version": "2018-05-10",
 "operations": [
 {
 "target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUser"
 },
 {
 "target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProvider"
 },
 {
 "target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUser"
 },
 {
 "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProviders"
 },
 {
 "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstances"
 },
 {
 "target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptions"
 },
 {
 "target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociations"
 }
],
 {
 "target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProvider"
 },
 {
 "target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscription"
 },
 {
 "target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscription"
 },
 {
 "target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettings"
 }
 }
],
 "traits": {
 "aws.api#service": {
 "sdkId": "License Manager User Subscriptions",
 "arnNamespace": "license-manager-user-subscriptions",
 "cloudTrailEventSource": "license-manager-user-subscriptions.amazonaws.com"
 },
 "aws.auth#sigv4": {

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 "name": "license-manager-user-subscriptions"
 },
 "aws.protocols#restJson1": {},
 "smithy.api#cors": {
 "additionalAllowedHeaders": [
 "*",
 "content-type",
 "x-amz-content-sha256",
 "x-amz-user-agent",
 "x-amzn-platform-id",
 "x-amzn-trace-id",
 "content-length",
 "x-api-key",
 "authorization",
 "x-amz-date",
 "x-amz-security-token",
 "Access-Control-Allow-Headers",
 "Access-Control-Allow-Methods",
 "Access-Control-Allow-Origin"
],
 "additionalExposedHeaders": [
 "x-amzn-errortype",
 "x-amzn-requestid",
 "x-amzn-trace-id"
]
 }
],
 "smithy.api#documentation": "<p>With License Manager, you can create user-based subscriptions to utilize licensed software with a per user subscription fee on Amazon EC2 instances.</p>",
 "smithy.api#title": "AWS License Manager User Subscriptions",
 "smithy.rules#endpointRuleSet": {
 "version": "1.0",
 "parameters": {
 "Region": {
 "builtIn": "AWS::Region",
 "required": false,
 "documentation": "The AWS region used to dispatch the request.",
 "type": "String"
 },
 "UseDualStack": {
 "builtIn": "AWS::UseDualStack",
 "required": true,
 "default": false,
 "documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
 "type": "Boolean"
 },
 "UseFIPS": {

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 "builtIn": "AWS::UseFIPS",
 "required": true,
 "default": false,
 "documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the
configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
 "type": "Boolean"
 },
 "Endpoint": {
 "builtIn": "SDK::Endpoint",
 "required": false,
 "documentation": "Override the endpoint used to send this request",
 "type": "String"
 }
},
"rules": [
 {
 "conditions": [
 {
 "fn": "isSet",
 "argv": [
 {
 "ref": "Endpoint"
 }
]
 }
]
 }
],
"type": "tree",
"rules": [
 {
 "conditions": [
 {
 "fn": "booleanEquals",
 "argv": [
 {
 "ref": "UseFIPS"
 },
 true
]
 }
]
 },
 {
 "error": "Invalid Configuration: FIPS and custom endpoint are not supported",
 "type": "error"
 },
 {
 "conditions": [],
 "type": "tree",

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"rules": [
 {
 "conditions": [
 {
 "fn": "booleanEquals",
 "argv": [
 {
 "ref": "UseDualStack"
 }
],
 true
]
 }
],
 "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
 "type": "error"
},
{
 "conditions": [],
 "endpoint": {
 "url": {
 "ref": "Endpoint"
 },
 "properties": {},
 "headers": {}
 },
 "type": "endpoint"
}
]
},
{
 "conditions": [],
 "type": "tree",
 "rules": [
 {
 "conditions": [
 {
 "fn": "isSet",
 "argv": [
 {
 "ref": "Region"
 }
]
 }
]
 }
]
},

```

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 "type": "tree",
 "rules": [
 {
 "conditions": [
 {
 "fn": "aws.partition",
 "argv": [
 {
 "ref": "Region"
 }
],
 "assign": "PartitionResult"
 }
],
 "type": "tree",
 "rules": [
 {
 "conditions": [
 {
 "fn": "booleanEquals",
 "argv": [
 {
 "ref": "UseFIPS"
 },
 true
],
 },
 {
 "fn": "booleanEquals",
 "argv": [
 {
 "ref": "UseDualStack"
 },
 true
],
 }
],
 "type": "tree",
 "rules": [
 {
 "conditions": [
 {
 "fn": "booleanEquals",
 "argv": [
 true,

```

```

 {
 "fn": "getAttr",
 "argv": [
 {
 "ref": "PartitionResult"
 },
 "supportsFIPS"
]
 }
],
 {
 "fn": "booleanEquals",
 "argv": [
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 {
 "fn": "getAttr",
 "argv": [
 {
 "ref": "PartitionResult"
 },
 "supportsDualStack"
]
 }
]
 }
],
"type": "tree",
"rules": [
 {
 "conditions": [],
 "type": "tree",
 "rules": [
 {
 "conditions": [],
 "endpoint": {
 "url": "https://license-manager-user-subscriptions-
fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
 "properties": {},
 "headers": {}
 },
 "type": "endpoint"
]
 }
]

```

```

 }
]
},
{
 "conditions": [],
 "error": "FIPS and DualStack are enabled, but this partition does not support
one or both",
 "type": "error"
}
]
},
{
 "conditions": [
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 "fn": "booleanEquals",
 "argv": [
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 "ref": "UseFIPS"
 },
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]
 }
]
},
],
"type": "tree",
"rules": [
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 "conditions": [
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 "fn": "booleanEquals",
 "argv": [
 true,
 {
 "fn": "getAttr",
 "argv": [
 {
 "ref": "PartitionResult"
 }
],
 "supportsFIPS"
 }
]
 }
]
 }
],
"type": "tree",
"rules": [

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 {
 "conditions": [],
 "type": "tree",
 "rules": [

 {
 "conditions": [],
 "endpoint": {
 "url": "https://license-manager-user-subscriptions-
fips.{Region}.{PartitionResult#dnsSuffix}",
 "properties": {},
 "headers": {}
 },
 "type": "endpoint"
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]
 }

],
 },
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 "conditions": [],
 "error": "FIPS is enabled but this partition does not support FIPS",
 "type": "error"
 }
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},
{
 "conditions": [
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 "fn": "booleanEquals",
 "argv": [

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 "ref": "UseDualStack"
 },
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]
 }
],
 "type": "tree",
 "rules": [
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 "conditions": [
 {
 "fn": "booleanEquals",
 "argv": [
 true,

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```

 {
 "fn": "getAttr",
 "argv": [
 {
 "ref": "PartitionResult"
 },
 "supportsDualStack"
]
 }
]
}
],
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"rules": [
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 "conditions": [],
 "type": "tree",
 "rules": [
 {
 "conditions": [],
 "endpoint": {
 "url": "https://license-manager-user-
subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
 "properties": {}},
 "headers": {}
 },
 {
 "type": "endpoint"
 }
]
 },
 {
 "conditions": [],
 "error": "DualStack is enabled but this partition does not support DualStack",
 "type": "error"
 }
]
},
{
 "conditions": [],
 "type": "tree",
 "rules": [
 {

```

```

 "conditions": [],
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 "url": "https://license-manager-user-
subscriptions.{Region}.{PartitionResult#dnsSuffix}",
 "properties": {},
 "headers": {}
 },
 "type": "endpoint"
 }
]
}
]
},
{
 "conditions": [],
 "error": "Invalid Configuration: Missing Region",
 "type": "error"
}
]
}
]
},
"smithy.rules#endpointTests": {
 "testCases": [
 {
 "documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
 "expect": {
 "endpoint": {

"url": "https://license-manager-user-subscriptions-fips.us-east-1.api.aws"
 }
 },
 "params": {
 "Region": "us-east-1",
 "UseDualStack": true,
 "UseFIPS": true
 }
 },
 {
 "documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-user-subscriptions-fips.us-east-1.amazonaws.com"
 }
 },
 "params": {

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```

 "Region": "us-east-1",
 "UseDualStack": false,
 "UseFIPS":
true
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},
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 "documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-user-subscriptions.us-east-1.api.aws"
 }
 },
 "params": {
 "Region": "us-east-1",
 "UseDualStack": true,
 "UseFIPS": false
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},
{
 "documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-user-subscriptions.us-east-1.amazonaws.com"
 }
 },
 "params": {
 "Region": "us-east-1",
 "UseDualStack": false,
 "UseFIPS": false
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{
 "documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-user-subscriptions-fips.cn-north-
1.api.amazonwebservices.com.cn"
 }
 },
 "params": {
 "Region": "cn-north-1",
 "UseDualStack": true,
 "UseFIPS": true
 }
},
{

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```

"documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
"expect": {
 "endpoint": {
 "url": "https://license-manager-user-subscriptions-fips.cn-north-1.amazonaws.com.cn"
 }
},
"params": {
 "Region": "cn-north-1",
 "UseDualStack": false,
 "UseFIPS": true
}
},
{
"documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
"expect": {
 "endpoint": {
 "url": "https://license-manager-user-subscriptions.cn-north-1.api.amazonwebservices.com.cn"
 }
},
"params": {
 "Region": "cn-north-1",
 "UseDualStack": true,
 "UseFIPS": false
}
},
{
"documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
"expect": {
 "endpoint": {
 "url": "https://license-manager-user-subscriptions.cn-north-1.amazonaws.com.cn"
 }
},
"params": {
 "Region": "cn-north-1",
 "UseDualStack": false,
 "UseFIPS": false
}
},
{
"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
"expect": {
 "endpoint": {
 "url": "https://license-manager-user-subscriptions-fips.us-gov-east-1.api.aws"
 }
},
"params": {
 "Region": "us-gov-east-1",

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```

 "UseDualStack": true,
 "UseFIPS": true
 }
},
{
 "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-user-subscriptions-fips.us-gov-east-1.amazonaws.com"
 }
 },
 "params": {
 "Region": "us-gov-east-1",
 "UseDualStack": false,
 "UseFIPS": true
 }
},
{
 "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack enabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-user-subscriptions.us-gov-east-1.api.aws"
 }
 },
 "params": {
 "Region": "us-gov-east-1",
 "UseDualStack": true,
 "UseFIPS": false
 }
}
},
{
 "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-user-subscriptions.us-gov-east-1.amazonaws.com"
 }
 },
 "params": {
 "Region": "us-gov-east-1",
 "UseDualStack": false,
 "UseFIPS": false
 }
}
},
{
 "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
 "expect": {
 "endpoint": {

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 "url": "https://license-manager-user-subscriptions-fips.us-iso-east-1.c2s.ic.gov"
 }
},
"params": {
 "Region": "us-iso-east-1",
 "UseDualStack": false,
 "UseFIPS": true
}
},
{
 "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-user-subscriptions.us-iso-east-1.c2s.ic.gov"
 }
 },
 "params": {
 "Region": "us-iso-east-1",
 "UseDualStack": false,
 "UseFIPS": false
 }
}
},
{
 "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-user-subscriptions-fips.us-isob-east-1.sc2s.sgov.gov"
 }
 },
 "params": {
 "Region": "us-isob-east-1",
 "UseDualStack": false,
 "UseFIPS": true
 }
}
},
{
 "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-user-subscriptions.us-isob-east-1.sc2s.sgov.gov"
 }
 },
 "params": {
 "Region": "us-isob-east-1",
 "UseDualStack": false,
 "UseFIPS": false
 }
}
}

```

```

 },
 {
 "documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
 "expect": {
 "endpoint": {
 "url": "https://example.com"
 }
 },
 "params": {
 "Region": "us-east-1",
 "UseDualStack": false,
 "UseFIPS": false,
 "Endpoint":
"https://example.com"
 }
 },
 {
 "documentation": "For custom endpoint with region not set and fips disabled and dualstack
disabled",
 "expect": {
 "endpoint": {
 "url": "https://example.com"
 }
 },
 "params": {
 "UseDualStack": false,
 "UseFIPS": false,
 "Endpoint": "https://example.com"
 }
 },
 {
 "documentation": "For custom endpoint with fips enabled and dualstack disabled",
 "expect": {
 "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
 },
 "params": {
 "Region": "us-east-1",
 "UseDualStack": false,
 "UseFIPS": true,
 "Endpoint": "https://example.com"
 }
 },
 {
 "documentation": "For custom endpoint with fips disabled and dualstack enabled",
 "expect": {
 "error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
 },
 "params": {

```



```

 "Region": "us-east-1",
 "UseDualStack": true,
 "UseFIPS": false,
 "Endpoint": "https://example.com"
 }
}

],
 "version": "1.0"
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListIdentityProviders": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
 },
 {
 "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerErrorException"
 },
 {
 "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
 },
 {
 "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
 },
 {
 "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
 },
 {
 "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Lists the identity providers for user-based subscriptions.</p>",
 "smithy.api#http": {
 "code": 200,
 "method": "POST",

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```

 "uri": "/identity-provider/ListIdentityProviders"
 },
 "smithy.api#paginated": {
 "inputToken": "NextToken",
 "outputToken": "NextToken",
 "pageSize":
"MaxResults",
 "items": "IdentityProviderSummaries"
 }
},
"com.amazonaws.licenseanagerusersubscriptions#ListIdentityProvidersRequest": {
 "type": "structure",
 "members": {
 "MaxResults": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#BoxInteger",
 "traits": {
 "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
 }
 },
 "NextToken": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 }
 }
},
"com.amazonaws.licenseanagerusersubscriptions#ListIdentityProvidersResponse": {
 "type": "structure",
 "members": {
 "IdentityProviderSummaries": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#IdentityProviderSummaryList",
 "traits": {
 "smithy.api#documentation": "<p>Metadata that describes the list identity providers operation.</p>",
 "smithy.api#required": {}
 }
 },
 "NextToken": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 }
 }
},
"com.amazonaws.licenseanagerusersubscriptions#ListInstances": {

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```

"type": "operation",
"input": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ListInstancesRequest"
},
"output": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ListInstancesResponse"
},
"errors": [
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ConflictException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#InternalServerErrorException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ResourceNotFoundException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ServiceQuotaExceededException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ThrottlingException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ValidationException"
 }
],
"traits": {
 "smithy.api#documentation": "<p>Lists the EC2 instances providing user-based subscriptions.</p>",
 "smithy.api#http": {
 "code": 200,
 "method": "POST",
 "uri": "/instance/ListInstances"
 },
 "smithy.api#paginated": {
 "inputToken": "NextToken",
 "outputToken": "NextToken",
 "pageSize": "MaxResults",
 "items": "InstanceSummaries"
 }
}
},
"com.amazonaws.licenseanagerusersubscriptions#ListInstancesRequest": {
 "type": "structure",
 "members": {

```

```

 "MaxResults": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#BoxInteger",
 "traits": {
 "smithy.api#documentation": "<p>Maximum number
of results to return in a single call.</p>"
 }
 },
 "NextToken": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 },
 "Filters": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#FilterList",
 "traits": {
 "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those
that match one or\n more sets of key-value pairs that you specify.</p>"
 }
 }
 },
 "com.amazonaws.licenseanagerusersubscriptions#ListInstancesResponse": {
 "type": "structure",
 "members": {
 "InstanceSummaries": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#InstanceSummaryList",
 "traits": {
 "smithy.api#documentation": "<p>Metadata that describes the list instances operation.</p>"
 }
 },
 "NextToken": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 }
 }
 },
 "com.amazonaws.licenseanagerusersubscriptions#ListProductSubscriptions": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ListProductSubscriptionsRequest"
 },
 "output": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ListProductSubscriptionsResponse"
 },
 "errors": [

```

```

 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ConflictException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#InternalServerErrorException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ResourceNotFoundException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ServiceQuotaExceededException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ThrottlingException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Lists the user-based
subscription products available from an identity provider.</p>",
 "smithy.api#http": {
 "code": 200,
 "method": "POST",
 "uri": "/user/ListProductSubscriptions"
 },
 "smithy.api#paginated": {
 "inputToken": "NextToken",
 "outputToken": "NextToken",
 "pageSize": "MaxResults",
 "items": "ProductUserSummaries"
 }
 }
},
"com.amazonaws.licenseanagerusersubscriptions#ListProductSubscriptionsRequest": {
 "type": "structure",
 "members": {
 "Product": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
 "smithy.api#required": {}
 }
 }
 },

```

```

"IdentityProvider": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#IdentityProvider",
 "traits": {
 "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
 "smithy.api#required": {}
 }
},
"MaxResults": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#BoxInteger",
 "traits": {
 "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
 }
},
"Filters": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#FilterList",
 "traits": {
 "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those
that match one or\n more sets
of key-value pairs that you specify.</p>"
 }
},
"NextToken": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
}
},
"com.amazonaws.licenseanagerusersubscriptions#ListProductSubscriptionsResponse": {
 "type": "structure",
 "members": {
 "ProductUserSummaries": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ProductUserSummaryList",
 "traits": {
 "smithy.api#documentation": "<p>Metadata that describes the list product subscriptions
operation.</p>"
 }
 },
 "NextToken": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation":
"<p>Token for the next set of results.</p>"
 }
 }
 }
}

```

```

 },
 "com.amazonaws.licenseanagerusersubscriptions#ListUserAssociations": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ListUserAssociationsRequest"
 },
 "output": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ListUserAssociationsResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ConflictException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#InternalServerErrorException"
 },
 {
 "target":
"com.amazonaws.licenseanagerusersubscriptions#ResourceNotFoundException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ServiceQuotaExceededException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ThrottlingException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Lists user associations for an identity provider.</p>",
 "smithy.api#http": {
 "code": 200,
 "method": "POST",
 "uri": "/user/ListUserAssociations"
 },
 "smithy.api#paginated": {
 "inputToken": "NextToken",
 "outputToken": "NextToken",
 "pageSize":
"MaxResults",
 "items": "InstanceUserSummaries"
 }
 }
 }
 }

```

```

 },
 "com.amazonaws.licenseanagerusersubscriptions#ListUserAssociationsRequest": {
 "type": "structure",
 "members": {
 "InstanceId": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
 "smithy.api#required": {}
 }
 },
 "IdentityProvider": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#IdentityProvider",
 "traits": {
 "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
 "smithy.api#required": {}
 }
 },
 "MaxResults": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#BoxInteger",
 "traits": {
 "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
 }
 },
 "Filters": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#FilterList",
 "traits": {
 "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those
that match one or\n more sets of key-value pairs that you specify.</p>"
 }
 },
 "NextToken": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 }
 }
 },
 "com.amazonaws.licenseanagerusersubscriptions#ListUserAssociationsResponse": {
 "type": "structure",
 "members": {
 "InstanceUserSummaries": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#InstanceUserSummaryList",
 "traits": {

```



```

 "smithy.api#documentation": "<p>Metadata that describes the list user association operation.</p>"
 }
},
"NextToken": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
}
},
"com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary": {
 "type": "structure",
 "members": {
 "Username": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation":
"<p>The user name from the identity provider of the user.</p>",
 "smithy.api#required": {}
 }
 },
 "Product": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
 "smithy.api#required": {}
 }
 },
 "IdentityProvider": {
 "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
 "traits": {
 "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
 "smithy.api#required": {}
 }
 },
 "Status": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The status of a product for a user.</p>",
 "smithy.api#required": {}
 }
 },
 "StatusMessage": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The status message for a product for a user.</p>"
 }
 }
 }
}

```

```

 }
 },
 "Domain": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The domain name of the user.</p>"
 }
 },
 "SubscriptionStartDate": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The start date of a subscription.</p>"
 }
 },
 "SubscriptionEndDate": {
 "target":
"smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The end date of a subscription.</p>"
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>The summary of the user-based subscription products for a user.</p>"
 }
},
"com.amazonaws.licensemanagerusersubscriptions#ProductUserSummaryList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary"
 }
},
"com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProvider": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
 },
 {

```

```

 "target": "com.amazonaws.licenseanagerusersubscriptions#InternalServerErrorException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ResourceNotFoundException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ServiceQuotaExceededException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ThrottlingException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ValidationException"
 }
],
"traits": {
 "smithy.api#documentation": "<p>Registers an identity provider for user-based subscriptions.</p>",
 "smithy.api#http": {
 "code": 200,
 "method": "POST",
 "uri": "/identity-provider/RegisterIdentityProvider"
 },
 "smithy.api#idempotent": {}
}
},
"com.amazonaws.licenseanagerusersubscriptions#RegisterIdentityProviderRequest": {
 "type": "structure",
 "members": {
 "IdentityProvider": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#IdentityProvider",
 "traits": {
 "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
 "smithy.api#required": {}
 }
 },
 "Product":
 {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
 "smithy.api#required": {}
 }
 },
 "Settings": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#Settings",
 "traits": {
 "smithy.api#documentation": "<p>The registered identity providers product related configuration settings such as the\n subnets to provision VPC endpoints.</p>"

```

```

 }
 }
},
"com.amazonaws.licenseanagerusersubscriptions#RegisterIdentityProviderResponse": {
 "type": "structure",
 "members": {
 "IdentityProviderSummary": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#IdentityProviderSummary",

"traits": {
 "smithy.api#documentation": "<p>Metadata that describes the results of an identity provider
operation.</p>",
 "smithy.api#required": {}
}
}
},
"com.amazonaws.licenseanagerusersubscriptions#ResourceNotFoundException": {
 "type": "structure",
 "members": {
 "message": {
 "target": "smithy.api#String"
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>The resource couldn't be found.</p>",
 "smithy.api#error": "client",
 "smithy.api#httpError": 404
 }
},
"com.amazonaws.licenseanagerusersubscriptions#SecurityGroup": {
 "type": "string",
 "traits": {
 "smithy.api#length": {
 "min": 5,
 "max": 200
 },

"smithy.api#pattern": "^sg-([0-9a-z]{8})([0-9a-z]{17})$"
}
},
"com.amazonaws.licenseanagerusersubscriptions#ServiceQuotaExceededException": {
 "type": "structure",
 "members": {
 "message": {
 "target": "smithy.api#String"
 }
 }
}

```

```

 },
 "traits": {
 "smithy.api#documentation": "<p>The request failed because a service quota is exceeded.</p>",
 "smithy.api#error": "client"
 }
 },
 "com.amazonaws.licensemanagerusersubscriptions#Settings": {
 "type": "structure",
 "members": {
 "Subnets": {
 "target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
 "traits": {
 "smithy.api#documentation": "<p>The subnets defined for the registered identity provider.</p>",
 "smithy.api#length": {
 "min": 1
 },
 "smithy.api#required": {}
 }
 },
 "SecurityGroupId": {
 "target": "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup",
 "traits": {
 "smithy.api#documentation": "<p>A security group ID that allows inbound TCP port 1688
communication between resources in\n your VPC and the VPC endpoint for activation servers.</p>",
 "smithy.api#required": {}
 }
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>The registered identity providers product related configuration settings
such as the\n subnets to provision VPC endpoints, and the security group ID that is associated with the VPC\n
endpoints. The security group should permit inbound TCP port 1688 communication from resources\n
in the VPC.</p>"
 }
 },
 "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscription": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
 },
 {

```

```

 "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
 },
 {
 "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerError"
 },
 {
 "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
 },
 {
 "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
 },
 {
 "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
 },
 {
 "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
 }
],
"traits": {
 "smithy.api#documentation": "<p>Starts a product subscription for a user with the specified identity provider.</p>\n <note>\n <p>Your estimated bill for charges on the number of users and related costs will take 48\n hours to appear for billing periods that haven't closed (marked as Pending billing status) in Amazon Web Services Billing. For more information, see Viewing your\n monthly charges in the <i>Amazon Web Services Billing User Guide</i>.</p>\n </note>",
 "smithy.api#http": {
 "code": 200,
 "method": "POST",
 "uri": "/user/StartProductSubscription"
 }
},
"com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionRequest": {
 "type": "structure",
 "members": {
 "Username": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The user name from the identity provider of the user.</p>",
 "smithy.api#required": {}
 }
 },
 "IdentityProvider": {
 "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
 "traits": {
 "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
 "smithy.api#required": {}
 }
 }
 }
}

```

```

 }
 },
 "Product": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
 "smithy.api#required": {}
 }
 },
 "Domain": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The domain name of the user.</p>"
 }
 }
},
"com.amazonaws.licenseanagerusersubscriptions#StartProductSubscriptionResponse": {
 "type": "structure",
 "members": {
 "ProductUserSummary": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ProductUserSummary",
 "traits": {
 "smithy.api#documentation": "<p>Metadata that describes the start product subscription operation.</p>",
 "smithy.api#required": {}
 }
 }
 }
},
"com.amazonaws.licenseanagerusersubscriptions#StopProductSubscription": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#StopProductSubscriptionRequest"
 },
 "output": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#StopProductSubscriptionResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ConflictException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#InternalServerErrorException"
 }
]
}

```

```

 {
 "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
 },
 {
 "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
 },
 {
 "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
 },
 {
 "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Stops a product subscription for a user with the specified identity provider.</p>",
 "smithy.api#http": {
 "code": 200,
 "method": "POST",
 "uri":
"/user/StopProductSubscription"
 }
 },
 "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionRequest": {
 "type": "structure",
 "members": {
 "Username": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
 "smithy.api#required": {}
 }
 },
 "IdentityProvider": {
 "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
 "traits": {
 "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
 "smithy.api#required": {}
 }
 },
 "Product": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
 "smithy.api#required": {}
 }
 }
 }
 },

```



```

 "Domain": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The domain name of the user.</p>"
 }
 }
 },
 "com.amazonaws.licenseanagerusersubscriptions#StopProductSubscriptionResponse": {
 "type": "structure",
 "members": {
 "ProductUserSummary": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ProductUserSummary",
 "traits": {
 "smithy.api#documentation": "<p>Metadata that describes the start product subscription operation.</p>",
 "smithy.api#required": {}
 }
 }
 }
 },
 "com.amazonaws.licenseanagerusersubscriptions#StringList": {
 "type": "list",
 "member": {
 "target": "smithy.api#String"
 }
 },
 "com.amazonaws.licenseanagerusersubscriptions#Subnet": {
 "type": "string",
 "traits": {
 "smithy.api#pattern": "subnet-[a-z0-9]{8,17}"
 }
 },
 "com.amazonaws.licenseanagerusersubscriptions#Subnets": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#Subnet"
 }
 },
 "com.amazonaws.licenseanagerusersubscriptions#ThrottlingException": {
 "type": "structure",
 "members": {
 "message": {
 "target": "smithy.api#String"
 }
 }
 },
 "traits": {
 "smithy.api#documentation":

```

```

"<p>The request was denied because of request throttling. Retry the request.</p>",
 "smithy.api#error": "client"
}
},
"com.amazonaws.licenseanagerusersubscriptions#UpdateIdentityProviderSettings": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#UpdateIdentityProviderSettingsRequest"
 },
 "output": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#UpdateIdentityProviderSettingsResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#InternalServerErrorException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ThrottlingException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Updates additional product configuration settings for the registered
identity\n provider.</p>",
 "smithy.api#http": {
 "code": 200,
 "method": "POST",
 "uri": "/identity-provider/UpdateIdentityProviderSettings"
 },
 "smithy.api#idempotent": {}
 }
},
"com.amazonaws.licenseanagerusersubscriptions#UpdateIdentityProviderSettingsRequest": {
 "type": "structure",
 "members": {
 "IdentityProvider": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#IdentityProvider",
 "traits": {
 "smithy.api#required": {}
 }
 }
 },
 "Product": {

```

```

 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
 "smithy.api#required": {}
 }
 },
 "UpdateSettings": {
 "target": "com.amazonaws.licensemanagerusersubscriptions#UpdateSettings",
 "traits": {
 "smithy.api#documentation": "<p>Updates the registered identity providers product related
configuration settings. You can\n update any combination of settings in a single operation such as the:</p>\n
\n \n <p>Subnets which you want to add to provision VPC endpoints.</p>\n \n
 \n <p>Subnets which you want to remove the VPC endpoints from.</p>\n \n
\n
 <p>Security group ID which permits traffic to the VPC endpoints.</p>\n \n ",
 "smithy.api#required": {}
 }
 }
},
"com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsResponse": {
 "type": "structure",
 "members": {
 "IdentityProviderSummary": {
 "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
 "traits": {
 "smithy.api#required": {}
 }
 }
 }
},
"com.amazonaws.licensemanagerusersubscriptions#UpdateSettings": {
 "type": "structure",
 "members": {
 "AddSubnets": {
 "target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
 "traits": {
 "smithy.api#documentation":
"<p>The ID of one or more subnets in which License Manager will create a VPC endpoint for products that\n
require connectivity to activation servers.</p>",
 "smithy.api#required": {}
 }
 },
 "RemoveSubnets": {
 "target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
 "traits": {
 "smithy.api#documentation": "<p>The ID of one or more subnets to remove.</p>",
 "smithy.api#required": {}
 }
 }
 }
}

```

```

 }
 },
 "SecurityGroupId": {
 "target": "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup",
 "traits": {
 "smithy.api#documentation": "<p>A security group ID that allows inbound TCP port 1688
communication between resources in\n your VPC and the VPC endpoints for activation servers.</p>"
 }
 }
},
"traits": {
 "smithy.api#documentation": "<p>Updates the registered identity providers product related configuration
settings such as\n the subnets to provision VPC endpoints.</p>"
}
},
"com.amazonaws.licensemanagerusersubscriptions#ValidationException": {
 "type": "structure",
 "members": {
 "message": {
 "target": "smithy.api#String"
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>A parameter is not valid.</p>",
 "smithy.api#error": "client"
 }
}
}
}
}
}
}
}

```

// Code generated by smithy-go-codegen DO NOT EDIT.

```
package licensemanager
```

```
import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

```

// Gets detailed information about the specified license.

```
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
```

```
(*GetLicenseOutput, error) {
```

```
if params == nil {
```

```
params = &GetLicenseInput{}
```

```

}

result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
if err != nil {
 return nil, err
}

out := result.(*GetLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version
 *string

 noSmithyDocumentSerde
}

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {

```

```

return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if
err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack, options); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}

```

```

}
if err = addResponseErrorMiddleware(stack);
err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "GetLicense",
}
}
}

```

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```

// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
 if params == nil {
 params = &DisassociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //
 // This
 member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

```



```

// A structure containing information about the workspace.
//
// This member is required.
Workspace *types.WorkspaceDescription

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {

```

```

return err
}
if err = addClientUserAgent(stack, options); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region: region,
ServiceID: ServiceID,
SigningName: "grafana",
OperationName: "DisassociateLicense",
}
}

```

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 "documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager.us-east-1.api.aws"
 }
 },
 "params": {
 "UseFIPS": false,
 "UseDualStack": true,
 "Region": "us-east-1"
 }
},
{
 "documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager.cn-north-1.amazonaws.com.cn"
 }
 },
 "params": {
 "UseFIPS": false,
 "UseDualStack": false,
 "Region": "cn-north-1"
 }
},
{
 "documentation": "For region cn-northwest-1 with FIPS disabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager.cn-northwest-1.amazonaws.com.cn"
 }
 },
 "params": {
 "UseFIPS": false,
 "UseDualStack": false,
 "Region": "cn-northwest-1"
 }
}

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},
{
 "documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-fips.cn-north-1.api.amazonwebservices.com.cn"
 }
 },
 "params": {
 "UseFIPS": true,
 "UseDualStack": true,
 "Region": "cn-north-1"
 }
},
{
 "documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-fips.cn-north-1.amazonaws.com.cn"
 }
 },
 "params": {
 "UseFIPS": true,
 "UseDualStack": false,
 "Region": "cn-north-1"
 }
},
{
 "documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager.cn-north-1.api.amazonwebservices.com.cn"
 }
 },
 "params": {
 "UseFIPS": false,
 "UseDualStack": true,
 "Region": "cn-north-1"
 }
},
{
 "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager.us-gov-east-1.amazonaws.com"
 }
 },

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"params": {
 "UseFIPS": false,
 "UseDualStack": false,

 "Region": "us-gov-east-1"
}
},
{
 "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-fips.us-gov-east-1.amazonaws.com"
 }
 },
 "params": {
 "UseFIPS": true,
 "UseDualStack": false,
 "Region": "us-gov-east-1"
 }
},
{
 "documentation": "For region us-gov-west-1 with FIPS disabled and DualStack disabled",
 "expect": {
 "endpoint": {

 "url": "https://license-manager.us-gov-west-1.amazonaws.com"
 }
 },
 "params": {
 "UseFIPS": false,
 "UseDualStack": false,
 "Region": "us-gov-west-1"
 }
},
{
 "documentation": "For region us-gov-west-1 with FIPS enabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-fips.us-gov-west-1.amazonaws.com"
 }
 },
 "params": {
 "UseFIPS": true,
 "UseDualStack": false,
 "Region": "us-gov-west-1"
 }
},
{

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 "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-fips.us-gov-east-1.api.aws"
 }
 },
 "params": {
 "UseFIPS": true,
 "UseDualStack": true,
 "Region": "us-gov-east-1"
 }
 },
 {
 "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack enabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager.us-gov-east-1.api.aws"
 }
 },
 "params": {
 "UseFIPS": false,
 "UseDualStack": true,
 "Region": "us-gov-east-1"
 }
 },
 {
 "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager.us-iso-east-1.c2s.ic.gov"
 }
 },
 "params": {
 "UseFIPS": false,
 "UseDualStack": false,
 "Region": "us-iso-east-1"
 }
 },
 {
 "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
 "expect": {
 "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
 },
 "params": {
 "UseFIPS": true,
 "UseDualStack": true,
 "Region": "us-iso-east-1"
 }
 }

```

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 }
 },
 {
 "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-fips.us-iso-east-1.c2s.ic.gov"
 }
 },
 },
 "params": {
 "UseFIPS": true,
 "UseDualStack": false,
 "Region": "us-iso-east-1"
 }
},
{
 "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
 "expect": {
 "error": "DualStack is enabled but this partition does not support DualStack"
 },
 "params": {
 "UseFIPS": false,
 "UseDualStack": true,
 "Region": "us-iso-east-1"
 }
},
{
 "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager.us-isob-east-1.sc2s.sgov.gov"
 }
 },
 "params": {
 "UseFIPS": false,
 "UseDualStack": false,
 "Region": "us-isob-east-1"
 }
},
{
 "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
 "expect": {
 "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
 },
 "params": {
 "UseFIPS": true,
 "UseDualStack": true,

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 "Region": "us-isob-east-1"
 }
},
{
 "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-fips.us-isob-east-1.sc2s.sgov.gov"
 }
 },
 "params": {
 "UseFIPS": true,
 "UseDualStack": false,
 "Region": "us-isob-east-1"
 }
},
{
 "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
 "expect": {
 "error": "DualStack is enabled but this partition does not support DualStack"
 },
 "params": {
 "UseFIPS": false,
 "UseDualStack": true,
 "Region": "us-isob-east-1"
 }
},
{
 "documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
 "expect": {
 "endpoint": {
 "url": "https://example.com"
 }
 },
 "params": {
 "UseFIPS": false,
 "UseDualStack": false,
 "Region": "us-east-1",
 "Endpoint": "https://example.com"
 }
},
{
 "documentation": "For custom endpoint with region not set and fips disabled and dualstack
disabled",
 "expect": {
 "endpoint": {
 "url": "https://example.com"
 }
 }
}

```



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 }
 },
 "params": {
 "UseFIPS": false,
 "UseDualStack": false,
 "Endpoint": "https://example.com"
 }
},
{
 "documentation": "For custom endpoint with fips enabled and dualstack disabled",
 "expect": {
 "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
 },
 "params": {
 "UseFIPS": true,
 "UseDualStack": false,
 "Region": "us-east-1",
 "Endpoint": "https://example.com"
 }
},
{
 "documentation": "For custom endpoint with fips disabled and dualstack enabled",
 "expect": {
 "error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
 },
 "params": {
 "UseFIPS": false,
 "UseDualStack": true,
 "Region": "us-east-1",
 "Endpoint": "https://example.com"
 }
},
{
 "documentation": "Missing region",
 "expect": {
 "error": "Invalid Configuration: Missing Region"
 }
}
],
"version": "1.0"
}
},
"com.amazonaws.licensemanager#AcceptGrant": {
 "type": "operation",
 "input": {

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 "target": "com.amazonaws.licensemanager#AcceptGrantRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#AcceptGrantResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Accepts the specified grant.</p>"
 }
},
"com.amazonaws.licensemanager#AcceptGrantRequest": {
 "type": "structure",
 "members": {
 "GrantArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
 "smithy.api#required": {}
 }
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
}

```

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 },
 "com.amazonaws.licensemanager#AcceptGrantResponse": {
 "type": "structure",
 "members": {
 "GrantArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>Grant ARN.</p>"
 }
 },
 "Status": {
 "target": "com.amazonaws.licensemanager#GrantStatus",
 "traits": {
 "smithy.api#documentation": "<p>Grant status.</p>"
 }
 },
 "Version": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Grant version.</p>"
 }
 }
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
 },
 "com.amazonaws.licensemanager#AccessDeniedException": {
 "type": "structure",
 "members": {
 "Message": {
 "target": "com.amazonaws.licensemanager#Message"
 }
 },
 "traits": {
 "aws.protocols#awsQueryError": {
 "code": "ServiceAccessDenied",
 "httpResponseCode": 401
 },
 "smithy.api#documentation": "<p>Access to resource denied.</p>",
 "smithy.api#error": "client",
 "smithy.api#httpError": 401
 }
 },
 "com.amazonaws.licensemanager#ActivationOverrideBehavior": {
 "type": "enum",
 "members": {

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"DISTRIBUTED_GRANTS_ONLY": {
 "target": "smithy.api#Unit",

"traits": {
 "smithy.api#enumValue": "DISTRIBUTED_GRANTS_ONLY"
 },
 "ALL_GRANTS_PERMITTED_BY_ISSUER": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "ALL_GRANTS_PERMITTED_BY_ISSUER"
 }
 }
 },
"com.amazonaws.licensemanager#AllowedOperation": {
 "type": "enum",
 "members": {
 "CREATE_GRANT": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "CreateGrant"
 }
 },
 "CHECKOUT_LICENSE": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "CheckoutLicense"
 }
 },
 "CHECKOUT_BORROW_LICENSE":
 {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "CheckoutBorrowLicense"
 }
 },
 "CHECK_IN_LICENSE": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "CheckInLicense"
 }
 },
 "EXTEND_CONSUMPTION_LICENSE": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "ExtendConsumptionLicense"
 }
 }
 }
}

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 },
 "LIST_PURCHASED_LICENSES": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "ListPurchasedLicenses"
 }
 },
 "CREATE_TOKEN": {
 "target": "smithy.api#Unit",

 "traits": {
 "smithy.api#enumValue": "CreateToken"
 }
 }
 },
 "com.amazonaws.licensemanager#AllowedOperationList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#AllowedOperation"
 },
 "traits": {
 "smithy.api#length": {
 "min": 1,
 "max": 7
 }
 }
 },
 "com.amazonaws.licensemanager#Arn": {
 "type": "string",
 "traits": {
 "smithy.api#length": {
 "min": 0,
 "max": 2048
 },
 "smithy.api#pattern": "^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:/+=,@.-]{0,1023}$"
 }
 },
 "com.amazonaws.licensemanager#ArnList":
 {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#Arn"
 }
 },
 "com.amazonaws.licensemanager#AuthorizationException": {
 "type": "structure",

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"members": {
 "Message": {
 "target": "com.amazonaws.licensemanager#Message"
 }
},
"traits": {
 "aws.protocols#awsQueryError": {
 "code": "AuthorizationFailure",
 "httpResponseCode": 403
 },
 "smithy.api#documentation": "<p>The Amazon Web Services user account does not have permission to
perform the action. Check the IAM\n policy associated with this account.</p>",
 "smithy.api#error": "client",
 "smithy.api#httpError": 403
}
},
"com.amazonaws.licensemanager#AutomatedDiscoveryInformation": {
 "type":
"structure",
 "members": {
 "LastRunTime": {
 "target": "com.amazonaws.licensemanager#DateTime",
 "traits": {
 "smithy.api#documentation": "<p>Time that automated discovery last ran.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>Describes automated discovery.</p>"
 }
},
"com.amazonaws.licensemanager#Boolean": {
 "type": "boolean",
 "traits": {
 "smithy.api#default": false
 }
},
"com.amazonaws.licensemanager#BorrowConfiguration": {
 "type": "structure",
 "members": {
 "AllowEarlyCheckIn": {
 "target": "com.amazonaws.licensemanager#BoxBoolean",
 "traits": {
 "smithy.api#documentation": "<p>Indicates whether early check-ins are
allowed.</p>",
 "smithy.api#required": {}
 }
 }
 },
}

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 "MaxTimeToLiveInMinutes": {
 "target": "com.amazonaws.licensemanager#BoxInteger",
 "traits": {
 "smithy.api#documentation": "<p>Maximum time for the borrow configuration, in minutes.</p>",
 "smithy.api#required": {}
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>Details about a borrow configuration.</p>"
 },
 "com.amazonaws.licensemanager#BoxBoolean": {
 "type": "boolean"
 },
 "com.amazonaws.licensemanager#BoxInteger": {
 "type": "integer"
 },
 "com.amazonaws.licensemanager#BoxLong": {
 "type": "long"
 },
 "com.amazonaws.licensemanager#CheckInLicense": {
 "type": "operation",
 "input":
 {
 "target": "com.amazonaws.licensemanager#CheckInLicenseRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#CheckInLicenseResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#ConflictException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
 }
]
 }
 }

```

```

 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
"traits": {
 "smithy.api#documentation": "<p>Checks in the specified license. Check in a license when it is no longer
in use.</p>"
}
},
"com.amazonaws.licensemanager#CheckInLicenseRequest": {
 "type": "structure",
 "members": {
 "LicenseConsumptionToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>License consumption token.</p>",
 "smithy.api#required": {}
 }
 },
 "Beneficiary": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>License beneficiary.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
},
"com.amazonaws.licensemanager#CheckInLicenseResponse": {
 "type": "structure",
 "members": {},
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#CheckoutBorrowLicense": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest"
 },

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"output": {
 "target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse"
},
"errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#EntitlementNotAllowedException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#RedirectException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
"traits": {
 "smithy.api#documentation": "<p>Checks out the specified license for offline use.</p>"
}
},
"com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest": {
 "type": "structure",
 "members": {
 "LicenseArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {

```

```

 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license. The license must
use the borrow consumption configuration.</p>",
 "smithy.api#required": {}
 }
},
"Entitlements": {
 "target": "com.amazonaws.licensemanager#EntitlementDataList",
 "traits":
{
 "smithy.api#documentation": "<p>License entitlements. Partial checkouts are not supported.</p>",
 "smithy.api#required": {}
 }
},
"DigitalSignatureMethod": {
 "target": "com.amazonaws.licensemanager#DigitalSignatureMethod",
 "traits": {
 "smithy.api#documentation": "<p>Digital signature method. The possible value is JSON Web
Signature (JWS) algorithm PS384.\n For more information, see RFC 7518 Digital Signature with RSASSA-PSS.</p>",
 "smithy.api#required": {}
 }
},
"NodeId": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Node ID.</p>"
 }
},
},
"CheckoutMetadata": {
 "target": "com.amazonaws.licensemanager#MetadataList",
 "traits": {
 "smithy.api#documentation": "<p>Information about constraints.</p>"
 }
},
"ClientToken": {
 "target": "com.amazonaws.licensemanager#ClientToken",
 "traits": {
 "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",
 "smithy.api#required": {}
 }
}
},
"traits": {
 "smithy.api#input": {}
}
},
},

```

```

"com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse": {
 "type": "structure",
 "members": {
 "LicenseArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
 }
 },
 "LicenseConsumptionToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>License consumption token.</p>"
 }
 },
 "EntitlementsAllowed": {
 "target": "com.amazonaws.licensemanager#EntitlementDataList",
 "traits": {
 "smithy.api#documentation": "<p>Allowed license entitlements.</p>"
 }
 },
 "NodeId": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Node ID.</p>"
 }
 },
 "SignedToken": {
 "target": "com.amazonaws.licensemanager#SignedToken",
 "traits": {
 "smithy.api#documentation": "<p>Signed token.</p>"
 }
 },
 "IssuedAt": {
 "target": "com.amazonaws.licensemanager#ISO8601DateTime",
 "traits": {
 "smithy.api#documentation": "<p>Date and time at which the license checkout is issued.</p>"
 }
 },
 "Expiration": {
 "target": "com.amazonaws.licensemanager#ISO8601DateTime",
 "traits": {
 "smithy.api#documentation": "<p>Date and time at which the license checkout expires.</p>"
 }
 },
 "CheckoutMetadata": {
 "target": "com.amazonaws.licensemanager#MetadataList",

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 "traits": {
 "smithy.api#documentation":
"<p>Information about constraints.</p>"
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#CheckoutLicense": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#CheckoutLicenseRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#CheckoutLicenseResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#RedirectException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
]
}

```

```

 }
],
 "traits": {
 "smithy.api#documentation": "<p>Checks out the specified license.</p>\n <note>\n <p>If the
account that created the license
is the same that is performing the check out, you must\n specify the account as the beneficiary.</p>\n
</note>"
 }
},
"com.amazonaws.licensemanager#CheckoutLicenseRequest": {
 "type": "structure",
 "members": {
 "ProductSKU": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Product SKU.</p>",
 "smithy.api#required": {}
 }
 },
 "CheckoutType": {
 "target": "com.amazonaws.licensemanager#CheckoutType",
 "traits": {
 "smithy.api#documentation": "<p>Checkout type.</p>",
 "smithy.api#required": {}
 }
 },
 "KeyFingerprint": {
 "target": "com.amazonaws.licensemanager#String",

 "traits": {
 "smithy.api#documentation": "<p>Key fingerprint identifying the license.</p>",
 "smithy.api#required": {}
 }
 },
 "Entitlements": {
 "target": "com.amazonaws.licensemanager#EntitlementDataList",
 "traits": {
 "smithy.api#documentation": "<p>License entitlements.</p>",
 "smithy.api#required": {}
 }
 },
 "ClientToken": {
 "target": "com.amazonaws.licensemanager#ClientToken",
 "traits": {
 "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",
 "smithy.api#required": {}
 }
 }
 }
}

```

```

 },
 "Beneficiary": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>License beneficiary.</p>"
 }
 },
 "NodeId": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Node ID.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
},
"com.amazonaws.licensemanager#CheckoutLicenseResponse": {
 "type": "structure",
 "members": {
 "CheckoutType": {
 "target": "com.amazonaws.licensemanager#CheckoutType",
 "traits": {
 "smithy.api#documentation": "<p>Checkout type.</p>"
 }
 },
 "LicenseConsumptionToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>License consumption token.</p>"
 }
 },
 "EntitlementsAllowed": {
 "target": "com.amazonaws.licensemanager#EntitlementDataList",
 "traits": {
 "smithy.api#documentation": "<p>Allowed license entitlements.</p>"
 }
 },
 "SignedToken": {
 "target": "com.amazonaws.licensemanager#SignedToken",
 "traits": {
 "smithy.api#documentation": "<p>Signed token.</p>"
 }
 },
 "NodeId": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {

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 "smithy.api#documentation": "<p>Node ID.</p>"
 }
},
"IssuedAt": {
 "target": "com.amazonaws.licensemanager#ISO8601DateTime",
 "traits": {
 "smithy.api#documentation": "<p>Date and time at which the license checkout is issued.</p>"
 }
},
"Expiration": {
 "target": "com.amazonaws.licensemanager#ISO8601DateTime",
 "traits": {
 "smithy.api#documentation": "<p>Date and time at which the license checkout expires.</p>"
 }
},
"LicenseArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the checkout license.</p>"
 }
},
"traits": {
 "smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CheckoutType":
{
 "type": "enum",
 "members": {
 "PROVISIONAL": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "PROVISIONAL"
 }
 },
 "PERPETUAL": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "PERPETUAL"
 }
 }
 }
},
"com.amazonaws.licensemanager#ClientRequestToken": {
 "type": "string",
 "traits": {
 "smithy.api#length": {

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 "min": 1,
 "max": 36
 }
}
},
"com.amazonaws.licensemanager#ClientToken": {
 "type": "string",
 "traits": {
 "smithy.api#length": {
 "min": 0,
 "max": 2048
 },
 "smithy.api#pattern": "^\\S+$"
 }
},
"com.amazonaws.licensemanager#ConflictException": {
 "type": "structure",
 "members": {
 "Message": {
 "target": "com.amazonaws.licensemanager#Message"
 }
 },
 "traits": {
 "aws.protocols#awsQueryError": {
 "code": "ConflictException",
 "httpResponseCode": 409
 },
 "smithy.api#documentation": "<p>There was a conflict processing the request. Try your request again.</p>",
 "smithy.api#error": "client",
 "smithy.api#httpError": 409
 }
},
"com.amazonaws.licensemanager#ConsumedLicenseSummary": {
 "type": "structure",
 "members": {
 "ResourceType": {
 "target": "com.amazonaws.licensemanager#ResourceType",
 "traits": {
 "smithy.api#documentation": "<p>Resource type of the resource consuming a license.</p>"
 }
 },
 "ConsumedLicenses": {
 "target": "com.amazonaws.licensemanager#BoxLong",
 "traits": {
 "smithy.api#documentation": "<p>Number of licenses consumed by the resource.</p>"
 }
 }
 }
}

```



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 }
 },
 "traits": {
 "smithy.api#documentation": "<p>Details about license consumption.</p>"
 }
},
"com.amazonaws.licensemanager#ConsumedLicenseSummaryList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#ConsumedLicenseSummary"
 }
},
"com.amazonaws.licensemanager#ConsumptionConfiguration": {
 "type": "structure",
 "members": {
 "RenewType": {
 "target": "com.amazonaws.licensemanager#RenewType",
 "traits": {
 "smithy.api#documentation": "<p>Renewal frequency.</p>"
 }
 },
 "ProvisionalConfiguration": {
 "target": "com.amazonaws.licensemanager#ProvisionalConfiguration",
 "traits": {
 "smithy.api#documentation": "<p>Details about a provisional configuration.</p>"
 }
 },
 "BorrowConfiguration": {
 "target": "com.amazonaws.licensemanager#BorrowConfiguration",
 "traits": {
 "smithy.api#documentation": "<p>Details about a borrow configuration.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>Details about a consumption configuration.</p>"
 }
},
"com.amazonaws.licensemanager#CreateGrant":
{
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#CreateGrantRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#CreateGrantResponse"
 },

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"errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
"traits": {
 "smithy.api#documentation": "<p>Creates a grant for the specified license. A grant shares the use of license\n entitlements with a specific Amazon Web Services account, an organization, or an\n organizational unit (OU). For more information, see Granted licenses in License Manager in the <i>License Manager User Guide</i>.</p>"
}
},
"com.amazonaws.licensemanager#CreateGrantRequest": {
 "type": "structure",
 "members": {
 "ClientToken": {
 "target": "com.amazonaws.licensemanager#ClientToken",
 "traits": {
 "smithy.api#documentation":
"<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
 "smithy.api#required": {}
 }
 }
 },
 "GrantName": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Grant name.</p>",
 "smithy.api#required": {}
 }
 }
}

```

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 },
 "LicenseArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
 "smithy.api#required": {}
 }
 },
 "Principals": {
 "target": "com.amazonaws.licensemanager#PrincipalArnList",
 "traits": {
 "smithy.api#documentation":
 "<p>The grant principals. You can specify one of the following as an Amazon Resource Name\n
 (ARN):</p>\n
 \n
 \n
 <p>An Amazon Web Services account, which includes only the\n
 account specified.</p>\n
 \n
 \n
 \n
 \n
 <p>An organizational unit\n
 (OU), which includes all accounts in the OU.</p>\n
 \n
 \n
 \n
 \n
 <p>An organization, which will include all accounts across your organization.</p>\n
 \n
 ",
 "smithy.api#required": {}
 }
 },
 "HomeRegion": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Home Region of the grant.</p>",
 "smithy.api#required": {}
 }
 }
 },
 "AllowedOperations": {
 "target": "com.amazonaws.licensemanager#AllowedOperationList",
 "traits": {
 "smithy.api#documentation": "<p>Allowed operations for the grant.</p>",
 "smithy.api#required": {}
 }
 }
},
"traits": {
 "smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateGrantResponse": {
 "type": "structure",
 "members": {
 "GrantArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>Grant ARN.</p>"
 }
 }
 }
}

```

```

 },
 "Status": {
 "target": "com.amazonaws.licensemanager#GrantStatus",
 "traits": {
 "smithy.api#documentation":
"<p>Grant status.</p>"
 }
 },
 "Version": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Grant version.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#CreateGrantVersion": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#CreateGrantVersionRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#CreateGrantVersionResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
]
}

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 }
],
 "traits": {
 "smithy.api#documentation": "<p>Creates a new version of the specified grant. For more information, see\n Granted licenses in License Manager in the <i>License Manager User Guide</i>.</p>"
 }
},
"com.amazonaws.licensemanager#CreateGrantVersionRequest": {
 "type": "structure",
 "members": {
 "ClientToken": {
 "target": "com.amazonaws.licensemanager#ClientToken",
 "traits": {
 "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
 "smithy.api#required": {}
 }
 },
 "GrantArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
 "smithy.api#required": {}
 }
 },
 "GrantName": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Grant name.</p>"
 }
 },
 "AllowedOperations": {
 "target": "com.amazonaws.licensemanager#AllowedOperationList",
 "traits": {
 "smithy.api#documentation": "<p>Allowed operations for the grant.</p>"
 }
 },
 "Status": {
 "target": "com.amazonaws.licensemanager#GrantStatus",
 "traits": {
 "smithy.api#documentation": "<p>Grant status.</p>"
 }
 },
 "StatusReason": {
 "target": "com.amazonaws.licensemanager#StatusReasonMessage",
 "traits": {

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 "smithy.api#documentation": "<p>Grant status reason.</p>"
 }
},
"SourceVersion": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Current version of the grant.</p>"
 }
},
"Options": {
 "target": "com.amazonaws.licensemanager#Options",
 "traits": {
 "smithy.api#documentation": "<p>The options specified for the grant.</p>"
 }
}
},
"traits": {
 "smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateGrantVersionResponse": {
 "type": "structure",
 "members": {
 "GrantArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>Grant ARN.</p>"
 }
 },
 "Status": {
 "target": "com.amazonaws.licensemanager#GrantStatus",
 "traits": {
 "smithy.api#documentation": "<p>Grant status.</p>"
 }
 },
 "Version": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>New version of the grant.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#CreateLicense": {
 "type": "operation",

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"input": {
 "target": "com.amazonaws.licensemanager#CreateLicenseRequest"
},
"output": {
 "target": "com.amazonaws.licensemanager#CreateLicenseResponse"
},
"errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#RedirectException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
"traits": {
 "smithy.api#documentation": "<p>Creates a license.</p>"
}
},
"com.amazonaws.licensemanager#CreateLicenseConfiguration": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#CreateLicenseConfigurationRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#CreateLicenseConfigurationResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 }
]
}

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 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Creates a license configuration.</p>\n <p>A license configuration is an abstraction of a customer license agreement that can be\n consumed and enforced by License Manager. Components include specifications for the license\n type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n Dedicated Instance, Dedicated Host, or all of these), license affinity to host (how long a \n license must be associated with a host), and the number of licenses purchased and used.</p>"
 }
},
"com.amazonaws.licensemanager#CreateLicenseConfigurationRequest": {
 "type": "structure",
 "members": {
 "Name": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Name of the license configuration.</p>",
 "smithy.api#required": {}
 }
 },
 "Description": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Description of the license configuration.</p>"
 }
 },
 "LicenseCountingType": {
 "target": "com.amazonaws.licensemanager#LicenseCountingType",
 "traits": {
 "smithy.api#documentation": "<p>Dimension used to track the license inventory.</p>",
 "smithy.api#required": {}
 }
 }
 },
 "LicenseCount": {

```



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 "target": "com.amazonaws.licensemanager#BoxLong",
 "traits": {
 "smithy.api#documentation": "<p>Number of licenses managed by the license configuration.</p>"
 }
 },
 "LicenseCountHardLimit": {
 "target": "com.amazonaws.licensemanager#BoxBoolean",
 "traits": {
 "smithy.api#documentation": "<p>Indicates whether hard or soft license enforcement is used. Exceeding a hard limit\n blocks the launch of new instances.</p>"
 }
 },
 "LicenseRules": {
 "target": "com.amazonaws.licensemanager#StringList",
 "traits": {
 "smithy.api#documentation": "<p>License rules. The syntax is #name=value (for example, #allowedTenancy=EC2-DedicatedHost). The available rules \n vary by dimension, as follows.</p>\n \n \n <p>\n <code>Cores</code> dimension: <code>allowedTenancy</code> |\n <code>licenseAffinityToHost</code> |\n <code>maximumCores</code> |\n <code>minimumCores</code>\n </p>\n \n \n <p>\n <code>Instances</code> dimension:\n <code>allowedTenancy</code> | \n <code>maximumCores</code> | <code>minimumCores</code> |\n <code>maximumSockets</code> | <code>minimumSockets</code> |\n <code>maximumVcpus</code> | <code>minimumVcpus</code>\n </p>\n \n \n <p>\n <code>Sockets</code> dimension: <code>allowedTenancy</code> | \n <code>licenseAffinityToHost</code> |\n <code>maximumSockets</code> |\n <code>minimumSockets</code>\n </p>\n \n \n <p>\n <code>vCPUs</code> dimension: <code>allowedTenancy</code> | \n <code>honorVcpuOptimization</code> | \n <code>maximumVcpus</code> |\n <code>minimumVcpus</code>\n </p>\n \n \n <p>The unit for <code>licenseAffinityToHost</code> is days and the range is 1 to 180. The possible \n values for <code>allowedTenancy</code> are <code>EC2-Default</code>, <code>EC2-DedicatedHost</code>, and \n <code>EC2-DedicatedInstance</code>. The possible values for <code>honorVcpuOptimization</code> are \n <code>True</code> and <code>False</code>.</p>"
 }
 },
 "Tags": {
 "target": "com.amazonaws.licensemanager#TagList",
 "traits": {
 "smithy.api#documentation": "<p>Tags to add to the license configuration.</p>"
 }
 },
 "DisassociateWhenNotFound": {
 "target": "com.amazonaws.licensemanager#BoxBoolean",
 "traits": {
 "smithy.api#documentation": "<p>When true, disassociates a resource when software is uninstalled.</p>"
 }
 }
}

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 }
 },
 "ProductInformationList": {
 "target": "com.amazonaws.licensemanager#ProductInformationList",
 "traits": {
 "smithy.api#documentation": "<p>Product information.</p>"
 }
 }
},
"traits": {
 "smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseConfigurationResponse": {
 "type": "structure",
 "members": {
 "LicenseConfigurationArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource":
{
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 }
]
}

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 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Creates a new license conversion task.</p>"
 }
},
"com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest": {
 "type": "structure",
 "members": {
 "ResourceArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource you are converting
the license type for.</p>",
 "smithy.api#required": {}
 }
 },
 "SourceLicenseContext": {
 "target": "com.amazonaws.licensemanager#LicenseConversionContext",
 "traits": {
 "smithy.api#documentation":
 "<p>Information that identifies the license type you are converting from. \n\n For the structure of the source
license, see <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/conversion-
procedures.html#conversion-cli\">Convert a license type using the CLI in the <i>License Manager User
Guide</i>.</p>",
 "smithy.api#required": {}
 }
 },
 "DestinationLicenseContext": {
 "target": "com.amazonaws.licensemanager#LicenseConversionContext",
 "traits": {
 "smithy.api#documentation": "<p>Information that identifies the license type you are converting to.
For the structure of the destination license, see <a href=\"https://docs.aws.amazon.com/license-
manager/latest/userguide/conversion-procedures.html#conversion-cli\">Convert a license type using the CLI in
the <i>License Manager User Guide</i>.</p>",
 "smithy.api#required": {}
 }
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
}

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 }
 },
 "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse": {
 "type": "structure",
 "members": {
 "LicenseConversionTaskId": {
 "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
 "traits": {
 "smithy.api#documentation": "<p>The ID of the created license type conversion task.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
 },
 "com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
]
 }
}

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 }
],
 "traits": {
 "smithy.api#documentation": "<p>Creates a report generator.</p>"
 }
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest": {
 "type": "structure",
 "members": {
 "ReportGeneratorName": {
 "target": "com.amazonaws.licensemanager#ReportGeneratorName",
 "traits": {
 "smithy.api#documentation": "<p>Name of the report generator.</p>",
 "smithy.api#required": {}
 }
 },
 "Type": {
 "target": "com.amazonaws.licensemanager#ReportTypeList",
 "traits": {
 "smithy.api#documentation": "<p>Type of reports to generate. The following report types an be generated:</p>\n \n \n <p>License configuration report - Reports the number and details of consumed licenses for a license configuration.</p>\n \n \n <p>Resource report - Reports the tracked licenses and resource consumption for a license configuration.</p>\n \n ",
 "smithy.api#required": {}
 }
 },
 "ReportContext": {
 "target": "com.amazonaws.licensemanager#ReportContext",
 "traits": {
 "smithy.api#documentation": "<p>Defines the type of license configuration the report generator tracks.</p>",
 "smithy.api#required": {}
 }
 },
 "ReportFrequency": {
 "target": "com.amazonaws.licensemanager#ReportFrequency",
 "traits": {
 "smithy.api#documentation": "<p>Frequency by which reports are generated. Reports can be generated daily, monthly, or weekly.</p>",
 "smithy.api#required": {}
 }
 },
 "ClientToken": {
 "target": "com.amazonaws.licensemanager#ClientRequestToken",
 "traits": {
 "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the

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idempotency of the request.</p>",
 "smithy.api#required": {}
 }
},
"Description": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Description of the report generator.</p>"
 }
},
"Tags": {
 "target": "com.amazonaws.licensemanager#TagList",
 "traits": {
 "smithy.api#documentation": "<p>Tags to add to the report generator.</p>"
 }
}
},
"traits": {
 "smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse": {
 "type": "structure",
 "members": {
 "LicenseManagerReportGeneratorArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the new report
generator.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#CreateLicenseRequest": {
 "type": "structure",
 "members": {
 "LicenseName": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>License name.</p>",
 "smithy.api#required": {}
 }
 },
 "ProductName": {

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 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Product name.</p>",
 "smithy.api#required": {}
 }
 },
 "ProductSKU": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Product SKU.</p>",
 "smithy.api#required": {}
 }
 },
 "Issuer": {
 "target": "com.amazonaws.licensemanager#Issuer",

"traits": {
 "smithy.api#documentation": "<p>License issuer.</p>",
 "smithy.api#required": {}
}
},
"HomeRegion": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Home Region for the license.</p>",
 "smithy.api#required": {}
 }
},
"Validity": {
 "target": "com.amazonaws.licensemanager#DatetimeRange",
 "traits": {
 "smithy.api#documentation": "<p>Date and time range during which the license is valid, in ISO8601-
UTC format.</p>",
 "smithy.api#required": {}
 }
},
"Entitlements": {
 "target": "com.amazonaws.licensemanager#EntitlementList",
 "traits":
{
 "smithy.api#documentation": "<p>License entitlements.</p>",
 "smithy.api#required": {}
}
},
"Beneficiary": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>License beneficiary.</p>",

```

```

 "smithy.api#required": {}
 },
 "ConsumptionConfiguration": {
 "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
 "traits": {
 "smithy.api#documentation": "<p>Configuration for consumption of the license. Choose a provisional configuration for workloads\n running with continuous connectivity. Choose a borrow configuration for workloads with offline\n usage.</p>",
 "smithy.api#required": {}
 }
 },
 "LicenseMetadata": {
 "target": "com.amazonaws.licensemanager#MetadataList",
 "traits": {
 "smithy.api#documentation": "<p>Information about the license.</p>"
 }
 },
 "ClientToken": {
 "target": "com.amazonaws.licensemanager#ClientToken",
 "traits": {
 "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
 "smithy.api#required": {}
 }
 },
 "traits": {
 "smithy.api#input": {}
 },
 "com.amazonaws.licensemanager#CreateLicenseResponse": {
 "type": "structure",
 "members": {
 "LicenseArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
 }
 },
 "Status": {
 "target": "com.amazonaws.licensemanager#LicenseStatus",
 "traits": {
 "smithy.api#documentation": "<p>License status.</p>"
 }
 },
 "Version": {

```



```

 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>License version.</p>"
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#CreateLicenseVersion": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#CreateLicenseVersionRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#CreateLicenseVersionResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#ConflictException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#RedirectException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 }
],
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
"traits": {
 "smithy.api#documentation": "<p>Creates a new version of the specified license.</p>"
}

```

```

 },
 "com.amazonaws.licensemanager#CreateLicenseVersionRequest": {
 "type": "structure",
 "members": {
 "LicenseArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
 "smithy.api#required": {}
 }
 },
 "LicenseName": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>License name.</p>",
 "smithy.api#required": {}
 }
 },
 "ProductName": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Product name.</p>",
 "smithy.api#required": {}
 }
 },
 "Issuer": {
 "target": "com.amazonaws.licensemanager#Issuer",
 "traits": {
 "smithy.api#documentation": "<p>License issuer.</p>",
 "smithy.api#required": {}
 }
 },
 "HomeRegion": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Home Region of the license.</p>",
 "smithy.api#required": {}
 }
 },
 "Validity": {
 "target": "com.amazonaws.licensemanager#DatetimeRange",
 "traits": {
 "smithy.api#documentation": "<p>Date and time range during which the license is valid, in ISO8601-UTC format.</p>",
 "smithy.api#required": {}
 }
 }
 }
 }
 }
}

```

```

 },
 "LicenseMetadata": {
 "target": "com.amazonaws.licensemanager#MetadataList",
 "traits": {
 "smithy.api#documentation": "<p>Information about the license.</p>"
 }
 },
 "Entitlements": {
 "target": "com.amazonaws.licensemanager#EntitlementList",
 "traits": {
 "smithy.api#documentation": "<p>License entitlements.</p>",
 "smithy.api#required": {}
 }
 },
 "ConsumptionConfiguration": {
 "target":
"com.amazonaws.licensemanager#ConsumptionConfiguration",
 "traits": {
 "smithy.api#documentation": "<p>Configuration for consumption of the license. Choose a provisional
configuration for workloads\n running with continuous connectivity. Choose a borrow configuration for
workloads with offline\n usage.</p>",
 "smithy.api#required": {}
 }
 },
 "Status": {
 "target": "com.amazonaws.licensemanager#LicenseStatus",
 "traits": {
 "smithy.api#documentation": "<p>License status.</p>",
 "smithy.api#required": {}
 }
 },
 "ClientToken": {
 "target": "com.amazonaws.licensemanager#ClientToken",
 "traits": {
 "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you
provide to ensure the idempotency of the request.</p>",
 "smithy.api#required": {}
 }
 },
 "SourceVersion": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Current version of the license.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
}

```

```

 }
 },
 "com.amazonaws.licensemanager#CreateLicenseVersionResponse": {
 "type": "structure",
 "members": {
 "LicenseArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>License ARN.</p>"
 }
 },
 "Version": {
 "target": "com.amazonaws.licensemanager#String",

 "traits": {
 "smithy.api#documentation": "<p>New version of the license.</p>"
 }
 },
 "Status": {
 "target": "com.amazonaws.licensemanager#LicenseStatus",
 "traits": {
 "smithy.api#documentation": "<p>License status.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
 },
 "com.amazonaws.licensemanager#CreateToken": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#CreateTokenRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#CreateTokenResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 }
]
 }
}

```

```

 {
 "target": "com.amazonaws.licensemanager#RedirectException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Creates a long-lived token.</p>\n <p>A refresh token is a JWT token used to get an access token. With an access token,\n you can call AssumeRoleWithWebIdentity to get role credentials that you can use to \n call License Manager to manage the specified license.</p>"
 },
 "com.amazonaws.licensemanager#CreateTokenRequest": {
 "type": "structure",
 "members": {
 "LicenseArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license. The ARN is mapped to the aud claim of the\n JWT token.</p>",
 "smithy.api#required": {}
 }
 },
 "RoleArns": {
 "target": "com.amazonaws.licensemanager#ArnList",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the IAM roles to embed in the token. \n License Manager does not check whether the roles are in use.</p>"
 }
 },
 "ExpirationInDays": {
 "target": "com.amazonaws.licensemanager#Integer",
 "traits": {
 "smithy.api#documentation": "<p>Token expiration, in days, counted from token creation. The default is 365 days.</p>"
 }
 }
 }
 }
}

```

```

 },
 "TokenProperties": {
 "target": "com.amazonaws.licensemanager#MaxSize3StringList",
 "traits": {
 "smithy.api#documentation": "<p>Data specified by the caller to be included in the JWT token. The
data is mapped\n to the amr claim of the JWT token.</p>"
 }
 },
 "ClientToken": {
 "target": "com.amazonaws.licensemanager#ClientToken",
 "traits": {
 "smithy.api#documentation":
"<p>Idempotency token, valid for 10 minutes.</p>",
 "smithy.api#required": {}
 }
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
},
"com.amazonaws.licensemanager#CreateTokenResponse": {
 "type": "structure",
 "members": {
 "TokenId": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token ID.</p>"
 }
 },
 "TokenType": {
 "target": "com.amazonaws.licensemanager#TokenType",
 "traits": {
 "smithy.api#documentation": "<p>Token type.</p>"
 }
 }
 },
 "Token": {
 "target": "com.amazonaws.licensemanager#TokenString",
 "traits": {
 "smithy.api#documentation": "<p>Refresh token, encoded as a JWT token.</p>"
 }
 }
},
"traits": {
 "smithy.api#output": {}
}
},

```

```

"com.amazonaws.licensemanager#DateTime": {
 "type": "timestamp"
},
"com.amazonaws.licensemanager#DatetimeRange": {
 "type": "structure",
 "members": {
 "Begin": {
 "target": "com.amazonaws.licensemanager#ISO8601DateTime",
 "traits": {
 "smithy.api#documentation": "<p>Start of the time range.</p>",
 "smithy.api#required": {}
 }
 },
 "End": {
 "target": "com.amazonaws.licensemanager#ISO8601DateTime",
 "traits": {
 "smithy.api#documentation": "<p>End of the time range.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>Describes a time range, in ISO8601-UTC format.</p>"
 }
},
"com.amazonaws.licensemanager#DeleteGrant": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#DeleteGrantRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#DeleteGrantResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
 }
]
}

```

```

 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Deletes the specified grant.</p>"
 }
},
"com.amazonaws.licensemanager#DeleteGrantRequest": {
 "type": "structure",
 "members": {
 "GrantArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
 "smithy.api#required": {}
 }
 },
 "StatusReason": {
 "target": "com.amazonaws.licensemanager#StatusReasonMessage",
 "traits": {
 "smithy.api#documentation": "<p>The Status reason for the delete request.</p>"
 }
 }
 },
 "Version": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Current version of the grant.</p>",
 "smithy.api#required": {}
 }
 }
},
"traits": {
 "smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#DeleteGrantResponse": {
 "type": "structure",
 "members": {
 "GrantArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>Grant ARN.</p>"
 }
 }
 }
}

```



```

 }
 },
 "Status": {
 "target": "com.amazonaws.licensemanager#GrantStatus",
 "traits": {
 "smithy.api#documentation": "<p>Grant status.</p>"
 }
 },
 "Version": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Grant version.</p>"
 }
 }
},
"traits": {
 "smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#DeleteLicense": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#DeleteLicenseRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#DeleteLicenseResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#ConflictException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#RedirectException"
 },
 {

```

```

 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
"traits": {

 "smithy.api#documentation": "<p>Deletes the specified license.</p>"
}
},
"com.amazonaws.licensemanager#DeleteLicenseConfiguration": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Deletes the specified license configuration.</p>\n <p>You cannot delete a license configuration that is in use.</p>"
 }
},
"com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest": {
 "type": "structure",
 "members": {
 "LicenseConfigurationArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {

```

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 "smithy.api#documentation": "<p>ID of the license configuration.</p>",
 "smithy.api#required": {}
 }
}
},
"traits": {
 "smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse": {
"type": "structure",
 "members": {},
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {

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 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
"traits": {
 "smithy.api#documentation": "<p>Deletes the specified report generator.</p>\n <p>This action
deletes the report generator, which stops it from generating future reports.\n The action cannot be reversed. It
has no effect on the previous reports from this generator.</p>"
}
},
"com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest": {

"type": "structure",
 "members": {
 "LicenseManagerReportGeneratorArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator to be
deleted.</p>",
 "smithy.api#required": {}
 }
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
},
"com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse": {
 "type": "structure",
 "members": {},
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#DeleteLicenseRequest": {
 "type": "structure",
 "members": {
 "LicenseArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits":
{
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
 "smithy.api#required": {}
 }
 }
 },
 "SourceVersion": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Current version of the license.</p>",

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```

 "smithy.api#required": {}
 }
}
},
"traits": {
 "smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#DeleteLicenseResponse": {
 "type": "structure",
 "members": {
 "Status": {
 "target": "com.amazonaws.licensemanager#LicenseDeletionStatus",
 "traits": {
 "smithy.api#documentation": "<p>License status.</p>"
 }
 }
 },
 "DeletionDate": {
 "target": "com.amazonaws.licensemanager#ISO8601DateTime",
 "traits": {
 "smithy.api#documentation": "<p>Date when the license is deleted.</p>"
 }
 }
},
"traits": {
 "smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#DeleteToken": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#DeleteTokenRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#DeleteTokenResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 }
],
}

```

```

 {
 "target": "com.amazonaws.licensemanager#RedirectException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Deletes the specified token. Must be called in the license home
Region.</p>"
 }
},
"com.amazonaws.licensemanager#DeleteTokenRequest": {
 "type": "structure",
 "members": {
 "TokenId": {
 "target": "com.amazonaws.licensemanager#String",

"traits": {
 "smithy.api#documentation": "<p>Token ID.</p>",
 "smithy.api#required": {}
}
}
},
"traits": {
 "smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#DeleteTokenResponse": {
 "type": "structure",
 "members": {},
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#DigitalSignatureMethod": {
 "type": "enum",
 "members": {
 "JWT_PS384": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "JWT_PS384"
 }
 }
 }
}

```

```

 }
 }
},
"com.amazonaws.licensemanager#Entitlement": {
 "type": "structure",
 "members": {
 "Name": {

 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Entitlement name.</p>",
 "smithy.api#required": {}
 }
 },
 "Value": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Entitlement resource. Use only if the unit is None.</p>"
 }
 },
 "MaxCount": {
 "target": "com.amazonaws.licensemanager#Long",
 "traits": {
 "smithy.api#documentation": "<p>Maximum entitlement count. Use if the unit is not None.</p>"
 }
 },
 "Overage": {
 "target": "com.amazonaws.licensemanager#BoxBoolean",
 "traits": {
 "smithy.api#documentation":
"<p>Indicates whether overages are allowed.</p>"
 }
 },
 "Unit": {
 "target": "com.amazonaws.licensemanager#EntitlementUnit",
 "traits": {
 "smithy.api#documentation": "<p>Entitlement unit.</p>",
 "smithy.api#required": {}
 }
 },
 "AllowCheckIn": {
 "target": "com.amazonaws.licensemanager#BoxBoolean",
 "traits": {
 "smithy.api#documentation": "<p>Indicates whether check-ins are allowed.</p>"
 }
 }
 }
},

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```

 "traits": {
 "smithy.api#documentation": "<p>Describes a resource entitled for use with a license.</p>"
 }
 },
 "com.amazonaws.licensemanager#EntitlementData": {
 "type": "structure",
 "members": {
 "Name": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Entitlement data name.</p>",
 "smithy.api#required": {}
 }
 },
 "Value": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Entitlement data value.</p>"
 }
 },
 "Unit": {
 "target": "com.amazonaws.licensemanager#EntitlementDataUnit",
 "traits": {
 "smithy.api#documentation": "<p>Entitlement data unit.</p>",
 "smithy.api#required": {}
 }
 }
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>Data associated with an entitlement resource.</p>"
 }
},
"com.amazonaws.licensemanager#EntitlementDataList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#EntitlementData"
 }
},
"com.amazonaws.licensemanager#EntitlementDataUnit": {
 "type": "enum",
 "members": {
 "COUNT": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Count"
 }
 }
 }
}

```



```

},
"NONE": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "None"
 }
},
"SECONDS": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Seconds"
 }
},
"MICROSECONDS": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Microseconds"
 }
},
"MILLISECONDS": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Milliseconds"
 }
},
"BYTES": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Bytes"
 }
},
"KILOBYTES": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Kilobytes"
 }
},
"MEGABYTES": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Megabytes"
 }
}
},
"GIGABYTES": {
 "target": "smithy.api#Unit",
 "traits": {

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 "smithy.api#enumValue": "Gigabytes"
 }
},
"TERABYTES": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Terabytes"
 }
},
"BITS": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Bits"
 }
},
"KILOBITS": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Kilobits"
 }
},
"MEGABITS": {
 "target": "smithy.api#Unit",
 "traits": {
"smithy.api#enumValue": "Megabits"
 }
},
"GIGABITS": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Gigabits"
 }
},
"TERABITS": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Terabits"
 }
},
"PERCENT": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Percent"
 }
},
"BYTES_PER_SECOND": {
 "target": "smithy.api#Unit",

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 "traits": {
 "smithy.api#enumValue": "Bytes/Second"
 }
 },
 "KILOBYTES_PER_SECOND": {
 "target":
"smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Kilobytes/Second"
 }
 },
 "MEGABYTES_PER_SECOND": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Megabytes/Second"
 }
 },
 "GIGABYTES_PER_SECOND": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Gigabytes/Second"
 }
 },
 "TERABYTES_PER_SECOND": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Terabytes/Second"
 }
 },
 "BITS_PER_SECOND": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue":
"Bits/Second"
 }
 },
 "KILOBITS_PER_SECOND": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Kilobits/Second"
 }
 },
 "MEGABITS_PER_SECOND": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Megabits/Second"
 }
 },

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 "GIGABITS_PER_SECOND": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Gigabits/Second"
 }
 },
 "TERABITS_PER_SECOND": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Terabits/Second"
 }
 },
 "COUNT_PER_SECOND": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Count/Second"
 }
 }
 },
 "com.amazonaws.licensemanager#EntitlementList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#Entitlement"
 }
 },
 "com.amazonaws.licensemanager#EntitlementNotAllowedException": {
 "type": "structure",
 "members": {
 "Message": {
 "target": "com.amazonaws.licensemanager#Message"
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>The entitlement is not allowed.</p>",
 "smithy.api#error": "client",
 "smithy.api#httpError": 400
 }
 },
 "com.amazonaws.licensemanager#EntitlementUnit": {
 "type": "enum",
 "members": {
 "COUNT": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Count"
 }
 }
 }
 }
}

```

```

 }
 },
 "NONE": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "None"
 }
 },
 "SECONDS": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Seconds"
 }
 },
 "MICROSECONDS": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Microseconds"
 }
 },
 "MILLISECONDS": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Milliseconds"
 }
 },
 "BYTES": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Bytes"
 }
 },
 "KILOBYTES": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Kilobytes"
 }
 },
 "MEGABYTES": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Megabytes"
 }
 },
 "GIGABYTES": {
 "target": "smithy.api#Unit",
 "traits": {

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 "smithy.api#enumValue": "Gigabytes"
 }
},
"TERABYTES": {
 "target":
"smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Terabytes"
 }
},
"BITS": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Bits"
 }
},
"KILOBITS": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Kilobits"
 }
},
"MEGABITS": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Megabits"
 }
},
"GIGABITS": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Gigabits"
 }
},

"TERABITS": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Terabits"
 }
},
"PERCENT": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Percent"
 }
},
"BYTES_PER_SECOND": {

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 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Bytes/Second"
 }
 },
 "KILOBYTES_PER_SECOND": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Kilobytes/Second"
 }
 },
 "MEGABYTES_PER_SECOND": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Megabytes/Second"
 }
 },
 "GIGABYTES_PER_SECOND": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Gigabytes/Second"
 }
 },
 "TERABYTES_PER_SECOND": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Terabytes/Second"
 }
 },
 "BITS_PER_SECOND": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Bits/Second"
 }
 },
 "KILOBITS_PER_SECOND": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Kilobits/Second"
 }
 },
 "MEGABITS_PER_SECOND": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Megabits/Second"
 }
 }
},

```

```

 },
 "GIGABITS_PER_SECOND": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Gigabits/Second"
 }
 },
 "TERABITS_PER_SECOND": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Terabits/Second"
 }
 },
 "COUNT_PER_SECOND": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Count/Second"
 }
 }
 }
},
"com.amazonaws.licensemanager#EntitlementUsage": {
 "type": "structure",
 "members": {
 "Name": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Entitlement usage name.</p>",
 "smithy.api#required": {}
 }
 },
 "ConsumedValue": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Resource usage consumed.</p>",
 "smithy.api#required": {}
 }
 },
 "MaxCount": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Maximum entitlement usage count.</p>"
 }
 },
 "Unit": {
 "target": "com.amazonaws.licensemanager#EntitlementDataUnit",
 "traits": {
 "smithy.api#documentation": "<p>Entitlement usage unit.</p>",

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 "smithy.api#required": {}
 }
}
},
"traits": {
 "smithy.api#documentation": "<p>Usage associated with an entitlement resource.</p>"
}
},
"com.amazonaws.licensemanager#EntitlementUsageList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#EntitlementUsage"
 }
},
"com.amazonaws.licensemanager#ExtendLicenseConsumption": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse"
 }
},

"errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
"traits": {
 "smithy.api#documentation": "<p>Extends the expiration date for license

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consumption.</p>"
 }
},
"com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest": {
 "type": "structure",
 "members": {
 "LicenseConsumptionToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>License consumption token.</p>",
 "smithy.api#required": {}
 }
 },
 "DryRun": {
 "target": "com.amazonaws.licensemanager#Boolean",
 "traits": {
 "smithy.api#default": false,
 "smithy.api#documentation": "<p>Checks whether you have the required permissions for the action, without actually making the request. Provides an error response if you do not have the required permissions.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
},
"com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse": {
 "type": "structure",
 "members": {
 "LicenseConsumptionToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>License consumption token.</p>"
 }
 },
 "Expiration": {
 "target": "com.amazonaws.licensemanager#ISO8601DateTime",
 "traits": {
 "smithy.api#documentation": "<p>Date and time at which the license consumption expires.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#FailedDependencyException": {
 "type": "structure",

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"members": {
 "Message": {
 "target": "com.amazonaws.licensemanager#Message"
 },
 "ErrorCode": {
 "target": "com.amazonaws.licensemanager#String"
 }
},
"traits": {
 "aws.protocols#awsQueryError": {
 "code": "FailedDependency",
 "httpResponseCode": 424
 },
 "smithy.api#documentation": "<p>A dependency required to run the API is missing.</p>",
 "smithy.api#error": "client",
 "smithy.api#httpError": 424
}
},
"com.amazonaws.licensemanager#Filter": {
 "type": "structure",
 "members": {
 "Name": {
 "target": "com.amazonaws.licensemanager#FilterName",
 "traits": {
 "smithy.api#documentation": "<p>Name of the filter. Filter names are case-sensitive.</p>"
 }
 },
 "Values": {
 "target": "com.amazonaws.licensemanager#FilterValues",
 "traits": {
 "smithy.api#documentation": "<p>The value of the filter, which is case-sensitive. You can only specify one value for the filter.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>A filter name and value pair that is used to return more specific results from a\n describe operation. Filters can be used to match a set of resources by specific criteria,\n such as tags, attributes, or IDs.</p>"
 }
},
"com.amazonaws.licensemanager#FilterLimitExceededException": {
 "type": "structure",
 "members": {
 "Message": {
 "target": "com.amazonaws.licensemanager#Message"
 }
 },
}

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 "traits":
 {
 "aws.protocols#awsQueryError": {
 "code": "FilterLimitExceeded",
 "httpResponseCode": 400
 },
 "smithy.api#documentation": "<p>The request uses too many filters or too many filter values.</p>",
 "smithy.api#error": "client",
 "smithy.api#httpError": 400
 }
},
"com.amazonaws.licensemanager#FilterList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#Filter"
 }
},
"com.amazonaws.licensemanager#FilterName": {
 "type": "string"
},
"com.amazonaws.licensemanager#FilterValue": {
 "type": "string"
},
"com.amazonaws.licensemanager#FilterValues": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#FilterValue",
 "traits": {
 "smithy.api#xmlName": "item"
 }
 }
},
"com.amazonaws.licensemanager#Filters": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#Filter",
 "traits": {
 "smithy.api#xmlName": "item"
 }
 }
},
"com.amazonaws.licensemanager#GetAccessToken": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#GetAccessTokenRequest"
 },
 "output": {

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 "target": "com.amazonaws.licensemanager#GetAccessTokenResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target":
"com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Gets a temporary access token to use with
AssumeRoleWithWebIdentity. Access tokens\n are valid for one hour.</p>"
 }
},
"com.amazonaws.licensemanager#GetAccessTokenRequest": {
 "type": "structure",
 "members": {
 "Token": {
 "target": "com.amazonaws.licensemanager#TokenString",
 "traits": {
 "smithy.api#documentation": "<p>Refresh token, encoded as a JWT token.</p>",
 "smithy.api#required": {}
 }
 },
 "TokenProperties": {
 "target": "com.amazonaws.licensemanager#MaxSize3StringList",
 "traits": {
 "smithy.api#documentation": "<p>Token properties to validate against those present in the JWT
token.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
},
"com.amazonaws.licensemanager#GetAccessTokenResponse": {

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"type": "structure",
"members": {
 "AccessToken": {
 "target": "com.amazonaws.licensemanager#TokenString",
 "traits": {
 "smithy.api#documentation": "<p>Temporary access token.</p>"
 }
 }
},
"traits": {
 "smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#GetGrant": {
 "type": "operation",

 "input": {
 "target": "com.amazonaws.licensemanager#GetGrantRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#GetGrantResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 }
],
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
"traits": {
 "smithy.api#documentation": "<p>Gets detailed information about the specified grant.</p>"
}

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```

 }
 },
 "com.amazonaws.licensemanager#GetGrantRequest": {
 "type": "structure",
 "members": {
 "GrantArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
 "smithy.api#required": {}
 }
 },
 },
 "Version": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Grant version.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
},
"com.amazonaws.licensemanager#GetGrantResponse": {
 "type": "structure",
 "members": {
 "Grant": {
 "target": "com.amazonaws.licensemanager#Grant",
 "traits": {
 "smithy.api#documentation": "<p>Grant details.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#GetLicense": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#GetLicenseRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#GetLicenseResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 }
]
}

```

```

 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
"traits": {
 "smithy.api#documentation": "<p>Gets detailed information about the specified license.</p>"
}
},
"com.amazonaws.licensemanager#GetLicenseConfiguration": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#GetLicenseConfigurationRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#GetLicenseConfigurationResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 }
]
},

```



```

 "traits": {
 "smithy.api#documentation": "<p>Gets detailed information about the specified license
configuration.</p>"
 }
 },
 "com.amazonaws.licensemanager#GetLicenseConfigurationRequest":
 {
 "type": "structure",
 "members": {
 "LicenseConfigurationArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
 "smithy.api#required": {}
 }
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
 },
 "com.amazonaws.licensemanager#GetLicenseConfigurationResponse": {
 "type": "structure",
 "members": {
 "LicenseConfigurationId": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Unique ID for the license configuration.</p>"
 }
 },
 "LicenseConfigurationArn":
 {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
 }
 },
 "Name": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Name of the license configuration.</p>"
 }
 },
 "Description": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Description of the license configuration.</p>"
 }
 }
 }
 }
}

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 }
 },
 "LicenseCountingType": {
 "target": "com.amazonaws.licensemanager#LicenseCountingType",
 "traits": {
 "smithy.api#documentation":
"<p>Dimension for which the licenses are counted.</p>"
 }
 },
 "LicenseRules": {
 "target": "com.amazonaws.licensemanager#StringList",
 "traits": {
 "smithy.api#documentation": "<p>License rules.</p>"
 }
 },
 "LicenseCount": {
 "target": "com.amazonaws.licensemanager#BoxLong",
 "traits": {
 "smithy.api#documentation": "<p>Number of available licenses.</p>"
 }
 },
 "LicenseCountHardLimit": {
 "target": "com.amazonaws.licensemanager#BoxBoolean",
 "traits": {
 "smithy.api#documentation": "<p>Sets the number of available licenses as a hard limit.</p>"
 }
 },
 "ConsumedLicenses": {
 "target":
"com.amazonaws.licensemanager#BoxLong",
 "traits": {
 "smithy.api#documentation": "<p>Number of licenses assigned to resources.</p>"
 }
 },
 "Status": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>License configuration status.</p>"
 }
 },
 "OwnerAccountId": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Account ID of the owner of the license configuration.</p>"
 }
 },
 "ConsumedLicenseSummaryList": {
 "target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",

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 "traits": {
 "smithy.api#documentation": "<p>Summaries
of the licenses consumed by resources.</p>"
 }
 },
 "ManagedResourceSummaryList": {
 "target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
 "traits": {
 "smithy.api#documentation": "<p>Summaries of the managed resources.</p>"
 }
 },
 "Tags": {
 "target": "com.amazonaws.licensemanager#TagList",
 "traits": {
 "smithy.api#documentation": "<p>Tags for the license configuration.</p>"
 }
 },
 "ProductInformationList": {
 "target": "com.amazonaws.licensemanager#ProductInformationList",
 "traits": {
 "smithy.api#documentation": "<p>Product information.</p>"
 }
 },
 "AutomatedDiscoveryInformation":
{
 "target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
 "traits": {
 "smithy.api#documentation": "<p>Automated discovery information.</p>"
 }
 },
 "DisassociateWhenNotFound": {
 "target": "com.amazonaws.licensemanager#BoxBoolean",
 "traits": {
 "smithy.api#documentation": "<p>When true, disassociates a resource when software is
uninstalled.</p>"
 }
 }
},
 "traits": {
 "smithy.api#output": {}
 }
},
 "com.amazonaws.licensemanager#GetLicenseConversionTask": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#GetLicenseConversionTaskRequest"
 },
 "output": {

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 "target": "com.amazonaws.licensemanager#GetLicenseConversionTaskResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Gets information about the specified license type conversion task.</p>"
 }
},
"com.amazonaws.licensemanager#GetLicenseConversionTaskRequest": {
 "type": "structure",
 "members": {
 "LicenseConversionTaskId": {
 "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
 "traits": {
 "smithy.api#documentation": "<p>ID of the license type conversion task to retrieve information on.</p>",
 "smithy.api#required": {}
 }
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
},
"com.amazonaws.licensemanager#GetLicenseConversionTaskResponse": {
 "type": "structure",
 "members": {
 "LicenseConversionTaskId": {
 "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
 "traits": {
 "smithy.api#documentation": "<p>ID of the license type conversion task.</p>"
 }
 }
 },

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```

"ResourceArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Names (ARN) of the resources the license
conversion task is associated with.</p>"
 }
},
"SourceLicenseContext": {
 "target": "com.amazonaws.licensemanager#LicenseConversionContext",
 "traits": {
 "smithy.api#documentation": "<p>Information about the license type converted from.</p>"
 }
},
"DestinationLicenseContext": {
 "target": "com.amazonaws.licensemanager#LicenseConversionContext",
 "traits": {
 "smithy.api#documentation": "<p>Information about the license type converted to.</p>"
 }
},
"StatusMessage": {
 "target": "com.amazonaws.licensemanager#String",

"traits": {
 "smithy.api#documentation": "<p>The status message for the conversion task.</p>"
},
"Status": {
 "target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
 "traits": {
 "smithy.api#documentation": "<p>Status of the license type conversion task.</p>"
 }
},
"StartTime": {
 "target": "com.amazonaws.licensemanager#DateTime",
 "traits": {
 "smithy.api#documentation": "<p>Time at which the license type conversion task was started .</p>"
 }
},
"LicenseConversionTime": {
 "target": "com.amazonaws.licensemanager#DateTime",
 "traits": {
 "smithy.api#documentation": "<p>Amount of time to complete the license type
conversion.</p>"
 }
},
"EndTime": {
 "target": "com.amazonaws.licensemanager#DateTime",
 "traits": {

```

```

 "smithy.api#documentation": "<p>Time at which the license type conversion task was
completed.</p>"
 }
}
},
"traits": {
 "smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#GetLicenseManagerReportGenerator": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Gets information about the specified report generator.</p>"
 }
}
}

```

```

 }
 },
 "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest": {
 "type": "structure",
 "members": {
 "LicenseManagerReportGeneratorArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator.</p>",
 "smithy.api#required": {}
 }
 }
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
},
"com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse": {
 "type": "structure",
 "members": {
 "ReportGenerator": {
 "target": "com.amazonaws.licensemanager#ReportGenerator",
 "traits": {
 "smithy.api#documentation": "<p>A report generator that creates
periodic reports about your license configurations.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#GetLicenseRequest": {
 "type": "structure",
 "members": {
 "LicenseArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
 "smithy.api#required": {}
 }
 }
 },
 "Version": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>License version.</p>"
 }
 }
}

```

```

 },
 "traits": {
 "smithy.api#input": {}
 }
 },
 "com.amazonaws.licensemanager#GetLicenseResponse": {
 "type": "structure",
 "members": {
 "License": {
 "target": "com.amazonaws.licensemanager#License",
 "traits": {
 "smithy.api#documentation": "<p>License details.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
 },
 "com.amazonaws.licensemanager#GetLicenseUsage": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#GetLicenseUsageRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#GetLicenseUsageResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
]
 },

```



```

"traits": {
 "smithy.api#documentation": "<p>Gets detailed information about the usage of the specified license.</p>"
}
},
"com.amazonaws.licensemanager#GetLicenseUsageRequest": {
 "type": "structure",
 "members": {
 "LicenseArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
 "smithy.api#required": {}
 }
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
},
"com.amazonaws.licensemanager#GetLicenseUsageResponse": {
 "type": "structure",
 "members": {
 "LicenseUsage": {
 "target": "com.amazonaws.licensemanager#LicenseUsage",
 "traits": {
 "smithy.api#documentation": "<p>License usage details.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#GetServiceSettings": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#GetServiceSettingsRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#GetServiceSettingsResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 }
]
}

```

```

 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Gets the License Manager settings for the current Region.</p>"
 }
},
"com.amazonaws.licensemanager#GetServiceSettingsRequest": {
 "type": "structure",
 "members": {},
 "traits": {
 "smithy.api#input": {}
 }
},
"com.amazonaws.licensemanager#GetServiceSettingsResponse": {
 "type": "structure",
 "members": {
 "S3BucketArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Regional S3 bucket path for storing reports, license trail event data,
discovery data,\n and so on.</p>"
 }
 },
 "SnsTopicArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>SNS topic configured to receive notifications from License
Manager.</p>"
 }
 }
 },
 "OrganizationConfiguration": {
 "target": "com.amazonaws.licensemanager#OrganizationConfiguration",
 "traits": {
 "smithy.api#documentation":
"<p>Indicates whether Organizations is integrated with License Manager for\n cross-account discovery.</p>"
 }
 },
 "EnableCrossAccountsDiscovery": {
 "target": "com.amazonaws.licensemanager#BoxBoolean",
 "traits": {
 "smithy.api#documentation": "<p>Indicates whether cross-account discovery is enabled.</p>"
 }
 }
}

```

```

 },
 "LicenseManagerResourceShareArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource share. The License
Manager management account \n provides member accounts with access to this share.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
},

"com.amazonaws.licensemanager#Grant": {
 "type": "structure",
 "members": {
 "GrantArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
 "smithy.api#required": {}
 }
 },
 "GrantName": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Grant name.</p>",
 "smithy.api#required": {}
 }
 },
 "ParentArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>Parent ARN.</p>",
 "smithy.api#required": {}
 }
 }
 },
 "LicenseArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>License ARN.</p>",
 "smithy.api#required": {}
 }
 },
 "GranteePrincipalArn": {
 "target": "com.amazonaws.licensemanager#Arn",

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```

 "traits": {
 "smithy.api#documentation": "<p>The grantee principal ARN.</p>",
 "smithy.api#required": {}
 }
 },
 "HomeRegion": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Home Region of the grant.</p>",
 "smithy.api#required": {}
 }
 },
 "GrantStatus": {
 "target":
"com.amazonaws.licensemanager#GrantStatus",
 "traits": {
 "smithy.api#documentation": "<p>Grant status.</p>",
 "smithy.api#required": {}
 }
 },
 "StatusReason": {
 "target": "com.amazonaws.licensemanager#StatusReasonMessage",
 "traits": {
 "smithy.api#documentation": "<p>Grant status reason.</p>"
 }
 },
 "Version": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Grant version.</p>",
 "smithy.api#required": {}
 }
 },
 "GrantedOperations": {
 "target": "com.amazonaws.licensemanager#AllowedOperationList",
 "traits": {
 "smithy.api#documentation":
"<p>Granted operations.</p>",
 "smithy.api#required": {}
 }
 },
 "Options": {
 "target": "com.amazonaws.licensemanager#Options",
 "traits": {
 "smithy.api#documentation": "<p>The options specified for the grant.</p>"
 }
 }
},

```

```

 "traits": {
 "smithy.api#documentation": "<p>Describes a grant.</p>"
 }
 },
 "com.amazonaws.licensemanager#GrantList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#Grant"
 }
 },
 "com.amazonaws.licensemanager#GrantStatus": {
 "type": "enum",
 "members": {
 "PENDING_WORKFLOW": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue":
"PENDING_WORKFLOW"
 }
 },
 "PENDING_ACCEPT": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "PENDING_ACCEPT"
 }
 },
 "REJECTED": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "REJECTED"
 }
 },
 "ACTIVE": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "ACTIVE"
 }
 },
 "FAILED_WORKFLOW": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "FAILED_WORKFLOW"
 }
 },
 "DELETED": {
 "target":
"smithy.api#Unit",
 "traits": {

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 "smithy.api#enumValue": "DELETED"
 }
},
"PENDING_DELETE": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "PENDING_DELETE"
 }
},
"DISABLED": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "DISABLED"
 }
},
"WORKFLOW_COMPLETED": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "WORKFLOW_COMPLETED"
 }
}
},
"com.amazonaws.licensemanager#GrantedLicense": {
 "type": "structure",
 "members": {
 "LicenseArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
 }
 },
 "LicenseName": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>License name.</p>"
 }
 },
 "ProductName": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Product name.</p>"
 }
 },
 "ProductSKU": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {

```

```

 "smithy.api#documentation": "<p>Product SKU.</p>"
 }
},
"Issuer":
{
 "target": "com.amazonaws.licensemanager#IssuerDetails",
 "traits": {
 "smithy.api#documentation": "<p>Granted license issuer.</p>"
 }
},
"HomeRegion": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Home Region of the granted license.</p>"
 }
},
"Status": {
 "target": "com.amazonaws.licensemanager#LicenseStatus",
 "traits": {
 "smithy.api#documentation": "<p>Granted license status.</p>"
 }
},
"Validity": {
 "target": "com.amazonaws.licensemanager#DatetimeRange",
 "traits": {
 "smithy.api#documentation": "<p>Date and time range during which the
granted license is valid, in ISO8601-UTC format.</p>"
 }
},
"Beneficiary": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Granted license beneficiary.</p>"
 }
},
"Entitlements": {
 "target": "com.amazonaws.licensemanager#EntitlementList",
 "traits": {
 "smithy.api#documentation": "<p>License entitlements.</p>"
 }
},
"ConsumptionConfiguration": {
 "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
 "traits": {
 "smithy.api#documentation": "<p>Configuration for consumption of the license.</p>"
 }
},
"LicenseMetadata": {

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```

"target": "com.amazonaws.licensemanager#MetadataList",
 "traits": {
 "smithy.api#documentation": "<p>Granted license metadata.</p>"
 }
},
"CreateTime": {
 "target": "com.amazonaws.licensemanager#ISO8601DateTime",
 "traits": {
 "smithy.api#documentation": "<p>Creation time of the granted license.</p>"
 }
},
"Version": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Version of the granted license.</p>"
 }
},
"ReceivedMetadata": {
 "target": "com.amazonaws.licensemanager#ReceivedMetadata",
 "traits": {
 "smithy.api#documentation": "<p>Granted license received metadata.</p>"
 }
},
"traits": {
 "smithy.api#documentation": "<p>Describes a license that is granted to a grantee.</p>"
}
},
"com.amazonaws.licensemanager#GrantedLicenseList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#GrantedLicense"
 }
},
"com.amazonaws.licensemanager#ISO8601DateTime": {
 "type": "string",
 "traits": {
 "smithy.api#length": {
 "min": 0,
 "max": 50
 },
 "smithy.api#pattern": "^(-?(?:[1-9][0-9]*)?[0-9]{4})-(1[0-2]|0[1-9])-(3[0-1]|0[1-9]|[1-2][0-9])T(2[0-3]|[0-1][0-9]):([0-5][0-9]):([0-5][0-9])(\\.([0-9]+)?(?![+-])(?:2[0-3]|[0-1][0-9]):[0-5][0-9])+$"
 }
},
"com.amazonaws.licensemanager#Integer": {
 "type": "integer"
}

```



```

 },
 "com.amazonaws.licensemanager#InvalidParameterValueException":
 {
 "type": "structure",
 "members": {
 "Message": {
 "target": "com.amazonaws.licensemanager#Message"
 }
 },
 "traits": {
 "aws.protocols#awsQueryError": {
 "code": "InvalidParameterValueProvided",
 "httpResponseCode": 400
 },
 "smithy.api#documentation": "<p>One or more parameter values are not valid.</p>",
 "smithy.api#error": "client",
 "smithy.api#httpError": 400
 }
 },
 "com.amazonaws.licensemanager#InvalidResourceStateException": {
 "type": "structure",
 "members": {
 "Message": {
 "target": "com.amazonaws.licensemanager#Message"
 }
 },
 "traits": {
 "aws.protocols#awsQueryError": {

 "code": "InvalidResourceState",
 "httpResponseCode": 400
 },
 "smithy.api#documentation": "<p>License Manager cannot allocate a license to a resource because of its
state. </p>\n <p>For example, you cannot allocate a license to an instance in the process of shutting\n
down.</p>",
 "smithy.api#error": "client",
 "smithy.api#httpError": 400
 }
 },
 "com.amazonaws.licensemanager#InventoryFilter": {
 "type": "structure",
 "members": {
 "Name": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Name of the filter.</p>",
 "smithy.api#required": {}
 }
 }
 }
 }

```

```

 },
 "Condition": {
 "target": "com.amazonaws.licensemanager#InventoryFilterCondition",
 "traits": {
 "smithy.api#documentation": "<p>Condition of the filter.</p>",
 "smithy.api#required": {}
 }
 }
 },
 "Value": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Value of the filter.</p>"
 }
 }
},
"traits": {
 "smithy.api#documentation": "<p>An inventory filter.</p>"
}
},
"com.amazonaws.licensemanager#InventoryFilterCondition": {
 "type": "enum",
 "members": {
 "EQUALS": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "EQUALS"
 }
 },
 "NOT_EQUALS": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "NOT_EQUALS"
 }
 },
 "BEGINS_WITH": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "BEGINS_WITH"
 }
 },
 "CONTAINS": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "CONTAINS"
 }
 }
 }
}
},

```

```

"com.amazonaws.licensemanager#InventoryFilterList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#InventoryFilter"
 }
},
"com.amazonaws.licensemanager#Issuer": {
 "type": "structure",
 "members": {
 "Name": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Issuer name.</p>",
 "smithy.api#required": {}
 }
 },
 "SignKey": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Asymmetric KMS key from Key Management Service. The KMS
key must have a key usage of sign and verify, \n and support the RSASSA-PSS SHA-256 signing
algorithm.</p>"
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>Details about the issuer of a license.</p>"
 }
 },
"com.amazonaws.licensemanager#IssuerDetails": {
 "type": "structure",
 "members": {
 "Name": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Issuer name.</p>"
 }
 },
 "SignKey": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Asymmetric KMS key from Key Management Service. The KMS
key must have a key usage of sign and verify, \n and support the RSASSA-PSS SHA-256 signing
algorithm.</p>"
 }
 },
 "KeyFingerprint": {

```

```

 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Issuer key fingerprint.</p>"
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>Details associated with the issuer of a license.</p>"
 }
},
"com.amazonaws.licensemanager#License": {

"type": "structure",
"members": {
 "LicenseArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
 }
 },
 "LicenseName": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>License name.</p>"
 }
 },
 "ProductName": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Product name.</p>"
 }
 },
 "ProductSKU": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation":
"<p>Product SKU.</p>"
 }
 },
 "Issuer": {
 "target": "com.amazonaws.licensemanager#IssuerDetails",
 "traits": {
 "smithy.api#documentation": "<p>License issuer.</p>"
 }
 },
 "HomeRegion": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {

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```

 "smithy.api#documentation": "<p>Home Region of the license.</p>"
 }
},
"Status": {
 "target": "com.amazonaws.licensemanager#LicenseStatus",
 "traits": {
 "smithy.api#documentation": "<p>License status.</p>"
 }
},
"Validity": {
 "target": "com.amazonaws.licensemanager#DatetimeRange",
 "traits": {
 "smithy.api#documentation": "<p>Date and time range during which the license is valid, in ISO8601-UTC
format.</p>"
 }
},
"Beneficiary": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>License beneficiary.</p>"
 }
},
"Entitlements": {
 "target": "com.amazonaws.licensemanager#EntitlementList",
 "traits": {
 "smithy.api#documentation": "<p>License entitlements.</p>"
 }
},
"ConsumptionConfiguration": {
 "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
 "traits": {
 "smithy.api#documentation": "<p>Configuration for consumption of the license.</p>"
 }
},
},
"LicenseMetadata": {
 "target": "com.amazonaws.licensemanager#MetadataList",
 "traits": {
 "smithy.api#documentation": "<p>License metadata.</p>"
 }
},
"CreateTime": {
 "target": "com.amazonaws.licensemanager#ISO8601DateTime",
 "traits": {
 "smithy.api#documentation": "<p>License creation time.</p>"
 }
},
},

```

```

 "Version": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>License version.</p>"
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>Software license that is managed in License Manager.</p>"
 },
 "com.amazonaws.licensemanager#LicenseConfiguration":
 {
 "type": "structure",
 "members": {
 "LicenseConfigurationId": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Unique ID of the license configuration.</p>"
 }
 },
 "LicenseConfigurationArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
 }
 },
 "Name": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Name of the license configuration.</p>"
 }
 },
 "Description": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Description of the license configuration.</p>"
 }
 },
 "LicenseCountingType": {
 "target": "com.amazonaws.licensemanager#LicenseCountingType",
 "traits": {
 "smithy.api#documentation": "<p>Dimension to use to track the license inventory.</p>"
 }
 },
 "LicenseRules": {
 "target": "com.amazonaws.licensemanager#StringList",
 "traits": {

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```

 "smithy.api#documentation": "<p>License rules.</p>"
 }
},
"LicenseCount": {
 "target": "com.amazonaws.licensemanager#BoxLong",
 "traits": {
 "smithy.api#documentation": "<p>Number of licenses managed by the license
configuration.</p>"
 }
},
"LicenseCountHardLimit": {
 "target": "com.amazonaws.licensemanager#BoxBoolean",
 "traits": {
 "smithy.api#documentation": "<p>Number of available licenses as a hard limit.</p>"
 }
},
"DisassociateWhenNotFound": {
 "target": "com.amazonaws.licensemanager#BoxBoolean",
 "traits": {
 "smithy.api#documentation": "<p>When true, disassociates a resource when software is
uninstalled.</p>"
 }
},
"ConsumedLicenses": {
 "target": "com.amazonaws.licensemanager#BoxLong",
 "traits": {
 "smithy.api#documentation": "<p>Number of licenses consumed. </p>"
 }
},
"Status": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Status of the license configuration.</p>"
 }
},
"OwnerAccountId": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Account ID of the license configuration's owner.</p>"
 }
},
"ConsumedLicenseSummaryList": {
 "target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",
 "traits": {
 "smithy.api#documentation": "<p>Summaries for licenses consumed by various resources.</p>"
 }
},

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```

"ManagedResourceSummaryList": {
 "target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
 "traits":
{
 "smithy.api#documentation": "<p>Summaries for managed resources.</p>"
 },
 "ProductInformationList": {
 "target": "com.amazonaws.licensemanager#ProductInformationList",
 "traits": {
 "smithy.api#documentation": "<p>Product information.</p>"
 }
 },
 "AutomatedDiscoveryInformation": {
 "target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
 "traits": {
 "smithy.api#documentation": "<p>Automated discovery information.</p>"
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>A license configuration is an abstraction of a customer license agreement that can be consumed and enforced by License Manager. Components include specifications for the license type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, Dedicated Instance, Dedicated Host, or all of these), host affinity (how long a VM must be associated with a host), and the number of licenses purchased and used.</p>"
 },
 "com.amazonaws.licensemanager#LicenseConfigurationAssociation": {
 "type": "structure",
 "members": {
 "ResourceArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
 }
 },
 "ResourceType": {
 "target": "com.amazonaws.licensemanager#ResourceType",
 "traits": {
 "smithy.api#documentation": "<p>Type of server resource.</p>"
 }
 }
 }
 },
 "ResourceOwnerId": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {

```



```

 "smithy.api#documentation": "<p>ID of the Amazon Web Services account that owns the resource
consuming licenses.</p>"
 }
},
"AssociationTime": {
 "target": "com.amazonaws.licensemanager#DateTime",
 "traits": {
 "smithy.api#documentation": "<p>Time when the license configuration was associated with the
resource.</p>"
 }
},
"AmiAssociationScope": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Scope of AMI associations. The possible value is <code>cross-
account</code>.</p>"
 }
}
},
"traits": {
 "smithy.api#documentation": "<p>Describes an association with a license configuration.</p>"
}
},
"com.amazonaws.licensemanager#LicenseConfigurationAssociations": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#LicenseConfigurationAssociation"
 }
},
"com.amazonaws.licensemanager#LicenseConfigurationStatus": {
 "type": "enum",
 "members": {
 "AVAILABLE": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "AVAILABLE"
 }
 },
 "DISABLED": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "DISABLED"
 }
 }
 }
}
},
"com.amazonaws.licensemanager#LicenseConfigurationUsage": {

```

```

"type": "structure",
"members": {
 "ResourceArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
 }
 },
 "ResourceType": {
 "target": "com.amazonaws.licensemanager#ResourceType",
 "traits": {
 "smithy.api#documentation": "<p>Type of resource.</p>"
 }
 },
 "ResourceStatus": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Status of the resource.</p>"
 }
 },
 "ResourceOwnerId": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>ID of the account that owns the resource.</p>"
 }
 },
 "AssociationTime": {
 "target": "com.amazonaws.licensemanager#DateTime",
 "traits": {
 "smithy.api#documentation": "<p>Time when the license configuration was initially associated with
the resource.</p>"
 }
 },
 "ConsumedLicenses": {
 "target": "com.amazonaws.licensemanager#BoxLong",
 "traits": {
 "smithy.api#documentation": "<p>Number of licenses consumed by the resource.</p>"
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>Details about the usage of a resource associated with a license
configuration.</p>"
 },
 "com.amazonaws.licensemanager#LicenseConfigurationUsageList":

```

```

{
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#LicenseConfigurationUsage"
 }
},
"com.amazonaws.licensemanager#LicenseConfigurations": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#LicenseConfiguration"
 }
},
"com.amazonaws.licensemanager#LicenseConversionContext": {
 "type": "structure",
 "members": {
 "UsageOperation": {
 "target": "com.amazonaws.licensemanager#UsageOperation",
 "traits": {
 "smithy.api#documentation": "<p>The Usage operation value that corresponds to the license type you
are converting your resource from. For more information about which platforms correspond to which usage
operation values see <a href=\"https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/billing-info-
fields.html#billing-info\">Sample
data: usage operation by platform\n \n </p>"
 }
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>Information about a license type conversion task.</p>"
 }
},
"com.amazonaws.licensemanager#LicenseConversionTask": {
 "type": "structure",
 "members": {
 "LicenseConversionTaskId": {
 "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
 "traits": {
 "smithy.api#documentation": "<p>The ID of the license type conversion task.</p>"
 }
 },
 "ResourceArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the resource associated
with the license type\n
conversion task.</p>"
 }
 }
 },
 "SourceLicenseContext": {

```

```

 "target": "com.amazonaws.licensemanager#LicenseConversionContext",
 "traits": {
 "smithy.api#documentation": "<p>Information about the license type this conversion task converted
from.</p>"
 }
 },
 "DestinationLicenseContext": {
 "target": "com.amazonaws.licensemanager#LicenseConversionContext",
 "traits": {
 "smithy.api#documentation": "<p>Information about the license type this conversion task converted
to.</p>"
 }
 },
 "Status": {
 "target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
 "traits": {
 "smithy.api#documentation": "<p>The status of the conversion task.</p>"
 }
 },
 "StatusMessage": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>The status message for the conversion task.</p>"
 }
 },
 "StartTime": {
 "target": "com.amazonaws.licensemanager#DateTime",
 "traits": {
 "smithy.api#documentation": "<p>The time the conversion task was started at.</p>"
 }
 },
 "LicenseConversionTime": {
 "target": "com.amazonaws.licensemanager#DateTime",
 "traits": {
 "smithy.api#documentation": "<p>The time the usage operation value of the resource was
changed.</p>"
 }
 },
 "EndTime": {
 "target": "com.amazonaws.licensemanager#DateTime",
 "traits": {
 "smithy.api#documentation": "<p>The time the conversion task was completed.</p>"
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>Information about a license type conversion task.</p>"
 }

```

```

 }
 },
 "com.amazonaws.licensemanager#LicenseConversionTaskId": {
 "type": "string",
 "traits": {
 "smithy.api#length": {
 "min": 0,
 "max": 50
 },
 "smithy.api#pattern": "^\\lct-[a-zA-Z0-9]*$"
 }
 },
 "com.amazonaws.licensemanager#LicenseConversionTaskStatus": {
 "type": "enum",
 "members": {
 "IN_PROGRESS": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "IN_PROGRESS"
 }
 }
 }
 },
 "SUCCEEDED": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "SUCCEEDED"
 }
 },
 "FAILED": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "FAILED"
 }
 }
},
"com.amazonaws.licensemanager#LicenseConversionTasks": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#LicenseConversionTask"
 }
},
"com.amazonaws.licensemanager#LicenseCountingType": {
 "type": "enum",
 "members": {
 "VCPU": {
 "target": "smithy.api#Unit",
 "traits": {

```

```

 "smithy.api#enumValue": "vCPU"
 }
},

"INSTANCE": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Instance"
 }
},
"CORE": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Core"
 }
},
"SOCKET": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Socket"
 }
}
},
"com.amazonaws.licensemanager#LicenseDeletionStatus": {
 "type": "enum",
 "members": {
 "PENDING_DELETE": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "PENDING_DELETE"
 }
 },
 "DELETED": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "DELETED"
 }
 }
 }
},
"com.amazonaws.licensemanager#LicenseList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#License"
 }
},

```

```

"com.amazonaws.licensemanager#LicenseOperationFailure": {
 "type": "structure",
 "members": {
 "ResourceArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
 }
 },
 "ResourceType": {
 "target": "com.amazonaws.licensemanager#ResourceType",
 "traits": {
 "smithy.api#documentation":
"<p>Resource type.</p>"
 }
 },
 "ErrorMessage": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Error message.</p>"
 }
 },
 "FailureTime": {
 "target": "com.amazonaws.licensemanager#DateTime",
 "traits": {
 "smithy.api#documentation": "<p>Failure time.</p>"
 }
 },
 "OperationName": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Name of the operation.</p>"
 }
 },
 "ResourceOwnerId": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation":
"<p>ID of the Amazon Web Services account that owns the resource.</p>"
 }
 },
 "OperationRequestedBy": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>The requester is \"License Manager Automated Discovery\".</p>"
 }
 },
 "MetadataList": {

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```

 "target": "com.amazonaws.licensemanager#MetadataList",
 "traits": {
 "smithy.api#documentation": "<p>Reserved.</p>"
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>Describes the failure of a license operation.</p>"
 }
},
"com.amazonaws.licensemanager#LicenseOperationFailureList": {
 "type": "list",
 "member": {
 "target":
"com.amazonaws.licensemanager#LicenseOperationFailure"
 }
},
"com.amazonaws.licensemanager#LicenseSpecification": {
 "type": "structure",
 "members": {
 "LicenseConfigurationArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
 "smithy.api#required": {}
 }
 },
 "AmiAssociationScope": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Scope of AMI associations. The possible value is <code>cross-
account</code>.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>Details for associating a license configuration
with a resource.</p>"
 }
},
"com.amazonaws.licensemanager#LicenseSpecifications": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#LicenseSpecification"
 }
},
"com.amazonaws.licensemanager#LicenseStatus": {

```



```

"type": "enum",
"members": {
 "AVAILABLE": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "AVAILABLE"
 }
 },
 "PENDING_AVAILABLE": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "PENDING_AVAILABLE"
 }
 },
 "DEACTIVATED": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "DEACTIVATED"
 }
 },
 "SUSPENDED": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "SUSPENDED"
 }
 },
 "EXPIRED": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "EXPIRED"
 }
 },
 "PENDING_DELETE": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "PENDING_DELETE"
 }
 },
 "DELETED": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "DELETED"
 }
 }
},
"com.amazonaws.licensemanager#LicenseUsage": {
 "type":

```

```

"structure",
 "members": {
 "EntitlementUsages": {
 "target": "com.amazonaws.licensemanager#EntitlementUsageList",
 "traits": {
 "smithy.api#documentation": "<p>License entitlement usages.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>Describes the entitlement usage associated with a license.</p>"
 }
},
"com.amazonaws.licensemanager#LicenseUsageException": {
 "type": "structure",
 "members": {
 "Message": {
 "target": "com.amazonaws.licensemanager#Message"
 }
 },
 "traits": {
 "aws.protocols#awsQueryError": {
 "code": "LicenseUsageFailure",
 "httpResponseCode": 412
 },
 "smithy.api#documentation": "<p>You do not have
enough licenses available to support a new resource launch.</p>",
 "smithy.api#error": "client",
 "smithy.api#httpError": 412
 }
},
"com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
 }
]
}

```

```

 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Lists the resource associations for the specified license configuration.</p>\n <p>Resource associations need not consume licenses from a license configuration. \n For example, an AMI or a stopped instance might not consume a license (depending on \n the license rules).</p>"
 }
},
"com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest": {
 "type": "structure",
 "members": {
 "LicenseConfigurationArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of a license configuration.</p>",
 "smithy.api#required": {}
 }
 },
 "MaxResults": {
 "target": "com.amazonaws.licensemanager#BoxInteger",
 "traits": {
 "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
},
"com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse":

```

```

{
 "type": "structure",
 "members": {
 "LicenseConfigurationAssociations": {
 "target": "com.amazonaws.licensemanager#LicenseConfigurationAssociations",
 "traits": {
 "smithy.api#documentation": "<p>Information about the associations for the license
configuration.</p>"
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#ListDistributedGrants": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#ListDistributedGrantsRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#ListDistributedGrantsResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 }
],

```

```

 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Lists the grants distributed for the specified license.</p>"
 }
},
"com.amazonaws.licensemanager#ListDistributedGrantsRequest": {
 "type": "structure",
 "members": {
 "GrantArns": {
 "target": "com.amazonaws.licensemanager#ArnList",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the grants.</p>"
 }
 },
 "Filters": {
 "target": "com.amazonaws.licensemanager#FilterList",
 "traits": {
 "smithy.api#documentation": "<p>Filters to scope the results. The following filters are supported:</p>\n
 \n
 \n
 <p>\n
 <code>LicenseArn</code>\n
 </p>\n
 \n
 \n
 <p>\n
 <code>GrantStatus</code>\n
 </p>\n
 \n
 \n
 <p>\n
 <code>GranteePrincipalARN</code>\n
 </p>\n
 \n
 \n
 <p>\n
 <code>ProductSKU</code>\n
 </p>\n
 \n
 \n
 <p>\n
 <code>LicenseIssuerName</code>\n
 </p>\n
 \n
 "
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 },
 "MaxResults": {
 "target": "com.amazonaws.licensemanager#MaxSize100",
 "traits": {
 "smithy.api#documentation":
 "<p>Maximum number of results to return in a single call.</p>"
 }
 }
 }
},
"traits": {
 "smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListDistributedGrantsResponse": {

```

```

"type": "structure",
"members": {
 "Grants": {
 "target": "com.amazonaws.licensemanager#GrantList",
 "traits": {
 "smithy.api#documentation": "<p>Distributed grant details.</p>"
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Lists the license configuration operations that failed.</p>"
 }
}

```

```

 },
 "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest": {
 "type": "structure",
 "members": {
 "LicenseConfigurationArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name of the license configuration.</p>",
 "smithy.api#required": {}
 }
 },
 "MaxResults": {
 "target": "com.amazonaws.licensemanager#BoxInteger",
 "traits": {
 "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
 }
 }
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
},
"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse": {
 "type": "structure",
 "members": {
 "LicenseOperationFailureList": {
 "target": "com.amazonaws.licensemanager#LicenseOperationFailureList",
 "traits": {
 "smithy.api#documentation": "<p>License configuration operations that failed.</p>"
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
}

```

```

 }
 },
 "com.amazonaws.licensemanager#ListLicenseConfigurations": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#ListLicenseConfigurationsResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Lists the license configurations for your account.</p>"
 }
 },
 "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest": {
 "type": "structure",
 "members": {
 "LicenseConfigurationArns": {
 "target": "com.amazonaws.licensemanager#StringList",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Names (ARN) of the license configurations.</p>"
 }
 },
 "MaxResults": {
 "target": "com.amazonaws.licensemanager#BoxInteger",

```



```

 "traits": {
 "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 },
 "Filters": {
 "target": "com.amazonaws.licensemanager#Filters",
 "traits": {
 "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical operators\n are supported:</p>\n \n \n <p>\n <code>licenseCountingType</code> - The dimension for which licenses are counted.\n Possible values are <code>vCPU</code> | <code>Instance</code> | <code>Core</code> | <code>Socket</code>.\n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n \n \n <p>\n <code>enforceLicenseCount</code> - A Boolean value that indicates whether hard license enforcement is used. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n \n \n <p>\n <code>usagelimitExceeded</code> - A Boolean value that indicates whether the available licenses have been exceeded. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n \n "
 }
 }
},
"traits": {
 "smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListLicenseConfigurationsResponse": {
 "type": "structure",
 "members": {
 "LicenseConfigurations": {
 "target": "com.amazonaws.licensemanager#LicenseConfigurations",
 "traits": {
 "smithy.api#documentation": "<p>Information about the license configurations.</p>"
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 }
 }
},
"traits": {

```

```

 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#ListLicenseConversionTasks": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#ListLicenseConversionTasksRequest"
 },
 "output": {

"target": "com.amazonaws.licensemanager#ListLicenseConversionTasksResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Lists the license type conversion tasks for your account.</p>"
 }
},
"com.amazonaws.licensemanager#ListLicenseConversionTasksRequest": {

"type": "structure",
 "members": {
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 },
 "MaxResults": {
 "target": "com.amazonaws.licensemanager#BoxInteger",
 "traits": {
 "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
 }
 }
 }
}

```

```

 },
 "Filters": {
 "target": "com.amazonaws.licensemanager#Filters",
 "traits": {
 "smithy.api#documentation": "<p>\n Filters to scope the results. Valid filters are
<code>ResourceArns</code> and <code>Status</code>.\n </p>"
 }
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
},
"com.amazonaws.licensemanager#ListLicenseConversionTasksResponse": {
 "type": "structure",
 "members": {
 "LicenseConversionTasks": {
 "target": "com.amazonaws.licensemanager#LicenseConversionTasks",
 "traits": {
 "smithy.api#documentation": "<p>Information about the license configuration tasks for your
account.</p>"
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#ListLicenseManagerReportGenerators": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 }
]
}

```

```

 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Lists the report generators for your account.</p>"
 }
},
"com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest": {
 "type": "structure",
 "members": {
 "Filters": {
 "target": "com.amazonaws.licensemanager#FilterList",
 "traits": {
 "smithy.api#documentation": "<p>Filters to scope the results. The following filters are supported:
</p>\n \n \n <p>\n <code>LicenseConfigurationArn</code>\n </p>\n \n "
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 },
 "MaxResults": {
 "target": "com.amazonaws.licensemanager#MaxSize100",
 "traits": {
 "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
 }
 }
 }
}

```

```

 },
 "traits": {
 "smithy.api#input": {}
 }
 },
 "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse": {
 "type": "structure",
 "members": {
 "ReportGenerators": {
 "target": "com.amazonaws.licensemanager#ReportGeneratorList",
 "traits": {
 "smithy.api#documentation": "<p>A report generator that creates periodic reports about your license configurations.</p>"
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
 },
 "com.amazonaws.licensemanager#ListLicenseSpecificationsForResource": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse"
 },
 "errors":
 [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 }
]

```

```

 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Describes the license configurations for the specified resource.</p>"
 }
},
"com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest": {
 "type": "structure",
 "members": {
 "ResourceArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of a resource that has an
associated license configuration.</p>",
 "smithy.api#required": {}
 }
 },
 "MaxResults": {
 "target": "com.amazonaws.licensemanager#BoxInteger",
 "traits": {
 "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
},
"com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse":
{
 "type": "structure",
 "members": {
 "LicenseSpecifications": {
 "target": "com.amazonaws.licensemanager#LicenseSpecifications",
 "traits": {
 "smithy.api#documentation": "<p>License configurations associated with a resource.</p>"
 }
 },
 "NextToken": {

```

```

 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#ListLicenseVersions": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#ListLicenseVersionsRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#ListLicenseVersionsResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Lists all versions of the specified license.</p>"
 }
},
"com.amazonaws.licensemanager#ListLicenseVersionsRequest":
{
 "type": "structure",
 "members": {
 "LicenseArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
 "smithy.api#required": {}
 }
 }
 }
}

```

```

 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 },
 "MaxResults": {
 "target": "com.amazonaws.licensemanager#MaxSize100",
 "traits": {
 "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
 }
 }
},
"traits":
{
 "smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListLicenseVersionsResponse": {
 "type": "structure",
 "members": {
 "Licenses": {
 "target": "com.amazonaws.licensemanager#LicenseList",
 "traits": {
 "smithy.api#documentation": "<p>License details.</p>"
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#ListLicenses": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#ListLicensesRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#ListLicensesResponse"
 },
}

```



```

"errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
"traits": {
 "smithy.api#documentation": "<p>Lists
the licenses for your account.</p>"
}
},
"com.amazonaws.licensemanager#ListLicensesRequest": {
 "type": "structure",
 "members": {
 "LicenseArns": {
 "target": "com.amazonaws.licensemanager#ArnList",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the licenses.</p>"
 }
 },
 "Filters": {
 "target": "com.amazonaws.licensemanager#FilterList",
 "traits": {
 "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n \n \n <p>\n <code>Beneficiary</code>\n </p>\n \n \n <p>\n <code>ProductSKU</code>\n </p>\n \n \n <p>\n <code>Fingerprint</code>\n </p>\n \n \n <p>\n <code>Status</code>\n </p>\n \n "
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {

```

```

 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
},
"MaxResults": {
 "target": "com.amazonaws.licensemanager#MaxSize100",
 "traits": {
 "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
 }
}
},
"traits": {
 "smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListLicensesResponse":
{
 "type": "structure",
 "members": {
 "Licenses": {
 "target": "com.amazonaws.licensemanager#LicenseList",
 "traits": {
 "smithy.api#documentation": "<p>License details.</p>"
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#ListReceivedGrants": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#ListReceivedGrantsRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#ListReceivedGrantsResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {

```

```

 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
"traits": {
 "smithy.api#documentation":
 "<p>Lists grants that are received. Received grants are grants created while specifying the\n recipient as this\n Amazon Web Services account, your organization, or an organizational unit\n (OU) to which this member\n account belongs.</p>"
}
},
"com.amazonaws.licensemanager#ListReceivedGrantsForOrganization": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
 }
]
}

```

```

 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Lists the grants received for all accounts in the organization.</p>"
 }
},
"com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationRequest": {
 "type": "structure",
 "members": {
 "LicenseArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the received
license.</p>",
 "smithy.api#required": {}
 }
 },
 "Filters": {
 "target": "com.amazonaws.licensemanager#FilterList",
 "traits": {
 "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n \n \n <p>\n <code>ParentArn</code>\n </p>\n \n \n <p>\n <code>GranteePrincipalArn</code>\n </p>\n \n "
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next
set of results.</p>"
 }
 },
 "MaxResults": {
 "target": "com.amazonaws.licensemanager#MaxSize100",
 "traits": {
 "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
}

```

```

 }
 },
 "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationResponse": {
 "type": "structure",
 "members": {
 "Grants": {
 "target": "com.amazonaws.licensemanager#GrantList",
 "traits": {
 "smithy.api#documentation": "<p>Lists the grants the organization has received.</p>"
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
 },
 },
 "com.amazonaws.licensemanager#ListReceivedGrantsRequest": {
 "type": "structure",
 "members": {
 "GrantArns": {
 "target": "com.amazonaws.licensemanager#ArnList",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the grants.</p>"
 }
 },
 "Filters": {
 "target": "com.amazonaws.licensemanager#FilterList",
 "traits": {
 "smithy.api#documentation": "<p>Filters to scope the results. The following filters are supported:</p>\n
 \n
 \n
 <p>\n
 <code>ProductSKU</code>\n
 </p>\n
 \n
 \n
 <p>\n
 <code>LicenseIssuerName</code>\n
 </p>\n
 \n
 \n
 <p>\n
 <code>LicenseArn</code>\n
 </p>\n
 \n
 \n
 <p>\n
 <code>GrantStatus</code>\n
 </p>\n
 \n
 \n
 <p>\n
 <code>GranterAccountId</code>\n
 </p>\n
 \n
 "
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 }
 }
 }
}

```

```

 },
 "MaxResults": {
 "target": "com.amazonaws.licensemanager#MaxSize100",
 },
 "traits": {
 "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
},
"com.amazonaws.licensemanager#ListReceivedGrantsResponse": {
 "type": "structure",
 "members": {
 "Grants": {
 "target": "com.amazonaws.licensemanager#GrantList",
 "traits": {
 "smithy.api#documentation": "<p>Received grant details.</p>"
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#ListReceivedLicenses": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#ListReceivedLicensesRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#ListReceivedLicensesResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 }
]
}

```

```

 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Lists received licenses.</p>"
 }
},
"com.amazonaws.licensemanager#ListReceivedLicensesForOrganization": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
],

```

```

 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Lists the licenses received for all accounts in the organization.</p>"
 }
},
"com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationRequest": {
 "type": "structure",
 "members": {
 {
 "Filters": {
 "target": "com.amazonaws.licensemanager#FilterList",
 "traits": {
 "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n \n \n <p>\n <code>Beneficiary</code>\n </p>\n
 \n \n <p>\n <code>ProductSKU</code>\n </p>\n \n "
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 },
 "MaxResults": {
 "target": "com.amazonaws.licensemanager#MaxSize100",
 "traits": {
 "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
 },
 "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationResponse": {
 "type": "structure",
 "members": {
 "Licenses": {
 "target": "com.amazonaws.licensemanager#GrantedLicenseList",
 "traits": {
 "smithy.api#documentation": "<p>Lists the licenses the organization has received.</p>"
 }
 }
 },
 },

```



```

 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 },
 "traits": {

 "smithy.api#output": {}
 },
 "com.amazonaws.licensemanager#ListReceivedLicensesRequest": {
 "type": "structure",
 "members": {
 "LicenseArns": {
 "target": "com.amazonaws.licensemanager#ArnList",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the licenses.</p>"
 }
 },
 "Filters": {
 "target": "com.amazonaws.licensemanager#FilterList",
 "traits": {
 "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n \n \n <p>\n <code>ProductSKU</code>\n </p>\n \n \n <p>\n <code>Status</code>\n </p>\n \n \n <p>\n <code>Fingerprint</code>\n </p>\n \n \n <p>\n <code>IssuerName</code>\n </p>\n \n \n <p>\n <code>Beneficiary</code>\n </p>\n \n "
 }
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 },
 "MaxResults": {
 "target": "com.amazonaws.licensemanager#MaxSize100",
 "traits": {
 "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
 }
 }
 },
 "traits":

```

```

{
 "smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListReceivedLicensesResponse": {
 "type": "structure",
 "members": {
 "Licenses": {
 "target": "com.amazonaws.licensemanager#GrantedLicenseList",
 "traits": {
 "smithy.api#documentation": "<p>Received license details.</p>"
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#ListResourceInventory": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#ListResourceInventoryRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#ListResourceInventoryResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#FailedDependencyException"
 },
 {
 "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 }
],

```

```

 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target":
"com.amazonaws.licensemanager#ServerInternalException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Lists resources managed using Systems Manager inventory.</p>"
 }
},
"com.amazonaws.licensemanager#ListResourceInventoryRequest": {
 "type": "structure",
 "members": {
 "MaxResults": {
 "target": "com.amazonaws.licensemanager#BoxInteger",
 "traits": {
 "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 }
 },
 "Filters": {
 "target":
"com.amazonaws.licensemanager#InventoryFilterList",
 "traits": {
 "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical
operators\n are supported:</p>\n \n \n <p>\n <code>account_id</code>
- The ID of the Amazon Web Services account that owns the resource.\n Logical operators are
<code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n \n \n <p>\n
<code>application_name</code> - The name of the application. \n Logical operators are
<code>EQUALS</code> | <code>BEGINS_WITH</code>.</p>\n \n \n <p>\n
<code>license_included</code> - The type of license included. \n Logical operators are
<code>EQUALS</code> | <code>NOT_EQUALS</code>.\n Possible values are <code>sql-server-
enterprise</code>
| \n <code>sql-server-standard</code> | \n <code>sql-server-web</code> | \n
<code>windows-server-datacenter</code>.</p>\n \n \n <p>\n
<code>platform</code> - The platform of the resource.\n Logical operators are <code>EQUALS</code> |
<code>BEGINS_WITH</code>.</p>\n \n \n <p>\n
<code>resource_id</code> - The ID of the resource. \n Logical operators are <code>EQUALS</code> |
<code>NOT_EQUALS</code>.</p>\n \n \n <p>\n
<code>tag:<key></code> - The key/value combination of a tag assigned \n to the resource. Logical
operators are <code>EQUALS</code> (single account) or\n <code>EQUALS</code> |

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<code>NOT\_EQUALS</code> (cross account).</p>\n       </li>\n     </ul>"

```
 }
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
 },
 "com.amazonaws.licensemanager#ListResourceInventoryResponse": {
 "type": "structure",
 "members": {
 "ResourceInventoryList": {
 "target": "com.amazonaws.licensemanager#ResourceInventoryList",
 "traits": {
 "smithy.api#documentation": "<p>Information about the resources.</p>"
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
 },
 "com.amazonaws.licensemanager#ListTagsForResource": {
 "type":
"operation",
 "input": {
 "target": "com.amazonaws.licensemanager#ListTagsForResourceRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#ListTagsForResourceResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
],
 },
}
```

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 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Lists the
tags for the specified license configuration.</p>"
 }
},
"com.amazonaws.licensemanager#ListTagsForResourceRequest": {
 "type": "structure",
 "members": {
 "ResourceArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
 "smithy.api#required": {}
 }
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
},
"com.amazonaws.licensemanager#ListTagsForResourceResponse": {
 "type": "structure",
 "members": {
 "Tags": {
 "target": "com.amazonaws.licensemanager#TagList",
 "traits": {
 "smithy.api#documentation": "<p>Information about the tags.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#ListTokens": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#ListTokensRequest"
 },

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```

"output": {
 "target": "com.amazonaws.licensemanager#ListTokensResponse"
},
"errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
"traits": {
 "smithy.api#documentation": "<p>Lists your tokens.</p>"
}
},
"com.amazonaws.licensemanager#ListTokensRequest": {
 "type": "structure",
 "members": {
 "TokenIds": {
 "target": "com.amazonaws.licensemanager#StringList",
 "traits": {
 "smithy.api#documentation": "<p>Token IDs.</p>"
 }
 },
 "Filters": {
 "target": "com.amazonaws.licensemanager#FilterList",
 "traits": {
 "smithy.api#documentation": "<p>Filters to scope the results. The following filter is supported:</p>\n
\n \n <p>\n <code>LicenseArns</code>\n </p>\n \n"
 }
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 }
}

```

```

 },
 "MaxResults": {
 "target": "com.amazonaws.licensemanager#MaxSize100",
 "traits": {
 "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
},
"com.amazonaws.licensemanager#ListTokensResponse": {
 "type": "structure",
 "members": {
 "Tokens": {
 "target": "com.amazonaws.licensemanager#TokenList",
 "traits": {
 "smithy.api#documentation":
"<p>Received token details.</p>"
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#ListUsageForLicenseConfiguration": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {

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"target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 }
],
"traits": {
 "smithy.api#documentation": "<p>Lists all license usage records for a license configuration, displaying
license\n consumption details by resource at a selected point in time. Use this action to audit the\n current
license consumption for any license inventory and configuration.</p>"
}
},
"com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest":
{
 "type": "structure",
 "members": {
 "LicenseConfigurationArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
 "smithy.api#required": {}
 }
 },
 "MaxResults": {
 "target": "com.amazonaws.licensemanager#BoxInteger",
 "traits": {
 "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 }
 },
 "Filters": {
 "target": "com.amazonaws.licensemanager#Filters",

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```

 "traits": {
 "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical
operators\n are supported:</p>\n \n \n <p>\n
<code>resourceArn</code> - The ARN of the license configuration resource.\n Logical operators are
<code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n \n \n <p>\n
<code>resourceType</code> - The resource type (<code>EC2_INSTANCE</code> |
<code>EC2_HOST</code> | <code>EC2_AMI</code> |
<code>SYSTEMS_MANAGER_MANAGED_INSTANCE</code>).\n Logical operators are
<code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n \n \n <p>\n
<code>resourceAccount</code>
- The ID of the account that owns the resource. \n Logical operators are <code>EQUALS</code> |
<code>NOT_EQUALS</code>.</p>\n \n "
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
},
"com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse": {
 "type": "structure",
 "members": {
 "LicenseConfigurationUsageList": {
 "target": "com.amazonaws.licensemanager#LicenseConfigurationUsageList",
 "traits": {
 "smithy.api#documentation": "<p>Information about the license configurations.</p>"
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#Location": {
 "type": "string"
},
"com.amazonaws.licensemanager#Long": {
 "type": "long"
},
"com.amazonaws.licensemanager#ManagedResourceSummary": {
 "type": "structure",
 "members": {

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"ResourceType": {
 "target": "com.amazonaws.licensemanager#ResourceType",
 "traits": {
 "smithy.api#documentation": "<p>Type of resource associated with a license.</p>"
 }
},
"AssociationCount": {
 "target": "com.amazonaws.licensemanager#BoxLong",
 "traits": {
 "smithy.api#documentation": "<p>Number of resources associated with licenses.</p>"
 }
}
},
"traits": {
 "smithy.api#documentation": "<p>Summary information about a managed resource.</p>"
}
},
"com.amazonaws.licensemanager#ManagedResourceSummaryList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#ManagedResourceSummary"
 }
},
"com.amazonaws.licensemanager#MaxSize100": {
 "type": "integer",
 "traits": {
 "smithy.api#range": {
 "min": 1,
 "max": 100
 }
 }
},
"com.amazonaws.licensemanager#MaxSize3StringList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#String"
 },
 "traits": {
 "smithy.api#length": {
 "min": 0,
 "max": 3
 }
 }
}
},
"com.amazonaws.licensemanager#Message": {
 "type": "string"
}

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},
"com.amazonaws.licensemanager#Metadata": {
 "type": "structure",
 "members": {
 "Name": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>The key name.</p>"
 }
 },
 "Value": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>The value.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>Describes key/value pairs.</p>"
 }
},
"com.amazonaws.licensemanager#MetadataList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#Metadata"
 }
},
"com.amazonaws.licensemanager#NoEntitlementsAllowedException": {
 "type": "structure",
 "members": {
 "Message": {
 "target": "com.amazonaws.licensemanager#Message"
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>There are no entitlements found for this license, or the entitlement
maximum count is reached.</p>",
 "smithy.api#error": "client",
 "smithy.api#httpError": 400
 }
},
"com.amazonaws.licensemanager#Options": {
 "type": "structure",
 "members": {
 "ActivationOverrideBehavior": {
 "target": "com.amazonaws.licensemanager#ActivationOverrideBehavior",
 "traits": {
 "smithy.api#documentation": "<p>An activation option for your grant that determines the behavior of

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activating

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a grant.\n Activation options can only be used with granted licenses sourced from the Amazon Web Services\n Marketplace. Additionally, the operation must specify the value of <code>ACTIVE</code> for the\n <code>Status</code> parameter.</p>\n \n \n <p>As a license administrator, you can\n optionally specify an\n <code>ActivationOverrideBehavior</code> when activating a grant.</p>\n \n \n <p>As a grantor, you can optionally specify an\n <code>ActivationOverrideBehavior</code> when you activate a grant for a grantee\n account in your\n organization.</p>\n \n \n <p>As a grantee, if the grantor creating the distributed\n grant doesnt specify an\n <code>ActivationOverrideBehavior</code>, you can optionally specify one\n when you\n are activating the grant.</p>\n \n \n <dl>\n <dt>DISTRIBUTED_GRANTS_ONLY</dt>\n <dd>\n <p>Use this value to activate a grant without replacing any member accounts\n active grants for the same\n product.</p>\n </dd>\n <dt>ALL_GRANTS_PERMITTED_BY_ISSUER</dt>\n <dd>\n <p>Use this value to activate a grant and disable other active grants in any\n member accounts for the\n same product. This action will also replace their\n previously activated grants with this activated\n grant.</p>\n </dd>\n </dl>\n }\n },\n "traits": {\n "smithy.api#documentation": "<p>The options you can specify when you create a new version of a grant,\n such as activation\n override behavior. For more information, see <a\n href=\\\"https://docs.aws.amazon.com/license-manager/latest/userguide/granted-licenses.html\\\">Granted\n licenses in License Manager in the <i>License Manager User Guide</i>.</p>"\n }\n },\n "com.amazonaws.licensemanager#OrganizationConfiguration": {\n "type": "structure",\n "members": {\n "EnableIntegration": {\n "target": "com.amazonaws.licensemanager#Boolean",\n "traits": {\n "smithy.api#default": false,\n "smithy.api#documentation": "<p>Enables Organizations integration.</p>",\n "smithy.api#required": {} \n }\n }\n }\n },\n "traits": {\n "smithy.api#documentation": "<p>Configuration information for Organizations.</p>"\n }\n },\n "com.amazonaws.licensemanager#PrincipalArnList": {\n "type": "list",\n "member": {\n "target": "com.amazonaws.licensemanager#Arn"\n },\n "traits":
```

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{
 "smithy.api#length": {
 "min": 1,
 "max": 1
 }
},
"com.amazonaws.licensemanager#ProductInformation": {
 "type": "structure",
 "members": {
 "ResourceType": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Resource type. The possible values are
<code>SSM_MANAGED</code> | <code>RDS</code>.</p>",
 "smithy.api#required": {}
 }
 },
 "ProductInformationFilterList": {
 "target": "com.amazonaws.licensemanager#ProductInformationFilterList",
 "traits": {
 "smithy.api#documentation": "<p>A Product information filter consists of a
<code>ProductInformationFilterComparator</code> which is a logical operator, a
<code>ProductInformationFilterName</code>
which specifies the type of filter being declared, and a <code>ProductInformationFilterValue</code> that specifies
the value to filter on. </p>\n <p>Accepted values for <code>ProductInformationFilterName</code> are listed
here along with descriptions and valid options for <code>ProductInformationFilterComparator</code>. </p>\n
<p>The following filters and are supported when the resource type \n is
<code>SSM_MANAGED</code>:</p>\n \n \n <p>\n <code>Application
Name</code> - The name of the application.\n Logical operator is <code>EQUALS</code>.</p>\n
\n \n <p>\n <code>Application Publisher</code> - The publisher of the
application.\n Logical operator is <code>EQUALS</code>.</p>\n
\n \n <p>\n <code>Application Version</code> - The
version of the application.\n Logical operator is <code>EQUALS</code>.</p>\n
\n \n <p>\n <code>Platform Name</code> - The name of the platform.\n Logical
operator is <code>EQUALS</code>.</p>\n
\n \n <p>\n <code>Platform
Type</code> - The platform type.\n Logical operator is <code>EQUALS</code>.</p>\n
\n \n <p>\n <code>Tag:key</code> - The key of a tag attached to an Amazon Web Services
resource you wish to exclude from automated discovery. Logical operator is <code>NOT_EQUALS</code>. The
key for your tag must be appended to <code>Tag:</code> following the example: <code>Tag:name-of-your-
key</code>. <code>ProductInformationFilterValue</code> is optional if you are not using values for the key.\n
</p>\n
\n \n <p>\n <code>AccountId</code> - The 12-digit ID of an Amazon Web Services account you wish to
exclude from automated discovery.\n Logical operator is <code>NOT_EQUALS</code>.</p>\n
\n \n <p>\n <code>License Included</code> - The type of license included.\n Logical operators are <code>EQUALS</code> and <code>NOT_EQUALS</code>.\n Possible values
are: <code>sql-server-enterprise</code> | \n <code>sql-server-standard</code> | \n <code>sql-
server-web</code> | \n <code>windows-server-datacenter</code>.</p>\n
\n \n

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The following filters and logical operators are supported when the resource type is RDS:

- Engine Edition - The edition of the database engine. Logical operator is EQUALS. Possible values are: oracle-ee | oracle-se1 | oracle-se2.
- License Pack - The license pack. Logical operator is EQUALS. Possible values are: data guard | diagnostic pack sqlt | tuning pack sqlt | ols | olap.

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 "smithy.api#required": {}
 }
},
"traits": {
 "smithy.api#documentation": "<p>Describes product information for a license configuration.</p>"
}
},
"com.amazonaws.licensemanager#ProductInformationFilter": {
 "type": "structure",
 "members": {
 "ProductInformationFilterName": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Filter name.</p>",
 "smithy.api#required": {}
 }
 },
 "ProductInformationFilterValue": {
 "target": "com.amazonaws.licensemanager#StringList",
 "traits": {
 "smithy.api#documentation": "<p>Filter value.</p>"
 }
 },
 "ProductInformationFilterComparator": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Logical operator.</p>",
 "smithy.api#required": {}
 }
 }
 },
 "traits": {
 "smithy.api#documentation":
 "<p>Describes product information filters.</p>"
 }
},
"com.amazonaws.licensemanager#ProductInformationFilterList": {
 "type": "list",

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 "member": {
 "target": "com.amazonaws.licensemanager#ProductInformationFilter"
 }
 },
 "com.amazonaws.licensemanager#ProductInformationList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#ProductInformation"
 }
 },
 "com.amazonaws.licensemanager#ProvisionalConfiguration": {
 "type": "structure",
 "members": {
 "MaxTimeToLiveInMinutes": {
 "target": "com.amazonaws.licensemanager#BoxInteger",
 "traits": {
 "smithy.api#documentation": "<p>Maximum time for the provisional configuration, in minutes.</p>",
 "smithy.api#required": {}
 }
 }
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>Details about a provisional configuration.</p>"
 }
},
"com.amazonaws.licensemanager#RateLimitExceededException": {
 "type": "structure",
 "members": {
 "Message": {
 "target": "com.amazonaws.licensemanager#Message"
 }
 },
 "traits": {
 "aws.protocols#awsQueryError": {
 "code": "RateLimitExceeded",
 "httpResponseCode": 429
 },
 "smithy.api#documentation": "<p>Too many requests have been submitted. Try again after a brief wait.</p>",
 "smithy.api#error": "client",
 "smithy.api#httpError": 429
 }
},
"com.amazonaws.licensemanager#ReceivedMetadata": {
 "type": "structure",
 "members": {

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"ReceivedStatus": {
 "target": "com.amazonaws.licensemanager#ReceivedStatus",
 "traits": {
 "smithy.api#documentation": "<p>Received status.</p>"
 }
},
"ReceivedStatusReason": {
 "target": "com.amazonaws.licensemanager#StatusReasonMessage",
 "traits": {
 "smithy.api#documentation": "<p>Received status reason.</p>"
 }
},
"AllowedOperations": {
 "target": "com.amazonaws.licensemanager#AllowedOperationList",
 "traits": {
 "smithy.api#documentation": "<p>Allowed operations.</p>"
 }
},
"traits": {
 "smithy.api#documentation": "<p>Metadata associated with received licenses and grants.</p>"
}
},
"com.amazonaws.licensemanager#ReceivedStatus":
{
 "type": "enum",
 "members": {
 "PENDING_WORKFLOW": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "PENDING_WORKFLOW"
 }
 },
 "PENDING_ACCEPT": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "PENDING_ACCEPT"
 }
 },
 "REJECTED": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "REJECTED"
 }
 },
 "ACTIVE": {
 "target": "smithy.api#Unit",
 "traits": {

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 "smithy.api#enumValue": "ACTIVE"
 }
},
"FAILED_WORKFLOW": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "FAILED_WORKFLOW"
 }
},
"DELETED": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "DELETED"
 }
},
"DISABLED": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "DISABLED"
 }
},
"WORKFLOW_COMPLETED": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "WORKFLOW_COMPLETED"
 }
}
},
"com.amazonaws.licensemanager#RedirectException": {
 "type": "structure",
 "members": {
 "Location":
 {
 "target": "com.amazonaws.licensemanager#Location",
 "traits": {
 "smithy.api#httpHeader": "Location"
 }
 },
 "Message": {
 "target": "com.amazonaws.licensemanager#Message"
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>This is not the correct Region for the resource. Try again.</p>",
 "smithy.api#error": "client",
 "smithy.api#httpError": 308
 }
}
}

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```

 }
 },
 "com.amazonaws.licensemanager#RejectGrant": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#RejectGrantRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#RejectGrantResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Rejects the specified grant.</p>"
 }
 },
 "com.amazonaws.licensemanager#RejectGrantRequest":
 {
 "type": "structure",
 "members": {
 "GrantArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
 "smithy.api#required": {}
 }
 }
 }
 }
}

```

```

 },
 "traits": {
 "smithy.api#input": {}
 }
 },
 "com.amazonaws.licensemanager#RejectGrantResponse": {
 "type": "structure",
 "members": {
 "GrantArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>Grant ARN.</p>"
 }
 },
 "Status": {
 "target": "com.amazonaws.licensemanager#GrantStatus",
 "traits": {

"smithy.api#documentation": "<p>Grant status.</p>"
 }
 },
 "Version": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Grant version.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
 },
 "com.amazonaws.licensemanager#RenewType": {
 "type": "enum",
 "members": {
 "NONE": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "None"
 }
 },
 "WEEKLY": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Weekly"
 }
 },
 "MONTHLY": {

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 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Monthly"
 }
 }
},
"com.amazonaws.licensemanager#ReportContext": {
 "type": "structure",
 "members": {
 "licenseConfigurationArns": {
 "target": "com.amazonaws.licensemanager#ArnList",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration that
this generator reports on.</p>",
 "smithy.api#required": {}
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>Details of the license configuration that this generator reports on.</p>"
 }
 },
"com.amazonaws.licensemanager#ReportFrequency": {
 "type": "structure",
 "members":
{
 "value": {
 "target": "com.amazonaws.licensemanager#Integer",
 "traits": {
 "smithy.api#documentation": "<p>Number of times within the frequency period that a report is
generated. \n The only supported value is <code>1</code>.</p>"
 }
 },
 "period": {
 "target": "com.amazonaws.licensemanager#ReportFrequencyType",
 "traits": {
 "smithy.api#documentation": "<p>Time period between each report. The period can be daily, weekly,
or monthly.</p>"
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>Details about how frequently reports are generated.</p>"
 }
},
"com.amazonaws.licensemanager#ReportFrequencyType": {

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```

"type": "enum",
"members": {
 "DAY": {

"target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "DAY"
 }
},
"WEEK": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "WEEK"
 }
},
"MONTH": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "MONTH"
 }
}
},
"com.amazonaws.licensemanager#ReportGenerator": {
 "type": "structure",
 "members": {
 "ReportGeneratorName": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Name of the report generator.</p>"
 }
 },
"ReportType": {
 "target": "com.amazonaws.licensemanager#ReportTypeList",
 "traits": {
 "smithy.api#documentation": "<p>Type of reports that are generated.</p>"
 }
},
"ReportContext": {
 "target": "com.amazonaws.licensemanager#ReportContext",
 "traits": {
 "smithy.api#documentation": "<p>License configuration type for this generator.</p>"
 }
},
"ReportFrequency": {
 "target": "com.amazonaws.licensemanager#ReportFrequency",
 "traits": {

```

```

 "smithy.api#documentation": "<p>Details about how frequently reports are generated.</p>"
 }
},
"LicenseManagerReportGeneratorArn": {
 "target": "com.amazonaws.licensemanager#String",

"traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator.</p>"
 }
},
"LastRunStatus": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Status of the last report generation attempt.</p>"
 }
},
"LastRunFailureReason": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Failure message for the last report generation attempt.</p>"
 }
},
"LastReportGenerationTime": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Time the last report was generated at.</p>"
 }
},
"ReportCreatorAccount": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>The Amazon Web Services account ID used to create the report
generator.</p>"
 }
},
"Description": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Description of the report generator.</p>"
 }
},
"S3Location": {
 "target": "com.amazonaws.licensemanager#S3Location",
 "traits": {
 "smithy.api#documentation": "<p>Details of the S3 bucket that report generator reports are published
to.</p>"
 }
},

```

```

 "CreateTime": {
 "target":
"com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Time the report was created.</p>"
 }
 },
 "Tags": {
 "target": "com.amazonaws.licensemanager#TagList",
 "traits": {
 "smithy.api#documentation": "<p>Tags associated with the report generator.</p>"
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>Describe the details of a report generator.</p>"
 },
 "com.amazonaws.licensemanager#ReportGeneratorList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#ReportGenerator"
 }
 },
 "com.amazonaws.licensemanager#ReportGeneratorName": {
 "type": "string",
 "traits": {
 "smithy.api#length":
{
 "min": 1,
 "max": 100
 }
 }
 },
 "com.amazonaws.licensemanager#ReportType": {
 "type": "enum",
 "members": {
 "LICENSE_CONFIGURATION_SUMMARY_REPORT": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "LicenseConfigurationSummaryReport"
 }
 },
 "LICENSE_CONFIGURATION_USAGE_REPORT": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "LicenseConfigurationUsageReport"
 }
 }
 }
 }
 }
}

```

```

 }
 }
},
"com.amazonaws.licensemanager#ReportTypeList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#ReportType"
 }
},
"com.amazonaws.licensemanager#ResourceInventory":
{
 "type": "structure",
 "members": {
 "ResourceId": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>ID of the resource.</p>"
 }
 },
 "ResourceType": {
 "target": "com.amazonaws.licensemanager#ResourceType",
 "traits": {
 "smithy.api#documentation": "<p>Type of resource.</p>"
 }
 },
 "ResourceArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
 }
 },
 "Platform": {
 "target": "com.amazonaws.licensemanager#String",

"traits": {
 "smithy.api#documentation": "<p>Platform of the resource.</p>"
 }
 },
 "PlatformVersion": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Platform version of the resource in the inventory.</p>"
 }
 },
 "ResourceOwningAccountId": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>ID of the account that owns the resource.</p>"
 }
 }
}

```



```

 }
 },
 "traits": {
 "smithy.api#documentation": "<p>Details about a resource.</p>"
 },
 "com.amazonaws.licensemanager#ResourceInventoryList": {
 "type": "list",
 "member": {
 "target":
"com.amazonaws.licensemanager#ResourceInventory"
 }
 },
 "com.amazonaws.licensemanager#ResourceLimitExceededException": {
 "type": "structure",
 "members": {
 "Message": {
 "target": "com.amazonaws.licensemanager#Message"
 }
 },
 "traits": {
 "aws.protocols#awsQueryError": {
 "code": "ResourceLimitExceeded",
 "httpResponseCode": 400
 },
 "smithy.api#documentation": "<p>Your resource limits have been exceeded.</p>",
 "smithy.api#error": "client",
 "smithy.api#httpError": 400
 }
 },
 "com.amazonaws.licensemanager#ResourceNotFoundException": {
 "type": "structure",
 "members": {
 "Message": {
 "target": "com.amazonaws.licensemanager#Message"
 }
 },
 "traits": {
 "aws.protocols#awsQueryError": {
 "code": "InvalidResource.NotFound",
 "httpResponseCode": 400
 },
 "smithy.api#documentation": "<p>The resource cannot be found.</p>",
 "smithy.api#error": "client",
 "smithy.api#httpError": 400
 }
 },

```

```

"com.amazonaws.licensemanager#ResourceType": {
 "type": "enum",
 "members": {
 "EC2_INSTANCE": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "EC2_INSTANCE"
 }
 },
 "EC2_HOST": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "EC2_HOST"
 }
 },
 "EC2_AMI": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "EC2_AMI"
 }
 },
 "RDS": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "RDS"
 }
 },
 "SYSTEMS_MANAGER_MANAGED_INSTANCE": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "SYSTEMS_MANAGER_MANAGED_INSTANCE"
 }
 }
 }
},
"com.amazonaws.licensemanager#S3Location": {
 "type": "structure",
 "members": {
 "bucket": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Name of the S3 bucket reports are published to.</p>"
 }
 }
 },
 "keyPrefix": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {

```

```

 "smithy.api#documentation": "<p>Prefix of the S3 bucket reports are published to.</p>"
 }
}
},
"traits": {
 "smithy.api#documentation": "<p>Details of the S3 bucket that report generator reports are published
to.</p>"
}
},
"com.amazonaws.licensemanager#ServerInternalException": {
 "type": "structure",
 "members": {
 "Message": {
 "target": "com.amazonaws.licensemanager#Message"
 }
 },
 "traits": {
 "aws.protocols#awsQueryError": {
 "code": "InternalServerError",
 "httpResponseCode": 500
 },
 "smithy.api#documentation": "<p>The server experienced an internal
error. Try again.</p>",
 "smithy.api#error": "server",
 "smithy.api#httpError": 500
 }
},
"com.amazonaws.licensemanager#SignedToken": {
 "type": "string",
 "traits": {
 "smithy.api#length": {
 "min": 4096
 }
 }
},
"com.amazonaws.licensemanager#StatusReasonMessage": {
 "type": "string",
 "traits": {
 "smithy.api#length": {
 "min": 0,
 "max": 400
 },
 "smithy.api#pattern": "^[[s\\S]+$"
 }
},
"com.amazonaws.licensemanager#String": {
 "type": "string"
},

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```

"com.amazonaws.licensemanager#StringList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#String"
 }
},
"com.amazonaws.licensemanager#Tag":
{
 "type": "structure",
 "members": {
 "Key": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Tag key.</p>"
 }
 },
 "Value": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Tag value.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>Details about a tag for a license configuration.</p>"
 }
},
"com.amazonaws.licensemanager#TagKeyList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#String"
 }
},
"com.amazonaws.licensemanager#TagList": {
 "type": "list",
 "member":
{
 "target": "com.amazonaws.licensemanager#Tag"
}
},
"com.amazonaws.licensemanager#TagResource": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#TagResourceRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#TagResourceResponse"
 },
}

```

```

"errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 }
],
"traits": {
 "smithy.api#documentation": "<p>Adds the specified tags to the specified license configuration.</p>"
}
},
"com.amazonaws.licensemanager#TagResourceRequest": {
 "type": "structure",
 "members": {
 "ResourceArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>",
 "smithy.api#required": {}
 }
 },
 "Tags": {
 "target": "com.amazonaws.licensemanager#TagList",
 "traits": {
 "smithy.api#documentation": "<p>One or more tags.</p>",
 "smithy.api#required": {}
 }
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
},
"com.amazonaws.licensemanager#TagResourceResponse": {
 "type": "structure",
 "members": {},
 "traits": {

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```

 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#TokenData": {
 "type": "structure",
 "members": {
 "TokenId": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token ID.</p>"
 }
 },
 "TokenType": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Type of token generated. The supported value is
<code>REFRESH_TOKEN</code>.</p>"
 }
 },
 "LicenseArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
 }
 },
 "ExpirationTime": {
 "target": "com.amazonaws.licensemanager#ISO8601DateTime",
 "traits": {
 "smithy.api#documentation": "<p>Token expiration time, in ISO8601-UTC format.</p>"
 }
 },
 "TokenProperties": {
 "target": "com.amazonaws.licensemanager#MaxSize3StringList",
 "traits": {
 "smithy.api#documentation": "<p>Data specified by the caller.</p>"
 }
 },
 "RoleArns": {
 "target": "com.amazonaws.licensemanager#ArnList",
 "traits": {
 "smithy.api#documentation":
"<p>Amazon Resource Names (ARN) of the roles included in the token.</p>"
 }
 },
 "Status": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {

```

```

 "smithy.api#documentation": "<p>Token status. The possible values are
<code>AVAILABLE</code> and <code>DELETED</code>.</p>"
 }
}
},
"traits": {
 "smithy.api#documentation": "<p>Describes a token.</p>"
}
},
"com.amazonaws.licensemanager#TokenList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#TokenData"
 }
},
"com.amazonaws.licensemanager#TokenString": {
 "type": "string",
 "traits": {
 "smithy.api#length": {
 "min": 0,
 "max": 4096
 }
 },

 "smithy.api#pattern": "^\\S+$"
}
},
"com.amazonaws.licensemanager#TokenType": {
 "type": "enum",
 "members": {
 "REFRESH_TOKEN": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "REFRESH_TOKEN"
 }
 }
 }
}
},
"com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException": {
 "type": "structure",
 "members": {
 "Message": {
 "target": "com.amazonaws.licensemanager#Message"
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>The digital signature method is unsupported. Try your request
again.</p>",
 "smithy.api#error": "client",

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```

 "smithy.api#httpError": 400
 }
},
"com.amazonaws.licensemanager#UntagResource":
{
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#UntagResourceRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#UntagResourceResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Removes
the specified tags from the specified license configuration.</p>"
 }
},
"com.amazonaws.licensemanager#UntagResourceRequest": {
 "type": "structure",
 "members": {
 "ResourceArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
 "smithy.api#required": {}
 }
 }
 },
 "TagKeys": {
 "target": "com.amazonaws.licensemanager#TagKeyList",
 "traits": {

```



```

 "smithy.api#documentation": "<p>Keys identifying the tags to remove.</p>",
 "smithy.api#required": {}
 }
}
},
"traits": {
 "smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UntagResourceResponse":
{
 "type": "structure",
 "members": {},
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#UpdateLicenseConfiguration": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target":
"com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Modifies the attributes of an existing license configuration.</p>"
 }
}

```

```

 }
 },
 "com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest": {
 "type": "structure",
 "members": {
 "LicenseConfigurationArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
 "smithy.api#required": {}
 }
 }
 },
 "LicenseConfigurationStatus": {
 "target": "com.amazonaws.licensemanager#LicenseConfigurationStatus",
 "traits": {
 "smithy.api#documentation": "<p>New status of the license configuration.</p>"
 }
 },
 "LicenseRules": {
 "target": "com.amazonaws.licensemanager#StringList",
 "traits": {
 "smithy.api#documentation": "<p>New license rule. The only rule that you can add after you create a
license\n configuration is licenseAffinityToHost.</p>"
 }
 },
 "LicenseCount": {
 "target": "com.amazonaws.licensemanager#BoxLong",
 "traits": {
 "smithy.api#documentation": "<p>New number of licenses managed by the license
configuration.</p>"
 }
 },
 "LicenseCountHardLimit": {
 "target": "com.amazonaws.licensemanager#BoxBoolean",
 "traits": {
 "smithy.api#documentation": "<p>New hard limit of the number of available licenses.</p>"
 }
 },
 "Name": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>New name of the license configuration.</p>"
 }
 },
 "Description": {

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```

 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>New description of the license configuration.</p>"
 }
 },
 "ProductInformationList": {
 "target": "com.amazonaws.licensemanager#ProductInformationList",
 "traits": {
 "smithy.api#documentation": "<p>New product information.</p>"
 }
 },
 "DisassociateWhenNotFound": {
 "target": "com.amazonaws.licensemanager#BoxBoolean",
 "traits": {
 "smithy.api#documentation": "<p>When true, disassociates a resource when software is
uninstalled.</p>"
 }
 },
 "traits": {
 "smithy.api#input": {}
 },
 "com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse": {
 "type": "structure",
 "members": {},
 "traits": {
 "smithy.api#output": {}
 }
 },
 "com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 }
]
 }
}

```

```

 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Updates a report generator.</p>\n <p>After you make changes to a report generator, it starts generating new reports within 60 minutes of being updated.</p>"
 }
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest": {
 "type": "structure",
 "members": {
 "LicenseManagerReportGeneratorArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator to update.</p>",
 "smithy.api#required": {}
 }
 },
 "ReportGeneratorName": {
 "target": "com.amazonaws.licensemanager#ReportGeneratorName",
 "traits": {
 "smithy.api#documentation": "<p>Name of the report generator.</p>",
 "smithy.api#required": {}
 }
 }
 },
 "Type": {
 "target": "com.amazonaws.licensemanager#ReportTypeList",
 "traits": {
 "smithy.api#documentation": "<p>Type of reports to generate. The following report types are supported:</p>\n \n \n <p>License configuration report - Reports the number and details of consumed licenses for a license configuration.</p>\n \n \n <p>Resource report - Reports the tracked licenses and resource consumption for a license configuration.</p>\n \n ",
 }
 }
}

```

```

 "smithy.api#required": {}
 }
},
"ReportContext": {
 "target": "com.amazonaws.licensemanager#ReportContext",
 "traits": {
 "smithy.api#documentation": "<p>The report context.</p>",
 "smithy.api#required": {}
 }
},
"ReportFrequency": {
 "target": "com.amazonaws.licensemanager#ReportFrequency",
 "traits": {
 "smithy.api#documentation": "<p>Frequency by which reports are generated.</p>",
 "smithy.api#required": {}
 }
},
"ClientToken": {
 "target": "com.amazonaws.licensemanager#ClientRequestToken",
 "traits": {
 "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
 "smithy.api#required": {}
 }
},
"Description": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Description of the report generator.</p>"
 }
},
"traits": {
 "smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse": {
 "type": "structure",
 "members": {},
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest"
 }
}

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```

 },
 "output": {
 "target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidResourceStateException"
 },
 {
 "target": "com.amazonaws.licensemanager#LicenseUsageException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 }
],
 "traits":
 {
 "smithy.api#documentation": "<p>Adds or removes the specified license configurations for the specified Amazon Web Services resource.</p>\n <p>You can update the license specifications of AMIs, instances, and hosts.\n You cannot update the license specifications for launch templates and CloudFormation templates, \n as they send license configurations to the operation that creates the resource.</p>"
 }
},
"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest": {
 "type": "structure",
 "members": {
 "ResourceArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the Amazon Web Services resource.</p>",
 "smithy.api#required": {}
 }
 }
 },
 "AddLicenseSpecifications":

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```

{
 "target": "com.amazonaws.licensemanager#LicenseSpecifications",
 "traits": {
 "smithy.api#documentation": "<p>ARNs of the license configurations to add.</p>"
 }
},
"RemoveLicenseSpecifications": {
 "target": "com.amazonaws.licensemanager#LicenseSpecifications",
 "traits": {
 "smithy.api#documentation": "<p>ARNs of the license configurations to remove.</p>"
 }
}
},
"traits": {
 "smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse": {
 "type": "structure",
 "members": {},
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#UpdateServiceSettings": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#UpdateServiceSettingsRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#UpdateServiceSettingsResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 }
]
}

```

```

 }
],
 "traits": {
 "smithy.api#documentation": "<p>Updates
License Manager settings for the current Region.</p>"
 }
},
"com.amazonaws.licensemanager#UpdateServiceSettingsRequest": {
 "type": "structure",
 "members": {
 "S3BucketArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the Amazon S3 bucket where
the License Manager information is stored.</p>"
 }
 },
 "SnsTopicArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the Amazon SNS topic used
for License Manager alerts.</p>"
 }
 },
 "OrganizationConfiguration": {
 "target": "com.amazonaws.licensemanager#OrganizationConfiguration",
 "traits": {
 "smithy.api#documentation": "<p>Enables integration with Organizations for cross-account
discovery.</p>"
 }
 },
 "EnableCrossAccountsDiscovery": {
 "target": "com.amazonaws.licensemanager#BoxBoolean",
 "traits": {
 "smithy.api#documentation": "<p>Activates cross-account discovery.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
},
"com.amazonaws.licensemanager#UpdateServiceSettingsResponse": {
 "type": "structure",
 "members": {},
 "traits": {
 "smithy.api#output": {}
 }
}

```



```

 },
 "com.amazonaws.licensemanager#UsageOperation": {
 "type": "string",
 "traits": {
 "smithy.api#length": {
 "min":
0,
 "max": 50
 }
 }
 },
 "com.amazonaws.licensemanager#ValidationException": {
 "type": "structure",
 "members": {
 "Message": {
 "target": "com.amazonaws.licensemanager#Message"
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>The provided input is not valid. Try your request again.</p>",
 "smithy.api#error": "client",
 "smithy.api#httpError": 400
 }
 }
}
}
}

```

// Code generated by smithy-go-codegen DO NOT EDIT.

```
package grafana
```

```

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

```

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana

// Enterprise incurs additional fees. For more information, see Upgrade a

// workspace to Grafana Enterprise (<https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html>)

// .

```
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
```

```
(*AssociateLicenseOutput, error) {
```

```
 if params == nil {
```

```
 params = &AssociateLicenseInput{}
```

```

}

result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
if err != nil {
 return nil, err
}

out
:= result.(*AssociateLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

 // A structure containing data about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{ }, middleware.After)

```

```

if
err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
err != nil {
 return err
}
if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
 return err
}
}

```

```

if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "grafana",
 OperationName: "AssociateLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
 params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
 return nil, err
 }
}

```

```

}

out := result.(*DeleteLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version of the
 license.
 //
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

 // Date when the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
}

```

```

}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack,
options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack);
err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}

```

```

}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "DeleteLicense",
}
}

```

## 1.541 [github.com/aws/aws-sdk-go-v2/service/s3](https://github.com/aws/aws-sdk-go-v2/service/s3) 1.19.0

### 1.541.1 Available under license :

// Code generated by smithy-go-codegen DO NOT EDIT.

```

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
 params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {

```

```

return nil, err
}

out := result.(*ListLicensesOutput)
out.ResultMetadata = metadata
return out, nil
}

type ListLicensesInput struct {

// Filters to scope the results. The following filters are supported:
// - Beneficiary
// - ProductSKU
// - Fingerprint
//
// - Status
Filters []types.Filter

// Amazon Resource Names (ARNs) of the licenses.
LicenseArns []string

// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string

noSmithyDocumentSerde
}

type ListLicensesOutput struct {

// License details.
Licenses []types.License

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{ }, middleware.After)
if err != nil {
return err
}
}

```



```

}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{ }, middleware.After)
if err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}

```

```

}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "ListLicenses",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
 params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CreateLicenseOutput)

```

```
out.ResultMetadata = metadata
return out, nil
}
```

```
type CreateLicenseInput struct {
```

```
 // License beneficiary.
```

```
 //
```

```
 // This member is required.
```

```
 Beneficiary *string
```

```
 // Unique, case-sensitive identifier that you provide to ensure
 // the idempotency of
```

```
 // the request.
```

```
 //
```

```
 // This member is required.
```

```
 ClientToken *string
```

```
 // Configuration for consumption of the license. Choose a provisional
```

```
 // configuration for workloads running with continuous connectivity. Choose a
```

```
 // borrow configuration for workloads with offline usage.
```

```
 //
```

```
 // This member is required.
```

```
 ConsumptionConfiguration *types.ConsumptionConfiguration
```

```
 // License entitlements.
```

```
 //
```

```
 // This member is required.
```

```
 Entitlements []types.Entitlement
```

```
 // Home Region for the license.
```

```
 //
```

```
 // This member is required.
```

```
 HomeRegion *string
```

```
 // License issuer.
```

```
 //
```

```
 // This member is required.
```

```
 Issuer *types.Issuer
```

```
 // License name.
```

```
 //
```

```
 // This member is required.
```

```
 LicenseName *string
```

```
 // Product name.
```

```
 //
```

```
 // This member is required.
```

```

 ProductName *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // Date and time range during which the license is valid, in ISO8601-UTC format.
 //
 // This member is required.
 Validity *types.DatetimeRange

 //
 // Information about the license.
 LicenseMetadata []types.Metadata

 noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License status.
 Status types.LicenseStatus

 // License version.
 Version *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
}

```

```

if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack);
err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil
{
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
}

```

```

if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CreateLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
 params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

```

```

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier that you
 // provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see RFC 7518 Digital Signature with
 // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5) .
 //
 // This member is required.
 DigitalSignatureMethod types.DigitalSignatureMethod

 // License entitlements. Partial checkouts are not supported.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Amazon Resource Name (ARN) of the license. The license must use the borrow
 // consumption configuration.
 //
 // This member is required.
 LicenseArn *string

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

```

```

type CheckoutBorrowLicenseOutput struct {

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Allowed license entitlements.
 EntitlementsAllowed
 []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string
}

```

```

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {

```



```

return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack, options); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
return err
}
if
err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region: region,
ServiceID: ServiceID,
}
}

```

```
SigningName: "license-manager",
OperationName: "CheckoutBorrowLicense",
}
}
```

AWS SDK for Go

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name: License Scan

on: [pull\_request]

jobs:

licensescan:

name: License Scan

runs-on: ubuntu-latest

strategy:

matrix:

python-version: [3.9]

steps:

- name: Checkout target

uses: actions/checkout@v2

with:

path: sdkbase

ref: \${{ github.base\_ref }}

- name: Checkout this ref

uses: actions/checkout@v2

with:

path: new-ref

fetch-depth: 0

- name: Get Diff

run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT \${{ github.event.pull\_request.base.sha }}

\${{ github.sha }} > refDiffFiles.txt

- name: Get Target Files

run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt

- name: Checkout scancode

uses: actions/checkout@v2

with:

repository: nexB/scancode-toolkit

path: scancode-toolkit

fetch-depth: 1

- name: Set up Python \${{ matrix.python-version }}

uses: actions/setup-python@v2

with:

python-version: \${{ matrix.python-version }}

# ScanCode

- name: Self-configure scancode

working-directory: ./scancode-toolkit

```

run: ./scancode --help
- name: Run Scan code on target
run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
- name: Run Scan code on pr ref
run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
compare
- name: License test
run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

```

```
package licensemanager
```

```

import (
"context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
if params == nil {
params = &ListReceivedLicensesInput{ }
}

result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
if err != nil {
return nil, err
}

out := result.(*ListReceivedLicensesOutput)
out.ResultMetadata = metadata
return out, nil
}

type ListReceivedLicensesInput struct {

// Filters to scope the results. The following filters are supported:
//
- ProductSKU
// - Status

```

```

// - Fingerprint
// - IssuerName
// - Beneficiary
Filters []types.Filter

// Amazon Resource Names (ARNs) of the licenses.
LicenseArns []string

// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string

noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

// Received license details.
Licenses []types.GrantedLicense

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{ }, middleware.After)
if err != nil {
return err
}
if
err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
}

```

```

if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil
{
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil

```

```

}

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region: region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "ListReceivedLicenses",
}
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
"context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license. If the account that created the license is
// the same that is performing the check out, you must specify the account as the
// beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
if params == nil {
params = &CheckoutLicenseInput{}
}

result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
if err != nil {
return nil, err
}

out := result.(*CheckoutLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type
CheckoutLicenseInput struct {

// Checkout type.

```

```

//
// This member is required.
CheckoutType types.CheckoutType

// Unique, case-sensitive identifier that you provide to ensure the idempotency of
// the request.
//
// This member is required.
ClientToken *string

// License entitlements.
//
// This member is required.
Entitlements []types.EntitlementData

// Key fingerprint identifying the license.
//
// This member is required.
KeyFingerprint *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// License beneficiary.
Beneficiary *string

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

// Checkout type.
CheckoutType types.CheckoutType

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

```

```

// Amazon Resource Name
// (ARN) of the checkout license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return
err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {

```



```

return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack, options); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
return err
}
if err
= addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
return &awsmiddleware.RegisterServiceMetadata{
Region: region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "CheckoutLicense",
}
}

```

```

}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
 params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary
 *string

 noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

```

```

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack,
options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {

```

```

 return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack);
err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CheckInLicense",
 }
}
{
 "smithy": "2.0",
 "shapes": {
 "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger": {
 "type": "integer"
 },
 "com.amazonaws.licensemanagerlinuxsubscriptions#BoxLong": {
 "type": "long"
 },
 "com.amazonaws.licensemanagerlinuxsubscriptions#Filter": {
 "type": "structure",
 "members": {
 "Name": {
 "target": "smithy.api#String",

```

```

 "traits": {
 "smithy.api#documentation": "<p>The type of name to filter by.</p>"
 }
 },
 "Values": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
 "traits": {
 "smithy.api#documentation": "<p>One or more values for the name to filter by.</p>"
 }
 },
 "Operator": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Operator",
 "traits": {
 "smithy.api#documentation": "<p>An operator for filtering results.</p>"
 }
 }
},
"traits": {
 "smithy.api#documentation": "<p>A filter object that is used to return more specific results from a describe operation.\n Filters can be used to match a set of resources by specific criteria.</p>"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#FilterList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Filter"
 }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettings": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerErrorException"
 },
 {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
 },
 {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
 }
]
},

```

```

"traits": {
 "smithy.api#documentation": "<p>Lists the Linux subscriptions service settings.</p>",
 "smithy.api#http": {
 "code": 200,
 "method": "POST",
 "uri": "/subscription/GetServiceSettings"
 },
 "smithy.api#idempotent": {}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsRequest": {
 "type": "structure",
 "members": {}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsResponse": {
 "type": "structure",
 "members": {
 "LinuxSubscriptionsDiscovery": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
 "traits": {
 "smithy.api#documentation": "<p>Lists if discovery has been enabled for Linux subscriptions.</p>"
 }
 },
 "LinuxSubscriptionsDiscoverySettings": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
 "traits": {
 "smithy.api#documentation": "<p>Lists the settings defined for Linux subscriptions discovery. The settings include if\n Organizations integration has been enabled, and which Regions data will be aggregated from.</p>"
 }
 },
 "Status": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Status",
 "traits": {
 "smithy.api#documentation": "<p>Indicates the status of Linux subscriptions settings being applied.</p>"
 }
 },
 "StatusMessage": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap",
 "traits": {
 "smithy.api#documentation": "<p>A message which details the Linux subscriptions service settings current status.</p>"
 }
 },
 "HomeRegions": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",

```

```

 "traits": {
 "smithy.api#documentation": "<p>The Region in which License Manager displays
the aggregated data for Linux\n subscriptions.</p>"
 }
 }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Instance": {
 "type": "structure",
 "members": {
 "AmiId": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The AMI ID used to launch the instance.</p>"
 }
 },
 "InstanceID": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The instance ID of the resource.</p>"
 }
 },
 "InstanceType": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The instance type of the resource.</p>"
 }
 }
 },
 "AccountID": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The account ID which owns the instance.</p>"
 }
 },
 "Status": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The status of the instance.</p>"
 }
 },
 "Region": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The Region the instance is running in.</p>"
 }
 },
 "UsageOperation": {

```

```

 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The usage operation of the instance. For more information, see For
more information, see\n <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/linux-
subscriptions-usage-operation.html\">Usage\n operation values in the <i>License Manager User
Guide</i>.</p>"
 }
 },
 "ProductCode": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ProductCodeList",
 "traits": {
 "smithy.api#documentation": "<p>The product code for the instance. For more information, see <a
href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/linux-subscriptions-usage-
operation.html\">Usage\n operation values in the <i>License Manager User Guide</i> .</p>"
 }
 },
 "LastUpdatedTime": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The time in which the last discovery
updated the instance details.</p>"
 }
 },
 "SubscriptionName": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The name of the subscription being used by the instance.</p>"
 }
 }
},
"traits": {
 "smithy.api#documentation": "<p>Details discovered information about a running instance using Linux
subscriptions.</p>"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#InstanceList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Instance"
 }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerError": {
 "type": "structure",
 "members": {
 "message": {
 "target": "smithy.api#String"
 }
 }
},

```



```

"traits": {
 "smithy.api#documentation": "<p>An exception occurred with the service.</p>",
 "smithy.api#error": "server"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#LicenseManagerLinuxSubscriptions": {
 "type": "service",
 "version": "2018-05-10",
 "operations": [
 {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettings"
 },
 {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstances"
 },
 {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptions"
 },
 {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettings"
 }
],

"traits": {
 "aws.api#service": {
 "sdkId": "License Manager Linux Subscriptions",
 "arnNamespace": "license-manager-linux-subscriptions",
 "cloudTrailEventSource": "license-manager-linux-subscriptions.amazonaws.com"
 },
 "aws.auth#sigv4": {
 "name": "license-manager-linux-subscriptions"
 },
 "aws.protocols#restJson1": {},
 "smithy.api#cors": {
 "additionalAllowedHeaders": [
 "*",
 "content-type",
 "x-amz-content-sha256",
 "x-amz-user-agent",
 "x-amzn-platform-id",
 "x-amzn-trace-id",
 "content-length",
 "x-api-key",
 "authorization",
 "x-amz-date",

"x-amz-security-token",
 "Access-Control-Allow-Headers",

```

```

 "Access-Control-Allow-Methods",
 "Access-Control-Allow-Origin"
],
 "additionalExposedHeaders": [
 "x-amzn-errortype",
 "x-amzn-requestid",
 "x-amzn-trace-id"
]
},
"smithy.api#documentation": "<p>With License Manager, you can discover and track your commercial
Linux subscriptions on running Amazon EC2 instances.</p>",
"smithy.api#title": "AWS License Manager Linux Subscriptions",
"smithy.rules#endpointRuleSet": {
 "version": "1.0",
 "parameters": {
 "Region": {
 "builtIn": "AWS::Region",
 "required": false,
 "documentation": "The
AWS region used to dispatch the request.",
 "type": "String"
 },
 "UseDualStack": {
 "builtIn": "AWS::UseDualStack",
 "required": true,
 "default": false,
 "documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not
support dual-stack, dispatching the request MAY return an error.",
 "type": "Boolean"
 },
 "UseFIPS": {
 "builtIn": "AWS::UseFIPS",
 "required": true,
 "default": false,
 "documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the
configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
 "type": "Boolean"
 },
 "Endpoint": {
 "builtIn": "SDK::Endpoint",
 "required": false,
 "documentation": "Override the endpoint used to send this request",
 "type": "String"
 }
 },
 "rules": [
 {

```

```

"conditions": [
 {
 "fn": "isSet",
 "argv": [
 {
 "ref": "Endpoint"
 }
]
 }
],
"type": "tree",
"rules": [
 {

 "conditions": [
 {
 "fn": "booleanEquals",
 "argv": [
 {
 "ref": "UseFIPS"
 },
 true
]
 }
],
 "error": "Invalid Configuration: FIPS and custom endpoint are not supported",
 "type": "error"
 },
 {
 "conditions": [],
 "type": "tree",
 "rules": [
 {

 "conditions": [
 {
 "fn": "booleanEquals",
 "argv": [
 {
 "ref": "UseDualStack"
 },
 true
]
 }
],
 "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
 "type": "error"
 },

```

```

 {
 "conditions": [],

 "endpoint": {
 "url": {
 "ref": "Endpoint"
 },
 "properties": {},
 "headers": {}
 },
 "type": "endpoint"
 }
]
}
],
{
 "conditions": [],
 "type": "tree",
 "rules": [
 {
 "conditions": [
 {
 "fn": "isSet",

"argv": [
 {
 "ref": "Region"
 }
]
 }
],
 "type": "tree",
 "rules": [
 {
 "conditions": [
 {
 "fn": "aws.partition",
 "argv": [
 {
 "ref": "Region"
 }
]
 }
],

"assign": "PartitionResult"
 }
],
 "type": "tree",

```

```

"rules": [
 {
 "conditions": [
 {
 "fn": "booleanEquals",
 "argv": [
 {
 "ref": "UseFIPS"
 },
 true
]
 },
 {
 "fn": "booleanEquals",
 "argv": [
 {
 "ref": "UseDualStack"
 },
 true
]
 }
],
 "type": "tree",
 "rules": [
 {
 "conditions": [
 {
 "fn": "booleanEquals",
 "argv": [
 true,
 {
 "fn": "getAttr",
 "argv": [
 {
 "ref": "PartitionResult"
 },
 "supportsFIPS"
]
 }
]
 }
]
 },
 {
 "fn": "booleanEquals",
 "argv": [
 true,

```

```

 {
 "fn": "getAttr",
 "argv": [
 {
 "ref": "PartitionResult"
 },
],

 "supportsDualStack"
]
 }
],
"type": "tree",
"rules": [
 {
 "conditions": [],
 "type": "tree",
 "rules": [
 {
 "conditions": [],
 "endpoint": {
 "url": "https://license-manager-linux-subscriptions-
fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
 "properties": {},
 "headers": {}
 },
 "type": "endpoint"
 }
]
 }
]
},
{
 "conditions": [],
 "error": "FIPS and DualStack are enabled, but this partition does not support
one or both",
 "type": "error"
}
],
{
 "conditions": [
 {
 "fn": "booleanEquals",
 "argv": [

```

```

 {
 "ref": "UseFIPS"
 },
 true
]
}
],
"type": "tree",
"rules": [
 {
 "conditions": [
 {
 "fn": "booleanEquals",
 "argv": [
 true,
 {
 "fn": "getAttr",
 "argv": [
 {
 "ref": "PartitionResult"
 },
 "supportsFIPS"
]
 }
]
 }
]
 },
 {
 "fn": "getAttr",
 "argv": [
 {
 "ref": "PartitionResult"
 },
 "supportsFIPS"
]
 }
]
],
"type": "tree",
"rules": [
 {
 "conditions": [],
 "type": "tree",
 "rules": [
 {
 "conditions": [],
 "endpoint": {
 "url": "https://license-manager-linux-subscriptions-
fips.{Region}.{PartitionResult#dnsSuffix}",
 "properties": {},
 "headers": {}
 },
 "type": "endpoint"
 }
]
 }
]

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 }
]
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 {
 "conditions": [],
 "error": "FIPS is enabled but this partition does not support FIPS",
 "type": "error"
 }
]
},
{
 "conditions": [
 {
 "fn": "booleanEquals",
 "argv": [
 {
 "ref": "UseDualStack"
 },
 true
]
 }
],
 "type": "tree",
 "rules": [
 {
 "conditions": [
 {
 "fn": "booleanEquals",
 "argv": [
 true,
 {
 "fn": "getAttr",
 "argv": [
 {
 "ref": "PartitionResult"
 },
 "supportsDualStack"
]
 }
]
 }
],
 "type": "tree",
 "rules": [
 {
 "conditions": [],

```



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 "type": "tree",
 "rules": [
 {
 "conditions": [],

 "endpoint": {
 "url": "https://license-manager-linux-
subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
 "properties": {},
 "headers": {}
 },
 "type": "endpoint"
 }
]
 },
 {
 "conditions": [],
 "error": "DualStack is enabled but this partition does not support DualStack",
 "type": "error"
 }
],
{
 "conditions": [],
 "type": "tree",
 "rules": [
 {
 "conditions": [],
 "endpoint": {
 "url":
"https://license-manager-linux-subscriptions.{Region}.{PartitionResult#dnsSuffix}",
 "properties": {},
 "headers": {}
 },
 "type": "endpoint"
 }
]
}
],
},
{
 "conditions": [],
 "error": "Invalid Configuration: Missing Region",

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 "type": "error"
 }
]
 }
],
},
"smithy.rules#endpointTests": {
 "testCases": [
 {
 "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-linux-subscriptions-fips.us-gov-east-1.api.aws"
 }
 },
 "params": {
 "UseDualStack": true,
 "UseFIPS": true,
 "Region": "us-gov-east-1"
 }
 },
 {
 "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-linux-subscriptions-fips.us-gov-east-1.amazonaws.com"
 }
 },
 "params": {
 "UseDualStack": false,
 "UseFIPS": true,
 "Region": "us-gov-east-1"
 }
 },
 {
 "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack enabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-linux-subscriptions.us-gov-east-1.api.aws"
 }
 },
 "params": {
 "UseDualStack": true,
 "UseFIPS": false,
 "Region": "us-gov-east-1"
 }
 }
]
}

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 },
 {
 "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-linux-subscriptions.us-gov-east-1.amazonaws.com"
 }
 },
 "params": {
 "UseDualStack": false,
 "UseFIPS": false,
 "Region": "us-gov-east-1"
 }
 },
 {
 "documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-linux-subscriptions-fips.cn-north-1.api.amazonwebservices.com.cn"
 }
 },
 "params": {
 "UseDualStack": true,
 "UseFIPS": true,
 "Region": "cn-north-1"
 }
 },
 {
 "documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-linux-subscriptions-fips.cn-north-1.amazonaws.com.cn"
 }
 },
 "params": {
 "UseDualStack": false,
 "UseFIPS": true,
 "Region": "cn-north-1"
 }
 },
 {
 "documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-linux-subscriptions.cn-north-1.api.amazonwebservices.com.cn"
 }
 }
 }
]
}

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 }
 },
 "params": {
 "UseDualStack": true,
 "UseFIPS": false,
 "Region": "cn-north-1"
 }
},
{
 "documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
 "expect":
{
 "endpoint": {
 "url": "https://license-manager-linux-subscriptions.cn-north-1.amazonaws.com.cn"
 }
},
 "params": {
 "UseDualStack": false,
 "UseFIPS": false,
 "Region": "cn-north-1"
 }
},
{
 "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
 "expect": {
 "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
 },
 "params": {
 "UseDualStack": true,
 "UseFIPS": true,
"Region": "us-iso-east-1"
 }
},
{
 "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-linux-subscriptions-fips.us-iso-east-1.c2s.ic.gov"
 }
 },
 "params": {
 "UseDualStack": false,
 "UseFIPS": true,
 "Region": "us-iso-east-1"
 }
},
{

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 "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
 "expect": {
 "error": "DualStack is enabled but
this partition does not support DualStack"
 },
 "params": {
 "UseDualStack": true,
 "UseFIPS": false,
 "Region": "us-iso-east-1"
 }
 },
 {
 "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-linux-subscriptions.us-iso-east-1.c2s.ic.gov"
 }
 },
 "params": {
 "UseDualStack": false,
 "UseFIPS": false,
 "Region": "us-iso-east-1"
 }
 },
 {
 "documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-linux-subscriptions-fips.us-east-1.api.aws"
 }
 },
 "params": {
 "UseDualStack": true,
 "UseFIPS": true,
 "Region": "us-east-1"
 }
 },
 {
 "documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-linux-subscriptions-fips.us-east-1.amazonaws.com"
 }
 },
 "params": {
 "UseDualStack": false,
 "UseFIPS": true,

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 "Region": "us-east-1"
 }
},
{
 "documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-linux-subscriptions.us-east-1.api.aws"
 }
 },
 "params": {
 "UseDualStack": true,
 "UseFIPS": false,
 "Region": "us-east-1"
 }
},
{
 "documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-linux-subscriptions.us-east-1.amazonaws.com"
 }
 },
 "params": {
 "UseDualStack": false,
 "UseFIPS": false,
 "Region": "us-east-1"
 }
},
{
 "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
 "expect": {
 "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
 },
 "params": {
 "UseDualStack": true,
 "UseFIPS": true,
 "Region": "us-isob-east-1"
 }
},
{
 "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-linux-subscriptions-fips.us-isob-east-1.sc2s.sgov.gov"
 }
 }
}

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 },
 "params": {
 "UseDualStack": false,
 "UseFIPS": true,
 "Region": "us-isob-east-1"
 }
 },
 {
 "documentation": "For region us-isob-east-1 with FIPS disabled
and DualStack enabled",
 "expect": {
 "error": "DualStack is enabled but this partition does not support DualStack"
 },
 "params": {
 "UseDualStack": true,
 "UseFIPS": false,
 "Region": "us-isob-east-1"
 }
 },
 {
 "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-linux-subscriptions.us-isob-east-1.sc2s.sgov.gov"
 }
 },
 "params": {
 "UseDualStack": false,
 "UseFIPS": false,
 "Region": "us-isob-east-1"
 }
 },
 {
 "documentation": "For custom endpoint with fips disabled and dualstack disabled",
 "expect": {
 "endpoint": {
 "url": "https://example.com"
 }
 },
 "params": {
 "UseDualStack": false,
 "UseFIPS": false,
 "Region": "us-east-1",
 "Endpoint": "https://example.com"
 }
 },
 {

```

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 "documentation": "For custom endpoint with fips enabled and dualstack disabled",
 "expect": {
 "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
 },
 "params": {
 "UseDualStack": false,
 "UseFIPS": true,
 "Region": "us-east-1",
 "Endpoint": "https://example.com"
 }
 },
 {
 "documentation": "For custom endpoint with fips disabled and dualstack enabled",
 "expect": {
 "error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
 },
 "params": {
 "UseDualStack": true,
 "UseFIPS": false,
 "Region": "us-east-1",
 "Endpoint": "https://example.com"
 }
 }
],
 "version": "1.0"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery": {
 "type": "string",
 "traits": {
 "smithy.api#enum": [
 {
 "name": "Enabled",
 "value": "Enabled",
 "documentation": "Enabled LinuxSubscriptionsDiscovery"
 },
 {
 "name": "Disabled",
 "value": "Disabled",
 "documentation": "Disabled LinuxSubscriptionsDiscovery"
 }
]
 }
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings": {

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"type": "structure",
"members": {

 "SourceRegions": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
 "traits": {
 "smithy.api#documentation": "<p>The Regions in which to discover data for Linux
subscriptions.</p>",
 "smithy.api#required": {}
 }
 },
 "OrganizationIntegration": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#OrganizationIntegration",
 "traits": {
 "smithy.api#documentation": "<p>Details if you have enabled resource discovery across your
accounts in Organizations.</p>",
 "smithy.api#required": {}
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>Lists the settings defined for discovering Linux subscriptions.</p>"
 },
 "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstances":
{
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerErrorException"
 },
 {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
 },
 {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Lists the running Amazon EC2 instances that were discovered with
commercial Linux\n

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```

subscriptions.</p>",
 "smithy.api#http": {
 "code": 200,
 "method": "POST",
 "uri": "/subscription/ListLinuxSubscriptionInstances"
 },
 "smithy.api#idempotent": {},
 "smithy.api#paginated": {
 "inputToken": "NextToken",
 "outputToken": "NextToken",
 "pageSize": "MaxResults",
 "items": "Instances"
 }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesRequest": {
 "type": "structure",
 "members": {
 "Filters": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList",
 "traits": {
 "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those
that match one or
more sets of key-value pairs that you specify. For example, you can filter by the name of
<code>AmiID</code> with an optional operator to see subscriptions that match, partially
match, or don't match
a certain Amazon Machine Image (AMI) ID.</p>
<p>The valid names for this filter are:</p>

<p>
<code>AmiID</code>
</p>

<p>
<code>InstanceID</code>
</p>

<p>
<code>AccountID</code>
</p>

<p>
<code>Status</code>
</p>

<p>
<code>Region</code>
</p>

<p>
<code>UsageOperation</code>
</p>

<p>
<code>ProductCode</code>
</p>

<p>
<code>InstanceType</code>
</p>

<p>The valid Operators for this filter are:</p>

<p>
<code>contains</code>
</p>

<p>
<code>equals</code>
</p>

<p>
<code>Notequal</code>
</p>

"
 }
 },
 "MaxResults": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger",
 "traits": {
 "smithy.api#documentation":
"<p>Maximum number of results to return in a single call.</p>"
 }
 },
 "NextToken": {

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 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>",
 "smithy.api#length": {
 "min": 1,
 "max": 16384
 }
 }
 },
 "traits": {
 "smithy.api#documentation": "NextToken length limit is half of ddb accepted limit.\nIncrease this limit if
parameters in request increases."
 }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesResponse": {
 "type": "structure",
 "members": {
 "Instances": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InstanceList",
 "traits": {
 "smithy.api#documentation": "<p>An array that contains instance objects.</p>"
 }
 },
 "NextToken": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 }
 }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptions": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerErrorException"
 },
 {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
 }
]
}

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 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
 }
],
"traits": {
 "smithy.api#documentation": "<p>Lists the Linux subscriptions that have been discovered. If you have
linked your\n organization, the returned results will include data aggregated across your accounts in\n
Organizations.</p>",
 "smithy.api#http": {
 "code": 200,
 "method": "POST",
 "uri": "/subscription/ListLinuxSubscriptions"
 },
 "smithy.api#idempotent": {},
 "smithy.api#paginated": {
 "inputToken": "NextToken",
 "outputToken": "NextToken",
 "pageSize": "MaxResults",
 "items": "Subscriptions"
 }
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsRequest": {
 "type": "structure",
 "members": {
 "Filters": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList",
 "traits": {
 "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those
that match one or\n more sets of key-value pairs that you specify. For example, you can filter by the name of\n
<code>Subscription</code> with an optional operator to see subscriptions that match,\n partially match, or don't
match a certain subscription's name.</p>\n <p>The valid names for this filter are:</p>\n \n
\n <p>\n <code>Subscription</code>\n </p>\n \n
\n <p>The valid Operators for this filter are:</p>\n \n \n <p>\n <code>contains</code>\n </p>\n \n \n <p>\n <code>equals</code>\n </p>\n \n \n <p>\n <code>Notequal</code>\n </p>\n \n "
 }
 },
 "MaxResults": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger",
 "traits": {
 "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
 }
 },
 "NextToken": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the

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next set of results.</p>",
 "smithy.api#length": {
 "min": 1,
 "max": 16384
 }
}
},
"traits": {
 "smithy.api#documentation": "NextToken length limit is half of ddb accepted limit.\nIncrease this limit if
parameters in request increases."
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsResponse": {
 "type": "structure",
 "members": {
 "Subscriptions": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionList",
 "traits": {
 "smithy.api#documentation": "<p>An array that contains subscription objects.</p>"
 }
 },
 "NextToken": {
 "target": "smithy.api#String",

"traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Operator": {
 "type": "string",
 "traits": {
 "smithy.api#enum": [
 {
 "name": "EQUAL",
 "value": "Equal",
 "documentation": "Equal operator"
 },
 {
 "name": "NOT_EQUAL",
 "value": "NotEqual",
 "documentation": "Not equal operator"
 },
 {
 "name": "CONTAINS",
 "value": "Contains",

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 "documentation": "Contains operator"
 }
],
 "smithy.api#length": {
 "min": 1,
 "max": 20
 }
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#OrganizationIntegration": {
 "type": "string",
 "traits": {
 "smithy.api#enum": [
 {
 "name": "Enabled",
 "value": "Enabled",
 "documentation": "Enabled OrganizationIntegration"
 },
 {
 "name": "Disabled",
 "value": "Disabled",
 "documentation": "Disabled OrganizationIntegration"
 }
]
 }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ProductCodeList": {
 "type": "list",
 "member": {
 "target": "smithy.api#String"
 }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Status": {
 "type": "string",
 "traits": {
 "smithy.api#enum": [
 {
 "name": "InProgress",
 "value": "InProgress",
 "documentation": "InProgress status"
 },
 {
 "name": "Completed",
 "value": "Completed",
 "documentation": "Completed status"
 },
 {
 "name": "Successful",

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 "value": "Successful",
 "documentation": "Successful status"
 },
 {
 "name": "Failed",
 "value": "Failed",
 "documentation": "Failed status"
 }
]
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#StringList": {
 "type": "list",
 "member": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#length": {
 "min": 1,
 "max": 100
 }
 }
 },
 "traits": {
 "smithy.api#length": {
 "min": 1,
 "max": 100
 },
 "smithy.api#uniqueItems": {}
 }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#StringMap": {
 "type": "map",
 "key": {
 "target": "smithy.api#String"
 },
 "value": {
 "target": "smithy.api#String"
 }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Subscription": {
 "type": "structure",
 "members": {
 "Name": {
 "target": "smithy.api#String",
 "traits": {

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"smithy.api#documentation": "<p>The name of the subscription.</p>"
 }
},
"Type": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The type of subscription. The type can be subscription-included
with Amazon EC2, Bring Your Own\n Subscription model (BYOS), or from the Amazon Web Services
Marketplace. Certain subscriptions may use licensing from the\n Amazon Web Services Marketplace as well as
OS licensing from Amazon EC2 or BYOS.</p>"
 }
},
"InstanceCount": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxLong",
 "traits": {
 "smithy.api#documentation": "<p>The total amount of running instances using this subscription.</p>"
 }
}
},
"traits": {
 "smithy.api#documentation": "<p>An object which details a discovered Linux subscription.</p>"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Subscription"
 }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException": {
 "type": "structure",
 "members": {
 "message": {
 "target": "smithy.api#String"
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>The request was denied due to request throttling.</p>",
 "smithy.api#error": "client"
 }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettings": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsRequest"
 },
 "output": {

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 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerErrorException"
 },
 {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
 },
 {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Updates the service settings for Linux subscriptions.</p>",
 "smithy.api#http": {
 "code": 200,
 "method": "POST",
 "uri": "/subscription/UpdateServiceSettings"
 },
 "smithy.api#idempotent": {}
 },
 "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsRequest": {
 "type": "structure",
 "members": {
 "LinuxSubscriptionsDiscovery": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
 "traits": {
 "smithy.api#documentation": "<p>Describes if the discovery of Linux subscriptions is enabled.</p>",
 "smithy.api#required": {}
 }
 },
 "LinuxSubscriptionsDiscoverySettings": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
 "traits": {
 "smithy.api#documentation": "<p>The settings defined for Linux subscriptions discovery. The settings include if Organizations\n integration has been enabled, and which Regions data will be aggregated from.</p>",
 "smithy.api#required": {}
 }
 },
 "AllowUpdate": {
 "target": "smithy.api#Boolean",
 "traits": {
 "smithy.api#documentation": "<p>Describes if updates are allowed to the service settings for Linux subscriptions. If you\n allow updates, you can aggregate Linux subscription data in more than one home

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Region.</p>
 }
 }
 },
"com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsResponse": {
 "type": "structure",
 "members": {
 "LinuxSubscriptionsDiscovery": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
 "traits": {
 "smithy.api#documentation": "<p>Lists if discovery has been enabled
for Linux subscriptions.</p>"
 }
 },
 "LinuxSubscriptionsDiscoverySettings": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
 "traits": {
 "smithy.api#documentation": "<p>The settings defined for Linux subscriptions discovery. The
settings include if Organizations\n integration has been enabled, and which Regions data will be aggregated
from.</p>"
 }
 },
 "Status": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Status",
 "traits": {
 "smithy.api#documentation": "<p>Indicates the status of Linux subscriptions settings being
applied.</p>"
 }
 },
 "StatusMessage": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap",
 "traits": {
 "smithy.api#documentation": "<p>A message which details the Linux subscriptions service settings
current status.</p>"
 }
 },
 "HomeRegions": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
 "traits": {
 "smithy.api#documentation": "<p>The Region in which License Manager displays the aggregated
data for Linux\n subscriptions.</p>"
 }
 }
 }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException": {
 "type": "structure",

```

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"members": {
 "message": {
 "target": "smithy.api#String"
 }
},
"traits": {
 "smithy.api#documentation": "<p>The provided input is not valid. Try your request again.</p>",
 "smithy.api#error":
"client"
 }
}
}
{
"smithy": "2.0",
"shapes": {
 "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException": {
 "type": "structure",
 "members": {
 "message": {
 "target": "smithy.api#String"
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>You don't have sufficient access to perform this action.</p>",
 "smithy.api#error": "client"
 }
 },
 "com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryIdentityProvider": {
 "type": "structure",
 "members": {
 "DirectoryId": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The directory ID for an Active Directory identity provider.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#documentation":
"<p>Details about an Active Directory identity provider.</p>"
 }
 },
 "com.amazonaws.licensemanagerusersubscriptions#AssociateUser": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUserRequest"
 },

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"output": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#AssociateUserResponse"
},
"errors": [
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ConflictException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#InternalServerError"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ResourceNotFoundException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ServiceQuotaExceededException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ThrottlingException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ValidationException"
 }
],
"traits": {
 "smithy.api#documentation": "<p>Associates the user to an EC2 instance to utilize user-based
subscriptions.</p>\n <note>\n <p>Your estimated bill for charges on the number of users and related
costs will take 48\n hours to appear for billing periods that haven't closed (marked as Pending billing
status) in Amazon Web Services Billing. For more information, see Viewing your\n
monthly charges in the <i>Amazon Web Services Billing User Guide</i>.</p>\n </note>",
 "smithy.api#http": {
 "code": 200,
 "method": "POST",
 "uri": "/user/AssociateUser"
 },
 "smithy.api#idempotent": {}
}
},
"com.amazonaws.licenseanagerusersubscriptions#AssociateUserRequest": {
 "type": "structure",
 "members": {
 "Username": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",

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 "smithy.api#required": {}
 }
},
"InstanceId": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The ID of the
EC2 instance, which provides user-based subscriptions.</p>",
 "smithy.api#required": {}
 }
},
"IdentityProvider": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#IdentityProvider",
 "traits": {
 "smithy.api#documentation": "<p>The identity provider of the user.</p>",
 "smithy.api#required": {}
 }
},
"Domain": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The domain name of the user.</p>"
 }
}
},
"com.amazonaws.licenseanagerusersubscriptions#AssociateUserResponse": {
 "type": "structure",
 "members": {
 "InstanceUserSummary": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#InstanceUserSummary",
 "traits": {
 "smithy.api#documentation": "<p>Metadata that describes the associate user operation.</p>",
 "smithy.api#required": {}
 }
 }
 }
},
"com.amazonaws.licenseanagerusersubscriptions#BoxInteger": {
 "type": "integer"
},
"com.amazonaws.licenseanagerusersubscriptions#ConflictException": {
 "type": "structure",
 "members": {
 "message": {
 "target": "smithy.api#String"
 }
 }
},

```

```

 "traits": {
 "smithy.api#documentation": "<p>The request couldn't be completed because it conflicted with the current
state of the\n resource.</p>",
 "smithy.api#error": "server"
 }
 },
 "com.amazonaws.licenseanagerusersubscriptions#DeregisterIdentityProvider":
 {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#DeregisterIdentityProviderRequest"
 },
 "output": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#DeregisterIdentityProviderResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ConflictException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#InternalServerErrorException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ResourceNotFoundException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ServiceQuotaExceededException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ThrottlingException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Deregisters the identity provider from providing user-based
subscriptions.</p>",
 "smithy.api#http": {
 "code": 200,
 "method": "POST",
 "uri": "/identity-provider/DeregisterIdentityProvider"
 },
 "smithy.api#idempotent": {}
 }
 }

```

```

 },
 "com.amazonaws.licenseanagerusersubscriptions#DeregisterIdentityProviderRequest": {
 "type": "structure",
 "members": {
 "IdentityProvider": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#IdentityProvider",
 "traits": {
 "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
 "smithy.api#required": {}
 }
 },
 "Product": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
 "smithy.api#required": {}
 }
 }
 }
 },
 "com.amazonaws.licenseanagerusersubscriptions#DeregisterIdentityProviderResponse": {
 "type": "structure",
 "members": {
 "IdentityProviderSummary": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#IdentityProviderSummary",
 "traits": {
 "smithy.api#documentation":
"<p>Metadata that describes the results of an identity provider operation.</p>",
 "smithy.api#required": {}
 }
 }
 }
 },
 "com.amazonaws.licenseanagerusersubscriptions#DisassociateUser": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#DisassociateUserRequest"
 },
 "output": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#DisassociateUserResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ConflictException"
 }
]
 }
 }

```

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 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#InternalServerErrorException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ResourceNotFoundException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ServiceQuotaExceededException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ThrottlingException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Disassociates the user from an EC2 instance providing user-based
subscriptions.</p>",
 "smithy.api#http": {
 "code": 200,
 "method": "POST",
 "uri": "/user/DisassociateUser"
 },
 "smithy.api#idempotent": {}
 }
},
"com.amazonaws.licenseanagerusersubscriptions#DisassociateUserRequest": {
 "type": "structure",
 "members": {
 "Username": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
 "smithy.api#required": {}
 }
 },
 "InstanceId": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
 "smithy.api#required": {}
 }
 },
 "IdentityProvider": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#IdentityProvider",

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 "traits": {
 "smithy.api#documentation":
"<p>An object that specifies details for the identity provider.</p>",
 "smithy.api#required": {}
 }
 },
 "Domain": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The domain name of the user.</p>"
 }
 }
},
"com.amazonaws.licenseanagerusersubscriptions#DisassociateUserResponse": {
 "type": "structure",
 "members": {
 "InstanceUserSummary": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#InstanceUserSummary",
 "traits": {
 "smithy.api#documentation": "<p>Metadata that describes the associate user operation.</p>",
 "smithy.api#required": {}
 }
 }
 }
},

"com.amazonaws.licenseanagerusersubscriptions#Filter": {
 "type": "structure",
 "members": {
 "Attribute": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The name of an attribute to use as a filter.</p>"
 }
 },
 "Operation": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The type of search (For example, eq, geq, leq)</p>"
 }
 },
 "Value": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>Value of the filter.</p>"
 }
 }
 }
}

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 },
 "traits": {
 "smithy.api#documentation": "<p>A filter name and value pair that is used
to return more specific results from a describe\n operation. Filters can be used to match a set of resources by
specific criteria, such as tags,\n attributes, or IDs.</p>"
 }
 },
 "com.amazonaws.licensemanagerusersubscriptions#FilterList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanagerusersubscriptions#Filter"
 }
 },
 "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider": {
 "type": "union",
 "members": {
 "ActiveDirectoryIdentityProvider": {
 "target": "com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryIdentityProvider",
 "traits": {
 "smithy.api#documentation": "<p>An object that details an Active Directory identity provider.</p>"
 }
 }
 }
 },
 "traits": {
 "smithy.api#documentation":
"<p>Details about an identity provider.</p>"
 }
},
"com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary": {
 "type": "structure",
 "members": {
 "IdentityProvider": {
 "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
 "traits": {
 "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
 "smithy.api#required": {}
 }
 }
 },
 "Settings": {
 "target": "com.amazonaws.licensemanagerusersubscriptions#Settings",
 "traits": {
 "smithy.api#documentation": "<p>An object that details the registered identity providers product
related configuration\n settings such as the subnets to provision VPC endpoints.</p>",
 "smithy.api#required":
{}
 }
 }
},
"Product": {

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 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
 "smithy.api#required": {}
 }
 },
 "Status": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The status of an identity provider.</p>",
 "smithy.api#required": {}
 }
 },
 "FailureMessage": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The failure message associated with an identity provider.</p>"
 }
 },
 "traits": {
 "smithy.api#documentation":
 "<p>Describes an identity provider.</p>"
 },
 "com.amazonaws.licenseanagerusersubscriptions#IdentityProviderSummaryList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#IdentityProviderSummary"
 }
 },
 "com.amazonaws.licenseanagerusersubscriptions#InstanceSummary": {
 "type": "structure",
 "members": {
 "InstanceId": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
 "smithy.api#required": {}
 }
 },
 "Status": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The status
of an EC2 instance resource.</p>",
 "smithy.api#required": {}
 }
 }
 }
 }
}

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 }
 },
 "Products": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#StringList",
 "traits": {
 "smithy.api#documentation": "<p>A list of provided user-based subscription products.</p>",
 "smithy.api#required": {}
 }
 },
 "LastStatusCheckDate": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The date of the last status check.</p>"
 }
 },
 "StatusMessage": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The status message for an EC2 instance.</p>"
 }
 }
}
},
"traits": {
 "smithy.api#documentation": "<p>Describes an EC2 instance providing user-based subscriptions.</p>"
}
},
"com.amazonaws.licenseanagerusersubscriptions#InstanceSummaryList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#InstanceSummary"
 }
},
"com.amazonaws.licenseanagerusersubscriptions#InstanceUserSummary": {
 "type": "structure",
 "members": {
 "Username": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
 "smithy.api#required": {}
 }
 }
 },
 "InstanceId": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based

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subscriptions.</p>",
 "smithy.api#required": {}
 }
},
"IdentityProvider": {
 "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
 "traits": {
 "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
 "smithy.api#required": {}
 }
},
"Status": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The status of a user associated with an EC2 instance.</p>",
 "smithy.api#required": {}
 }
},
"StatusMessage": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The status message for users of an EC2 instance.</p>"
 }
},
"Domain": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The domain name of the user.</p>"
 }
},
"AssociationDate": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The date a user was associated with an EC2 instance.</p>"
 }
},
"DisassociationDate": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The date a user was disassociated from an EC2 instance.</p>"
 }
}
},
"traits": {
 "smithy.api#documentation": "<p>Describes users of an EC2 instance providing user-based
subscriptions.</p>"
}

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 },
 "com.amazonaws.licenseanagerusersubscriptions#InstanceUserSummaryList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#InstanceUserSummary"
 }
 },
 "com.amazonaws.licenseanagerusersubscriptions#InternalServerError": {
 "type": "structure",
 "members": {
 "message": {
 "target": "smithy.api#String"
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>An exception occurred with the service.</p>",
 "smithy.api#error": "server"
 }
 },
 "com.amazonaws.licenseanagerusersubscriptions#LicenseManagerUserSubscriptions": {
 "type": "service",

 "version": "2018-05-10",
 "operations": [
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#AssociateUser"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#DeregisterIdentityProvider"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#DisassociateUser"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ListIdentityProviders"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ListInstances"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ListProductSubscriptions"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ListUserAssociations"
 }
],
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#RegisterIdentityProvider"
 }
 }
 }

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 },
 {
 "target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscription"
 },
 {
 "target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscription"
 },
 {
 "target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettings"
 }
],
 "traits": {
 "aws.api#service": {
 "sdkId": "License Manager User Subscriptions",
 "arnNamespace": "license-manager-user-subscriptions",
 "cloudTrailEventSource": "license-manager-user-subscriptions.amazonaws.com"
 },
 "aws.auth#sigv4": {
 "name": "license-manager-user-subscriptions"
 },
 "aws.protocols#restJson1": {},
 "smithy.api#cors": {
 "additionalAllowedHeaders": [
 "*",
 "content-type",
 "x-amz-content-sha256",
 "x-amz-user-agent",
 "x-amzn-platform-id",
 "x-amzn-trace-id",
 "content-length",
 "x-api-key",
 "authorization",
 "x-amz-date",
 "x-amz-security-token",
 "Access-Control-Allow-Headers",
 "Access-Control-Allow-Methods",
 "Access-Control-Allow-Origin"
],
 "additionalExposedHeaders": [
 "x-amzn-errortype",
 "x-amzn-requestid",
 "x-amzn-trace-id"
]
 }
]
},
 "smithy.api#documentation": "<p>With License Manager, you can create user-based subscriptions to utilize licensed software with a per user subscription fee on Amazon EC2 instances.</p>",
 "smithy.api#title": "AWS License Manager User Subscriptions",

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```

"smithy.rules#endpointRuleSet": {
 "version": "1.0",
 "parameters": {
 "Region": {
 "builtIn": "AWS::Region",
 "required": false,
 "documentation": "The AWS region used to dispatch the request.",
 "type": "String"
 },
 "UseDualStack": {
 "builtIn": "AWS::UseDualStack",
 "required": true,
 "default": false,
 "documentation": "When true, use the dual-stack
endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
 "type": "Boolean"
 },
 "UseFIPS": {
 "builtIn": "AWS::UseFIPS",
 "required": true,
 "default": false,
 "documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the
configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
 "type": "Boolean"
 },
 "Endpoint": {
 "builtIn": "SDK::Endpoint",
 "required": false,
 "documentation": "Override the endpoint used to send this request",
 "type": "String"
 }
 },
 "rules": [
 {
 "conditions": [
 {
 "fn": "isSet",
 "argv": [
 {
 "ref": "Endpoint"
 }
]
 }
],
 "type": "tree",
 "rules": [
 {

```



```

"conditions": [
 {
 "fn": "booleanEquals",
 "argv": [
 {
 "ref": "UseFIPS"
 },
 true
]
 }
],
"error": "Invalid Configuration: FIPS and custom endpoint are not supported",
"type": "error"
},
{
 "conditions": [],
 "type": "tree",
 "rules": [
 {
 "conditions": [
 {
 "fn": "booleanEquals",
 "argv": [
 {
 "ref": "UseDualStack"
 },
 true
]
 }
],
 "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
 "type": "error"
 },
 {
 "conditions": [],
 "endpoint": {
 "url": {
 "ref": "Endpoint"
 },
 "properties": {},
 "headers": {}
 },
 "type": "endpoint"
 }
]
},

```

```

 }
]
},
{
 "conditions": [],
 "type": "tree",
 "rules": [
 {
 "conditions": [
 {
 "fn": "isSet",
 "argv": [
 {
 "ref": "Region"
 }
]
 }
]
 }
],
 "type": "tree",
"rules": [
 {
 "conditions": [
 {
 "fn": "aws.partition",
 "argv": [
 {
 "ref": "Region"
 }
],
 "assign": "PartitionResult"
 }
],
 "type": "tree",
 "rules": [
 {
 "conditions": [
 {
 "fn": "booleanEquals",
 "argv": [
 {
 "ref": "UseFIPS"
 },
 true
]
 }
],
 },
 {

```

```

 "fn": "booleanEquals",
 "argv": [
 {
 "ref": "UseDualStack"
 }
],
 true
]
}
],
"type": "tree",
"rules": [
 {
 "conditions": [
 {
 "fn": "booleanEquals",
 "argv": [
 true,
 {
 "fn": "getAttr",
 "argv": [
 {
 "ref": "PartitionResult"
 },
 "supportsFIPS"
]
 }
]
 }
],
 {
 "fn": "booleanEquals",
 "argv": [
 true,
 {
 "fn": "getAttr",
 "argv": [
 {
 "ref": "PartitionResult"
 },
 "supportsDualStack"
]
 }
]
 }
]
}
}

```

```

],
 "type": "tree",
 "rules": [
 {
 "conditions": [],
 "type": "tree",
 "rules": [
 {
 "conditions": [],
 "endpoint": {
 "url": "https://license-manager-user-subscriptions-
fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
 }
 }
]
 },
 {
 "conditions": [],
 "error": "FIPS and DualStack are enabled, but this partition does not support
one or both",
 "type": "error"
 }
]
 },
 {
 "conditions": [
 {
 "fn": "booleanEquals",
 "argv": [
 {
 "ref": "UseFIPS"
 },
 true
]
 }
]
 }
],
"type": "tree",
"rules": [
 {
 "conditions": [

```

```

 {
 "fn": "booleanEquals",
 "argv": [
 true,
 {
 "fn": "getAttr",
 "argv": [
 {
 "ref": "PartitionResult"
 },
 "supportsFIPS"
]
 }
]
 }
],
 "type": "tree",
 "rules": [
 {
 "conditions": [],
 "type": "tree",
 "rules": [
 {
 "conditions": [],
 "endpoint": {
 "url": "https://license-manager-user-subscriptions-
fips.{Region}.{PartitionResult#dnsSuffix}",
 "properties": {},
 "headers": {}
 },
 "type": "endpoint"
 }
]
 }
]
},
{
 "conditions": [],
 "error": "FIPS is enabled but this partition does not support FIPS",
 "type": "error"
}
]
},
{
 "conditions": [

```

```

 {
 "fn": "booleanEquals",
 "argv": [
 {
 "ref": "UseDualStack"
 },
 true
]
 }
],
 "type": "tree",
 "rules": [
 {
 "conditions": [
 {
 "fn": "booleanEquals",
 "argv": [
 true,
 {
 "fn": "getAttr",
 "argv": [
 {
 "ref": "PartitionResult"
 },
 "supportsDualStack"
]
 }
]
 }
]
 }
],
 "type": "tree",
 "rules": [
 {
 "conditions": [],
 "type": "tree",
 "rules": [
 {
 "conditions": [],
 "endpoint": {
 "url": "https://license-manager-user-
subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
 "properties": {}
 }
 }
]
 }
],
 "headers": {}
},

```

```

 "type": "endpoint"
 }
]
 },
 {
 "conditions": [],
 "error": "DualStack is enabled but this partition does not support DualStack",
 "type": "error"
 }
]
},
{
 "conditions": [],
 "type": "tree",
 "rules": [
 {
 "conditions": [],
 "endpoint": {
 "url": "https://license-manager-user-
subscriptions.{Region}.{PartitionResult#dnsSuffix}",
 "properties": {},
 "headers": {}
 },
 "type": "endpoint"
 }
]
}
]
},
{
 "conditions": [],
 "error": "Invalid Configuration: Missing Region",
 "type": "error"
}
]
}
]
},
"smithy.rules#endpointTests": {
 "testCases": [
 {
 "documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
 "expect": {

```

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 "endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-east-1.api.aws"
 }
 },
 "params": {
 "Region": "us-east-1",
 "UseDualStack": true,
 "UseFIPS": true
 }
},
{
 "documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-user-subscriptions-fips.us-east-1.amazonaws.com"
 }
 },
 "params": {
 "Region": "us-east-1",
 "UseDualStack": false,
 "UseFIPS":
true
 }
},
{
 "documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-user-subscriptions.us-east-1.api.aws"
 }
 },
 "params": {
 "Region": "us-east-1",
 "UseDualStack": true,
 "UseFIPS": false
 }
},
{
 "documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-user-subscriptions.us-east-1.amazonaws.com"
 }
 },
 "params": {
 "Region": "us-east-1",
 "UseDualStack": false,

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 "UseFIPS": false
 }
},
{
 "documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-user-subscriptions-fips.cn-north-
1.api.amazonwebservices.com.cn"
 }
 },
 "params": {
 "Region": "cn-north-1",
 "UseDualStack": true,
 "UseFIPS": true
 }
},
{
 "documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-user-subscriptions-fips.cn-north-1.amazonaws.com.cn"
 }
 },
 "params": {
 "Region": "cn-north-1",
 "UseDualStack": false,
 "UseFIPS": true
 }
},
{
 "documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-user-subscriptions.cn-north-1.api.amazonwebservices.com.cn"
 }
 },
 "params": {
 "Region": "cn-north-1",
 "UseDualStack": true,
 "UseFIPS": false
 }
},
{
 "documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
 "expect": {
 "endpoint": {

```

```

 "url": "https://license-manager-user-subscriptions.cn-north-1.amazonaws.com.cn"
 }
},
"params": {
 "Region": "cn-north-1",
 "UseDualStack": false,
 "UseFIPS": false
}
},
{
 "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-user-subscriptions-fips.us-gov-east-1.api.aws"
 }
 },
 "params": {
 "Region": "us-gov-east-1",
 "UseDualStack": true,
 "UseFIPS": true
 }
},
{
 "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-user-subscriptions-fips.us-gov-east-1.amazonaws.com"
 }
 },
 "params": {
 "Region": "us-gov-east-1",
 "UseDualStack": false,
 "UseFIPS": true
 }
},
{
 "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack enabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-user-subscriptions.us-gov-east-1.api.aws"
 }
 },
 "params": {
 "Region": "us-gov-east-1",
 "UseDualStack": true,
 "UseFIPS": false
 }
}

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 }
 },
 {
 "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-user-subscriptions.us-gov-east-1.amazonaws.com"
 }
 },
 "params": {
 "Region": "us-gov-east-1",
 "UseDualStack": false,
 "UseFIPS": false
 }
 },
 {
 "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-user-subscriptions-fips.us-iso-east-1.c2s.ic.gov"
 }
 },
 "params": {
 "Region": "us-iso-east-1",
 "UseDualStack": false,
 "UseFIPS": true
 }
 },
 {
 "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-user-subscriptions.us-iso-east-1.c2s.ic.gov"
 }
 },
 "params": {
 "Region": "us-iso-east-1",
 "UseDualStack": false,
 "UseFIPS": false
 }
 },
 {
 "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-user-subscriptions-fips.us-isob-east-1.sc2s.sgov.gov"
 }
 }
 }
}

```

```

 },
 "params": {
 "Region": "us-isob-east-1",
 "UseDualStack": false,
 "UseFIPS": true
 }
 },
 {
 "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-user-subscriptions.us-isob-east-1.sc2s.sgov.gov"
 }
 },
 "params": {
 "Region": "us-isob-east-1",
 "UseDualStack": false,
 "UseFIPS": false
 }
 },
 {
 "documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
 "expect": {
 "endpoint": {
 "url": "https://example.com"
 }
 },
 "params": {
 "Region": "us-east-1",
 "UseDualStack": false,
 "UseFIPS": false,
 "Endpoint":
"https://example.com"
 }
 },
 {
 "documentation": "For custom endpoint with region not set and fips disabled and dualstack
disabled",
 "expect": {
 "endpoint": {
 "url": "https://example.com"
 }
 },
 "params": {
 "UseDualStack": false,
 "UseFIPS": false,
 "Endpoint": "https://example.com"
 }
 }

```

```

 },
 {
 "documentation": "For custom endpoint with fips enabled and dualstack disabled",
 "expect": {
 "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
 },
 "params": {
 "Region": "us-east-1",
 "UseDualStack": false,
 "UseFIPS": true,
 "Endpoint": "https://example.com"
 }
 },
 {
 "documentation": "For custom endpoint with fips disabled and dualstack enabled",
 "expect": {
 "error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
 },
 "params": {
 "Region": "us-east-1",
 "UseDualStack": true,
 "UseFIPS": false,
 "Endpoint": "https://example.com"
 }
 }
],
 "version": "1.0"
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListIdentityProviders": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
 },
 {
 "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerErrorException"
 }
]
}

```

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 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ResourceNotFoundException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ServiceQuotaExceededException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ThrottlingException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Lists the identity providers for user-based subscriptions.</p>",
 "smithy.api#http": {
 "code": 200,
 "method": "POST",
 "uri": "/identity-provider/ListIdentityProviders"
 },
 "smithy.api#paginated": {
 "inputToken": "NextToken",
 "outputToken": "NextToken",
 "pageSize":
"MaxResults",
 "items": "IdentityProviderSummaries"
 }
 }
},
"com.amazonaws.licenseanagerusersubscriptions#ListIdentityProvidersRequest": {
 "type": "structure",
 "members": {
 "MaxResults": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#BoxInteger",
 "traits": {
 "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
 }
 },
 "NextToken": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 }
 }
},
"com.amazonaws.licenseanagerusersubscriptions#ListIdentityProvidersResponse": {

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"type": "structure",
"members": {

 "IdentityProviderSummaries": {
 "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummaryList",
 "traits": {
 "smithy.api#documentation": "<p>Metadata that describes the list identity providers operation.</p>",
 "smithy.api#required": {}
 }
 },
 "NextToken": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 }
},
"com.amazonaws.licensemanagerusersubscriptions#ListInstances": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstancesRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstancesResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
 },
 {
 "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerError"
 },
 {
 "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
 },
 {
 "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
 },
 {
 "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
 },
 {
 "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
 }
]
}

```

```

 }
],
 "traits": {
 "smithy.api#documentation": "<p>Lists the EC2 instances providing user-based subscriptions.</p>",
 "smithy.api#http": {
 "code": 200,
 "method": "POST",
 "uri": "/instance/ListInstances"
 },
 "smithy.api#paginated": {
 "inputToken": "NextToken",
 "outputToken": "NextToken",
 "pageSize": "MaxResults",
 "items": "InstanceSummaries"
 }
 }
},
"com.amazonaws.licenseanagerusersubscriptions#ListInstancesRequest": {
 "type": "structure",
 "members": {
 "MaxResults": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#BoxInteger",
 "traits": {
 "smithy.api#documentation": "<p>Maximum number
of results to return in a single call.</p>"
 }
 },
 "NextToken": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 },
 "Filters": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#FilterList",
 "traits": {
 "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those
that match one or\n more sets of key-value pairs that you specify.</p>"
 }
 }
 }
},
"com.amazonaws.licenseanagerusersubscriptions#ListInstancesResponse": {
 "type": "structure",
 "members": {
 "InstanceSummaries": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#InstanceSummaryList",

```



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 "traits": {
 "smithy.api#documentation": "<p>Metadata that describes the list instances operation.</p>"
 }
 },
 "NextToken": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 }
},
"com.amazonaws.licenseanagerusersubscriptions#ListProductSubscriptions": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ListProductSubscriptionsRequest"
 },
 "output": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ListProductSubscriptionsResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ConflictException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#InternalServerErrorException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ResourceNotFoundException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ServiceQuotaExceededException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ThrottlingException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Lists the user-based subscription products available from an identity provider.</p>",
 "smithy.api#http": {
 "code": 200,

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 "method": "POST",
 "uri": "/user/ListProductSubscriptions"
 },
 "smithy.api#paginated": {
 "inputToken": "NextToken",
 "outputToken": "NextToken",
 "pageSize": "MaxResults",
 "items": "ProductUserSummaries"
 }
},
"com.amazonaws.licenseanagerusersubscriptions#ListProductSubscriptionsRequest": {
 "type": "structure",
 "members": {
 "Product": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
 "smithy.api#required": {}
 }
 },
 "IdentityProvider": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#IdentityProvider",
 "traits": {
 "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
 "smithy.api#required": {}
 }
 },
 "MaxResults": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#BoxInteger",
 "traits": {
 "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
 }
 },
 "Filters": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#FilterList",
 "traits": {
 "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those
that match one or\n more sets
of key-value pairs that you specify.</p>"
 }
 },
 "NextToken": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 }
 }
}

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 }
 }
},
"com.amazonaws.licenseanagerusersubscriptions#ListProductSubscriptionsResponse": {
 "type": "structure",
 "members": {
 "ProductUserSummaries": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ProductUserSummaryList",
 "traits": {
 "smithy.api#documentation": "<p>Metadata that describes the list product subscriptions
operation.</p>"
 }
 },
 "NextToken": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation":
"<p>Token for the next set of results.</p>"
 }
 }
 }
},
"com.amazonaws.licenseanagerusersubscriptions#ListUserAssociations": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ListUserAssociationsRequest"
 },
 "output": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ListUserAssociationsResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ConflictException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#InternalServerError"
 },
 {
 "target":
"com.amazonaws.licenseanagerusersubscriptions#ResourceNotFoundException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ServiceQuotaExceededException"
 }
]
}

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 "target": "com.amazonaws.licenseanagerusersubscriptions#ThrottlingException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ValidationException"
 }
],
"traits": {
 "smithy.api#documentation": "<p>Lists user associations for an identity provider.</p>",
 "smithy.api#http": {
 "code": 200,
 "method": "POST",
 "uri": "/user/ListUserAssociations"
 },
 "smithy.api#paginated": {
 "inputToken": "NextToken",
 "outputToken": "NextToken",
 "pageSize":
"MaxResults",
 "items": "InstanceUserSummaries"
 }
}
},
"com.amazonaws.licenseanagerusersubscriptions#ListUserAssociationsRequest": {
 "type": "structure",
 "members": {
 "InstanceId": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
 "smithy.api#required": {}
 }
 },
 "IdentityProvider": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#IdentityProvider",
 "traits": {
 "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
 "smithy.api#required": {}
 }
 },
 "MaxResults":
{
 "target": "com.amazonaws.licenseanagerusersubscriptions#BoxInteger",
 "traits": {
 "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
 }
 },
 "Filters": {

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```

 "target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
 "traits": {
 "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those
that match one or\n more sets of key-value pairs that you specify.</p>"
 }
 },
 "NextToken": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 }
},
"com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsResponse":
{
 "type": "structure",
 "members": {
 "InstanceUserSummaries": {
 "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummaryList",
 "traits": {
 "smithy.api#documentation": "<p>Metadata that describes the list user association operation.</p>"
 }
 },
 "NextToken": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 }
 }
},
"com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary": {
 "type": "structure",
 "members": {
 "Username": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation":
"<p>The user name from the identity provider of the user.</p>",
 "smithy.api#required": {}
 }
 },
 "Product": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
 "smithy.api#required": {}
 }
 }
 }
}

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```

 }
 },
 "IdentityProvider": {
 "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
 "traits": {
 "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
 "smithy.api#required": {}
 }
 },
 "Status": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The status of a product for a user.</p>",
 "smithy.api#required": {}
 }
 },
 "StatusMessage": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The status message for a product for a user.</p>"
 }
 },
 "Domain": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The domain name of the user.</p>"
 }
 },
 "SubscriptionStartDate": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The start date of a subscription.</p>"
 }
 },
 "SubscriptionEndDate": {
 "target":
"smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The end date of a subscription.</p>"
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>The summary of the user-based subscription products for a user.</p>"
 }
},
"com.amazonaws.licensemanagerusersubscriptions#ProductUserSummaryList": {

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 "type": "list",
 "member": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ProductUserSummary"
 }
 },
 "com.amazonaws.licenseanagerusersubscriptions#RegisterIdentityProvider": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#RegisterIdentityProviderRequest"
 },
 "output": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#RegisterIdentityProviderResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ConflictException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#InternalServerErrorException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ResourceNotFoundException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ServiceQuotaExceededException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ThrottlingException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Registers an identity provider for user-based subscriptions.</p>",
 "smithy.api#http": {
 "code": 200,
 "method": "POST",
 "uri": "/identity-provider/RegisterIdentityProvider"
 },
 "smithy.api#idempotent": {}
 }
 },
 "com.amazonaws.licenseanagerusersubscriptions#RegisterIdentityProviderRequest": {
 "type": "structure",

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"members": {
 "IdentityProvider": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#IdentityProvider",
 "traits": {
 "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
 "smithy.api#required": {}
 }
 },
 "Product": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
 "smithy.api#required": {}
 }
 },
 "Settings": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#Settings",
 "traits": {
 "smithy.api#documentation": "<p>The registered identity providers product related configuration settings such as the\n subnets to provision VPC endpoints.</p>"
 }
 }
},
"com.amazonaws.licenseanagerusersubscriptions#RegisterIdentityProviderResponse": {
 "type": "structure",
 "members": {
 "IdentityProviderSummary": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#IdentityProviderSummary",
 "traits": {
 "smithy.api#documentation": "<p>Metadata that describes the results of an identity provider operation.</p>",
 "smithy.api#required": {}
 }
 }
 }
},
"com.amazonaws.licenseanagerusersubscriptions#ResourceNotFoundException": {
 "type": "structure",
 "members": {
 "message": {
 "target": "smithy.api#String"
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>The resource couldn't be found.</p>",

```



```

 "smithy.api#error": "client",
 "smithy.api#httpError": 404
 }
},
"com.amazonaws.licensemanagerusersubscriptions#SecurityGroup": {
 "type": "string",
 "traits": {
 "smithy.api#length": {
 "min": 5,
 "max": 200
 },

 "smithy.api#pattern": "^sg-([0-9a-z]{8})([0-9a-z]{17})$"
 }
},
"com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException": {
 "type": "structure",
 "members": {
 "message": {
 "target": "smithy.api#String"
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>The request failed because a service quota is exceeded.</p>",
 "smithy.api#error": "client"
 }
},
"com.amazonaws.licensemanagerusersubscriptions#Settings": {
 "type": "structure",
 "members": {
 "Subnets": {
 "target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
 "traits": {
 "smithy.api#documentation": "<p>The subnets defined for the registered identity provider.</p>",
 "smithy.api#length": {
 "min": 1
 },
 "smithy.api#required": {}
 }
 },
 "SecurityGroupId": {
 "target": "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup",
 "traits": {
 "smithy.api#documentation": "<p>A security group ID that allows inbound TCP port 1688 communication between resources in\n your VPC and the VPC endpoint for activation servers.</p>",
 "smithy.api#required": {}
 }
 }
 }
}

```

```

 },
 "traits": {
 "smithy.api#documentation": "<p>The registered identity providers product related configuration settings
such as the\n subnets to provision VPC endpoints, and the security group ID that is associated with the VPC\n
endpoints. The security group should permit inbound TCP port 1688 communication from resources\n
in the VPC.</p>"
 }
 },
 "com.amazonaws.licenseanagerusersubscriptions#StartProductSubscription": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#StartProductSubscriptionRequest"
 },
 "output": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#StartProductSubscriptionResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ConflictException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#InternalServerErrorException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ResourceNotFoundException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ServiceQuotaExceededException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ThrottlingException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ValidationException"
 }
]
 },
 "traits": {
 "smithy.api#documentation": "<p>Starts a product subscription for a user with the specified identity
provider.</p>\n <note>\n <p>Your estimated bill for charges on the number of users and related costs
will take 48\n hours to appear for billing periods that haven't closed (marked as Pending billing status)
in Amazon Web Services Billing. For more information, see Viewing your\n
monthly charges in the <i>Amazon Web Services Billing User Guide</i>.</p>\n </note>",
 "smithy.api#http": {
 "code": 200,

```

```

 "method": "POST",
 "uri": "/user/StartProductSubscription"
 }
}
},
"com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionRequest": {
 "type": "structure",
 "members": {
 "Username": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The user name from the identity provider of the user.</p>",
 "smithy.api#required": {}
 }
 },
 "IdentityProvider": {
 "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
 "traits": {
 "smithy.api#documentation": "<p>An
object that specifies details for the identity provider.</p>",
 "smithy.api#required": {}
 }
 },
 "Product": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
 "smithy.api#required": {}
 }
 },
 "Domain": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The domain name of the user.</p>"
 }
 }
 }
},
"com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionResponse": {
 "type": "structure",
 "members": {
 "ProductUserSummary": {
 "target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary",
 "traits": {
 "smithy.api#documentation": "<p>Metadata that describes the start product subscription
operation.</p>",
 "smithy.api#required": {}
 }
 }
 }
}

```

```

 }
 }
},
"com.amazonaws.licensemanagerusersubscriptions#StopProductSubscription": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
 },
 {
 "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerErrorException"
 },
 {
 "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
 },
 {
 "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
 },
 {
 "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
 },
 {
 "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Stops a product subscription for a user with the specified identity provider.</p>",
 "smithy.api#http": {
 "code": 200,
 "method": "POST",
 "uri":
"/user/StopProductSubscription"
 }
 }
},
"com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionRequest": {
 "type": "structure",
 "members": {

```

```

 "Username": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
 "smithy.api#required": {}
 }
 },
 "IdentityProvider": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#IdentityProvider",
 "traits": {
 "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
 "smithy.api#required": {}
 }
 },
 "Product": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
 "smithy.api#required": {}
 }
 },
 "Domain": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The domain name of the user.</p>"
 }
 }
 },
 "com.amazonaws.licenseanagerusersubscriptions#StopProductSubscriptionResponse": {
 "type": "structure",
 "members": {
 "ProductUserSummary": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ProductUserSummary",
 "traits": {
 "smithy.api#documentation": "<p>Metadata that describes the start product subscription operation.</p>",
 "smithy.api#required": {}
 }
 }
 }
 },
 "com.amazonaws.licenseanagerusersubscriptions#StringList": {
 "type": "list",
 "member": {
 "target": "smithy.api#String"
 }
 },

```

```

"com.amazonaws.licenseanagerusersubscriptions#Subnet": {
 "type": "string",
 "traits": {
 "smithy.api#pattern": "subnet-[a-z0-9]{8,17}"
 }
},
"com.amazonaws.licenseanagerusersubscriptions#Subnets": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#Subnet"
 }
},
"com.amazonaws.licenseanagerusersubscriptions#ThrottlingException": {
 "type": "structure",
 "members": {
 "message": {
 "target": "smithy.api#String"
 }
 },
 "traits": {
 "smithy.api#documentation":
"<p>The request was denied because of request throttling. Retry the request.</p>",
 "smithy.api#error": "client"
 }
},
"com.amazonaws.licenseanagerusersubscriptions#UpdateIdentityProviderSettings": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#UpdateIdentityProviderSettingsRequest"
 },
 "output": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#UpdateIdentityProviderSettingsResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#InternalServerErrorException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ThrottlingException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ValidationException"
 }
],
 "traits": {

```

```

 "smithy.api#documentation": "<p>Updates additional product configuration settings for the registered
identity\n provider.</p>",
 "smithy.api#http": {
 "code": 200,
 "method": "POST",
 "uri": "/identity-provider/UpdateIdentityProviderSettings"
 },
 "smithy.api#idempotent": {}
}
},
"com.amazonaws.licenseanagerusersubscriptions#UpdateIdentityProviderSettingsRequest": {
 "type": "structure",
 "members": {
 "IdentityProvider": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#IdentityProvider",
 "traits": {
 "smithy.api#required": {}
 }
 }
 },
 "Product": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
 "smithy.api#required": {}
 }
 },
 "UpdateSettings": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#UpdateSettings",
 "traits": {
 "smithy.api#documentation": "<p>Updates the registered identity providers product related
configuration settings. You can\n update any combination of settings in a single operation such as the:</p>\n
\n \n <p>Subnets which you want to add to provision VPC endpoints.</p>\n \n
 \n <p>Subnets which you want to remove the VPC endpoints from.</p>\n \n
 \n
 <p>Security group ID which permits traffic to the VPC endpoints.</p>\n \n ",
 "smithy.api#required": {}
 }
 }
}
},
"com.amazonaws.licenseanagerusersubscriptions#UpdateIdentityProviderSettingsResponse": {
 "type": "structure",
 "members": {
 "IdentityProviderSummary": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#IdentityProviderSummary",
 "traits": {
 "smithy.api#required": {}
 }
 }
 }
}

```

```

 }
 }
},
"com.amazonaws.licensemanagerusersubscriptions#UpdateSettings": {
 "type": "structure",
 "members": {
 "AddSubnets": {
 "target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
 "traits": {
 "smithy.api#documentation":
 "<p>The ID of one or more subnets in which License Manager will create a VPC endpoint for products that\n
 require connectivity to activation servers.</p>",
 "smithy.api#required": {}
 }
 },
 "RemoveSubnets": {
 "target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
 "traits": {
 "smithy.api#documentation": "<p>The ID of one or more subnets to remove.</p>",
 "smithy.api#required": {}
 }
 },
 "SecurityGroupId": {
 "target": "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup",
 "traits": {
 "smithy.api#documentation": "<p>A security group ID that allows inbound TCP port 1688\n
 communication between resources in\n your VPC and the VPC endpoints for activation servers.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>Updates the registered identity providers product related configuration\n
 settings such as\n the subnets to provision VPC endpoints.</p>"
 }
},
"com.amazonaws.licensemanagerusersubscriptions#ValidationException": {
 "type": "structure",
 "members": {
 "message": {
 "target": "smithy.api#String"
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>A parameter is not valid.</p>",
 "smithy.api#error": "client"
 }
}

```



```

 }
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
 params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version
 *string

 noSmithyDocumentSerde
}

```

```

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if
 err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
}

```

```

if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack);
err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "GetLicense",
 }
}

```

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```
package grafana
```

```
import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)
```

```
// Removes the Grafana Enterprise license from a workspace.
```

```
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns ...func(*Options)) (*DisassociateLicenseOutput, error) {
```

```
 if params == nil {
 params = &DisassociateLicenseInput{
 }
 }
```

```
 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
 c.addOperationDisassociateLicenseMiddlewares)
```

```
 if err != nil {
 return nil, err
 }
```

```
 out := result.(*DisassociateLicenseOutput)
```

```
 out.ResultMetadata = metadata
```

```

return out, nil
}

type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //
 // This
 member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

 // A structure containing information about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
 return err
 }
}

```

```

}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {

```

```

return err
}
return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region: region,
ServiceID: ServiceID,
SigningName: "grafana",
OperationName: "DisassociateLicense",
}
}
}

```

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 "expect": {
 "endpoint": {
 "url": "https://license-manager-fips.cn-north-1.amazonaws.com.cn"
 }
 },
 "params": {
 "UseFIPS": true,
 "UseDualStack": false,
 "Region": "cn-north-1"
 }
},
{
 "documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
 "expect": {

```



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"endpoint": {
 "url": "https://license-manager.cn-north-1.api.amazonwebservices.com.cn"
}
},
"params": {
 "UseFIPS": false,
 "UseDualStack": true,
 "Region": "cn-north-1"
}
},
{
 "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager.us-gov-east-1.amazonaws.com"
 }
 },
 "params": {
 "UseFIPS": false,
 "UseDualStack": false,

 "Region": "us-gov-east-1"
 }
},
{
 "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-fips.us-gov-east-1.amazonaws.com"
 }
 },
 "params": {
 "UseFIPS": true,
 "UseDualStack": false,
 "Region": "us-gov-east-1"
 }
},
{
 "documentation": "For region us-gov-west-1 with FIPS disabled and DualStack disabled",
 "expect": {
 "endpoint": {

 "url": "https://license-manager.us-gov-west-1.amazonaws.com"
 }
 },
 "params": {
 "UseFIPS": false,

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 "UseDualStack": false,
 "Region": "us-gov-west-1"
 }
},
{
 "documentation": "For region us-gov-west-1 with FIPS enabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-fips.us-gov-west-1.amazonaws.com"
 }
 },
 "params": {
 "UseFIPS": true,
 "UseDualStack": false,
 "Region": "us-gov-west-1"
 }
},
{
 "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-fips.us-gov-east-1.api.aws"
 }
 },
 "params": {
 "UseFIPS": true,
 "UseDualStack": true,
 "Region": "us-gov-east-1"
 }
},
{
 "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack enabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager.us-gov-east-1.api.aws"
 }
 },
 "params": {
 "UseFIPS": false,
 "UseDualStack": true,
 "Region": "us-gov-east-1"
 }
},
{
 "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager.us-iso-east-1.c2s.ic.gov"
 }
 }
}

```

```

 }
 },
 "params": {
 "UseFIPS": false,
 "UseDualStack": false,
 "Region": "us-iso-east-1"
 }
},
{
 "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
 "expect": {
 "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
 },
 "params": {
 "UseFIPS": true,
 "UseDualStack": true,
 "Region": "us-iso-east-1"
 }
},
{
 "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-fips.us-iso-east-1.c2s.ic.gov"
 }
 },
},
"params": {
 "UseFIPS": true,
 "UseDualStack": false,
 "Region": "us-iso-east-1"
}
},
{
 "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
 "expect": {
 "error": "DualStack is enabled but this partition does not support DualStack"
 },
 "params": {
 "UseFIPS": false,
 "UseDualStack": true,
 "Region": "us-iso-east-1"
 }
},
{
 "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
 "expect": {

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```

 "endpoint": {
 "url": "https://license-manager.us-isob-east-1.sc2s.sgov.gov"
 }
 },
 "params": {
 "UseFIPS": false,
 "UseDualStack": false,
 "Region": "us-isob-east-1"
 }
},
{
 "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
 "expect": {
 "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
 },
 "params": {
 "UseFIPS": true,
 "UseDualStack": true,
 "Region": "us-isob-east-1"
 }
},
{
 "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-fips.us-isob-east-1.sc2s.sgov.gov"
 }
 },
 "params": {
 "UseFIPS": true,
 "UseDualStack": false,
 "Region": "us-isob-east-1"
 }
},
{
 "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
 "expect": {
 "error": "DualStack is enabled but this partition does not support DualStack"
 },
 "params": {
 "UseFIPS": false,
 "UseDualStack": true,
 "Region": "us-isob-east-1"
 }
},
{
 "documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
 "expect": {

```

```

 "endpoint": {
 "url": "https://example.com"
 }
 },
 "params": {
 "UseFIPS": false,
 "UseDualStack": false,
 "Region": "us-east-1",
 "Endpoint": "https://example.com"
 }
},
{
 "documentation": "For custom endpoint with region not set and fips disabled and dualstack
disabled",
 "expect": {
 "endpoint": {
 "url": "https://example.com"
 }
 },
 "params": {
 "UseFIPS": false,
 "UseDualStack": false,
 "Endpoint": "https://example.com"
 }
},
{
 "documentation": "For custom endpoint with fips enabled and dualstack disabled",
 "expect": {
 "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
 },
 "params": {
 "UseFIPS": true,
 "UseDualStack": false,
 "Region": "us-east-1",
 "Endpoint": "https://example.com"
 }
},
{
 "documentation": "For custom endpoint with fips disabled and dualstack enabled",
 "expect": {
 "error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
 },
 "params": {
 "UseFIPS": false,
 "UseDualStack": true,
 "Region": "us-east-1",

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```

 "Endpoint": "https://example.com"
 }
},
{
 "documentation": "Missing region",

 "expect": {
 "error": "Invalid Configuration: Missing Region"
 }
},
{
 "version": "1.0"
}
},
"com.amazonaws.licensemanager#AcceptGrant": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#AcceptGrantRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#AcceptGrantResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
 "traits": {

```

```

 "smithy.api#documentation": "<p>Accepts the specified grant.</p>"
 }
},
"com.amazonaws.licensemanager#AcceptGrantRequest": {
 "type": "structure",
 "members": {
 "GrantArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",

```

```

"members": {
 "Message": {
 "target": "com.amazonaws.licensemanager#Message"
 }
},
"traits": {
 "aws.protocols#awsQueryError": {
 "code": "ServiceAccessDenied",
 "httpResponseCode": 401
 },
 "smithy.api#documentation": "<p>Access to resource denied.</p>",
 "smithy.api#error": "client",
 "smithy.api#httpError": 401
}
},
"com.amazonaws.licensemanager#ActivationOverrideBehavior": {
 "type": "enum",
 "members": {
 "DISTRIBUTED_GRANTS_ONLY": {
 "target": "smithy.api#Unit",
 }
 }
},
"traits": {
 "smithy.api#enumValue": "DISTRIBUTED_GRANTS_ONLY"
}
},
"ALL_GRANTS_PERMITTED_BY_ISSUER": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "ALL_GRANTS_PERMITTED_BY_ISSUER"
 }
}
},
"com.amazonaws.licensemanager#AllowedOperation": {
 "type": "enum",
 "members": {
 "CREATE_GRANT": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "CreateGrant"
 }
 },
 "CHECKOUT_LICENSE": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "CheckoutLicense"
 }
 }
 },
}

```



```

"CHECKOUT_BORROW_LICENSE":
{
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "CheckoutBorrowLicense"
 }
},
"CHECK_IN_LICENSE": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "CheckInLicense"
 }
},
"EXTEND_CONSUMPTION_LICENSE": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "ExtendConsumptionLicense"
 }
},
"LIST_PURCHASED_LICENSES": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "ListPurchasedLicenses"
 }
},
"CREATE_TOKEN": {
 "target": "smithy.api#Unit",

 "traits": {
 "smithy.api#enumValue": "CreateToken"
 }
}
},
"com.amazonaws.licensemanager#AllowedOperationList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#AllowedOperation"
 },
 "traits": {
 "smithy.api#length": {
 "min": 1,
 "max": 7
 }
 }
},
"com.amazonaws.licensemanager#Arn": {
 "type": "string",

```

```

"traits": {
 "smithy.api#length": {
 "min": 0,
 "max": 2048
 },
 "smithy.api#pattern": "^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:/+=,@.-]{0,1023}$"
}
},
"com.amazonaws.licensemanager#ArnList":
{
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#Arn"
 }
},
"com.amazonaws.licensemanager#AuthorizationException": {
 "type": "structure",
 "members": {
 "Message": {
 "target": "com.amazonaws.licensemanager#Message"
 }
 },
 "traits": {
 "aws.protocols#awsQueryError": {
 "code": "AuthorizationFailure",
 "httpResponseCode": 403
 },
 "smithy.api#documentation": "<p>The Amazon Web Services user account does not have permission to perform the action. Check the IAM\n policy associated with this account.</p>",
 "smithy.api#error": "client",
 "smithy.api#httpError": 403
 }
},
"com.amazonaws.licensemanager#AutomatedDiscoveryInformation": {
 "type":
"structure",
 "members": {
 "LastRunTime": {
 "target": "com.amazonaws.licensemanager#DateTime",
 "traits": {
 "smithy.api#documentation": "<p>Time that automated discovery last ran.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>Describes automated discovery.</p>"
 }
}

```

```

 },
 "com.amazonaws.licensemanager#Boolean": {
 "type": "boolean",
 "traits": {
 "smithy.api#default": false
 }
 },
 "com.amazonaws.licensemanager#BorrowConfiguration": {
 "type": "structure",
 "members": {
 "AllowEarlyCheckIn": {
 "target": "com.amazonaws.licensemanager#BoxBoolean",
 "traits": {
 "smithy.api#documentation": "<p>Indicates whether early check-ins are
allowed.</p>",
 "smithy.api#required": {}
 }
 },
 "MaxTimeToLiveInMinutes": {
 "target": "com.amazonaws.licensemanager#BoxInteger",
 "traits": {
 "smithy.api#documentation": "<p>Maximum time for the borrow configuration, in minutes.</p>",
 "smithy.api#required": {}
 }
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>Details about a borrow configuration.</p>"
 }
 },
 "com.amazonaws.licensemanager#BoxBoolean": {
 "type": "boolean"
 },
 "com.amazonaws.licensemanager#BoxInteger": {
 "type": "integer"
 },
 "com.amazonaws.licensemanager#BoxLong": {
 "type": "long"
 },
 "com.amazonaws.licensemanager#CheckInLicense": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#CheckInLicenseRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#CheckInLicenseResponse"
 },
 },
 }

```

```

"errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#ConflictException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
"traits": {
 "smithy.api#documentation": "<p>Checks in the specified license. Check in a license when it is no longer
in use.</p>"
}
},
"com.amazonaws.licensemanager#CheckInLicenseRequest": {
 "type": "structure",
 "members": {
 "LicenseConsumptionToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>License consumption token.</p>",
 "smithy.api#required": {}
 }
 },
 "Beneficiary": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>License beneficiary.</p>"
 }
 }
 }
}

```

```

 }
 },
 "traits": {
 "smithy.api#input": {}
 }
},
"com.amazonaws.licensemanager#CheckInLicenseResponse": {
 "type": "structure",
 "members": {},
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#CheckoutBorrowLicense": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#EntitlementNotAllowedException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#RedirectException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 }
]
}

```

```

 },
 {
 "target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Checks out the specified license for offline use.</p>"
 }
},
"com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest": {
 "type": "structure",
 "members": {
 "LicenseArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license. The license must use the borrow consumption configuration.</p>",
 "smithy.api#required": {}
 }
 },
 "Entitlements": {
 "target": "com.amazonaws.licensemanager#EntitlementDataList",
 "traits": {
 "smithy.api#documentation": "<p>License entitlements. Partial checkouts are not supported.</p>",
 "smithy.api#required": {}
 }
 },
 "DigitalSignatureMethod": {
 "target": "com.amazonaws.licensemanager#DigitalSignatureMethod",
 "traits": {
 "smithy.api#documentation": "<p>Digital signature method. The possible value is JSON Web Signature (JWS) algorithm PS384.\n For more information, see RFC 7518 Digital Signature with RSASSA-PSS.</p>",
 "smithy.api#required": {}
 }
 },
 "NodeId": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Node ID.</p>"
 }
 }
 },
 "CheckoutMetadata": {

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 "target": "com.amazonaws.licensemanager#MetadataList",
 "traits": {
 "smithy.api#documentation": "<p>Information about constraints.</p>"
 }
 },
 "ClientToken": {
 "target": "com.amazonaws.licensemanager#ClientToken",
 "traits": {
 "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
 "smithy.api#required": {}
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
},
"com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse": {
 "type": "structure",
 "members": {
 "LicenseArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
 }
 },
 "LicenseConsumptionToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>License consumption token.</p>"
 }
 },
 "EntitlementsAllowed": {
 "target": "com.amazonaws.licensemanager#EntitlementDataList",
 "traits": {
 "smithy.api#documentation": "<p>Allowed license entitlements.</p>"
 }
 },
 "NodeId": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Node ID.</p>"
 }
 },
 "SignedToken": {
 "target": "com.amazonaws.licensemanager#SignedToken",

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 "traits": {
 "smithy.api#documentation": "<p>Signed token.</p>"
 }
 },
 "IssuedAt": {
 "target": "com.amazonaws.licensemanager#ISO8601DateTime",
 "traits": {
 "smithy.api#documentation": "<p>Date and time at which the license checkout is issued.</p>"
 }
 },
 "Expiration": {
 "target": "com.amazonaws.licensemanager#ISO8601DateTime",
 "traits": {
 "smithy.api#documentation": "<p>Date and time at which the license checkout expires.</p>"
 }
 },
 "CheckoutMetadata": {
 "target": "com.amazonaws.licensemanager#MetadataList",
 "traits": {
 "smithy.api#documentation":
"<p>Information about constraints.</p>"
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#CheckoutLicense": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#CheckoutLicenseRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#CheckoutLicenseResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
 }
]
}

```



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 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#RedirectException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Checks out the specified license.</p>\n <note>\n <p>If the
account that created the license
is the same that is performing the check out, you must\n specify the account as the beneficiary.</p>\n
</note>"
 }
},
"com.amazonaws.licensemanager#CheckoutLicenseRequest": {
 "type": "structure",
 "members": {
 "ProductSKU": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Product SKU.</p>",
 "smithy.api#required": {}
 }
 },
 "CheckoutType": {
 "target": "com.amazonaws.licensemanager#CheckoutType",
 "traits": {
 "smithy.api#documentation": "<p>Checkout type.</p>",
 "smithy.api#required": {}
 }
 }
 }
},
"KeyFingerprint": {
 "target": "com.amazonaws.licensemanager#String",

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 "traits": {
 "smithy.api#documentation": "<p>Key fingerprint identifying the license.</p>",
 "smithy.api#required": {}
 }
 },
 "Entitlements": {
 "target": "com.amazonaws.licensemanager#EntitlementDataList",
 "traits": {
 "smithy.api#documentation": "<p>License entitlements.</p>",
 "smithy.api#required": {}
 }
 },
 "ClientToken": {
 "target": "com.amazonaws.licensemanager#ClientToken",
 "traits": {
 "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
 "smithy.api#required": {}
 }
 },
 "Beneficiary": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>License beneficiary.</p>"
 }
 },
 "NodeId": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Node ID.</p>"
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
},
"com.amazonaws.licensemanager#CheckoutLicenseResponse": {
 "type": "structure",
 "members": {
 "CheckoutType": {
 "target": "com.amazonaws.licensemanager#CheckoutType",
 "traits": {
 "smithy.api#documentation": "<p>Checkout type.</p>"
 }
 },
 "LicenseConsumptionToken": {
 "target": "com.amazonaws.licensemanager#String",

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```

 "traits": {
 "smithy.api#documentation": "<p>License consumption token.</p>"
 }
 },
 "EntitlementsAllowed": {
 "target": "com.amazonaws.licensemanager#EntitlementDataList",
 "traits": {
 "smithy.api#documentation": "<p>Allowed license entitlements.</p>"
 }
 },
 "SignedToken": {
 "target": "com.amazonaws.licensemanager#SignedToken",
 "traits": {
 "smithy.api#documentation": "<p>Signed token.</p>"
 }
 },
 "NodeId": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Node ID.</p>"
 }
 },
 "IssuedAt": {
 "target": "com.amazonaws.licensemanager#ISO8601DateTime",
 "traits": {
 "smithy.api#documentation": "<p>Date and time at which the license checkout is issued.</p>"
 }
 },
 "Expiration": {
 "target": "com.amazonaws.licensemanager#ISO8601DateTime",
 "traits": {
 "smithy.api#documentation": "<p>Date and time at which the license checkout expires.</p>"
 }
 },
 "LicenseArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the checkout license.</p>"
 }
 }
},
"traits": {
 "smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CheckoutType":
{
 "type": "enum",

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```

"members": {
 "PROVISIONAL": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "PROVISIONAL"
 }
 },
 "PERPETUAL": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "PERPETUAL"
 }
 }
},
"com.amazonaws.licensemanager#ClientRequestToken": {
 "type": "string",
 "traits": {
 "smithy.api#length": {
 "min": 1,
 "max": 36
 }
 }
},
"com.amazonaws.licensemanager#ClientToken": {
 "type": "string",
 "traits": {
 "smithy.api#length": {
 "min": 0,
 "max": 2048
 },
 "smithy.api#pattern": "^\\S+$"
 }
},
"com.amazonaws.licensemanager#ConflictException": {
 "type": "structure",
 "members": {
 "Message": {
 "target": "com.amazonaws.licensemanager#Message"
 }
 },
 "traits": {
 "aws.protocols#awsQueryError": {
 "code": "ConflictException",
 "httpResponseCode": 409
 },
 "smithy.api#documentation": "<p>There was a conflict processing the request. Try your request again.</p>",

```

```

 "smithy.api#error": "client",
 "smithy.api#httpError": 409
 }
},
"com.amazonaws.licensemanager#ConsumedLicenseSummary": {
 "type": "structure",
 "members": {
 "ResourceType": {
 "target": "com.amazonaws.licensemanager#ResourceType",
 "traits":
{
 "smithy.api#documentation": "<p>Resource type of the resource consuming a license.</p>"
 }
 },
 "ConsumedLicenses": {
 "target": "com.amazonaws.licensemanager#BoxLong",
 "traits": {
 "smithy.api#documentation": "<p>Number of licenses consumed by the resource.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>Details about license consumption.</p>"
 }
},
"com.amazonaws.licensemanager#ConsumedLicenseSummaryList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#ConsumedLicenseSummary"
 }
},
"com.amazonaws.licensemanager#ConsumptionConfiguration": {
 "type": "structure",
 "members": {
 "RenewType": {
 "target": "com.amazonaws.licensemanager#RenewType",
 "traits": {
 "smithy.api#documentation": "<p>Renewal frequency.</p>"
 }
 },
 "ProvisionalConfiguration": {
 "target": "com.amazonaws.licensemanager#ProvisionalConfiguration",
 "traits": {
 "smithy.api#documentation": "<p>Details about a provisional configuration.</p>"
 }
 }
 },
 "BorrowConfiguration": {

```

```

 "target": "com.amazonaws.licensemanager#BorrowConfiguration",
 "traits": {
 "smithy.api#documentation": "<p>Details about a borrow configuration.</p>"
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>Details about a consumption configuration.</p>"
 }
},
"com.amazonaws.licensemanager#CreateGrant":
{
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#CreateGrantRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#CreateGrantResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Creates a grant for the specified license. A grant shares the use of license\n entitlements with a specific Amazon Web Services account, an organization, or an\n organizational unit (OU). For more information, see Granted licenses in License Manager in the <i>License Manager User Guide</i>.</p>"
 }
}

```

```

 }
 },
 "com.amazonaws.licensemanager#CreateGrantRequest": {
 "type": "structure",
 "members": {
 "ClientToken": {
 "target": "com.amazonaws.licensemanager#ClientToken",
 "traits": {
 "smithy.api#documentation":
 "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
 "smithy.api#required": {}
 }
 },
 "GrantName": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Grant name.</p>",
 "smithy.api#required": {}
 }
 },
 "LicenseArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
 "smithy.api#required": {}
 }
 },
 "Principals": {
 "target": "com.amazonaws.licensemanager#PrincipalArnList",
 "traits": {
 "smithy.api#documentation":
 "<p>The grant principals. You can specify one of the following as an Amazon Resource Name\n
 (ARN):</p>\n
 \n
 \n
 <p>An Amazon Web Services account, which includes only the\n
 account specified.</p>\n
 \n
 \n
 \n
 \n
 <p>An organizational unit\n
 (OU), which includes all accounts in the OU.</p>\n
 \n
 \n
 \n
 \n
 <p>An organization, which will include all accounts across your organization.</p>\n
 \n
 ",
 "smithy.api#required": {}
 }
 },
 "HomeRegion": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Home Region of the grant.</p>",
 "smithy.api#required": {}
 }
 }
 }
 },
 "AllowedOperations": {

```

```

 "target": "com.amazonaws.licensemanager#AllowedOperationList",
 "traits": {
 "smithy.api#documentation": "<p>Allowed operations for the grant.</p>",
 "smithy.api#required": {}
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
},
"com.amazonaws.licensemanager#CreateGrantResponse": {
 "type": "structure",
 "members": {
 "GrantArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>Grant ARN.</p>"
 }
 },
 "Status": {
 "target": "com.amazonaws.licensemanager#GrantStatus",
 "traits": {
 "smithy.api#documentation":
"<p>Grant status.</p>"
 }
 },
 "Version": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Grant version.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#CreateGrantVersion": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#CreateGrantVersionRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#CreateGrantVersionResponse"
 },
 "errors": [
 {

```



```

 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
"traits": {
 "smithy.api#documentation": "<p>Creates a new version of the specified grant. For more information, see\n Granted licenses in License Manager in the <i>License Manager User Guide</i>.</p>"
}
},
"com.amazonaws.licensemanager#CreateGrantVersionRequest": {
 "type": "structure",
 "members": {
 "ClientToken": {
 "target": "com.amazonaws.licensemanager#ClientToken",
 "traits": {
 "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
 "smithy.api#required": {}
 }
 },
 "GrantArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
 "smithy.api#required": {}
 }
 },
 "GrantName": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {

```

```

 "smithy.api#documentation": "<p>Grant name.</p>"
 }
},
"AllowedOperations": {
 "target": "com.amazonaws.licensemanager#AllowedOperationList",
 "traits": {
 "smithy.api#documentation": "<p>Allowed operations for the grant.</p>"
 }
},
"Status": {
 "target": "com.amazonaws.licensemanager#GrantStatus",
 "traits": {
 "smithy.api#documentation": "<p>Grant status.</p>"
 }
},
"StatusReason": {
 "target": "com.amazonaws.licensemanager#StatusReasonMessage",
 "traits": {
 "smithy.api#documentation": "<p>Grant status reason.</p>"
 }
},
"SourceVersion": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Current version of the grant.</p>"
 }
},
"Options": {
 "target": "com.amazonaws.licensemanager#Options",
 "traits": {
 "smithy.api#documentation": "<p>The options specified for the grant.</p>"
 }
}
},
"traits": {
 "smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateGrantVersionResponse": {
 "type": "structure",
 "members": {
 "GrantArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>Grant ARN.</p>"
 }
 }
 }
},

```

```

 "Status": {
 "target": "com.amazonaws.licensemanager#GrantStatus",
 "traits": {
 "smithy.api#documentation": "<p>Grant status.</p>"
 }
 },
 "Version": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>New version of the grant.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#CreateLicense": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#CreateLicenseRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#CreateLicenseResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#RedirectException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
]
}

```

```

],
"traits": {
 "smithy.api#documentation": "<p>Creates a license.</p>"
}
},
"com.amazonaws.licensemanager#CreateLicenseConfiguration": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#CreateLicenseConfigurationRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#CreateLicenseConfigurationResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 }
]
}
],
"traits": {
 "smithy.api#documentation": "<p>Creates a license configuration.</p>\n <p>A license configuration is an abstraction of a customer license agreement that can be\n consumed and enforced by License Manager. Components include specifications for the license\n type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n Dedicated Instance, Dedicated Host, or all of these), license affinity to host (how long a \n license must be associated with a host), and the number of licenses purchased and used.</p>"
}
},
"com.amazonaws.licensemanager#CreateLicenseConfigurationRequest": {
 "type": "structure",
 "members": {
 "Name": {
 "target": "com.amazonaws.licensemanager#String",

```

```

 "traits": {
 "smithy.api#documentation": "<p>Name of the license configuration.</p>",
 "smithy.api#required": {}
 }
 },
 "Description": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Description of the license configuration.</p>"
 }
 },
 "LicenseCountingType": {
 "target": "com.amazonaws.licensemanager#LicenseCountingType",
 "traits": {
 "smithy.api#documentation": "<p>Dimension used to track the license inventory.</p>",
 "smithy.api#required": {}
 }
 },
 "LicenseCount": {
 "target": "com.amazonaws.licensemanager#BoxLong",
 "traits": {
 "smithy.api#documentation": "<p>Number of licenses managed by the license configuration.</p>"
 }
 },
 "LicenseCountHardLimit": {
 "target": "com.amazonaws.licensemanager#BoxBoolean",
 "traits": {
 "smithy.api#documentation": "<p>Indicates whether hard or soft license enforcement is used.
Exceeding a hard limit\n blocks the launch of new instances.</p>"
 }
 },
 "LicenseRules": {
 "target": "com.amazonaws.licensemanager#StringList",
 "traits": {
 "smithy.api#documentation": "<p>License rules. The syntax is #name=value (for example,
#allowedTenancy=EC2-DedicatedHost). The available rules \n vary by dimension, as follows.</p>\n
\n \n <p>\n <code>Cores</code> dimension: <code>allowedTenancy</code> |\n <code>licenseAffinityToHost</code> |\n <code>maximumCores</code> |\n <code>minimumCores</code>\n </p>\n \n \n <p>\n <code>Instances</code> dimension:\n <code>allowedTenancy</code> | \n <code>maximumCores</code> | <code>minimumCores</code> |\n <code>maximumSockets</code> | <code>minimumSockets</code> |\n <code>maximumVcpus</code> | <code>minimumVcpus</code>\n </p>\n \n \n <p>\n <code>Sockets</code> dimension: <code>allowedTenancy</code> | \n <code>licenseAffinityToHost</code> |\n <code>maximumSockets</code> |\n <code>minimumSockets</code>\n </p>\n \n \n <p>\n <code>vCPUs</code> dimension: <code>allowedTenancy</code> | \n

```

```

<code>honorVcpuOptimization</code> | \n <code>maximumVcpus</code> |
<code>minimumVcpus</code>\n </p>\n
 \n \n <p>The unit for <code>licenseAffinityToHost</code> is days and the range is 1 to 180.
The possible \n values for <code>allowedTenancy</code> are <code>EC2-Default</code>, <code>EC2-
DedicatedHost</code>, and \n <code>EC2-DedicatedInstance</code>. The possible values for
<code>honorVcpuOptimization</code> are \n <code>True</code> and <code>False</code>.</p>"
 }
 },
 "Tags": {
 "target": "com.amazonaws.licensemanager#TagList",
 "traits": {
 "smithy.api#documentation": "<p>Tags to add to the license configuration.</p>"
 }
 },
 "DisassociateWhenNotFound": {
 "target": "com.amazonaws.licensemanager#BoxBoolean",
 "traits": {
 "smithy.api#documentation": "<p>When true, disassociates a resource when software is
uninstalled.</p>"
 }
 },
 "ProductInformationList": {
 "target": "com.amazonaws.licensemanager#ProductInformationList",
 "traits": {
 "smithy.api#documentation": "<p>Product information.</p>"
 }
 },
 },
 "traits": {
 "smithy.api#input": {}
 }
},
"com.amazonaws.licensemanager#CreateLicenseConfigurationResponse": {
 "type": "structure",
 "members": {
 "LicenseConfigurationArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
 }
 }
 },
 },
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource":

```

```

{
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Creates a new license conversion task.</p>"
 }
},
"com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest": {
 "type": "structure",
 "members": {
 "ResourceArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource you are converting the license type for.</p>",
 "smithy.api#required": {}
 }
 },
 "SourceLicenseContext": {
 "target": "com.amazonaws.licensemanager#LicenseConversionContext",
 "traits": {
 "smithy.api#documentation":

```

"<p>Information that identifies the license type you are converting from. \n\n For the structure of the source license, see <a href=\\"https://docs.aws.amazon.com/license-manager/latest/userguide/conversion-procedures.html#conversion-cli\">Convert a license type using the CLI </a> in the <i>License Manager User Guide</i>.</p>",

```
 "smithy.api#required": {}
 },
 "DestinationLicenseContext": {
 "target": "com.amazonaws.licensemanager#LicenseConversionContext",
 "traits": {
```

"smithy.api#documentation": "<p>Information that identifies the license type you are converting to. For the structure of the destination license, see <a href=\\"https://docs.aws.amazon.com/license-manager/latest/userguide/conversion-procedures.html#conversion-cli\">Convert a license type using the CLI </a> in the <i>License Manager User Guide</i>.</p>",

```
 "smithy.api#required": {}
 },
 "traits": {
 "smithy.api#input": {}
 },
 "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse": {
 "type": "structure",
 "members": {
 "LicenseConversionTaskId": {
 "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
 "traits": {
 "smithy.api#documentation": "<p>The ID of the created license type conversion task.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
 },
 "com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
```



```

 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Creates a report generator.</p>"
 }
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest": {
 "type": "structure",
 "members": {
 "ReportGeneratorName": {
 "target": "com.amazonaws.licensemanager#ReportGeneratorName",
 "traits": {
 "smithy.api#documentation": "<p>Name of the report generator.</p>",
 "smithy.api#required": {}
 }
 }
 },
 "Type": {
 "target": "com.amazonaws.licensemanager#ReportTypeList",
 "traits": {
 "smithy.api#documentation": "<p>Type of reports to generate. The following report types an be generated:</p>\n \n \n <p>License configuration report - Reports the number and details of consumed licenses for a license configuration.</p>\n \n \n <p>Resource report - Reports the tracked licenses and resource consumption for a license configuration.</p>\n \n ",
 "smithy.api#required": {}
 }
 }
},

```

```

 "ReportContext": {
 "target": "com.amazonaws.licensemanager#ReportContext",
 "traits": {
 "smithy.api#documentation": "<p>Defines the type of license configuration the report generator
tracks.</p>",
 "smithy.api#required": {}
 }
 },
 "ReportFrequency": {
 "target": "com.amazonaws.licensemanager#ReportFrequency",

 "traits": {
 "smithy.api#documentation": "<p>Frequency by which reports are generated. Reports can be
generated daily, monthly, or weekly.</p>",
 "smithy.api#required": {}
 }
 },
 "ClientToken": {
 "target": "com.amazonaws.licensemanager#ClientRequestToken",
 "traits": {
 "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",
 "smithy.api#required": {}
 }
 },
 "Description": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Description of the report generator.</p>"
 }
 },
 "Tags": {
 "target": "com.amazonaws.licensemanager#TagList",
 "traits": {
 "smithy.api#documentation": "<p>Tags to add to the report generator.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse": {
 "type": "structure",
 "members": {
 "LicenseManagerReportGeneratorArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {

```

```

 "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the new report
generator.</p>"
 }
}
},
"traits": {
 "smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseRequest": {
 "type": "structure",
 "members": {

"LicenseName": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>License name.</p>",
 "smithy.api#required": {}
 }
},
"ProductName": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Product name.</p>",
 "smithy.api#required": {}
 }
},
"ProductSKU": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Product SKU.</p>",
 "smithy.api#required": {}
 }
},
"Issuer": {
 "target": "com.amazonaws.licensemanager#Issuer",

"traits": {
 "smithy.api#documentation": "<p>License issuer.</p>",
 "smithy.api#required": {}
}
},
"HomeRegion": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Home Region for the license.</p>",
 "smithy.api#required": {}
 }
}

```

```

 },
 "Validity": {
 "target": "com.amazonaws.licensemanager#DatetimeRange",
 "traits": {
 "smithy.api#documentation": "<p>Date and time range during which the license is valid, in ISO8601-
UTC format.</p>",
 "smithy.api#required": {}
 }
 },
 "Entitlements": {
 "target": "com.amazonaws.licensemanager#EntitlementList",
 "traits": {
 "smithy.api#documentation": "<p>License entitlements.</p>",
 "smithy.api#required": {}
 }
 },
 "Beneficiary": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>License beneficiary.</p>",
 "smithy.api#required": {}
 }
 },
 "ConsumptionConfiguration": {
 "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
 "traits": {
 "smithy.api#documentation": "<p>Configuration for consumption of the license. Choose a provisional
configuration for workloads\n running with continuous connectivity. Choose a borrow configuration for
workloads with offline\n usage.</p>",
 "smithy.api#required": {}
 }
 },
 "LicenseMetadata": {
 "target": "com.amazonaws.licensemanager#MetadataList",
 "traits": {
 "smithy.api#documentation": "<p>Information about the license.</p>"
 }
 },
 "ClientToken": {
 "target": "com.amazonaws.licensemanager#ClientToken",
 "traits": {
 "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",
 "smithy.api#required": {}
 }
 }
 }

```

```

 },
 "traits": {
 "smithy.api#input": {}
 }
 },
 "com.amazonaws.licensemanager#CreateLicenseResponse": {
 "type": "structure",
 "members": {
 "LicenseArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
 }
 },
 "Status": {
 "target": "com.amazonaws.licensemanager#LicenseStatus",
 "traits": {
 "smithy.api#documentation": "<p>License status.</p>"
 }
 },
 "Version": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>License version.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
 },
 "com.amazonaws.licensemanager#CreateLicenseVersion": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#CreateLicenseVersionRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#CreateLicenseVersionResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#ConflictException"
 }
]
 }
}

```

```

 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#RedirectException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 }
],
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
"traits": {
 "smithy.api#documentation": "<p>Creates a new version of the specified license.</p>"
}
},
"com.amazonaws.licensemanager#CreateLicenseVersionRequest": {
 "type": "structure",
 "members": {
 "LicenseArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
 "smithy.api#required": {}
 }
 },
 "LicenseName": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>License name.</p>",
 "smithy.api#required": {}
 }
 }
 }
},
"ProductName": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Product name.</p>",
 "smithy.api#required": {}
 }
},
"Issuer": {

```

```

 "target": "com.amazonaws.licensemanager#Issuer",
 "traits": {
 "smithy.api#documentation": "<p>License issuer.</p>",
 "smithy.api#required": {}
 }
 },
 "HomeRegion": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Home Region of the license.</p>",
 "smithy.api#required": {}
 }
 },
 "Validity": {
 "target": "com.amazonaws.licensemanager#DatetimeRange",
 "traits": {
 "smithy.api#documentation": "<p>Date and time range during which the license is valid, in ISO8601-
UTC format.</p>",
 "smithy.api#required": {}
 }
 },
 "LicenseMetadata": {
 "target": "com.amazonaws.licensemanager#MetadataList",
 "traits": {
 "smithy.api#documentation": "<p>Information about the license.</p>"
 }
 },
 "Entitlements": {
 "target": "com.amazonaws.licensemanager#EntitlementList",
 "traits": {
 "smithy.api#documentation": "<p>License entitlements.</p>",
 "smithy.api#required": {}
 }
 },
 "ConsumptionConfiguration": {
 "target":
"com.amazonaws.licensemanager#ConsumptionConfiguration",
 "traits": {
 "smithy.api#documentation": "<p>Configuration for consumption of the license. Choose a provisional
configuration for workloads\n running with continuous connectivity. Choose a borrow configuration for
workloads with offline\n usage.</p>",
 "smithy.api#required": {}
 }
 },
 "Status": {
 "target": "com.amazonaws.licensemanager#LicenseStatus",
 "traits": {

```

```

 "smithy.api#documentation": "<p>License status.</p>",
 "smithy.api#required": {}
 }
},
"ClientToken": {
 "target": "com.amazonaws.licensemanager#ClientToken",
 "traits": {
 "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you
provide to ensure the idempotency of the request.</p>",
 "smithy.api#required": {}
 }
},
"SourceVersion": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Current version of the license.</p>"
 }
}
},
"traits": {
 "smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseVersionResponse": {
 "type": "structure",
 "members": {
 "LicenseArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>License ARN.</p>"
 }
 },
 "Version": {
 "target": "com.amazonaws.licensemanager#String",

 "traits": {
 "smithy.api#documentation": "<p>New version of the license.</p>"
 }
 },
 "Status": {
 "target": "com.amazonaws.licensemanager#LicenseStatus",
 "traits": {
 "smithy.api#documentation": "<p>License status.</p>"
 }
 }
 }
},
"traits": {
 "smithy.api#output": {}
}

```



```

 }
 },
 "com.amazonaws.licensemanager#CreateToken": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#CreateTokenRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#CreateTokenResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#RedirectException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Creates a long-lived token.</p>\n <p>A refresh token is a JWT token used to get an access token. With an access token,\n you can call AssumeRoleWithWebIdentity to get role credentials that you can use to\n call License Manager to manage the specified license.</p>"
 }
 },
 "com.amazonaws.licensemanager#CreateTokenRequest": {
 "type": "structure",
 "members": {
 "LicenseArn": {

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```

 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license. The ARN is
mapped to the aud claim of the\n JWT token.</p>",
 "smithy.api#required": {}
 }
 },
 "RoleArns": {
 "target": "com.amazonaws.licensemanager#ArnList",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the IAM roles to embed in the
token. \n
License Manager does not check whether the roles are in use.</p>"
 }
 },
 "ExpirationInDays": {
 "target": "com.amazonaws.licensemanager#Integer",
 "traits": {
 "smithy.api#documentation": "<p>Token expiration, in days, counted from token creation. The
default is 365 days.</p>"
 }
 },
 "TokenProperties": {
 "target": "com.amazonaws.licensemanager#MaxSize3StringList",
 "traits": {
 "smithy.api#documentation": "<p>Data specified by the caller to be included in the JWT token. The
data is mapped\n to the amr claim of the JWT token.</p>"
 }
 },
 "ClientToken": {
 "target": "com.amazonaws.licensemanager#ClientToken",
 "traits": {
 "smithy.api#documentation":
"<p>Idempotency token, valid for 10 minutes.</p>",
 "smithy.api#required": {}
 }
 }
},
"traits": {
 "smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateTokenResponse": {
 "type": "structure",
 "members": {
 "TokenId": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {

```

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 "smithy.api#documentation": "<p>Token ID.</p>"
 }
},
"TokenType": {
 "target": "com.amazonaws.licensemanager#TokenType",
 "traits": {
 "smithy.api#documentation": "<p>Token type.</p>"
 }
},
"Token": {
 "target": "com.amazonaws.licensemanager#TokenString",
 "traits": {
 "smithy.api#documentation": "<p>Refresh token, encoded as a JWT token.</p>"
 }
},
"traits": {
 "smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#DateTime": {
 "type": "timestamp"
},
"com.amazonaws.licensemanager#DatetimeRange": {
 "type": "structure",
 "members": {
 "Begin": {
 "target": "com.amazonaws.licensemanager#ISO8601DateTime",
 "traits": {
 "smithy.api#documentation": "<p>Start of the time range.</p>",
 "smithy.api#required": {}
 }
 },
 "End": {
 "target": "com.amazonaws.licensemanager#ISO8601DateTime",
 "traits": {
 "smithy.api#documentation": "<p>End of the time range.</p>"
 }
 }
 }
},
"traits": {
 "smithy.api#documentation": "<p>Describes a time range, in ISO8601-UTC format.</p>"
}
},
"com.amazonaws.licensemanager#DeleteGrant": {
 "type": "operation",

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```

"input": {
 "target": "com.amazonaws.licensemanager#DeleteGrantRequest"
},
"output": {
 "target": "com.amazonaws.licensemanager#DeleteGrantResponse"
},
"errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
"traits": {
 "smithy.api#documentation": "<p>Deletes the specified grant.</p>"
}
},
"com.amazonaws.licensemanager#DeleteGrantRequest": {
 "type": "structure",
 "members": {
 "GrantArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
 "smithy.api#required": {}
 }
 },
 "StatusReason": {
 "target": "com.amazonaws.licensemanager#StatusReasonMessage",
 "traits": {
 "smithy.api#documentation": "<p>The Status reason for the delete request.</p>"
 }
 }
 }
}

```

```

 }
 },
 "Version": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Current version of the grant.</p>",
 "smithy.api#required": {}
 }
 }
},
"traits": {
 "smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#DeleteGrantResponse": {
 "type": "structure",
 "members": {
 "GrantArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>Grant ARN.</p>"
 }
 },
 "Status": {
 "target": "com.amazonaws.licensemanager#GrantStatus",
 "traits": {
 "smithy.api#documentation": "<p>Grant status.</p>"
 }
 },
 "Version": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Grant version.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#DeleteLicense": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#DeleteLicenseRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#DeleteLicenseResponse"
 },
}

```

```

"errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#ConflictException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#RedirectException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
"traits": {
 "smithy.api#documentation": "<p>Deletes the specified license.</p>"
}
},
"com.amazonaws.licensemanager#DeleteLicenseConfiguration": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {

```

```

 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 }
],
"traits": {
 "smithy.api#documentation": "<p>Deletes the specified license configuration.</p>\n <p>You cannot delete a license configuration that is in use.</p>"
}
},
"com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest": {
 "type": "structure",
 "members": {
 "LicenseConfigurationArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>ID of the license configuration.</p>",
 "smithy.api#required": {}
 }
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
},
"com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse": {
 "type": "structure",
 "members": {},
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse"
 },
 "errors": [
 {

```

```

 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
},
"traits": {
 "smithy.api#documentation": "<p>Deletes the specified report generator.</p>\n <p>This action deletes the report generator, which stops it from generating future reports.\n The action cannot be reversed. It has no effect on the previous reports from this generator.</p>"
}
},
"com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest": {
 "type": "structure",
 "members": {
 "LicenseManagerReportGeneratorArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator to be deleted.</p>",
 "smithy.api#required": {}
 }
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
},
"com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse": {

```



```

 "type": "structure",
 "members": {},
 "traits": {
 "smithy.api#output": {}
 }
 },
 "com.amazonaws.licensemanager#DeleteLicenseRequest": {
 "type": "structure",
 "members": {
 "LicenseArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
 "smithy.api#required": {}
 }
 },
 "SourceVersion": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Current version of the license.</p>",
 "smithy.api#required": {}
 }
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
 },
 "com.amazonaws.licensemanager#DeleteLicenseResponse": {
 "type": "structure",
 "members": {
 "Status": {
 "target": "com.amazonaws.licensemanager#LicenseDeletionStatus",
 "traits": {
 "smithy.api#documentation": "<p>License status.</p>"
 }
 },
 "DeletionDate": {
 "target": "com.amazonaws.licensemanager#ISO8601DateTime",
 "traits": {
 "smithy.api#documentation": "<p>Date when the license is deleted.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
 }
}

```

```

 }
 },
 "com.amazonaws.licensemanager#DeleteToken": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#DeleteTokenRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#DeleteTokenResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#RedirectException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Deletes the specified token. Must be called in the license home
Region.</p>"
 }
 },
 "com.amazonaws.licensemanager#DeleteTokenRequest": {
 "type": "structure",
 "members": {
 "TokenId": {
 "target": "com.amazonaws.licensemanager#String",
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>Token ID.</p>",
 "smithy.api#required": {}
 }
 }
}

```

```

 }
 },
 "traits": {
 "smithy.api#input": {}
 }
},
"com.amazonaws.licensemanager#DeleteTokenResponse": {
 "type": "structure",
 "members": {},
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#DigitalSignatureMethod": {
 "type": "enum",
 "members": {
 "JWT_PS384": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "JWT_PS384"
 }
 }
 }
},
"com.amazonaws.licensemanager#Entitlement": {
 "type": "structure",
 "members": {
 "Name": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Entitlement name.</p>",
 "smithy.api#required": {}
 }
 },
 "Value": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Entitlement resource. Use only if the unit is None.</p>"
 }
 },
 "MaxCount": {
 "target": "com.amazonaws.licensemanager#Long",
 "traits": {
 "smithy.api#documentation": "<p>Maximum entitlement count. Use if the unit is not None.</p>"
 }
 }
 }
},

```

```

 "Overage": {
 "target": "com.amazonaws.licensemanager#BoxBoolean",
 "traits": {
 "smithy.api#documentation":
"<p>Indicates whether overages are allowed.</p>"
 }
 },
 "Unit": {
 "target": "com.amazonaws.licensemanager#EntitlementUnit",
 "traits": {
 "smithy.api#documentation": "<p>Entitlement unit.</p>",
 "smithy.api#required": {}
 }
 },
 "AllowCheckIn": {
 "target": "com.amazonaws.licensemanager#BoxBoolean",
 "traits": {
 "smithy.api#documentation": "<p>Indicates whether check-ins are allowed.</p>"
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>Describes a resource entitled for use with a license.</p>"
 }
 },
 "com.amazonaws.licensemanager#EntitlementData": {
 "type": "structure",
 "members": {
 "Name":
{
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Entitlement data name.</p>",
 "smithy.api#required": {}
 }
 },
 "Value": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Entitlement data value.</p>"
 }
 },
 "Unit": {
 "target": "com.amazonaws.licensemanager#EntitlementDataUnit",
 "traits": {
 "smithy.api#documentation": "<p>Entitlement data unit.</p>",
 "smithy.api#required": {}
 }
 }
 }
}

```

```

 }
 },
 "traits": {
 "smithy.api#documentation": "<p>Data associated with an entitlement resource.</p>"
 }
},
"com.amazonaws.licensemanager#EntitlementDataList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#EntitlementData"
 }
},
"com.amazonaws.licensemanager#EntitlementDataUnit": {
 "type": "enum",
 "members": {
 "COUNT": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Count"
 }
 },
 "NONE": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "None"
 }
 },
 "SECONDS": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Seconds"
 }
 },
 "MICROSECONDS": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Microseconds"
 }
 },
 "MILLISECONDS": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Milliseconds"
 }
 },
 "BYTES": {

```

```

 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Bytes"
 }
 },
 "KILOBYTES": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Kilobytes"
 }
 },
 "MEGABYTES": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Megabytes"
 }
 }
},
"GIGABYTES": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Gigabytes"
 }
},
"TERABYTES": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Terabytes"
 }
},
"BITS": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Bits"
 }
},
"KILOBITS": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Kilobits"
 }
},
"MEGABITS": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Megabits"
 }
}

```

```

},
"GIGABITS": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Gigabits"
 }
},
"TERABITS": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Terabits"
 }
},
"PERCENT": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Percent"
 }
},
"BYTES_PER_SECOND": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Bytes/Second"
 }
},
"KILOBYTES_PER_SECOND": {
 "target":
"smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Kilobytes/Second"
 }
},
"MEGABYTES_PER_SECOND": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Megabytes/Second"
 }
},
"GIGABYTES_PER_SECOND": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Gigabytes/Second"
 }
},
"TERABYTES_PER_SECOND": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Terabytes/Second"
 }
}

```

```

 }
 },
 "BITS_PER_SECOND": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue":
"Bits/Second"
 }
 },
 "KILOBITS_PER_SECOND": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Kilobits/Second"
 }
 },
 "MEGABITS_PER_SECOND": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Megabits/Second"
 }
 },
 "GIGABITS_PER_SECOND": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Gigabits/Second"
 }
 },
 "TERABITS_PER_SECOND": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Terabits/Second"
 }
 },
 "COUNT_PER_SECOND": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Count/Second"
 }
 }
},
"com.amazonaws.licensemanager#EntitlementList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#Entitlement"
 }
},

```



```

"com.amazonaws.licensemanager#EntitlementNotAllowedException": {
 "type": "structure",
 "members": {
 "Message": {
 "target": "com.amazonaws.licensemanager#Message"
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>The entitlement is not allowed.</p>",
 "smithy.api#error": "client",
 "smithy.api#httpError": 400
 }
},
"com.amazonaws.licensemanager#EntitlementUnit": {
 "type": "enum",
 "members": {
 "COUNT": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Count"
 }
 },
 "NONE": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "None"
 }
 },
 "SECONDS": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Seconds"
 }
 },
 "MICROSECONDS": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Microseconds"
 }
 },
 "MILLISECONDS": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Milliseconds"
 }
 }
 },

```

```

"BYTES": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Bytes"
 }
},
"KILOBYTES": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Kilobytes"
 }
},
"MEGABYTES": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Megabytes"
 }
},
"GIGABYTES": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Gigabytes"
 }
},
"TERABYTES": {
 "target":
"smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Terabytes"
 }
},
"BITS": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Bits"
 }
},
"KILOBITS": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Kilobits"
 }
},
"MEGABITS": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Megabits"
 }
}

```

```

 },
 "GIGABITS": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Gigabits"
 }
 },

"TERABITS": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Terabits"
 }
},
"PERCENT": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Percent"
 }
},
"BYTES_PER_SECOND": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Bytes/Second"
 }
},
"KILOBYTES_PER_SECOND": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Kilobytes/Second"
 }
},
"MEGABYTES_PER_SECOND": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Megabytes/Second"
 }
},
"GIGABYTES_PER_SECOND": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Gigabytes/Second"
 }
},
"TERABYTES_PER_SECOND": {
 "target": "smithy.api#Unit",
 "traits": {

```

```

 "smithy.api#enumValue": "Terabytes/Second"
 }
},
"BITS_PER_SECOND": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Bits/Second"
 }
},
"KILOBITS_PER_SECOND": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Kilobits/Second"
 }
},
"MEGABITS_PER_SECOND": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Megabits/Second"
 }
},
"GIGABITS_PER_SECOND": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Gigabits/Second"
 }
},
"TERABITS_PER_SECOND": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Terabits/Second"
 }
},
"COUNT_PER_SECOND": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Count/Second"
 }
}
},
"com.amazonaws.licensemanager#EntitlementUsage": {
 "type": "structure",
 "members": {
 "Name": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {

```

```

 "smithy.api#documentation": "<p>Entitlement usage name.</p>",
 "smithy.api#required": {}
 }
},
"ConsumedValue": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Resource usage consumed.</p>",
 "smithy.api#required": {}
 }
},
"MaxCount": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Maximum entitlement usage count.</p>"
 }
},
"Unit": {
 "target": "com.amazonaws.licensemanager#EntitlementDataUnit",
 "traits": {
 "smithy.api#documentation": "<p>Entitlement usage unit.</p>",
 "smithy.api#required": {}
 }
}
},
"traits": {
 "smithy.api#documentation": "<p>Usage associated with an entitlement resource.</p>"
}
},
"com.amazonaws.licensemanager#EntitlementUsageList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#EntitlementUsage"
 }
},
"com.amazonaws.licensemanager#ExtendLicenseConsumption": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse"
 },
},
"errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
}

```

```

 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Extends the expiration date for license
consumption.</p>"
 }
},
"com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest": {
 "type": "structure",
 "members": {
 "LicenseConsumptionToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>License consumption token.</p>",
 "smithy.api#required": {}
 }
 },
 "DryRun": {
 "target": "com.amazonaws.licensemanager#Boolean",
 "traits": {
 "smithy.api#default": false,
 "smithy.api#documentation": "<p>Checks whether you have the required permissions for the action,
without actually making the request. Provides an error response if you do not have the required permissions.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
},
"com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse": {

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```

"type": "structure",
"members": {
 "LicenseConsumptionToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>License consumption token.</p>"
 }
 },
 "Expiration": {
 "target": "com.amazonaws.licensemanager#ISO8601DateTime",
 "traits": {
 "smithy.api#documentation": "<p>Date and time at which the license consumption expires.</p>"
 }
 }
},
"traits": {
 "smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#FailedDependencyException": {
 "type": "structure",
 "members": {
 "Message": {
 "target": "com.amazonaws.licensemanager#Message"
 },
 "ErrorCode": {
 "target": "com.amazonaws.licensemanager#String"
 }
 },
 "traits": {
 "aws.protocols#awsQueryError": {
 "code": "FailedDependency",
 "httpResponseCode": 424
 },
 "smithy.api#documentation": "<p>A dependency required to run the API is missing.</p>",
 "smithy.api#error": "client",
 "smithy.api#httpError": 424
 }
},
"com.amazonaws.licensemanager#Filter": {
 "type": "structure",
 "members": {
 "Name": {
 "target": "com.amazonaws.licensemanager#FilterName",
 "traits": {
 "smithy.api#documentation": "<p>Name of the filter. Filter names are case-sensitive.</p>"
 }
 }
 },

```

```

 "Values": {
 "target": "com.amazonaws.licensemanager#FilterValues",
 "traits": {
 "smithy.api#documentation": "<p>The value of the filter, which is case-sensitive. You can only
specify one value for the filter.</p>"
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>A filter name and value pair that is used to return more specific results
from a\n describe operation. Filters can be used to match a set of resources by specific criteria,\n such as
tags, attributes, or IDs.</p>"
 }
 },
 "com.amazonaws.licensemanager#FilterLimitExceededException": {
 "type": "structure",
 "members": {
 "Message": {
 "target": "com.amazonaws.licensemanager#Message"
 }
 },
 "traits":
 {
 "aws.protocols#awsQueryError": {
 "code": "FilterLimitExceeded",
 "httpResponseCode": 400
 },
 "smithy.api#documentation": "<p>The request uses too many filters or too many filter values.</p>",
 "smithy.api#error": "client",
 "smithy.api#httpError": 400
 }
},
"com.amazonaws.licensemanager#FilterList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#Filter"
 }
},
"com.amazonaws.licensemanager#FilterName": {
 "type": "string"
},
"com.amazonaws.licensemanager#FilterValue": {
 "type": "string"
},
"com.amazonaws.licensemanager#FilterValues": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#FilterValue",

```



```

 "traits": {
 "smithy.api#xmlName": "item"
 }
 },
 "com.amazonaws.licensemanager#Filters": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#Filter",
 "traits": {
 "smithy.api#xmlName": "item"
 }
 }
 },
 "com.amazonaws.licensemanager#GetAccessToken": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#GetAccessTokenRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#GetAccessTokenResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target":
"com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Gets a temporary access token to use with
AssumeRoleWithWebIdentity. Access tokens\n are valid for one hour.</p>"
 }
 },
 "com.amazonaws.licensemanager#GetAccessTokenRequest": {
 "type": "structure",

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```

"members": {
 "Token": {
 "target": "com.amazonaws.licensemanager#TokenString",
 "traits": {
 "smithy.api#documentation": "<p>Refresh token, encoded as a JWT token.</p>",
 "smithy.api#required": {}
 }
 },
 "TokenProperties": {
 "target": "com.amazonaws.licensemanager#MaxSize3StringList",
 "traits": {
 "smithy.api#documentation": "<p>Token properties to validate against those present in the JWT
token.</p>"
 }
 }
},
"traits": {
 "smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#GetAccessTokenResponse": {
 "type": "structure",
 "members": {
 "AccessToken": {
 "target": "com.amazonaws.licensemanager#TokenString",
 "traits": {
 "smithy.api#documentation": "<p>Temporary access token.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#GetGrant": {
 "type": "operation",

 "input": {
 "target": "com.amazonaws.licensemanager#GetGrantRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#GetGrantResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {

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```

 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
"traits": {
 "smithy.api#documentation": "<p>Gets detailed information about the specified grant.</p>"
}
},
"com.amazonaws.licensemanager#GetGrantRequest": {
 "type": "structure",
 "members": {
 "GrantArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
 "smithy.api#required": {}
 }
 },
 "Version": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Grant version.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
},
"com.amazonaws.licensemanager#GetGrantResponse": {
 "type": "structure",
 "members": {
 "Grant": {

```

```

 "target": "com.amazonaws.licensemanager#Grant",
 "traits": {
 "smithy.api#documentation": "<p>Grant details.</p>"
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#GetLicense": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#GetLicenseRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#GetLicenseResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Gets detailed information about the specified license.</p>"
 }
},
"com.amazonaws.licensemanager#GetLicenseConfiguration": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#GetLicenseConfigurationRequest"
 },

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```

"output": {
 "target": "com.amazonaws.licensemanager#GetLicenseConfigurationResponse"
},
"errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 }
],
"traits": {
 "smithy.api#documentation": "<p>Gets detailed information about the specified license configuration.</p>"
}
},
"com.amazonaws.licensemanager#GetLicenseConfigurationRequest":
{
 "type": "structure",
 "members": {
 "LicenseConfigurationArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>",
 "smithy.api#required": {}
 }
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
},
"com.amazonaws.licensemanager#GetLicenseConfigurationResponse": {
 "type": "structure",
 "members": {
 "LicenseConfigurationId": {
 "target": "com.amazonaws.licensemanager#String",

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```

 "traits": {
 "smithy.api#documentation": "<p>Unique ID for the license configuration.</p>"
 }
 },
 "LicenseConfigurationArn":
{
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
 }
},
 "Name": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Name of the license configuration.</p>"
 }
 },
 "Description": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Description of the license configuration.</p>"
 }
 },
 "LicenseCountingType": {
 "target": "com.amazonaws.licensemanager#LicenseCountingType",
 "traits": {
 "smithy.api#documentation":
"<p>Dimension for which the licenses are counted.</p>"
 }
 },
 "LicenseRules": {
 "target": "com.amazonaws.licensemanager#StringList",
 "traits": {
 "smithy.api#documentation": "<p>License rules.</p>"
 }
 },
 "LicenseCount": {
 "target": "com.amazonaws.licensemanager#BoxLong",
 "traits": {
 "smithy.api#documentation": "<p>Number of available licenses.</p>"
 }
 },
 "LicenseCountHardLimit": {
 "target": "com.amazonaws.licensemanager#BoxBoolean",
 "traits": {
 "smithy.api#documentation": "<p>Sets the number of available licenses as a hard limit.</p>"
 }
 },
}

```

```

 "ConsumedLicenses": {
 "target":
"com.amazonaws.licensemanager#BoxLong",
 "traits": {
 "smithy.api#documentation": "<p>Number of licenses assigned to resources.</p>"
 }
 },
 "Status": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>License configuration status.</p>"
 }
 },
 "OwnerAccountId": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Account ID of the owner of the license configuration.</p>"
 }
 },
 "ConsumedLicenseSummaryList": {
 "target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",
 "traits": {
 "smithy.api#documentation": "<p>Summaries
of the licenses consumed by resources.</p>"
 }
 },
 "ManagedResourceSummaryList": {
 "target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
 "traits": {
 "smithy.api#documentation": "<p>Summaries of the managed resources.</p>"
 }
 },
 "Tags": {
 "target": "com.amazonaws.licensemanager#TagList",
 "traits": {
 "smithy.api#documentation": "<p>Tags for the license configuration.</p>"
 }
 },
 "ProductInformationList": {
 "target": "com.amazonaws.licensemanager#ProductInformationList",
 "traits": {
 "smithy.api#documentation": "<p>Product information.</p>"
 }
 },
 "AutomatedDiscoveryInformation":
{
 "target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
 "traits": {

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```

 "smithy.api#documentation": "<p>Automated discovery information.</p>"
 }
},
"DisassociateWhenNotFound": {
 "target": "com.amazonaws.licensemanager#BoxBoolean",
 "traits": {
 "smithy.api#documentation": "<p>When true, disassociates a resource when software is
uninstalled.</p>"
 }
}
},
"traits": {
 "smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTask": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#GetLicenseConversionTaskRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#GetLicenseConversionTaskResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Gets information about the specified license type conversion task.</p>"
 }
},
"com.amazonaws.licensemanager#GetLicenseConversionTaskRequest": {
 "type": "structure",
 "members": {

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```

 "LicenseConversionTaskId": {
 "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
 "traits": {
 "smithy.api#documentation": "<p>ID of the license type conversion task to retrieve information
on.</p>",
 "smithy.api#required": {}
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
 },
 "com.amazonaws.licensemanager#GetLicenseConversionTaskResponse": {
 "type": "structure",
 "members": {
 "LicenseConversionTaskId": {
 "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
 "traits": {
 "smithy.api#documentation": "<p>ID of the license type conversion task.</p>"
 }
 },
 "ResourceArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Names (ARN) of the resources the license
conversion task is associated with.</p>"
 }
 },
 "SourceLicenseContext": {
 "target": "com.amazonaws.licensemanager#LicenseConversionContext",
 "traits": {
 "smithy.api#documentation": "<p>Information about the license type converted from.</p>"
 }
 },
 "DestinationLicenseContext": {
 "target": "com.amazonaws.licensemanager#LicenseConversionContext",
 "traits": {
 "smithy.api#documentation": "<p>Information about the license type converted to.</p>"
 }
 },
 "StatusMessage": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>The status message for the conversion task.</p>"
 }
 }
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>The status message for the conversion task.</p>"
 }
},

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```

 "Status": {
 "target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
 "traits": {
 "smithy.api#documentation": "<p>Status of the license type conversion task.</p>"
 }
 },
 "StartTime": {
 "target": "com.amazonaws.licensemanager#DateTime",
 "traits": {
 "smithy.api#documentation": "<p>Time at which the license type conversion task was started .</p>"
 }
 },
 "LicenseConversionTime": {
 "target": "com.amazonaws.licensemanager#DateTime",
 "traits": {
 "smithy.api#documentation": "<p>Amount of time to complete the license type
conversion.</p>"
 }
 },
 "EndTime": {
 "target": "com.amazonaws.licensemanager#DateTime",
 "traits": {
 "smithy.api#documentation": "<p>Time at which the license type conversion task was
completed.</p>"
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
 },
 "com.amazonaws.licensemanager#GetLicenseManagerReportGenerator": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 }
]
 }
}

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```

 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
"traits": {
 "smithy.api#documentation": "<p>Gets information about the specified report generator.</p>"
}
},
"com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest": {
 "type": "structure",
 "members": {
 "LicenseManagerReportGeneratorArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator.</p>",
 "smithy.api#required": {}
 }
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
},
"com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse": {
 "type": "structure",
 "members": {
 "ReportGenerator": {
 "target": "com.amazonaws.licensemanager#ReportGenerator",
 "traits": {
 "smithy.api#documentation": "<p>A report generator that creates
periodic reports about your license configurations.</p>"
 }
 }
 }
}

```

```

 },
 "traits": {
 "smithy.api#output": {}
 }
 },
 "com.amazonaws.licensemanager#GetLicenseRequest": {
 "type": "structure",
 "members": {
 "LicenseArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
 "smithy.api#required": {}
 }
 },
 "Version": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>License version.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
 },
 "com.amazonaws.licensemanager#GetLicenseResponse": {
 "type": "structure",
 "members": {
 "License": {
 "target": "com.amazonaws.licensemanager#License",
 "traits": {
 "smithy.api#documentation": "<p>License details.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
 },
 "com.amazonaws.licensemanager#GetLicenseUsage": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#GetLicenseUsageRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#GetLicenseUsageResponse"
 }
 }
}

```

```

 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Gets detailed information about the usage of the specified license.</p>"
 }
 },
 "com.amazonaws.licensemanager#GetLicenseUsageRequest": {
 "type": "structure",
 "members": {
 "LicenseArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
 "smithy.api#required": {}
 }
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
 },
 "com.amazonaws.licensemanager#GetLicenseUsageResponse": {
 "type": "structure",
 "members": {
 "LicenseUsage": {
 "target": "com.amazonaws.licensemanager#LicenseUsage",
 "traits": {
 "smithy.api#documentation": "<p>License usage details.</p>"
 }
 }
 }
 }
}

```

```

 }
 },
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#GetServiceSettings": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#GetServiceSettingsRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#GetServiceSettingsResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Gets the License Manager settings for the current Region.</p>"
 }
},
"com.amazonaws.licensemanager#GetServiceSettingsRequest": {
 "type": "structure",
 "members": {},
 "traits": {
 "smithy.api#input": {}
 }
},
"com.amazonaws.licensemanager#GetServiceSettingsResponse": {
 "type": "structure",
 "members": {
 "S3BucketArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Regional S3 bucket path for storing reports, license trail event data,
discovery data,\n and so on.</p>"
 }
 }
 }
}

```

```

 }
 },
 "SnsTopicArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>SNS topic configured to receive notifications from License
Manager.</p>"
 }
 },
 "OrganizationConfiguration": {
 "target": "com.amazonaws.licensemanager#OrganizationConfiguration",
 "traits": {
 "smithy.api#documentation":
"<p>Indicates whether Organizations is integrated with License Manager for\n cross-account discovery.</p>"
 }
 },
 "EnableCrossAccountsDiscovery": {
 "target": "com.amazonaws.licensemanager#BoxBoolean",
 "traits": {
 "smithy.api#documentation": "<p>Indicates whether cross-account discovery is enabled.</p>"
 }
 },
 "LicenseManagerResourceShareArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource share. The License
Manager management account \n provides member accounts with access to this share.</p>"
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
},

"com.amazonaws.licensemanager#Grant": {
 "type": "structure",
 "members": {
 "GrantArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
 "smithy.api#required": {}
 }
 },
 "GrantName": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {

```

```

 "smithy.api#documentation": "<p>Grant name.</p>",
 "smithy.api#required": {}
 }
},
"ParentArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>Parent ARN.</p>",
 "smithy.api#required": {}
 }
},
"LicenseArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>License ARN.</p>",
 "smithy.api#required": {}
 }
},
"GranteePrincipalArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>The grantee principal ARN.</p>",
 "smithy.api#required": {}
 }
},
"HomeRegion": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Home Region of the grant.</p>",
 "smithy.api#required": {}
 }
},
"GrantStatus": {
 "target":
"com.amazonaws.licensemanager#GrantStatus",
 "traits": {
 "smithy.api#documentation": "<p>Grant status.</p>",
 "smithy.api#required": {}
 }
},
"StatusReason": {
 "target": "com.amazonaws.licensemanager#StatusReasonMessage",
 "traits": {
 "smithy.api#documentation": "<p>Grant status reason.</p>"
 }
},
"Version": {

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```

 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Grant version.</p>",
 "smithy.api#required": {}
 }
 },
 "GrantedOperations": {
 "target": "com.amazonaws.licensemanager#AllowedOperationList",
 "traits": {
 "smithy.api#documentation":
"<p>Granted operations.</p>",
 "smithy.api#required": {}
 }
 },
 "Options": {
 "target": "com.amazonaws.licensemanager#Options",
 "traits": {
 "smithy.api#documentation": "<p>The options specified for the grant.</p>"
 }
 }
},
"traits": {
 "smithy.api#documentation": "<p>Describes a grant.</p>"
}
},
"com.amazonaws.licensemanager#GrantList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#Grant"
 }
},
"com.amazonaws.licensemanager#GrantStatus": {
 "type": "enum",
 "members": {
 "PENDING_WORKFLOW": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue":
"PENDING_WORKFLOW"
 }
 },
 "PENDING_ACCEPT": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "PENDING_ACCEPT"
 }
 },
 "REJECTED": {

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 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "REJECTED"
 }
 },
 "ACTIVE": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "ACTIVE"
 }
 },
 "FAILED_WORKFLOW": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "FAILED_WORKFLOW"
 }
 },
 "DELETED": {
 "target":
"smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "DELETED"
 }
 },
 "PENDING_DELETE": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "PENDING_DELETE"
 }
 },
 "DISABLED": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "DISABLED"
 }
 },
 "WORKFLOW_COMPLETED": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "WORKFLOW_COMPLETED"
 }
 }
}
},
"com.amazonaws.licensemanager#GrantedLicense": {
 "type": "structure",
 "members": {
 "LicenseArn": {

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"target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
 }
},
"LicenseName": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>License name.</p>"
 }
},
"ProductName": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Product name.</p>"
 }
},
"ProductSKU": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Product SKU.</p>"
 }
},
"Issuer":
{
 "target": "com.amazonaws.licensemanager#IssuerDetails",
 "traits": {
 "smithy.api#documentation": "<p>Granted license issuer.</p>"
 }
},
"HomeRegion": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Home Region of the granted license.</p>"
 }
},
"Status": {
 "target": "com.amazonaws.licensemanager#LicenseStatus",
 "traits": {
 "smithy.api#documentation": "<p>Granted license status.</p>"
 }
},
"Validity": {
 "target": "com.amazonaws.licensemanager#DatetimeRange",
 "traits": {
 "smithy.api#documentation": "<p>Date and time range during which the

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granted license is valid, in ISO8601-UTC format.</p>"
 }
 },
 "Beneficiary": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Granted license beneficiary.</p>"
 }
 },
 "Entitlements": {
 "target": "com.amazonaws.licensemanager#EntitlementList",
 "traits": {
 "smithy.api#documentation": "<p>License entitlements.</p>"
 }
 },
 "ConsumptionConfiguration": {
 "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
 "traits": {
 "smithy.api#documentation": "<p>Configuration for consumption of the license.</p>"
 }
 },
 "LicenseMetadata": {
 "target": "com.amazonaws.licensemanager#MetadataList",
 "traits": {
 "smithy.api#documentation": "<p>Granted license metadata.</p>"
 }
 },
 "CreateTime": {
 "target": "com.amazonaws.licensemanager#ISO8601DateTime",
 "traits": {
 "smithy.api#documentation": "<p>Creation time of the granted license.</p>"
 }
 },
 "Version": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Version of the granted license.</p>"
 }
 },
 "ReceivedMetadata": {
 "target": "com.amazonaws.licensemanager#ReceivedMetadata",
 "traits": {
 "smithy.api#documentation": "<p>Granted license received metadata.</p>"
 }
 },
 "traits": {

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 "smithy.api#documentation": "<p>Describes a license that is granted to a grantee.</p>"
 }
},
"com.amazonaws.licensemanager#GrantedLicenseList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#GrantedLicense"
 }
},
"com.amazonaws.licensemanager#ISO8601DateTime": {
 "type": "string",
 "traits": {
 "smithy.api#length": {
 "min": 0,
 "max": 50
 },
 "smithy.api#pattern": "^(-(?:[1-9][0-9]*)?[0-9]{4})-(1[0-2]|0[1-9])-(3[0-1]|0[1-9]|[1-2][0-9])T(2[0-3]|[0-1][0-9]):([0-5][0-9]):([0-5][0-9])(\\.([0-9]+)?(?:Z|[+-](?:2[0-3]|[0-1][0-9]):[0-5][0-9])+$)"
 }
},
"com.amazonaws.licensemanager#Integer": {
 "type": "integer"
},
"com.amazonaws.licensemanager#InvalidParameterValueException":
{
 "type": "structure",
 "members": {
 "Message": {
 "target": "com.amazonaws.licensemanager#Message"
 }
 },
 "traits": {
 "aws.protocols#awsQueryError": {
 "code": "InvalidParameterValueProvided",
 "httpResponseCode": 400
 },
 "smithy.api#documentation": "<p>One or more parameter values are not valid.</p>",
 "smithy.api#error": "client",
 "smithy.api#httpError": 400
 }
},
"com.amazonaws.licensemanager#InvalidResourceStateException": {
 "type": "structure",
 "members": {
 "Message": {
 "target": "com.amazonaws.licensemanager#Message"
 }
 },
},

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"traits": {
 "aws.protocols#awsQueryError": {

"code": "InvalidResourceState",
 "httpResponseCode": 400
 },
 "smithy.api#documentation": "<p>License Manager cannot allocate a license to a resource because of its
state. </p>\n <p>For example, you cannot allocate a license to an instance in the process of shutting\n
down.</p>",
 "smithy.api#error": "client",
 "smithy.api#httpError": 400
 }
},
"com.amazonaws.licensemanager#InventoryFilter": {
 "type": "structure",
 "members": {
 "Name": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Name of the filter.</p>",
 "smithy.api#required": {}
 }
 },
 "Condition": {
 "target": "com.amazonaws.licensemanager#InventoryFilterCondition",
 "traits": {
 "smithy.api#documentation": "<p>Condition of the filter.</p>",
 "smithy.api#required": {}
 }
 },
 "Value": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Value of the filter.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>An inventory filter.</p>"
 }
},
"com.amazonaws.licensemanager#InventoryFilterCondition": {
 "type": "enum",
 "members": {
 "EQUALS": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "EQUALS"
 }
 }
 }
}

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 }
 },
 "NOT_EQUALS": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "NOT_EQUALS"
 }
 },
 "BEGINS_WITH": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "BEGINS_WITH"
 }
 },
 "CONTAINS": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "CONTAINS"
 }
 }
}
},
"com.amazonaws.licensemanager#InventoryFilterList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#InventoryFilter"
 }
},
"com.amazonaws.licensemanager#Issuer": {
 "type": "structure",
 "members": {
 "Name": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Issuer name.</p>",
 "smithy.api#required": {}
 }
 }
 },
 "SignKey": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Asymmetric KMS key from Key Management Service. The KMS key must have a key usage of sign and verify, \n and support the RSASSA-PSS SHA-256 signing algorithm.</p>"
 }
 }
},
"traits": {

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 "smithy.api#documentation": "<p>Details about the issuer of a license.</p>"
 }
},
"com.amazonaws.licensemanager#IssuerDetails": {
 "type": "structure",
 "members": {
 "Name": {
 "target": "com.amazonaws.licensemanager#String",
 "traits":
{
 "smithy.api#documentation": "<p>Issuer name.</p>"
 }
 },
 "SignKey": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Asymmetric KMS key from Key Management Service. The KMS
key must have a key usage of sign and verify, \n and support the RSASSA-PSS SHA-256 signing
algorithm.</p>"
 }
 },
 "KeyFingerprint": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Issuer key fingerprint.</p>"
 }
 }
},
"traits": {
 "smithy.api#documentation": "<p>Details associated with the issuer of a license.</p>"
}
},
"com.amazonaws.licensemanager#License": {

"type": "structure",
"members": {
 "LicenseArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
 }
 },
 "LicenseName": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>License name.</p>"
 }
 }
},

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"ProductName": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Product name.</p>"
 }
},
"ProductSKU": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation":
"<p>Product SKU.</p>"
 }
},
"Issuer": {
 "target": "com.amazonaws.licensemanager#IssuerDetails",
 "traits": {
 "smithy.api#documentation": "<p>License issuer.</p>"
 }
},
"HomeRegion": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Home Region of the license.</p>"
 }
},
"Status": {
 "target": "com.amazonaws.licensemanager#LicenseStatus",
 "traits": {
 "smithy.api#documentation": "<p>License status.</p>"
 }
},
"Validity": {
 "target": "com.amazonaws.licensemanager#DatetimeRange",
 "traits": {
 "smithy.api#documentation": "<p>Date and time range during which the license is valid, in ISO8601-UTC
format.</p>"
 }
},
"Beneficiary": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>License beneficiary.</p>"
 }
},
"Entitlements": {
 "target": "com.amazonaws.licensemanager#EntitlementList",
 "traits": {

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 "smithy.api#documentation": "<p>License entitlements.</p>"
 }
},
"ConsumptionConfiguration": {
 "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
 "traits": {
 "smithy.api#documentation": "<p>Configuration for consumption of the license.</p>"
 }
},
"LicenseMetadata": {
 "target": "com.amazonaws.licensemanager#MetadataList",
 "traits": {
 "smithy.api#documentation": "<p>License metadata.</p>"
 }
},
"CreateTime": {
 "target": "com.amazonaws.licensemanager#ISO8601DateTime",
 "traits": {
 "smithy.api#documentation": "<p>License creation time.</p>"
 }
},
"Version": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>License version.</p>"
 }
},
"traits": {
 "smithy.api#documentation": "<p>Software license that is managed in License Manager.</p>"
}
},
"com.amazonaws.licensemanager#LicenseConfiguration":
{
 "type": "structure",
 "members": {
 "LicenseConfigurationId": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Unique ID of the license configuration.</p>"
 }
 },
 "LicenseConfigurationArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
 }
 }
 }
}

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},
"Name": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Name of the license configuration.</p>"
 }
},
"Description": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Description of the license configuration.</p>"
 }
},
"LicenseCountingType": {
 "target": "com.amazonaws.licensemanager#LicenseCountingType",
 "traits": {
 "smithy.api#documentation": "<p>Dimension to use to track the license inventory.</p>"
 }
},
"LicenseRules": {
 "target": "com.amazonaws.licensemanager#StringList",
 "traits": {
 "smithy.api#documentation": "<p>License rules.</p>"
 }
},
"LicenseCount": {
 "target": "com.amazonaws.licensemanager#BoxLong",
 "traits": {
 "smithy.api#documentation": "<p>Number of licenses managed by the license
configuration.</p>"
 }
},
"LicenseCountHardLimit": {
 "target": "com.amazonaws.licensemanager#BoxBoolean",
 "traits": {
 "smithy.api#documentation": "<p>Number of available licenses as a hard limit.</p>"
 }
},
"DisassociateWhenNotFound": {
 "target": "com.amazonaws.licensemanager#BoxBoolean",
 "traits": {
 "smithy.api#documentation": "<p>When true, disassociates a resource when software is
uninstalled.</p>"
 }
},
"ConsumedLicenses": {
 "target": "com.amazonaws.licensemanager#BoxLong",
 "traits": {

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 "smithy.api#documentation": "<p>Number of licenses consumed. </p>"
 }
},
"Status": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Status of the license configuration.</p>"
 }
},
"OwnerAccountId": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Account ID of the license configuration's owner.</p>"
 }
},
"ConsumedLicenseSummaryList": {
 "target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",
 "traits": {
 "smithy.api#documentation": "<p>Summaries for licenses consumed by various resources.</p>"
 }
},
"ManagedResourceSummaryList": {
 "target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
 "traits": {
 "smithy.api#documentation": "<p>Summaries for managed resources.</p>"
 }
},
"ProductInformationList": {
 "target": "com.amazonaws.licensemanager#ProductInformationList",
 "traits": {
 "smithy.api#documentation": "<p>Product information.</p>"
 }
},
"AutomatedDiscoveryInformation": {
 "target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
 "traits": {
 "smithy.api#documentation": "<p>Automated discovery information.</p>"
 }
},
"traits": {
 "smithy.api#documentation": "<p>A license configuration is an abstraction of a customer license agreement that can be consumed and enforced by License Manager. Components include specifications for the license type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, Dedicated Instance, Dedicated Host, or all of these), host affinity (how long a VM must be associated with a host), and"

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the number of licenses purchased and used.</p>

```
 }
 },
 "com.amazonaws.licensemanager#LicenseConfigurationAssociation": {
 "type": "structure",
 "members": {
 "ResourceArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
 }
 },
 "ResourceType": {
 "target": "com.amazonaws.licensemanager#ResourceType",
 "traits": {
 "smithy.api#documentation": "<p>Type of server resource.</p>"
 }
 },
 "ResourceOwnerId": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>ID of the Amazon Web Services account that owns the resource consuming licenses.</p>"
 }
 },
 "AssociationTime": {
 "target": "com.amazonaws.licensemanager#DateTime",
 "traits": {
 "smithy.api#documentation": "<p>Time when the license configuration was associated with the resource.</p>"
 }
 },
 "AmiAssociationScope": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Scope of AMI associations. The possible value is <code>cross-account</code>.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>Describes an association with a license configuration.</p>"
 }
 },
 "com.amazonaws.licensemanager#LicenseConfigurationAssociations": {
 "type": "list",
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"member": {
 "target": "com.amazonaws.licensemanager#LicenseConfigurationAssociation"
}
},
"com.amazonaws.licensemanager#LicenseConfigurationStatus": {
 "type": "enum",
 "members": {
 "AVAILABLE": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "AVAILABLE"
 }
 },
 "DISABLED": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "DISABLED"
 }
 }
 }
},
"com.amazonaws.licensemanager#LicenseConfigurationUsage": {

 "type": "structure",
 "members": {
 "ResourceArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
 }
 },
 "ResourceType": {
 "target": "com.amazonaws.licensemanager#ResourceType",
 "traits": {
 "smithy.api#documentation": "<p>Type of resource.</p>"
 }
 },
 "ResourceStatus": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Status of the resource.</p>"
 }
 },
 "ResourceOwnerId": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {

```

```

 "smithy.api#documentation": "<p>ID of the account that owns the resource.</p>"
 }
},
"AssociationTime": {
 "target": "com.amazonaws.licensemanager#DateTime",
 "traits": {
 "smithy.api#documentation": "<p>Time when the license configuration was initially associated with
the resource.</p>"
 }
},
"ConsumedLicenses": {
 "target": "com.amazonaws.licensemanager#BoxLong",
 "traits": {
 "smithy.api#documentation": "<p>Number of licenses consumed by the resource.</p>"
 }
},
"traits": {
 "smithy.api#documentation": "<p>Details about the usage of a resource associated with a license
configuration.</p>"
},
"com.amazonaws.licensemanager#LicenseConfigurationUsageList":
{
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#LicenseConfigurationUsage"
 }
},
"com.amazonaws.licensemanager#LicenseConfigurations": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#LicenseConfiguration"
 }
},
"com.amazonaws.licensemanager#LicenseConversionContext": {
 "type": "structure",
 "members": {
 "UsageOperation": {
 "target": "com.amazonaws.licensemanager#UsageOperation",
 "traits": {
 "smithy.api#documentation": "<p>The Usage operation value that corresponds to the license type you
are converting your resource from. For more information about which platforms correspond to which usage
operation values see <a href=\"https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/billing-info-
fields.html#billing-info\">Sample
data: usage operation by platform\n \n </p>"
 }
 }
 }
}

```

```

 },
 "traits": {
 "smithy.api#documentation": "<p>Information about a license type conversion task.</p>"
 }
 },
 "com.amazonaws.licensemanager#LicenseConversionTask": {
 "type": "structure",
 "members": {
 "LicenseConversionTaskId": {
 "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
 "traits": {
 "smithy.api#documentation": "<p>The ID of the license type conversion task.</p>"
 }
 },
 "ResourceArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the resource associated
with the license type\n
conversion task.</p>"
 }
 },
 "SourceLicenseContext": {
 "target": "com.amazonaws.licensemanager#LicenseConversionContext",
 "traits": {
 "smithy.api#documentation": "<p>Information about the license type this conversion task converted
from.</p>"
 }
 },
 "DestinationLicenseContext": {
 "target": "com.amazonaws.licensemanager#LicenseConversionContext",
 "traits": {
 "smithy.api#documentation": "<p>Information about the license type this conversion task converted
to.</p>"
 }
 },
 "Status": {
 "target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
 "traits": {
 "smithy.api#documentation": "<p>The status of the conversion task.</p>"
 }
 }
 }
 },
 "StatusMessage": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>The status message for the conversion task.</p>"
 }
 }
}

```



```

 },
 "StartTime": {
 "target": "com.amazonaws.licensemanager#DateTime",
 "traits": {
 "smithy.api#documentation": "<p>The time the conversion task was started at.</p>"
 }
 },
 "LicenseConversionTime": {
 "target": "com.amazonaws.licensemanager#DateTime",
 "traits": {
 "smithy.api#documentation": "<p>The time the usage operation value of the resource was
changed.</p>"
 }
 },
 "EndTime": {
 "target": "com.amazonaws.licensemanager#DateTime",
 "traits": {
 "smithy.api#documentation": "<p>The time the conversion task was completed.</p>"
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>Information about a license type conversion task.</p>"
 }
 },
 "com.amazonaws.licensemanager#LicenseConversionTaskId": {
 "type": "string",
 "traits": {
 "smithy.api#length": {
 "min": 0,
 "max": 50
 },
 "smithy.api#pattern": "^\\ct-[a-zA-Z0-9]*$"
 }
 },
 "com.amazonaws.licensemanager#LicenseConversionTaskStatus": {
 "type": "enum",
 "members": {
 "IN_PROGRESS": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "IN_PROGRESS"
 }
 }
 }
 },
 "SUCCEEDED": {
 "target": "smithy.api#Unit",
 "traits": {

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 "smithy.api#enumValue": "SUCCEEDED"
 }
},
"FAILED": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "FAILED"
 }
}
},
"com.amazonaws.licensemanager#LicenseConversionTasks": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#LicenseConversionTask"
 }
},
"com.amazonaws.licensemanager#LicenseCountingType": {
 "type": "enum",
 "members": {
 "VCPU": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "vCPU"
 }
 }
 }
},

"INSTANCE": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Instance"
 }
},
"CORE": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Core"
 }
},
"SOCKET": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Socket"
 }
}
},
"com.amazonaws.licensemanager#LicenseDeletionStatus": {

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 "type": "enum",
 "members": {
 "PENDING_DELETE": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "PENDING_DELETE"
 }
 },
 "DELETED": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "DELETED"
 }
 }
 }
 },
 "com.amazonaws.licensemanager#LicenseList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#License"
 }
 },
 "com.amazonaws.licensemanager#LicenseOperationFailure": {
 "type": "structure",
 "members": {
 "ResourceArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
 }
 },
 "ResourceType": {
 "target": "com.amazonaws.licensemanager#ResourceType",
 "traits": {
 "smithy.api#documentation":
 "<p>Resource type.</p>"
 }
 },
 "ErrorMessage": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Error message.</p>"
 }
 },
 "FailureTime": {
 "target": "com.amazonaws.licensemanager#DateTime",
 "traits": {

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```

 "smithy.api#documentation": "<p>Failure time.</p>"
 }
},
"OperationName": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Name of the operation.</p>"
 }
},
"ResourceOwnerId": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation":
"<p>ID of the Amazon Web Services account that owns the resource.</p>"
 }
},
"OperationRequestedBy": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>The requester is \"License Manager Automated Discovery\".</p>"
 }
},
"MetadataList": {
 "target": "com.amazonaws.licensemanager#MetadataList",
 "traits": {
 "smithy.api#documentation": "<p>Reserved.</p>"
 }
},
"traits": {
 "smithy.api#documentation": "<p>Describes the failure of a license operation.</p>"
}
},
"com.amazonaws.licensemanager#LicenseOperationFailureList": {
 "type": "list",
 "member": {
 "target":
"com.amazonaws.licensemanager#LicenseOperationFailure"
 }
},
"com.amazonaws.licensemanager#LicenseSpecification": {
 "type": "structure",
 "members": {
 "LicenseConfigurationArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",

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```

 "smithy.api#required": {}
 },
 "AmiAssociationScope": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Scope of AMI associations. The possible value is <code>cross-
account</code>.</p>"
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>Details for associating a license configuration
with a resource.</p>"
 },
 "com.amazonaws.licensemanager#LicenseSpecifications": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#LicenseSpecification"
 }
 },
 "com.amazonaws.licensemanager#LicenseStatus": {
 "type": "enum",
 "members": {
 "AVAILABLE": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "AVAILABLE"
 }
 },
 "PENDING_AVAILABLE": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "PENDING_AVAILABLE"
 }
 },
 "DEACTIVATED": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "DEACTIVATED"
 }
 },
 "SUSPENDED": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "SUSPENDED"
 }
 }
 }
 }
}

```

```

 },
 "EXPIRED": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "EXPIRED"
 }
 },
 "PENDING_DELETE": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "PENDING_DELETE"
 }
 },
 "DELETED": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "DELETED"
 }
 }
 },
 "com.amazonaws.licensemanager#LicenseUsage": {
 "type":
"structure",
 "members": {
 "EntitlementUsages": {
 "target": "com.amazonaws.licensemanager#EntitlementUsageList",
 "traits": {
 "smithy.api#documentation": "<p>License entitlement usages.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>Describes the entitlement usage associated with a license.</p>"
 }
 },
 "com.amazonaws.licensemanager#LicenseUsageException": {
 "type": "structure",
 "members": {
 "Message": {
 "target": "com.amazonaws.licensemanager#Message"
 }
 },
 "traits": {
 "aws.protocols#awsQueryError": {
 "code": "LicenseUsageFailure",
 "httpResponseCode": 412
 }
 },
 },

```

```

 "smithy.api#documentation": "<p>You do not have
enough licenses available to support a new resource launch.</p>",
 "smithy.api#error": "client",
 "smithy.api#httpError": 412
 }
},
"com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Lists the resource associations for the specified license
configuration.</p>\n <p>Resource associations need not consume licenses from a license configuration. \n
For example, an AMI or a stopped instance might not consume a license (depending on \n the license
rules).</p>"
 }
},
"com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest": {
 "type": "structure",
 "members": {
 "LicenseConfigurationArn": {
 "target": "com.amazonaws.licensemanager#String",

```

```

 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of a license configuration.</p>",
 "smithy.api#required": {}
 }
 },
 "MaxResults": {
 "target": "com.amazonaws.licensemanager#BoxInteger",
 "traits": {
 "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 }
},
"traits": {
 "smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse":
{
 "type": "structure",
 "members": {
 "LicenseConfigurationAssociations": {
 "target": "com.amazonaws.licensemanager#LicenseConfigurationAssociations",
 "traits": {
 "smithy.api#documentation": "<p>Information about the associations for the license
configuration.</p>"
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#ListDistributedGrants": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#ListDistributedGrantsRequest"
 }
}

```



```

 },
 "output": {
 "target": "com.amazonaws.licensemanager#ListDistributedGrantsResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Lists the grants distributed for the specified license.</p>"
 }
 },
 "com.amazonaws.licensemanager#ListDistributedGrantsRequest": {
 "type": "structure",
 "members": {
 "GrantArns": {
 "target": "com.amazonaws.licensemanager#ArnList",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the grants.</p>"
 }
 },
 "Filters": {
 "target": "com.amazonaws.licensemanager#FilterList",
 "traits": {
 "smithy.api#documentation": "<p>Filters to scope the results. The following filters are supported:</p>\n
 \n
 \n
 <p>\n
 <code>LicenseArn</code>\n
 </p>\n
 \n
 \n
 <p>\n
 <code>GrantStatus</code>\n
 </p>\n
 \n
 \n
 <p>\n
 <code>GranteePrincipalARN</code>\n
 </p>\n
 \n
 "
 }
 }
 }
 }
}

```

```

 <code>ProductSKU</code>\n
 <code>LicenseIssuerName</code>\n
 }
},
"NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
},
"MaxResults": {
 "target": "com.amazonaws.licensemanager#MaxSize100",
 "traits": {
 "smithy.api#documentation":
"<p>Maximum number of results to return in a single call.</p>"
 }
},
"traits": {
 "smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListDistributedGrantsResponse": {
 "type": "structure",
 "members": {
 "Grants": {
 "target": "com.amazonaws.licensemanager#GrantList",
 "traits": {
 "smithy.api#documentation": "<p>Distributed grant details.</p>"
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest"
 },

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```

"output": {
 "target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse"
},
"errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 }
],
"traits": {
 "smithy.api#documentation": "<p>Lists the license configuration operations that failed.</p>"
}
},
"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest": {
 "type": "structure",
 "members": {
 "LicenseConfigurationArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name of the license configuration.</p>",
 "smithy.api#required": {}
 }
 },
 "MaxResults": {
 "target": "com.amazonaws.licensemanager#BoxInteger",
 "traits": {
 "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
 }
 }
 }
},
"NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
}
},

```

```

 "traits": {
 "smithy.api#input": {}
 }
 },
 "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse": {
 "type": "structure",
 "members": {
 "LicenseOperationFailureList": {
 "target": "com.amazonaws.licensemanager#LicenseOperationFailureList",
 "traits": {
 "smithy.api#documentation": "<p>License configuration operations that failed.</p>"
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
 },
 "com.amazonaws.licensemanager#ListLicenseConfigurations": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#ListLicenseConfigurationsResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 }
]
 }
}

```

```

 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 }
],
"traits": {
 "smithy.api#documentation": "<p>Lists the license configurations for your account.</p>"
}
},
"com.amazonaws.licensemanager#ListLicenseConfigurationsRequest": {
 "type": "structure",
 "members": {
 "LicenseConfigurationArns": {
 "target": "com.amazonaws.licensemanager#StringList",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Names (ARN) of the license configurations.</p>"
 }
 },
 "MaxResults": {
 "target": "com.amazonaws.licensemanager#BoxInteger",
 "traits": {
 "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 },
 "Filters": {
 "target": "com.amazonaws.licensemanager#Filters",
 "traits": {
 "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical operators are supported:</p>

<code>licenseCountingType</code> - The dimension for which licenses are counted. Possible values are <code>vCPU</code> | <code>Instance</code> | <code>Core</code> | <code>Socket</code>.
Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.
<code>enforceLicenseCount</code> - A Boolean value that indicates whether hard license enforcement is used. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.
<code>usagelimitExceeded</code> - A Boolean value that indicates whether the available licenses have been exceeded. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.
"
 }
 }
 }
}

```

```

 }
 },
 "traits": {
 "smithy.api#input": {}
 }
},
"com.amazonaws.licensemanager#ListLicenseConfigurationsResponse": {
 "type": "structure",
 "members": {
 "LicenseConfigurations": {
 "target": "com.amazonaws.licensemanager#LicenseConfigurations",
 "traits": {
 "smithy.api#documentation": "<p>Information about the license configurations.</p>"
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#ListLicenseConversionTasks": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#ListLicenseConversionTasksRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#ListLicenseConversionTasksResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 }
]
}

```

```

 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Lists the license type conversion tasks for your account.</p>"
 }
},
"com.amazonaws.licensemanager#ListLicenseConversionTasksRequest": {

"type": "structure",
 "members": {
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 },
 "MaxResults": {
 "target": "com.amazonaws.licensemanager#BoxInteger",
 "traits": {
 "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
 }
 },
 "Filters": {
 "target": "com.amazonaws.licensemanager#Filters",
 "traits": {
 "smithy.api#documentation": "<p>\n Filters to scope the results. Valid filters are
<code>ResourceArns</code> and <code>Status</code>.\n </p>"
 }
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
},
"com.amazonaws.licensemanager#ListLicenseConversionTasksResponse": {
 "type": "structure",
 "members": {
 "LicenseConversionTasks": {
 "target": "com.amazonaws.licensemanager#LicenseConversionTasks",
 "traits": {
 "smithy.api#documentation": "<p>Information about the license configuration tasks for your
account.</p>"
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",

```

```

 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#ListLicenseManagerReportGenerators": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Lists the report generators for your account.</p>"
 }
},
"com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest": {

```



```

 "type": "structure",
 "members": {
 "Filters": {
 "target": "com.amazonaws.licensemanager#FilterList",
 "traits": {
 "smithy.api#documentation": "<p>Filters to scope the results. The following filters are supported:
</p>\n \n \n <p>\n <code>LicenseConfigurationArn</code>\n </p>\n \n "
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 },
 "MaxResults": {
 "target": "com.amazonaws.licensemanager#MaxSize100",
 "traits": {
 "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
 },
 "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse": {
 "type": "structure",
 "members": {
 "ReportGenerators": {
 "target": "com.amazonaws.licensemanager#ReportGeneratorList",
 "traits": {
 "smithy.api#documentation": "<p>A report generator that creates periodic reports about your license
configurations.</p>"
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
 }
}

```

```

 },
 "com.amazonaws.licensemanager#ListLicenseSpecificationsForResource": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse"
 },
 "errors":
 [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Describes the license configurations for the specified resource.</p>"
 }
 },
 "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest": {
 "type": "structure",
 "members": {
 "ResourceArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of a resource that has an associated license configuration.</p>",
 "smithy.api#required": {}
 }
 },
 "MaxResults": {
 "target": "com.amazonaws.licensemanager#BoxInteger",
 "traits": {
 "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
 }
 }
 }
 }
}

```

```

 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
},
"com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse":
{
 "type": "structure",
 "members": {
 "LicenseSpecifications": {
 "target": "com.amazonaws.licensemanager#LicenseSpecifications",
 "traits": {
 "smithy.api#documentation": "<p>License configurations associated with a resource.</p>"
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#ListLicenseVersions": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#ListLicenseVersionsRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#ListLicenseVersionsResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 }
],

```

```

 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Lists all versions of the specified license.</p>"
 }
},
"com.amazonaws.licensemanager#ListLicenseVersionsRequest":
{
 "type": "structure",
 "members": {
 "LicenseArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
 "smithy.api#required": {}
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 },
 "MaxResults": {
 "target": "com.amazonaws.licensemanager#MaxSize100",
 "traits": {
 "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
 }
 }
 },
 "traits":
{
 "smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListLicenseVersionsResponse": {
 "type": "structure",
 "members": {
 "Licenses": {
 "target": "com.amazonaws.licensemanager#LicenseList",

```

```

 "traits": {
 "smithy.api#documentation": "<p>License details.</p>"
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 }
},
"traits": {
 "smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListLicenses": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#ListLicensesRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#ListLicensesResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Lists
the licenses for your account.</p>"
 }
},

```

```

"com.amazonaws.licensemanager#ListLicensesRequest": {
 "type": "structure",
 "members": {
 "LicenseArns": {
 "target": "com.amazonaws.licensemanager#ArnList",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the licenses.</p>"
 }
 },
 "Filters": {
 "target": "com.amazonaws.licensemanager#FilterList",
 "traits": {
 "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n \n \n <p>\n <code>Beneficiary</code>\n </p>\n \n \n <p>\n <code>ProductSKU</code>\n </p>\n \n \n <p>\n <code>Fingerprint</code>\n </p>\n \n \n <p>\n <code>Status</code>\n </p>\n \n "
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 },
 "MaxResults": {
 "target": "com.amazonaws.licensemanager#MaxSize100",
 "traits": {
 "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
},
"com.amazonaws.licensemanager#ListLicensesResponse":
{
 "type": "structure",
 "members": {
 "Licenses": {
 "target": "com.amazonaws.licensemanager#LicenseList",
 "traits": {
 "smithy.api#documentation": "<p>License details.</p>"
 }
 },
 "NextToken": {

```

```

 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#ListReceivedGrants": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#ListReceivedGrantsRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#ListReceivedGrantsResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation":
 "<p>Lists grants that are received. Received grants are grants created while specifying the\n
 recipient as this Amazon Web Services account, your organization, or an organizational unit\n
 (OU) to which this member account belongs.</p>"
 }
},

```

```

"com.amazonaws.licensemanager#ListReceivedGrantsForOrganization": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Lists the grants received for all accounts in the organization.</p>"
 }
},
"com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationRequest": {
 "type": "structure",
 "members": {
 "LicenseArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the received license.</p>",
 "smithy.api#required": {}
 }
 },
 "Filters": {
 "target": "com.amazonaws.licensemanager#FilterList",

```



```

 "traits": {
 "smithy.api#documentation": "<p>Filters to scope the results. The following filters are supported:</p>\n \n \n <p>\n <code>ParentArn</code>\n </p>\n \n \n <p>\n <code>GranteePrincipalArn</code>\n </p>\n \n "
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 },
 "MaxResults": {
 "target": "com.amazonaws.licensemanager#MaxSize100",
 "traits": {
 "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
 }
 },
 "traits": {
 "smithy.api#input": {}
 },
},
"com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationResponse": {
 "type": "structure",
 "members": {
 "Grants": {
 "target": "com.amazonaws.licensemanager#GrantList",
 "traits": {
 "smithy.api#documentation": "<p>Lists the grants the organization has received.</p>"
 }
 },
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 },
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 },
 "traits": {
 "smithy.api#output": {}
 },
},
"com.amazonaws.licensemanager#ListReceivedGrantsRequest": {
 "type": "structure",

```

```

"members": {
 "GrantArns": {
 "target": "com.amazonaws.licensemanager#ArnList",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the grants.</p>"
 }
 },
 "Filters": {
 "target": "com.amazonaws.licensemanager#FilterList",
 "traits": {
 "smithy.api#documentation": "<p>Filters to scope the results. The following filters are supported:</p>\n
 \n
 \n
 <p>\n
 <code>ProductSKU</code>\n
 </p>\n
 \n
 \n
 <p>\n
 <code>LicenseIssuerName</code>\n
 </p>\n
 \n
 \n
 <p>\n
 <code>LicenseArn</code>\n
 </p>\n
 \n
 \n
 <p>\n
 <code>GrantStatus</code>\n
 </p>\n
 \n
 \n
 <p>\n
 <code>GranterAccountId</code>\n
 </p>\n
 \n
 "
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 },
 "MaxResults": {
 "target": "com.amazonaws.licensemanager#MaxSize100",
 "traits": {
 "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
},
"com.amazonaws.licensemanager#ListReceivedGrantsResponse": {
 "type": "structure",
 "members": {
 "Grants": {
 "target": "com.amazonaws.licensemanager#GrantList",
 "traits": {
 "smithy.api#documentation": "<p>Received grant details.</p>"
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {

```

```

 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
}
},
"traits": {
 "smithy.api#output":
{}
}
},
"com.amazonaws.licensemanager#ListReceivedLicenses": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#ListReceivedLicensesRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#ListReceivedLicensesResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Lists received licenses.</p>"
 }
},
"com.amazonaws.licensemanager#ListReceivedLicensesForOrganization": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationRequest"
 }
}
}
}

```

```

 },
 "output": {
 "target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Lists the licenses received for all accounts in the organization.</p>"
 }
 },
 "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationRequest": {
 "type": "structure",
 "members": {
 "Filters": {
 "target": "com.amazonaws.licensemanager#FilterList",
 "traits": {
 "smithy.api#documentation": "<p>Filters to scope the results. The following filters are supported:</p>\n \n \n <p>\n <code>Beneficiary</code>\n </p>\n \n \n <p>\n <code>ProductSKU</code>\n </p>\n \n "
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 }
 }
 }
}

```

```

 }
 },
 "MaxResults": {
 "target": "com.amazonaws.licensemanager#MaxSize100",
 "traits": {

 "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
 }
 }
},
"traits": {
 "smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationResponse": {
 "type": "structure",
 "members": {
 "Licenses": {
 "target": "com.amazonaws.licensemanager#GrantedLicenseList",
 "traits": {
 "smithy.api#documentation": "<p>Lists the licenses the organization has received.</p>"
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 }
 },
 "traits": {

 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#ListReceivedLicensesRequest": {
 "type": "structure",
 "members": {
 "LicenseArns": {
 "target": "com.amazonaws.licensemanager#ArnList",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the licenses.</p>"
 }
 },
 "Filters": {
 "target": "com.amazonaws.licensemanager#FilterList",
 "traits": {
 "smithy.api#documentation": "<p>Filters to scope the results. The following filters are

```

```

supported:</p>\n \n \n <p>\n <code>ProductSKU</code>\n </p>\n \n \n <p>\n <code>Status</code>\n </p>\n \n \n \n \n <p>\n <code>Fingerprint</code>\n </p>\n \n \n <p>\n <code>IssuerName</code>\n </p>\n \n \n <p>\n <code>Beneficiary</code>\n </p>\n \n \n }\n},\n "NextToken": {\n "target": "com.amazonaws.licensemanager#String",\n "traits": {\n "smithy.api#documentation": "<p>Token for the next set of results.</p>"\n }\n },\n "MaxResults": {\n "target": "com.amazonaws.licensemanager#MaxSize100",\n "traits": {\n "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"\n }\n }\n},\n "traits":\n{\n "smithy.api#input": {}\n},\n},\n"com.amazonaws.licensemanager#ListReceivedLicensesResponse": {\n "type": "structure",\n "members": {\n "Licenses": {\n "target": "com.amazonaws.licensemanager#GrantedLicenseList",\n "traits": {\n "smithy.api#documentation": "<p>Received license details.</p>"\n }\n },\n "NextToken": {\n "target": "com.amazonaws.licensemanager#String",\n "traits": {\n "smithy.api#documentation": "<p>Token for the next set of results.</p>"\n }\n }\n }\n},\n "traits": {\n "smithy.api#output": {}\n }\n},\n"com.amazonaws.licensemanager#ListResourceInventory": {\n "type": "operation",

```

```

"input": {
 "target": "com.amazonaws.licensemanager#ListResourceInventoryRequest"
},
"output": {
 "target": "com.amazonaws.licensemanager#ListResourceInventoryResponse"
},
"errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#FailedDependencyException"
 },
 {
 "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target":
"com.amazonaws.licensemanager#ServerInternalException"
 }
],
"traits": {
 "smithy.api#documentation": "<p>Lists resources managed using Systems Manager inventory.</p>"
}
},
"com.amazonaws.licensemanager#ListResourceInventoryRequest": {
 "type": "structure",
 "members": {
 "MaxResults": {
 "target": "com.amazonaws.licensemanager#BoxInteger",
 "traits": {
 "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 }
 }
}

```

```

 },
 "Filters": {
 "target":
"com.amazonaws.licensemanager#InventoryFilterList",
 "traits": {
 "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical
operators\n are supported:</p>\n \n \n <p>\n <code>account_id</code>
- The ID of the Amazon Web Services account that owns the resource.\n Logical operators are
<code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n \n \n <p>\n
<code>application_name</code> - The name of the application. \n Logical operators are
<code>EQUALS</code> | <code>BEGINS_WITH</code>.</p>\n \n \n <p>\n
<code>license_included</code> - The type of license included. \n Logical operators are
<code>EQUALS</code> | <code>NOT_EQUALS</code>.\n Possible values are <code>sql-server-
enterprise</code>
| \n <code>sql-server-standard</code> | \n <code>sql-server-web</code> | \n
<code>windows-server-datacenter</code>.</p>\n \n \n <p>\n
<code>platform</code> - The platform of the resource.\n Logical operators are <code>EQUALS</code> |
<code>BEGINS_WITH</code>.</p>\n \n \n <p>\n
<code>resource_id</code> - The ID of the resource. \n Logical operators are <code>EQUALS</code> |
<code>NOT_EQUALS</code>.</p>\n \n \n <p>\n
<code>tag:<key></code> - The key/value combination of a tag assigned \n to the resource. Logical
operators are <code>EQUALS</code> (single account) or\n <code>EQUALS</code> |
<code>NOT_EQUALS</code> (cross account).</p>\n \n "
 }
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
},
"com.amazonaws.licensemanager#ListResourceInventoryResponse": {
 "type": "structure",
 "members": {
 "ResourceInventoryList": {
 "target": "com.amazonaws.licensemanager#ResourceInventoryList",
 "traits": {
 "smithy.api#documentation": "<p>Information about the resources.</p>"
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 }
 }
},
"traits": {

```



```

 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#ListTagsForResource": {
 "type":
"operation",
 "input": {
 "target": "com.amazonaws.licensemanager#ListTagsForResourceRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#ListTagsForResourceResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Lists the
tags for the specified license configuration.</p>"
 }
},
"com.amazonaws.licensemanager#ListTagsForResourceRequest": {
 "type": "structure",
 "members": {
 "ResourceArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
 "smithy.api#required": {}
 }
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
}

```

```

 }
 },
 "com.amazonaws.licensemanager#ListTagsForResourceResponse": {
 "type": "structure",
 "members": {
 "Tags": {
 "target": "com.amazonaws.licensemanager#TagList",
 "traits": {
 "smithy.api#documentation": "<p>Information about the tags.</p>"
 }
 }
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#ListTokens": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#ListTokensRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#ListTokensResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 }
],
 "target": "com.amazonaws.licensemanager#ValidationException"
},
"traits": {
 "smithy.api#documentation": "<p>Lists your tokens.</p>"
}
},
"com.amazonaws.licensemanager#ListTokensRequest": {

```

```

"type": "structure",
"members": {
 "TokenIds": {
 "target": "com.amazonaws.licensemanager#StringList",
 "traits": {
 "smithy.api#documentation": "<p>Token IDs.</p>"
 }
 },
 "Filters": {
 "target": "com.amazonaws.licensemanager#FilterList",
 "traits": {
 "smithy.api#documentation": "<p>Filters to scope the results. The following filter is supported:</p>\n
\n
 \n
 <p>\n
 <code>LicenseArns</code>\n
 </p>\n
 \n
"
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 },
 "MaxResults": {
 "target": "com.amazonaws.licensemanager#MaxSize100",
 "traits": {
 "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
 }
 }
},
"traits": {
 "smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListTokensResponse": {
 "type": "structure",
 "members": {
 "Tokens": {
 "target": "com.amazonaws.licensemanager#TokenList",
 "traits": {
 "smithy.api#documentation":
"<p>Received token details.</p>"
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 }
 }
}

```

```

 }
 },
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#ListUsageForLicenseConfiguration": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Lists all license usage records for a license configuration, displaying license\n consumption details by resource at a selected point in time. Use this action to audit the\n current license consumption for any license inventory and configuration.</p>"
 }
},
"com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest": {
 "type": "structure",
 "members": {
 "LicenseConfigurationArn": {
 "target": "com.amazonaws.licensemanager#String",

```

```

 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
 "smithy.api#required": {}
 }
 },
 "MaxResults": {
 "target": "com.amazonaws.licensemanager#BoxInteger",
 "traits": {
 "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 },
 "Filters": {
 "target": "com.amazonaws.licensemanager#Filters",
 "traits": {
 "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical
operators\n are supported:</p>\n \n \n <p>\n<code>resourceArn</code> - The ARN of the license configuration resource.\n Logical operators are
<code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n \n \n <p>\n<code>resourceType</code> - The resource type (<code>EC2_INSTANCE</code> |
<code>EC2_HOST</code> | <code>EC2_AMI</code> |
<code>SYSTEMS_MANAGER_MANAGED_INSTANCE</code>).\n Logical operators are
<code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n \n \n <p>\n<code>resourceAccount</code>
- The ID of the account that owns the resource.\n Logical operators are <code>EQUALS</code> |
<code>NOT_EQUALS</code>.</p>\n \n "
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
},
"com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse": {
 "type": "structure",
 "members": {
 "LicenseConfigurationUsageList": {
 "target": "com.amazonaws.licensemanager#LicenseConfigurationUsageList",
 "traits": {
 "smithy.api#documentation": "<p>Information about the license configurations.</p>"
 }
 }
 }
}

```

```

 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#Location": {
 "type": "string"
},
"com.amazonaws.licensemanager#Long": {
 "type": "long"
},
"com.amazonaws.licensemanager#ManagedResourceSummary": {
 "type": "structure",
 "members": {
 "ResourceType": {
 "target": "com.amazonaws.licensemanager#ResourceType",
 "traits": {
 "smithy.api#documentation": "<p>Type of resource associated with a license.</p>"
 }
 },
 "AssociationCount": {
 "target": "com.amazonaws.licensemanager#BoxLong",
 "traits": {
 "smithy.api#documentation": "<p>Number of resources associated with licenses.</p>"
 }
 }
 }
},
"traits": {
 "smithy.api#documentation": "<p>Summary information about a managed resource.</p>"
}
},
"com.amazonaws.licensemanager#ManagedResourceSummaryList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#ManagedResourceSummary"
 }
},
"com.amazonaws.licensemanager#MaxSize100": {
 "type": "integer",
 "traits": {

```

```

 "smithy.api#range": {
 "min": 1,
 "max": 100
 }
 },
 "com.amazonaws.licensemanager#MaxSize3StringList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#String"
 },
 "traits": {
 "smithy.api#length": {
 "min": 0,
 "max": 3
 }
 }
 },
 "com.amazonaws.licensemanager#Message": {
 "type": "string"
 },
 "com.amazonaws.licensemanager#Metadata": {
 "type": "structure",
 "members": {
 "Name": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>The key name.</p>"
 }
 },
 "Value": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>The value.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>Describes key/value pairs.</p>"
 }
 },
 "com.amazonaws.licensemanager#MetadataList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#Metadata"
 }
 },

```

```

"com.amazonaws.licensemanager#NoEntitlementsAllowedException": {
 "type": "structure",
 "members": {
 "Message": {
 "target": "com.amazonaws.licensemanager#Message"
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>There are no entitlements found for this license, or the entitlement
maximum count is reached.</p>",
 "smithy.api#error": "client",
 "smithy.api#httpError": 400
 }
},
"com.amazonaws.licensemanager#Options": {
 "type": "structure",
 "members": {
 "ActivationOverrideBehavior": {
 "target": "com.amazonaws.licensemanager#ActivationOverrideBehavior",
 "traits": {
 "smithy.api#documentation": "<p>An activation option for your grant that determines the behavior of
activating
a grant.\n Activation options can only be used with granted licenses sourced from the Amazon Web Services
Marketplace. Additionally, the operation must specify the value of <code>ACTIVE</code> for the\n
<code>Status</code> parameter.</p>\n \n \n <p>As a license administrator, you can
optionally specify an\n <code>ActivationOverrideBehavior</code> when activating a grant.</p>\n
\n \n <p>As a grantor, you can optionally specify an\n
<code>ActivationOverrideBehavior</code> when you activate a grant for a grantee\n account in your
organization.</p>\n \n \n <p>As a grantee, if the grantor creating the distributed
grant doesnt specify an\n <code>ActivationOverrideBehavior</code>, you can optionally specify one
when you\n are activating the grant.</p>\n
\n \n <dl>\n <dt>DISTRIBUTED_GRANTS_ONLY</dt>\n <dd>\n
<p>Use this value to activate a grant without replacing any member accounts\n active grants for the same
product.</p>\n </dd>\n <dt>ALL_GRANTS_PERMITTED_BY_ISSUER</dt>\n <dd>\n
<p>Use this value to activate a grant and disable other active grants in any\n member accounts for the
same product. This action will also replace their\n previously activated grants with this activated
grant.</p>\n </dd>\n </dl>"
 }
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>The options you can specify when you create a new version of a grant,
such as activation\n override behavior. For more information, see Granted
licenses in License Manager in the <i>License Manager User Guide</i>.</p>"
 }
},
"com.amazonaws.licensemanager#OrganizationConfiguration": {

```



```

"type": "structure",
"members": {
 "EnableIntegration": {
 "target": "com.amazonaws.licensemanager#Boolean",
 "traits": {
 "smithy.api#default": false,
 "smithy.api#documentation": "<p>Enables Organizations integration.</p>",
 "smithy.api#required": {}
 }
 }
},
"traits": {
 "smithy.api#documentation": "<p>Configuration information for Organizations.</p>"
}
},
"com.amazonaws.licensemanager#PrincipalArnList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#Arn"
 },
 "traits":
{
 "smithy.api#length": {
 "min": 1,
 "max": 1
 }
}
},
"com.amazonaws.licensemanager#ProductInformation": {
 "type": "structure",
 "members": {
 "ResourceType": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Resource type. The possible values are
<code>SSM_MANAGED</code> | <code>RDS</code>.</p>",
 "smithy.api#required": {}
 }
 }
 },
 "ProductInformationFilterList": {
 "target": "com.amazonaws.licensemanager#ProductInformationFilterList",
 "traits": {
 "smithy.api#documentation": "<p>A Product information filter consists of a
<code>ProductInformationFilterComparator</code> which is a logical operator, a
<code>ProductInformationFilterName</code>
which specifies the type of filter being declared, and a <code>ProductInformationFilterValue</code> that specifies
the value to filter on. </p>\n <p>Accepted values for <code>ProductInformationFilterName</code> are listed
here along with descriptions and valid options for <code>ProductInformationFilterComparator</code>. </p>\n

```

The following filters and logical operators are supported when the resource type is `SSM_MANAGED`:

- `ApplicationName` - The name of the application. Logical operator is `EQUALS`.
- `ApplicationPublisher` - The publisher of the application. Logical operator is `EQUALS`.
- `ApplicationVersion` - The version of the application. Logical operator is `EQUALS`.
- `PlatformName` - The name of the platform. Logical operator is `EQUALS`.
- `PlatformType` - The platform type. Logical operator is `EQUALS`.
- `Tag:key` - The key of a tag attached to an Amazon Web Services resource you wish to exclude from automated discovery. Logical operator is `NOT_EQUALS`. The key for your tag must be appended to `Tag:` following the example: `Tag:name-of-your-key`. `ProductInformationFilterValue` is optional if you are not using values for the key.
- `AccountId` - The 12-digit ID of an Amazon Web Services account you wish to exclude from automated discovery. Logical operator is `NOT_EQUALS`.
- `LicenseIncluded` - The type of license included. Logical operators are `EQUALS` and `NOT_EQUALS`. Possible values are: `sql-server-enterprise` | `sql-server-standard` | `sql-server-web` | `windows-server-datacenter`.

The following filters and logical operators are supported when the resource type is `RDS`:

- `EngineEdition` - The edition of the database engine. Logical operator is `EQUALS`. Possible values are: `oracle-ee` | `oracle-se` | `oracle-se1` | `oracle-se2`.
- `LicensePack` - The license pack. Logical operator is `EQUALS`. Possible values are: `data guard` | `diagnostic pack sqlt` | `tuning pack sqlt` | `ols` | `olap`.

```

 "smithy.api#required": {}
 }
},
"traits": {
 "smithy.api#documentation": "<p>Describes product information for a license configuration.</p>"
}
},
"com.amazonaws.licensemanager#ProductInformationFilter": {
 "type": "structure",
 "members": {
 "ProductInformationFilterName": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Filter name.</p>",
 "smithy.api#required": {}
 }
 }
 },
}

```

```

"ProductInformationFilterValue": {
 "target": "com.amazonaws.licensemanager#StringList",
 "traits": {
 "smithy.api#documentation": "<p>Filter value.</p>"
 }
},
"ProductInformationFilterComparator": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Logical operator.</p>",
 "smithy.api#required": {}
 }
},
"traits": {
 "smithy.api#documentation":
"<p>Describes product information filters.</p>"
}
},
"com.amazonaws.licensemanager#ProductInformationFilterList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#ProductInformationFilter"
 }
},
"com.amazonaws.licensemanager#ProductInformationList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#ProductInformation"
 }
},
"com.amazonaws.licensemanager#ProvisionalConfiguration": {
 "type": "structure",
 "members": {
 "MaxTimeToLiveInMinutes": {
 "target": "com.amazonaws.licensemanager#BoxInteger",
 "traits": {
 "smithy.api#documentation": "<p>Maximum time for the provisional configuration, in minutes.</p>",
 "smithy.api#required": {}
 }
 }
 }
},
"traits": {
 "smithy.api#documentation": "<p>Details about a provisional configuration.</p>"
}
},
"com.amazonaws.licensemanager#RateLimitExceededException": {

```

```

"type": "structure",
"members": {
 "Message": {
 "target": "com.amazonaws.licensemanager#Message"
 }
},
"traits": {
 "aws.protocols#awsQueryError": {
 "code": "RateLimitExceeded",
 "httpResponseCode": 429
 },
 "smithy.api#documentation": "<p>Too many requests have been submitted. Try again after a brief
wait.</p>",
 "smithy.api#error": "client",
 "smithy.api#httpError": 429
}
},
"com.amazonaws.licensemanager#ReceivedMetadata": {
 "type": "structure",
 "members": {

"ReceivedStatus": {
 "target": "com.amazonaws.licensemanager#ReceivedStatus",
 "traits": {
 "smithy.api#documentation": "<p>Received status.</p>"
 }
},
 "ReceivedStatusReason": {
 "target": "com.amazonaws.licensemanager#StatusReasonMessage",
 "traits": {
 "smithy.api#documentation": "<p>Received status reason.</p>"
 }
 },
 "AllowedOperations": {
 "target": "com.amazonaws.licensemanager#AllowedOperationList",
 "traits": {
 "smithy.api#documentation": "<p>Allowed operations.</p>"
 }
 }
},
"traits": {
 "smithy.api#documentation": "<p>Metadata associated with received licenses and grants.</p>"
}
},
"com.amazonaws.licensemanager#ReceivedStatus":
{
 "type": "enum",
 "members": {

```

```
"PENDING_WORKFLOW": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "PENDING_WORKFLOW"
 }
},
"PENDING_ACCEPT": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "PENDING_ACCEPT"
 }
},
"REJECTED": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "REJECTED"
 }
},
"ACTIVE": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "ACTIVE"
 }
},
"FAILED_WORKFLOW": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "FAILED_WORKFLOW"
 }
},
"DELETED": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "DELETED"
 }
},
"DISABLED": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "DISABLED"
 }
},
"WORKFLOW_COMPLETED": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "WORKFLOW_COMPLETED"
 }
}
```

```

 }
 }
},
"com.amazonaws.licensemanager#RedirectException": {
 "type": "structure",
 "members": {
 "Location":
 {
 "target": "com.amazonaws.licensemanager#Location",
 "traits": {
 "smithy.api#httpHeader": "Location"
 }
 },
 "Message": {
 "target": "com.amazonaws.licensemanager#Message"
 }
},
"traits": {
 "smithy.api#documentation": "<p>This is not the correct Region for the resource. Try again.</p>",
 "smithy.api#error": "client",
 "smithy.api#httpError": 308
}
},
"com.amazonaws.licensemanager#RejectGrant": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#RejectGrantRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#RejectGrantResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
 },
 {

```

```

 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
"traits": {
 "smithy.api#documentation": "<p>Rejects the specified grant.</p>"
}
},
"com.amazonaws.licensemanager#RejectGrantRequest":
{
 "type": "structure",
 "members": {
 "GrantArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
 "smithy.api#required": {}
 }
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
},
"com.amazonaws.licensemanager#RejectGrantResponse": {
 "type": "structure",
 "members": {
 "GrantArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>Grant ARN.</p>"
 }
 },
 "Status": {
 "target": "com.amazonaws.licensemanager#GrantStatus",
 "traits": {
 "smithy.api#documentation": "<p>Grant status.</p>"
 }
 },
 "Version": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Grant version.</p>"
 }
 }
 }
}

```

```

 },
 "traits": {
 "smithy.api#output": {}
 }
 },
 "com.amazonaws.licensemanager#RenewType": {
 "type": "enum",
 "members": {
 "NONE": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "None"
 }
 },
 "WEEKLY": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Weekly"
 }
 },
 "MONTHLY": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Monthly"
 }
 }
 }
 },
 "com.amazonaws.licensemanager#ReportContext": {
 "type": "structure",
 "members": {
 "licenseConfigurationArns": {
 "target": "com.amazonaws.licensemanager#ArnList",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration that this generator reports on.</p>",
 "smithy.api#required": {}
 }
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>Details of the license configuration that this generator reports on.</p>"
 }
 },
 "com.amazonaws.licensemanager#ReportFrequency": {
 "type": "structure",
 "members":

```



```

{
 "value": {
 "target": "com.amazonaws.licensemanager#Integer",
 "traits": {
 "smithy.api#documentation": "<p>Number of times within the frequency period that a report is
generated. \n The only supported value is <code>1</code>.</p>"
 }
 },
 "period": {
 "target": "com.amazonaws.licensemanager#ReportFrequencyType",
 "traits": {
 "smithy.api#documentation": "<p>Time period between each report. The period can be daily, weekly,
or monthly.</p>"
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>Details about how frequently reports are generated.</p>"
 },
 "com.amazonaws.licensemanager#ReportFrequencyType": {
 "type": "enum",
 "members": {
 "DAY": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "DAY"
 }
 },
 "WEEK": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "WEEK"
 }
 },
 "MONTH": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "MONTH"
 }
 }
 }
 },
 "com.amazonaws.licensemanager#ReportGenerator": {
 "type": "structure",
 "members": {
 "ReportGeneratorName": {

```

```

 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Name of the report generator.</p>"
 }
 },
 "ReportType": {
 "target": "com.amazonaws.licensemanager#ReportTypeList",
 "traits": {
 "smithy.api#documentation": "<p>Type of reports that are generated.</p>"
 }
 },
 "ReportContext": {
 "target": "com.amazonaws.licensemanager#ReportContext",
 "traits": {
 "smithy.api#documentation": "<p>License configuration type for this generator.</p>"
 }
 },
 "ReportFrequency": {
 "target": "com.amazonaws.licensemanager#ReportFrequency",
 "traits": {
 "smithy.api#documentation": "<p>Details about how frequently reports are generated.</p>"
 }
 },
 "LicenseManagerReportGeneratorArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator.</p>"
 }
 },
 "LastRunStatus": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Status of the last report generation attempt.</p>"
 }
 },
 "LastRunFailureReason": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Failure message for the last report generation attempt.</p>"
 }
 },
 "LastReportGenerationTime": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Time the last report was generated at.</p>"
 }
 }
}

```

```

 }
 },
 "ReportCreatorAccount": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>The Amazon Web Services account ID used to create the report
generator.</p>"
 }
 },
 "Description": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Description of the report generator.</p>"
 }
 },
 "S3Location": {
 "target": "com.amazonaws.licensemanager#S3Location",
 "traits": {
 "smithy.api#documentation": "<p>Details of the S3 bucket that report generator reports are published
to.</p>"
 }
 },
 "CreateTime": {
 "target":
"com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Time the report was created.</p>"
 }
 },
 "Tags": {
 "target": "com.amazonaws.licensemanager#TagList",
 "traits": {
 "smithy.api#documentation": "<p>Tags associated with the report generator.</p>"
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>Describe the details of a report generator.</p>"
 },
 "com.amazonaws.licensemanager#ReportGeneratorList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#ReportGenerator"
 }
 },
 "com.amazonaws.licensemanager#ReportGeneratorName": {
 "type": "string",

```

```

 "traits": {
 "smithy.api#length":
 {
 "min": 1,
 "max": 100
 }
 },
 "com.amazonaws.licensemanager#ReportType": {
 "type": "enum",
 "members": {
 "LICENSE_CONFIGURATION_SUMMARY_REPORT": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "LicenseConfigurationSummaryReport"
 }
 },
 "LICENSE_CONFIGURATION_USAGE_REPORT": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "LicenseConfigurationUsageReport"
 }
 }
 }
 },
 "com.amazonaws.licensemanager#ReportTypeList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#ReportType"
 }
 },
 "com.amazonaws.licensemanager#ResourceInventory":
 {
 "type": "structure",
 "members": {
 "ResourceId": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>ID of the resource.</p>"
 }
 },
 "ResourceType": {
 "target": "com.amazonaws.licensemanager#ResourceType",
 "traits": {
 "smithy.api#documentation": "<p>Type of resource.</p>"
 }
 },
 "ResourceArn": {

```

```

 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
 }
 },
 "Platform": {
 "target": "com.amazonaws.licensemanager#String",

"traits": {
 "smithy.api#documentation": "<p>Platform of the resource.</p>"
 }
 },
 "PlatformVersion": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Platform version of the resource in the inventory.</p>"
 }
 },
 "ResourceOwningAccountId": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>ID of the account that owns the resource.</p>"
 }
 }
},
"traits": {
 "smithy.api#documentation": "<p>Details about a resource.</p>"
}
},
"com.amazonaws.licensemanager#ResourceInventoryList": {
 "type": "list",
 "member": {
 "target":
"com.amazonaws.licensemanager#ResourceInventory"
 }
},
"com.amazonaws.licensemanager#ResourceLimitExceededException": {
 "type": "structure",
 "members": {
 "Message": {
 "target": "com.amazonaws.licensemanager#Message"
 }
 }
},
"traits": {
 "aws.protocols#awsQueryError": {
 "code": "ResourceLimitExceeded",
 "httpResponseCode": 400
 }
},

```

```

 "smithy.api#documentation": "<p>Your resource limits have been exceeded.</p>",
 "smithy.api#error": "client",
 "smithy.api#httpError": 400
 }
},
"com.amazonaws.licensemanager#ResourceNotFoundException": {
 "type": "structure",
 "members": {
 "Message": {
 "target": "com.amazonaws.licensemanager#Message"
 }
 },
 "traits": {
 "aws.protocols#awsQueryError": {
 "code": "InvalidResource.NotFound",
 "httpResponseCode": 400
 },
 "smithy.api#documentation": "<p>The resource cannot be found.</p>",
 "smithy.api#error": "client",
 "smithy.api#httpError": 400
 }
},
"com.amazonaws.licensemanager#ResourceType": {
 "type": "enum",
 "members": {
 "EC2_INSTANCE": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "EC2_INSTANCE"
 }
 },
 "EC2_HOST": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "EC2_HOST"
 }
 },
 "EC2_AMI": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "EC2_AMI"
 }
 },
 "RDS": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "RDS"
 }
 }
 }
}

```

```

 },
 "SYSTEMS_MANAGER_MANAGED_INSTANCE": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "SYSTEMS_MANAGER_MANAGED_INSTANCE"
 }
 }
 },
 "com.amazonaws.licensemanager#S3Location": {
 "type": "structure",
 "members": {
 "bucket": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Name of the S3 bucket reports are published to.</p>"
 }
 }
 },
 "keyPrefix": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Prefix of the S3 bucket reports are published to.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>Details of the S3 bucket that report generator reports are published to.</p>"
 }
},
"com.amazonaws.licensemanager#ServerInternalException": {
 "type": "structure",
 "members": {
 "Message": {
 "target": "com.amazonaws.licensemanager#Message"
 }
 },
 "traits": {
 "aws.protocols#awsQueryError": {
 "code": "InternalServerError",
 "httpResponseCode": 500
 },
 "smithy.api#documentation": "<p>The server experienced an internal error. Try again.</p>",
 "smithy.api#error": "server",
 "smithy.api#httpError": 500
 }
}

```

```

 },
 "com.amazonaws.licensemanager#SignedToken": {
 "type": "string",
 "traits": {
 "smithy.api#length": {
 "min": 4096
 }
 }
 },
 "com.amazonaws.licensemanager#StatusReasonMessage": {
 "type": "string",
 "traits": {
 "smithy.api#length": {
 "min": 0,
 "max": 400
 },
 "smithy.api#pattern": "^\\s\\S]+$"
 }
 },
 "com.amazonaws.licensemanager#String": {
 "type": "string"
 },
 "com.amazonaws.licensemanager#StringList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#String"
 }
 },
 "com.amazonaws.licensemanager#Tag":
 {
 "type": "structure",
 "members": {
 "Key": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Tag key.</p>"
 }
 },
 "Value": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Tag value.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>Details about a tag for a license configuration.</p>"
 }
 }

```



```

 },
 "com.amazonaws.licensemanager#TagKeyList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#String"
 }
 },
 "com.amazonaws.licensemanager#TagList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#Tag"
 }
 },
 "com.amazonaws.licensemanager#TagResource": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#TagResourceRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#TagResourceResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Adds the specified tags to the specified license configuration.</p>"
 }
 },
 "com.amazonaws.licensemanager#TagResourceRequest": {
 "type": "structure",
 "members": {
 "ResourceArn": {
 "target": "com.amazonaws.licensemanager#String",

```

```

 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
 "smithy.api#required": {}
 }
 },
 "Tags": {
 "target": "com.amazonaws.licensemanager#TagList",
 "traits": {
 "smithy.api#documentation": "<p>One or more tags.</p>",
 "smithy.api#required": {}
 }
 }
},
"traits": {
 "smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#TagResourceResponse": {
 "type": "structure",
 "members": {},
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#TokenData": {
 "type": "structure",
 "members": {
 "TokenId": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token ID.</p>"
 }
 },
 "TokenType": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Type of token generated. The supported value is
<code>REFRESH_TOKEN</code>.</p>"
 }
 },
 "LicenseArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
 }
 }
 },

```

```

 "ExpirationTime": {
 "target": "com.amazonaws.licensemanager#ISO8601DateTime",
 "traits": {
 "smithy.api#documentation": "<p>Token expiration time, in ISO8601-UTC format.</p>"
 }
 },
 "TokenProperties": {
 "target": "com.amazonaws.licensemanager#MaxSize3StringList",
 "traits": {
 "smithy.api#documentation": "<p>Data specified by the caller.</p>"
 }
 },
 "RoleArns": {
 "target": "com.amazonaws.licensemanager#ArnList",
 "traits": {
 "smithy.api#documentation":
"<p>Amazon Resource Names (ARN) of the roles included in the token.</p>"
 }
 },
 "Status": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token status. The possible values are
<code>AVAILABLE</code> and <code>DELETED</code>.</p>"
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>Describes a token.</p>"
 }
 },
 "com.amazonaws.licensemanager#TokenList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#TokenData"
 }
 },
 "com.amazonaws.licensemanager#TokenString": {
 "type": "string",
 "traits": {
 "smithy.api#length": {
 "min": 0,
 "max": 4096
 }
 },
 "smithy.api#pattern": "^\\S+$"
 },
},

```

```

"com.amazonaws.licensemanager#TokenType": {
 "type": "enum",
 "members": {
 "REFRESH_TOKEN": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "REFRESH_TOKEN"
 }
 }
 }
},
"com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException": {
 "type": "structure",
 "members": {
 "Message": {
 "target": "com.amazonaws.licensemanager#Message"
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>The digital signature method is unsupported. Try your request again.</p>",
 "smithy.api#error": "client",
 "smithy.api#httpError": 400
 }
},
"com.amazonaws.licensemanager#UntagResource":
{
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#UntagResourceRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#UntagResourceResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {

```

```

 "target": "com.amazonaws.licensemanager#ServerInternalException"
 }
],
"traits": {
 "smithy.api#documentation": "<p>Removes
the specified tags from the specified license configuration.</p>"
}
},
"com.amazonaws.licensemanager#UntagResourceRequest": {
 "type": "structure",
 "members": {
 "ResourceArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
 "smithy.api#required": {}
 }
 },
 "TagKeys": {
 "target": "com.amazonaws.licensemanager#TagKeyList",
 "traits": {
 "smithy.api#documentation": "<p>Keys identifying the tags to remove.</p>",
 "smithy.api#required": {}
 }
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
},
"com.amazonaws.licensemanager#UntagResourceResponse":
{
 "type": "structure",
 "members": {},
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#UpdateLicenseConfiguration": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse"
 },
 "errors": [

```

```

 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target":
"com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Modifies the attributes of an existing license configuration.</p>"
 }
},
"com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest": {
 "type": "structure",
 "members": {
 "LicenseConfigurationArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
 "smithy.api#required": {}
 }
 }
 },
 "LicenseConfigurationStatus": {
 "target": "com.amazonaws.licensemanager#LicenseConfigurationStatus",
 "traits": {
 "smithy.api#documentation": "<p>New status of the license configuration.</p>"
 }
 },
 "LicenseRules": {
 "target": "com.amazonaws.licensemanager#StringList",
 "traits": {
 "smithy.api#documentation": "<p>New license rule. The only rule that you can add after you create a
license\n configuration is licenseAffinityToHost.</p>"
 }
 }
}

```

```

 },
 "LicenseCount": {
 "target": "com.amazonaws.licensemanager#BoxLong",
 "traits": {
 "smithy.api#documentation": "<p>New number of licenses managed by the license
configuration.</p>"
 }
 },
 "LicenseCountHardLimit":
 {
 "target": "com.amazonaws.licensemanager#BoxBoolean",
 "traits": {
 "smithy.api#documentation": "<p>New hard limit of the number of available licenses.</p>"
 }
 },
 "Name": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>New name of the license configuration.</p>"
 }
 },
 "Description": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>New description of the license configuration.</p>"
 }
 },
 "ProductInformationList": {
 "target": "com.amazonaws.licensemanager#ProductInformationList",
 "traits": {
 "smithy.api#documentation": "<p>New product information.</p>"
 }
 },
 "DisassociateWhenNotFound": {
 "target": "com.amazonaws.licensemanager#BoxBoolean",
 "traits": {
 "smithy.api#documentation": "<p>When true, disassociates a resource when software is
uninstalled.</p>"
 }
 }
},
"traits": {
 "smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse": {
 "type": "structure",

```

```

"members": {},
"traits": {
 "smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Updates a report generator.</p>\n <p>After you make changes to a report generator, it starts generating new reports within 60 minutes of being updated.</p>"
 }
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest": {
 "type": "structure",
 "members": {
 "LicenseManagerReportGeneratorArn": {

```



```

 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator to
update.</p>",
 "smithy.api#required": {}
 }
 },
 "ReportGeneratorName": {
 "target": "com.amazonaws.licensemanager#ReportGeneratorName",
 "traits": {
 "smithy.api#documentation": "<p>Name of the report generator.</p>",
 "smithy.api#required": {}
 }
 },
 "Type": {
 "target": "com.amazonaws.licensemanager#ReportTypeList",
 "traits": {
 "smithy.api#documentation": "<p>Type of reports to generate. The following report types are
supported:</p>\n \n \n <p>License configuration report - Reports the number and
details of consumed licenses for a license configuration.</p>\n \n \n <p>Resource
report - Reports the tracked licenses and resource consumption for a license configuration.</p>\n \n ",
 "smithy.api#required": {}
 }
 },
 "ReportContext": {
 "target": "com.amazonaws.licensemanager#ReportContext",
 "traits": {
 "smithy.api#documentation": "<p>The report context.</p>",
 "smithy.api#required": {}
 }
 },
 "ReportFrequency": {
 "target": "com.amazonaws.licensemanager#ReportFrequency",
 "traits": {
 "smithy.api#documentation": "<p>Frequency by which reports are generated.</p>",
 "smithy.api#required": {}
 }
 },
 "ClientToken": {
 "target": "com.amazonaws.licensemanager#ClientRequestToken",
 "traits": {
 "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",
 "smithy.api#required": {}
 }
 },

```

```

 "Description": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Description of the report generator.</p>"
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
 },
 "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse": {
 "type": "structure",
 "members": {},
 "traits": {
 "smithy.api#output": {}
 }
 },
 "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidResourceStateException"
 },
 {
 "target": "com.amazonaws.licensemanager#LicenseUsageException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 }
]
 }
}

```

```

],
 "traits":
 {
 "smithy.api#documentation": "<p>Adds or removes the specified license configurations for the specified Amazon Web Services resource.</p>\n <p>You can update the license specifications of AMIs, instances, and hosts.\n You cannot update the license specifications for launch templates and CloudFormation templates, \n as they send license configurations to the operation that creates the resource.</p>"
 }
},
"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest": {
 "type": "structure",
 "members": {
 "ResourceArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the Amazon Web Services resource.</p>",
 "smithy.api#required": {}
 }
 },
 "AddLicenseSpecifications":
 {
 "target": "com.amazonaws.licensemanager#LicenseSpecifications",
 "traits": {
 "smithy.api#documentation": "<p>ARNs of the license configurations to add.</p>"
 }
 },
 "RemoveLicenseSpecifications": {
 "target": "com.amazonaws.licensemanager#LicenseSpecifications",
 "traits": {
 "smithy.api#documentation": "<p>ARNs of the license configurations to remove.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
},
"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse": {
 "type": "structure",
 "members": {},
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#UpdateServiceSettings": {

```

```

"type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#UpdateServiceSettingsRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#UpdateServiceSettingsResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Updates License Manager settings for the current Region.</p>"
 },
 "com.amazonaws.licensemanager#UpdateServiceSettingsRequest": {
 "type": "structure",
 "members": {
 "S3BucketArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the Amazon S3 bucket where the License Manager information is stored.</p>"
 }
 },
 "SnsTopicArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the Amazon SNS topic used for License Manager alerts.</p>"
 }
 },
 "OrganizationConfiguration": {
 "target": "com.amazonaws.licensemanager#OrganizationConfiguration",

```

```

 "traits": {
 "smithy.api#documentation": "<p>Enables integration with Organizations for cross-account
discovery.</p>"
 }
 },
 "EnableCrossAccountsDiscovery": {
 "target": "com.amazonaws.licensemanager#BoxBoolean",
 "traits": {
 "smithy.api#documentation": "<p>Activates cross-account discovery.</p>"
 }
 },
 "traits": {
 "smithy.api#input": {}
 },
},
"com.amazonaws.licensemanager#UpdateServiceSettingsResponse": {
 "type": "structure",
 "members": {},
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#UsageOperation": {
 "type": "string",
 "traits": {
 "smithy.api#length": {
 "min":
0,
 "max": 50
 }
 }
},
"com.amazonaws.licensemanager#ValidationException": {
 "type": "structure",
 "members": {
 "Message": {
 "target": "com.amazonaws.licensemanager#Message"
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>The provided input is not valid. Try your request again.</p>",
 "smithy.api#error": "client",
 "smithy.api#httpError": 400
 }
}
}
}

```

```

// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a
// workspace to Grafana Enterprise (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html)
// .
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
 if params == nil {
 params = &AssociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out
 := result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
 //
 // This member is required.
 WorkspaceId *string
}

```

```

noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

// A structure containing data about the workspace.
//
// This member is required.
Workspace *types.WorkspaceDescription

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{ }, middleware.After)
if
err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {

```

```

return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack, options); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
err != nil {
return err
}
if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region: region,
ServiceID: ServiceID,
SigningName: "grafana",
OperationName: "AssociateLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

```



```

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
 params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version of the
 license.
 //
 // This member is required.
 SourceVersion *string

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}

type DeleteLicenseOutput struct {

 // Date when the license is deleted.

```

```

DeletionDate *string

// License status.
Status types.LicenseDeletionStatus

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack,
options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
}

```

```

if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack);
err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "DeleteLicense",
 }
}

```

## 1.542 go-uber-org-zap 1.17.0

### 1.542.1 Available under license :

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# 1.543 curl 8.1.2-r0

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# 1.544 openssl 3.1.1-r1

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```

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```
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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```

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Ty Coon, President of Vice
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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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```
Yoyodyne, Inc., hereby disclaims all copyright interest in the
program `Gnomovision' (a program to direct compilers to make passes
at assemblers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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## 1.557 ssl-client 1.36.1-r0

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# 1.558 google-golang-org-grpc 1.27.0

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# 1.559 hashicorp-consul-api 1.8.1

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package api

import (
 "io/ioutil"
 "strings"
 "time"
)

type License struct {
 // The unique identifier of the license
 LicenseID string `json:"license_id"`

 // The customer ID associated with the license
 CustomerID string `json:"customer_id"`

 // If set, an identifier that should be used to lock the license to a
 // particular site, cluster, etc.
 InstallationID string `json:"installation_id"`

 // The time at which the license was issued
 IssueTime time.Time `json:"issue_time"`

 // The time at which the license starts being valid
 StartTime time.Time `json:"start_time"`

 // The time after which the license expires
 ExpirationTime time.Time `json:"expiration_time"`

 // The time at which the license ceases to function and can
 // no longer be used in any capacity
 TerminationTime time.Time `json:"termination_time"`

 // The product the license is valid for
 Product string `json:"product"`

 // License Specific Flags
 Flags map[string]interface{} `json:"flags"`
}
```

```

// Modules is a list
of the licensed enterprise modules
Modules []string `json:"modules"`

// List of features enabled by the license
Features []string `json:"features"`
}

type LicenseReply struct {
 Valid bool
 License *License
 Warnings []string
}

func (op *Operator) LicenseGet(q *QueryOptions) (*LicenseReply, error) {
 var reply LicenseReply
 if _, err := op.c.query("/v1/operator/license", &reply, q); err != nil {
 return nil, err
 } else {
 return &reply, nil
 }
}

func (op *Operator) LicenseGetSigned(q *QueryOptions) (string, error) {
 r := op.c.NewRequest("GET", "/v1/operator/license")
 r.params.Set("signed", "1")
 r.setQueryOptions(q)
 _, resp, err := requireOK(op.c.doRequest(r))
 if err != nil {
 return "", err
 }
 defer resp.Body.Close()

 data, err := ioutil.ReadAll(resp.Body)
 if err != nil {
 return "", err
 }

 return string(data), nil
}

// LicenseReset will reset the license to the builtin one if it is still valid.
// If the builtin license is invalid, the current license stays
active.
func (op *Operator) LicenseReset(opts *WriteOptions) (*LicenseReply, error) {
 var reply LicenseReply
 r := op.c.NewRequest("DELETE", "/v1/operator/license")

```

```

r.setWriteOptions(opts)
_, resp, err := requireOK(op.c.doRequest(r))
if err != nil {
 return nil, err
}
defer resp.Body.Close()

if err := decodeBody(resp, &reply); err != nil {
 return nil, err
}

return &reply, nil
}

func (op *Operator) LicensePut(license string, opts *WriteOptions) (*LicenseReply, error) {
 var reply LicenseReply
 r := op.c.newRequest("PUT", "/v1/operator/license")
 r.setWriteOptions(opts)
 r.body = strings.NewReader(license)
 _, resp, err := requireOK(op.c.doRequest(r))
 if err != nil {
 return nil, err
 }
 defer resp.Body.Close()

 if err := decodeBody(resp, &reply); err != nil {
 return nil, err
 }

 return &reply, nil
}

```

# 1.560 [github.com/pierrec/lz4/v4](https://github.com/pierrec/lz4/v4) 4.1.14

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## 1.561

[google.golang.org/genproto/googleapis/rpc](https://google.golang.org/genproto/googleapis/rpc)

[0.0.0-20230526203410-71b5a4ffd15e](https://google.golang.org/genproto/googleapis/rpc/0.0.0-20230526203410-71b5a4ffd15e)

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## 1.564 tre 0.8.0-r2

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# 1.568 jaeger-client-go 2.28.0+incompatible

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## 1.569 py3-parsing 3.0.9-r2

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## 1.571 py3-setuptools 67.7.2-r0

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## 1.572 google-golang-org-genproto-googleapis-api 0.0.0-20230530153820-e85fd2cbaebc

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## 1.574 py3-six 1.16.0-r3

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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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| 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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| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                 |
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
| 2.1.2          | 2.1.1        | 2002      | PSF        | yes                 |
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# 1.582 github.com/bonitoo-io/go-sql-bigquery 0.3.4-1.4.0

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## **1.583 useragent 0.0.0-20190129205925-3e331f0949a5**

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## 1.585 influxdata-usage-client 0.0.0-

### 20160829180054-6d3895376368

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# 1.587 [github.com/influxdata/httprouter](https://github.com/influxdata/httprouter) 1.3.1-0.20191122104820-ee83e2772f69

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--

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--

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--

JUNIPER-LICENSE-MIB DEFINITIONS ::= BEGIN

IMPORTS

MODULE-IDENTITY, OBJECT-TYPE, Unsigned32, TimeTicks, IPAddress,

NOTIFICATION-TYPE

FROM SNMPv2-SMI

jnxLicenseMibRoot

FROM JUNIPER-SMI

DisplayString

FROM SNMPv2-TC;

```

jnxLicenseMIB MODULE-IDENTITY
 LAST-UPDATED "201906170000Z"
 ORGANIZATION "Juniper Networks, Inc."
 CONTACT-INFO
 "Juniper Technical Assistance Center
 Juniper Networks, Inc.
 1133 Innovation Way
 Sunnyvale, CA 94089
 E-mail: support@juniper.net"
 DESCRIPTION
 "Implementation of enterprise specific MIB
 for license commands and configuration."
 REVISION "201007090000Z" -- Jul 09, 2010
 DESCRIPTION
 "Initial version."

 REVISION "201612150000Z" -- Dec 15, 2016
 DESCRIPTION
 "Added OID jnxLicenseKeyType and Trap jnxLicenseExpired"

 REVISION "201906170000Z" -- Jun 17, 2019
 DESCRIPTION
 "Deprecated jnxLicenseKeys."

 ::= { jnxLicenseMibRoot 1 }

jnxLicenseNotifications OBJECT IDENTIFIER ::= { jnxLicenseMIB 0 }
jnxLicenseObjects OBJECT IDENTIFIER ::= { jnxLicenseMIB 1 }

jnxLicenseInstallObjects OBJECT IDENTIFIER ::= { jnxLicenseObjects 1 }
jnxLicenseSettings OBJECT IDENTIFIER ::= { jnxLicenseObjects 2 }

-- *****
-- License table for installed licenses
-- *****

jnxLicenseInstallTable OBJECT-TYPE
 SYNTAX SEQUENCE OF JnxLicenseInstallEntry
 MAX-ACCESS not-accessible
 STATUS current
 DESCRIPTION "This table contains installed feature license information."
 ::= { jnxLicenseInstallObjects 1 }

jnxLicenseInstallEntry OBJECT-TYPE
 SYNTAX JnxLicenseInstallEntry
 MAX-ACCESS not-accessible
 STATUS current

```

DESCRIPTION "A row of giving installed feature license information."

INDEX { IMPLIED jnxLicenseId }

::= { jnxLicenseInstallTable 1 }

JnxLicenseInstallEntry ::= SEQUENCE {

jnxLicenseId DisplayString,

jnxLicenseVersion INTEGER,

jnxLicenseDeviceId DisplayString,

jnxLicenseType INTEGER,

jnxLicenseKeys OCTET STRING,

jnxLicenseKeyType INTEGER

}

jnxLicenseId OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION "Installed feature licenses Id."

::= { jnxLicenseInstallEntry 1 }

jnxLicenseVersion OBJECT-TYPE

SYNTAX INTEGER

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"License Version information"

::= { jnxLicenseInstallEntry 2 }

jnxLicenseDeviceId OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-only

STATUS current

DESCRIPTION "License Device Id "

::= { jnxLicenseInstallEntry 3 }

jnxLicenseType OBJECT-TYPE

SYNTAX INTEGER { invalid(0), count-down(1), date-based(2),permanent(3) }

MAX-ACCESS read-only

STATUS current

DESCRIPTION "License type information"

::= { jnxLicenseInstallEntry 4 }

jnxLicenseKeys OBJECT-TYPE

SYNTAX OCTET STRING

MAX-ACCESS read-only

STATUS deprecated

DESCRIPTION "\*\*\*\*\* THIS OBJECT IS DEPRECATED \*\*\*\*\*"

This object is deprecated,



it displays all the license keys  
in the system."

```
::= { jnxLicenseInstallEntry 5 }
```

```
jnxLicenseKeyType OBJECT-TYPE
SYNTAX INTEGER {commercial(1),
trial(2), demo(3), emergency(4), lab(5), education(6)}
MAX-ACCESS read-only
STATUS current
DESCRIPTION "License key type"
::= { jnxLicenseInstallEntry 6 }
```

-- Feature Listing Table

```
jnxLicenseFeatureListTable OBJECT-TYPE
SYNTAX SEQUENCE OF JnxLicenseFeatureListEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION "list of features supporting Licensing."
::= { jnxLicenseInstallObjects 2 }
```

```
jnxLicenseFeatureListEntry OBJECT-TYPE
SYNTAX JnxLicenseFeatureListEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION "A row of licensed features."
INDEX { jnxLicenseFeatureId }
::= { jnxLicenseFeatureListTable 1 }
```

```
JnxLicenseFeatureListEntry ::= SEQUENCE {
jnxLicenseFeatureId INTEGER,
jnxLicenseFeatureName DisplayString,
jnxLicenseFeatureDescr DisplayString,
jnxLicenseFeatureLicenseId
DisplayString,
jnxLicenseFeatureLicenseUsed INTEGER,
jnxLicenseFeatureLicenseInstalled INTEGER,
jnxLicenseFeatureLicenseNeeded INTEGER
}
```

```
jnxLicenseFeatureId OBJECT-TYPE
SYNTAX INTEGER
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION "Feature Id to point an entry in this table"
::= { jnxLicenseFeatureListEntry 1 }
```

jnxLicenseFeatureName OBJECT-TYPE  
SYNTAX DisplayString  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION "Feature Name"  
::= { jnxLicenseFeatureListEntry 2 }

jnxLicenseFeatureDescr OBJECT-TYPE  
SYNTAX DisplayString  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION "Feature Name"  
::= { jnxLicenseFeatureListEntry 3 }

jnxLicenseFeatureLicenseId OBJECT-TYPE  
SYNTAX DisplayString  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION "Feature License Id"  
::= { jnxLicenseFeatureListEntry 4 }

jnxLicenseFeatureLicenseUsed OBJECT-TYPE  
SYNTAX INTEGER  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION "Licenses Used"  
::= { jnxLicenseFeatureListEntry 5 }

jnxLicenseFeatureLicenseInstalled OBJECT-TYPE  
SYNTAX INTEGER  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION "Licenses Installed"  
::= { jnxLicenseFeatureListEntry 6 }

jnxLicenseFeatureLicenseNeeded OBJECT-TYPE  
SYNTAX INTEGER  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION "Licenses Needed"  
::= { jnxLicenseFeatureListEntry 7 }

-- \*\*\*\*\*  
-- License configuration parameters  
-- \*\*\*\*\*

```
jnxLicenseRenewBeforExpiration
OBJECT-TYPE
SYNTAX INTEGER
MAX-ACCESS read-only
STATUS current
DESCRIPTION
 "License renew lead time before expiration in days."
 ::= { jnxLicenseSettings 1 }
```

```
jnxLicenseRenewInterval OBJECT-TYPE
SYNTAX INTEGER
MAX-ACCESS read-only
STATUS current
DESCRIPTION
 "License checking interval in hours."
 ::= { jnxLicenseSettings 2 }
```

```
jnxLicenseAutoUpdate OBJECT-TYPE
SYNTAX DisplayString
MAX-ACCESS read-only
STATUS current
DESCRIPTION
 "License auto update URL of a license server."
 ::= { jnxLicenseSettings 3 }
```

```
-- *****
-- define branches for jnx license traps
-- *****
```

```
jnxLicenseGraceExpired NOTIFICATION-TYPE
OBJECTS { jnxLicenseFeatureName
}
STATUS current
DESCRIPTION
 "The SNMP trap that is generated when the license grace period for
 feature identified by jnxLicenseFeatureName is expired"
 ::= { jnxLicenseNotifications 1 }
```

```
jnxLicenseGraceAboutToExpire NOTIFICATION-TYPE
OBJECTS { jnxLicenseFeatureName }
STATUS current
DESCRIPTION
 "The SNMP trap that is generated when the license grace period for
 feature identified by jnxLicenseFeatureName is about to expire"
 ::= { jnxLicenseNotifications 2 }
```

```

jnxLicenseAboutToExpire NOTIFICATION-TYPE
 OBJECTS { jnxLicenseFeatureName }
 STATUS current
 DESCRIPTION
 "The SNMP trap that is generated when the license period for
 feature identified by jnxLicenseFeatureName is about to expire"
 ::= { jnxLicenseNotifications 3 }

jnxLicenseInfringeCumulative NOTIFICATION-TYPE
 OBJECTS { jnxLicenseFeatureName }
 STATUS current
 DESCRIPTION
 "The SNMP trap that is generated when the
feature is used more
 times than as specified in number of licenses allowed for feature
 as identified by jnxLicenseFeatureName"
 ::= { jnxLicenseNotifications 4 }

jnxLicenseInfringeSingle NOTIFICATION-TYPE
 OBJECTS { jnxLicenseFeatureName }
 STATUS current
 DESCRIPTION
 "The SNMP trap that is generated when the license for feature
 identified by jnxLicenseFeatureName is not valid i.e. either expired or
 not available."
 ::= { jnxLicenseNotifications 5 }

jnxLicenseKeyExpired NOTIFICATION-TYPE
 OBJECTS { jnxLicenseFeatureName, jnxLicenseFeatureLicenseId, jnxLicenseKeyType }
 STATUS current
 DESCRIPTION
 "The SNMP trap that is generated when the license for feature
 identified by jnxLicenseFeatureName is not valid i.e. either expired or
 not available."
 ::= { jnxLicenseNotifications 6 }

END
/*
* Generated by ncsc --mib2yang-std
* Source: MIB_SOURCES_POST_PROCESSED/CISCO-LICENSE-MGMT-MIB.mib
*/
/*
* This YANG module has been generated by smidump 0.5.0:
*
* smidump -f yang CISCO-LICENSE-MGMT-MIB
*
* Do not edit. Edit the source file instead!
*/

```

```
module CISCO-LICENSE-MGMT-MIB {

 namespace "urn:ietf:params:xml:ns:yang:smiv2:CISCO-LICENSE-MGMT-MIB";
 prefix "cisco-license-mgmt-mib";

 import ENTITY-MIB {
 prefix "entity-mib";
 }

 import INET-ADDRESS-MIB {
 prefix "inet-address";
 }

 import SNMP-FRAMEWORK-MIB {
 prefix "snmp-framework";
 }

 import SNMPv2-TC {
 prefix "snmpv2-tc";
 }

 import ietf-yang-smiv2 {
 prefix "smiv2";
 }

 organization
 "Cisco Systems Inc.";

 contact
 "Cisco Systems
 Customer Service

 Postal: 170 W Tasman Drive

 San Jose, CA 95134

 USA

 Tel: +1 800 553 -NETS

 E-mail: cs-snmp@cisco.com";

 description
 "The MIB module for managing licenses on the system.

 The licensing mechanism provides flexibility to
 enforce licensing for various features in the system.
```

The following text introduces different concepts and terms those are necessary to understand the MIB definition and to perform license management.

#### UDI

Universal Device Identifier that uniquely identifies a device. It comprises of product ID, version ID and serial number of the device.

#### NODE LOCKED LICENSE:

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#### NON-NODE LOCKED LICENSE:

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#### 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:

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They are used only when there are no permanent, extension or grace period licenses for a feature.

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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

clmgmtLicenseDeviceInfoEntry {

key "entPhysicalIndex";

description

"An entry in clmgmtLicenseDeviceInfoTable. Each entry contains device level licensing information for a device.";  
smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.2.1";

leaf entPhysicalIndex {

type leafref {

path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-mib:entPhysicalIndex";

}

}

leaf clmgmtDefaultLicenseStore {

type uint32 {

range "1..4294967295";

}

description

"This object indicates the clmgmtLicenseStoreIndex of default store in the device. There will be only one default license store per device. If no license store is specified during license install, this default license store will be used.";  
smiv2:max-access "read-only";  
smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.2.1.1";

}

}

}

container clmgmtLicenseInfoTable {

description

"This table contains information about all the licenses installed on the device.";  
smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3";

list clmgmtLicenseInfoEntry {

```

key "entPhysicalIndex clmgmtLicenseStoreUsed clmgmtLicenseIndex";
description
 "An entry in clmgmtLicenseInfoTable. Each entry contains
 information about a license installed on the device. This
 entry gets created when a license is installed successfully.
 Management application can not create these entries directly, but
 will do so indirectly by executing license install action.
 Some of these entries may already exist that correspond to
 demo licenses even before management application installs any
 licenses.";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1";

leaf entPhysicalIndex {
 type leafref {
 path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
 }
}

leaf clmgmtLicenseStoreUsed {
 type uint32 {
 range "1..4294967295";
 }
 description
 "This object represents the license store that is used for
 storing this license. This object will have the same value
 as clmgmtLicenseStoreIndex in clmgmtLicenseStoreInfoEntry
 of the license store used.";
 smiv2:max-access "not-accessible";
 smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.1";
}

leaf clmgmtLicenseIndex {
 type cisco-license-mgmt-mib:ClmgmtLicenseIndex;
 description
 "This object uniquely identifies a license within
 the device.";
 smiv2:max-access "not-accessible";
 smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.2";
}

leaf clmgmtLicenseFeatureName {
 type snmp-framework:SnmpAdminString
{
 length "0..128";
}
 description
 "This object indicates the name of the feature that is

```

```

 using or can use this license. A license can be used by
 only one feature. Examples of feature name are: 'IPBASE',
 'ADVIPSERVICE'.";
 smiv2:max-access "read-only";
 smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.3";
}

```

```

leaf clmgmtLicenseFeatureVersion {
 type snmp-framework:SnmpAdminString {
 length "0..128";
 }
 description
 "This object indicates the version of the feature that is
 using or can use this license. Examples of feature version
 are: '1.0', '2.0'";
 smiv2:max-access "read-only";
 smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.4";
}

```

```

leaf clmgmtLicenseType {
 type enumeration {
 enum "demo" {
 value "1";
 }
 enum "extension"
 {
 value "2";
 }
 enum "gracePeriod" {
 value "3";
 }
 enum "permanent" {
 value "4";
 }
 enum "paidSubscription" {
 value "5";
 }
 enum "evaluationSubscription" {
 value "6";
 }
 enum "extensionSubscription" {
 value "7";
 }
 enum "evalRightToUse" {
 value "8";
 }
 enum "rightToUse" {
 value "9";
 }
 }
}

```

```

}
enum "permanentRightToUse" {
 value "10";
}
}

```

description

"This object identifies type of license. Licenses may have validity period defined in terms of time duration that the license is valid for or it may be defined in terms of actual calendar dates. Subscription licenses are licenses that have validity period

defined in terms of calendar dates.

demo(1) - demo(evaluation license) license.

extension(2) - Extension(expiring) license.

gracePeriod(3) - Grace period license.

permanent(4) - permanent license, the license has no expiry date.

paidSubscription(5) - Paid subscription licenses are the licenses

which are purchased by customers. These licenses have a start date and end date associated with them.

evaluationSubscription(6)-Evaluation subscription licenses are the trial licenses. These licenses are node locked and it can be obtained only once for an UDI. They are valid

based on calendar days. These licenses have a start date and an end date associated with them and are issued once per UDI.

extensionSubscription(7)- Extension subscription licenses are similar to evaluation subscription licenses but these licenses are issued based on customer request. There are no restrictions on the number of licenses available for a UDI.

evalRightToUse(8) - Evaluation Right to use (RTU) license.

rightToUse(9) - Right to use (RTU) license.

permanentRightToUse(10) ? Right To Use license right after it is configured and is valid for the lifetime of

the product.

This is a Right To Use license which is not in evaluation mode for a limited time.";

smiv2:max-access "read-only";

smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.5";

```
}
```

```
leaf clmgmtLicenseCounted {
 type boolean;
 description
 "This object indicates whether the license is counted
 license.
 true(1) - counted license
 false(2) - uncounted license";
 smiv2:max-access "read-only";
 smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.6";
}
```

```
leaf clmgmtLicenseValidityPeriod {
 type uint32;
 units "seconds";
 description
 "This object indicates the time period the license is valid for.
 This object is applicable only if clmgmtLicenseType is demo(1),
 or extension(2) or gracePeriod(3) or evalRightToUse(8). The
 object will return
0 for other license types.";
 smiv2:max-access "read-only";
 smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.7";
}
```

```
leaf clmgmtLicenseValidityPeriodRemaining {
 type uint32;
 units "seconds";
 description
 "This object indicates the time period remaining before the
 license expires or transitions to rightToUse(9) license. This
 object is applicable only if clmgmtLicenseType is demo(1), or
 extension(2) or gracePeriod(3) or evalRightToUse(8). The object
 will contain 0 for other license types.";
 smiv2:max-access "read-only";
 smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.8";
}
```

```
leaf clmgmtLicenseExpiredPeriod {
 type uint32;
 units "seconds";
 description
 "This object indicates the elapsed time period since the license
 expired. This object is applicable only if clmgmtLicenseType
 is demo(1),
or extension(2) or gracePeriod(3). Also, this
 value of this object will be valid only after the license
```

```
 expires. The object will return 0 for other license types
 or before the license expiry.";
 smiv2:max-access "read-only";
 smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.9";
}
```

```
leaf clmgmtLicenseMaxUsageCount {
 type uint32;
 description
 "This object indicates the maximum number of entities that
 can use this license. This object is applicable only if
 clmgmtLicenseCounted is true(1). The entity that is being
 counted can be anything and it depends on the licensable
 feature.";
 smiv2:max-access "read-only";
 smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.10";
}
```

```
leaf clmgmtLicenseUsageCountRemaining {
 type uint32;
 description
 "This object indicates the number of entities that can
 still
 use this license. This object is applicable only
 if clmgmtLicenseCounted is true(1).";
 smiv2:max-access "read-only";
 smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.11";
}
```

```
leaf clmgmtLicenseEULAStatus {
 type boolean;
 description
 "This object indicates whether the user accepted
 End User License Agreement for this license.

 true(1) - EULA accepted
 false(2) - EULA not accepted";
 smiv2:max-access "read-only";
 smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.12";
}
```

```
leaf clmgmtLicenseComments {
 type snmp-framework:SnmpAdminString {
 length "0..255";
 }
 description
 "This object represents the user modifiable comments
 about the license. This object is initially populated
```



```

 with comments from the license file.";
 smiv2:max-access "read-write";
 smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.13";
}

```

```

leaf clmgmtLicenseStatus {
 type enumeration {
 enum "inactive" {
 value "1";
 }
 enum "notInUse" {
 value "2";
 }
 enum "inUse" {
 value "3";
 }
 enum "expiredInUse" {
 value "4";
 }
 enum "expiredNotInUse" {
 value "5";
 }
 enum "usageCountConsumed" {
 value "6";
 }
 }
 description
 "This object represents status of the license.

```

inactive(1) - license is installed, but not active.

notInUse(2) - license is installed and available for use.

inUse(3) - the license is being used (by a feature).

expiredInUse(4)  
- license is expired but still being held by the feature.

expiredNotInUse(5) - license is expired and not being held by any feature.

usageCountConsumed(6) - number of entities using this licenses has reached the allowed limit, no new entities are allowed to use this license.";

```

 smiv2:max-access "read-only";
 smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.14";
}

```

```
leaf clmgmtLicenseStartDate {
 type snmpv2-tc:DateAndTime;
 description
 "This object indicates the start date for a subscription
 license. It is optional for subscription licenses to have a
 start date associated with them, they may only have an end
 date associated with them. This object may be applicable only
```

```
when clmgmtLicenseType is paidSubscription(5),
 evaluationSubscription(6) or extensionSubscription (7).
 The object will contain an octet string of length 0 when it is
 not applicable.";
smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.15";
}
```

```
leaf clmgmtLicenseEndDate {
 type snmpv2-tc:DateAndTime;
 description
 "This object indicates the end date for a subscription license.
 This object is applicable only when clmgmtLicenseType is
 paidSubscription(5), evaluationSubscription(6) or
 extensionSubscription (7). The object will contain an octet
 string of length 0 when it is not applicable.";
smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.16";
}
```

```
leaf clmgmtLicensePeriodUsed {
 type uint32;
 units "seconds";
 description
 "This
object indicates the time period used for the
 Right to use (RTU) licenses. This object is applicable for all
 RTU licenses.";
smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.17";
}
}
}
```

```
container clmgmtLicensableFeatureTable {
 description
 "This table contains list of licensable features in the
 image. All the licensable features will have an entry each
 in this table irrespective of whether they are using any
 licenses currently. Entries in this table are created by
```

the agent one for each licensable feature in the image.  
These entries remain in the table permanently and can not be deleted. Management application can not create or delete entries from this table.";  
smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4";

```
list clmgmtLicensableFeatureEntry {
 key "entPhysicalIndex clmgmtFeatureIndex";
 description
 "An entry
in clmgmtLicensableFeatureTable. Each entry represents
 a licensable feature.";
 smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4.1";

 leaf entPhysicalIndex {
 type leafref {
 path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
 }
 }

 leaf clmgmtFeatureIndex {
 type uint32 {
 range "1..4294967295";
 }
 description
 "This object uniquely identifies a licensable feature in
the device.";
 smiv2:max-access "not-accessible";
 smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4.1.1";
 }

 leaf clmgmtFeatureName {
 type snmp-framework:SnmpAdminString {
 length "0..128";
 }
 description
 "This object indicates the name of the licensable feature
in the device. Examples of feature names are: 'IPBASE',
'ADVIPSERVICE'";
 smiv2:max-access
"read-only";
 smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4.1.2";
 }

 leaf clmgmtFeatureVersion {
 type snmp-framework:SnmpAdminString {
 length "0..32";
```

```

}
description
"This object indicates the version of the licensable
feature in the device. Examples of feature versions
are: '1.0' or '2.0';
smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4.1.3";
}

```

```

leaf clmgmtFeatureValidityPeriodRemaining {
type uint32;
units "seconds";
description
"This object indicates the time period remaining before
the feature's license expires or transitions. This object is
applicable only if clmgmtLicenseType of the license used by
this feature is demo(1), or extension(2) or gracePeriod(3) or
evalRightToUse(8).

```

The object will contain 0 if  
other types of license is used  
or if the feature does not use any license. If the  
feature is using multiple licenses, this period will  
represent the cumulative period remaining from all the  
licenses used by this feature.";

```

smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4.1.4";
}

```

```

leaf clmgmtFeatureWhatIsCounted {
type snmp-framework:SnmpAdminString {
length "0..128";
}
description
"This object represents the entity that is being counted
by this feature. Examples of entities are IP Phones, number
of sessions etc. This object is only applicable for
features that use counting licenses. For other features,
this object will return empty string.";
smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4.1.5";
}

```

```

leaf clmgmtFeatureStartDate {

type snmpv2-tc:DateAndTime;
description
"This object indicates the license start date of the feature.

```

This object is applicable if at least one of the licenses used for this feature has a valid start date. The start date will be the earliest of the valid start dates of all the licenses used for this feature. If none of the licenses used for this feature have a valid start date then this object will contain an octet string of length 0.";

```

smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4.1.6";
}

```

```

leaf clmgmtFeatureEndDate {
 type snmpv2-tc:DateAndTime;
 description
 "This object indicates the license end date of the feature.
 This object is applicable if at least one of the licenses used
 for this feature has a valid end date. The end date will
 be the latest of the valid end dates
of all the licenses
 used for this feature. If none of the licenses used for this
 feature have a valid end date then this object will contain an
 octet string of length 0.";
 smiv2:max-access "read-only";
 smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4.1.7";
}

```

```

leaf clmgmtFeaturePeriodUsed {
 type uint32;
 units "seconds";
 description
 "This object indicates the license period used for the feature.";
 smiv2:max-access "read-only";
 smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4.1.8";
}
}
}

```

```

container clmgmtDevCredExportActionTable {
 description
 "A table for triggering device credentials export action.
 Management application must create this entry to trigger the
 export of device credentials from the device to a file.

 Once the request completes, the management application should
 retrieve the values of the objects
of interest, and then
 delete the entry. In order to prevent old entries from
 clogging the table, entries will be aged out, but an entry
 will never be deleted within 5 minutes of completion.";

```

smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2";

```
list clmgmtDevCredExportActionEntry {
 key "clmgmtDevCredExportActionIndex";
 description
```

"An entry for each device credential export action that is being executed or was executed recently. The management application triggers the export by creating an entry in this table. This can be done in the following 2 methods

1. CREATE-AND-GO method

Management application sets clmgmtDevCredExportActionStatus to createAndGo(4) and all other required objects to valid values in a single SNMP SET request. If all the values are valid, the device creates the entry and executes the action. If

the SET request fails, the entry will not be created.

2. CREATE-AND-WAIT method

Management application sets clmgmtDevCredExportActionStatus to createAndWait(5) to create an entry. Management application can set all other required objects to valid values in more than one SNMP SET request. If SET request for any of the objects fails, management application can set just only that object. Once all the required objects are set to valid values, management application triggers action execution by setting clmgmtDevCredExportActionStatus to active(1).

To stop the action from being executed, the management application can delete the entry by setting clmgmtDevCredExportActionStatus to destroy(6) when clmgmtDevCredCommandState is pending(2).

The status of action execution can be known by querying

clmgmtDevCredCommandState. If the action is still in pending(2) or inProgress(3), the management application need to check back again after few seconds. Once the action completes and if status of the action is failed(6), the reason for failure can be retrieved from clmgmtDevCredCommandFailCause.

Entry can be deleted except when clmgmtLicenseAction is set to inProgress(3). All entries in this table are volatile and are cleared on agent reset.";

smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1";

```
leaf clmgmtDevCredExportActionIndex {
 type uint32 {
```

```
 range "1..4294967295";
 }
 description
 "This object uniquely identifies a row in
 clmgmtDevCredExportActionTable. The management application
 chooses this value by reading
 clmgmtNextFreeDevCredExportActionIndex while creating an
 entry in this table.
```

If an entry already exists with this

```
 index, the creation of the entry will not continue and
 error will be returned. The management application should
 read the value of clmgmtNextFreeDevCredExportActionIndex
 again and retry with the new value for this object.";
 smiv2:max-access "not-accessible";
 smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.1";
}
```

```
leaf clmgmtDevCredEntPhysicalIndex {
 type entity-mib:PhysicalIndexOrZero;
 description
 "This object represents the entPhysicalIndex of the device
 for which the device credentials are being retrieved. This
 object is mainly used in devices where one device is acting
 as a master and rest of the devices as slaves. The master
 device is responsible for SNMP communication with the
 manager. Examples include stackable switches, devices with
 router processor and line cards.
```

Note: This object need not be set if it is a stand alone  
device";

```
 smiv2:defval "0";
 smiv2:max-access "read-write";
 smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.2";
}
```

```
leaf clmgmtDevCredTransferProtocol {
 type cisco-license-mgmt-mib:ClmgmtLicenseTransferProtocol;
 description
 "This object indicates the transfer protocol to be used when
 copying files as specified in the following objects.
 1. clmgmtDevCredExportFile
 .";
 smiv2:defval "none";
 smiv2:max-access "read-write";
 smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.3";
}
```

```
leaf clmgmtDevCredServerAddressType {
```

```

type inet-address:InetAddressType;
description
 "This object indicates the transport type of the
 address contained in clmgmtDevCredServerAddress object.
 This must be set when clmgmtDevCredTransferProtocol
 is not none(1) or local(2).";
smiv2:defval "unknown";
smiv2:max-access "read-write";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.4";
}

```

```

leaf clmgmtDevCredServerAddress {
 type inet-address:InetAddress;
 description
 "This object indicates the the ip address of the server
 from which the files must be read or written to if
 clmgmtDevCredTransferProtocol is not none(1) or local(2).

 All bits as 0s or 1s for clmgmtDevCredServerAddress are not
 allowed.

```

```

 The format of this address depends on the value of the
 clmgmtDevCredServerAddressType object";
smiv2:defval "";
smiv2:max-access "read-write";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.5";
}

```

```

leaf clmgmtDevCredServerUsername {
 type snmp-framework:SnmpAdminString {
 length "0..96";
 }
}

```

```

description
 "This object indicates the remote user name for accessing
 files via ftp, rcp, sftp or scp protocols. This object
 must be set when the clmgmtDevCredTransferProtocol is
 ftp(4), rcp(5), scp(7) or sftp(8). If
 clmgmtDevCredTransferProtocol is rcp(5), the remote
 username is sent as the server username in an rcp command
 request sent by the system to a remote rcp server.";
smiv2:defval "";
smiv2:max-access "read-write";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.6";
}

```

```

leaf clmgmtDevCredServerPassword {
 type snmp-framework:SnmpAdminString {

```



```

 length "0..96";
}
description
"This object indicates the password used by ftp, sftp or
scp for copying a file to/from an ftp/sftp/scp server.
This object must be set when the
clmgmtDevCredTransferProtocol is ftp(4) or scp(7) or
sftp(8). Reading it returns a zero-length string for
security reasons.";
smiv2:defval "";
smiv2:max-access "read-write";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.7";
}

```

```

leaf clmgmtDevCredExportFile {
type snmp-framework:SnmpAdminString {
 length "0..255";
}
description
"This object represents file where device credentials needs
to be exported to.";
smiv2:max-access "read-write";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.8";
}

```

```

leaf clmgmtDevCredCommand {
type enumeration {
enum "noOp" {
 value "1";
}
enum "getDeviceCredentials" {
 value "2";
}
}
description
"This object indicates the the command to be executed.

```

| Command | Remarks                         |
|---------|---------------------------------|
| -----   |                                 |
| -----   |                                 |
| noOp(1) | No operation will be performed. |

```

getDeviceCredentials(2) Exports device credentials";
smiv2:defval "noOp";
smiv2:max-access "read-write";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.9";
}

```

```

leaf clmgmtDevCredCommandState {
 type cisco-license-mgmt-mib:ClmgmtLicenseActionState;
 description
 "This object indicates the state of the action that is
 executed as a result of setting clmgmtDevCredRowStatus
 to active(1).";
 smiv2:max-access "read-only";
 smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.10";
}

```

```

leaf clmgmtDevCredCommandFailCause {
 type enumeration {
 enum "none" {
 value "1";
 }
 enum "unknownError" {
 value "2";
 }
 enum "transferProtocolNotSupported"
 {
 value "3";
 }
 enum "fileServerNotReachable" {
 value "4";
 }
 enum "unrecognizedEntPhysicalIndex" {
 value "5";
 }
 enum "invalidFile" {
 value "6";
 }
 }
 description
 "This object indicates the the reason for device
 credentials export operation failure.

```

The value of this object is valid only when  
clmgmtDevCredCommandState is failed(6).

none(1) - action execution has not started yet.

If the action is completed and the  
action is successful, then also  
none(1) is returned to indicate that  
there are no errors.

unknownError(2) - reason for failure is unknown,  
operation failed, no

operation is

performed

transferProtocolNotSupported(3) - clmgmtDevCredTransferProtocol  
given is not supported.

fileServerNotReachable(4) - file server is not reachable.

unrecognizedEntPhysicalIndex(5) - entPhysicalIndex is not  
valid

invalidFile(6) - The target file specified is not valid.";

smiv2:max-access "read-only";

smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.11";

}

leaf clmgmtDevCredStorageType {

type snmpv2-tc:StorageType;

description

"This object indicates the storage type for this conceptual  
row. Conceptual rows having the value 'permanent' need not  
allow write-access to any columnar objects in the row.";

smiv2:defval "volatile";

smiv2:max-access "read-write";

smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.12";

}

leaf clmgmtDevCredRowStatus {

type snmpv2-tc:RowStatus;

description

"This object indicates the the status of this table entry.  
Once the entry status is set to active(1), the associated  
entry cannot be modified until the action completes  
(clmgmtDevCredCommandStatus is set to a value  
other than inProgress(3)). Once the action completes  
the only operation possible after this is to delete  
the row.

clmgmtDevCredExportFile is a mandatory object to be  
set when creating this entry.";

smiv2:max-access "read-write";

smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.13";

}

}

}

}

notification clmgmtLicenseExpired {

description

"This notification is sent, when a feature license  
expires. This notification will be sent continuously  
every week even after the expiry to alert the

```

management
 application.";
smiv2:oid "1.3.6.1.4.1.9.9.543.0.1";

container object-1 {

 leaf entPhysicalIndex {
 type leafref {
 path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
 }
 }

 leaf clmgmtFeatureIndex {
 type leafref {
 path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
 }
 }

 leaf clmgmtFeatureName {
 type leafref {
 path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureName";
 }
 }
}

container object-2 {

 leaf entPhysicalIndex {
 type leafref {
 path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
 }
 }

 leaf clmgmtFeatureIndex {
 type leafref {
 path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
 }
 }

 leaf clmgmtFeatureVersion {

```

```

 type leafref {
 path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureVersion";
 }
 }
}

```

```

notification clmgmtLicenseExpiryWarning {
 description
 "This notification is sent when a license is about to
 expire. This notification will go out multiple times.
 First notification goes out when expiry day is 4 weeks
 ahead, second notification when expiry day is 3 weeks
 ahead, third notification
 when expiry day is 2 weeks
 ahead. This notification will go out daily in the
 last week of license expiry.";
 smiv2:oid "1.3.6.1.4.1.9.9.543.0.2";
}

```

```

container object-1 {

 leaf entPhysicalIndex {
 type leafref {
 path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
 }
 }
}

```

```

 leaf clmgmtFeatureIndex {
 type leafref {
 path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
 }
 }
}

```

```

 leaf clmgmtFeatureName {
 type leafref {
 path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureName";
 }
 }
}

```

```

container object-2 {

```

```

leaf entPhysicalIndex {
 type leafref {
 path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
 }
}

leaf clmgmtFeatureIndex {
 type leafref {
 path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
 }
}

leaf clmgmtFeatureVersion {
 type leafref {
 path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureVersion";
 }
}
}

container object-3 {

 leaf entPhysicalIndex {
 type leafref {
 path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
 }
 }

 leaf clmgmtFeatureIndex {
 type leafref {
 path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
 }
 }

 leaf clmgmtFeatureValidityPeriodRemaining {
 type leafref {
 path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-

```

```

mib:clmgmtFeatureValidityPeriodRemaining";
 }
 }
}
}

notification clmgmtLicenseUsageCountExceeded {
 description
 "This notification is sent when clmgmtLicenseUsageCountRemaining
 has reached clmgmtLicenseMaxUsageCount for a counting license.";
 smiv2:oid "1.3.6.1.4.1.9.9.543.0.3";

 container object-1 {

 leaf entPhysicalIndex {
 type leafref {
 path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
 }
 }

 leaf clmgmtLicenseStoreUsed {
 type leafref {
 path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
 }
 }

 leaf clmgmtLicenseIndex {
 type leafref {
 path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
 }
 }

 leaf clmgmtLicenseFeatureName {
 type leafref {
 path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseFeatureName";
 }
 }
 }

 container object-2 {

```

```

 leaf entPhysicalIndex {
 type leafref
 {
 path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
 }
 }

 leaf clmgmtLicenseStoreUsed {
 type leafref {
 path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
 }
 }

 leaf clmgmtLicenseIndex {
 type leafref {
 path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
 }
 }

 leaf clmgmtLicenseFeatureVersion {
 type leafref {
 path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseFeatureVersion";
 }
 }
}

container object-3 {

 leaf entPhysicalIndex {
 type leafref {
 path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
 }
 }

 leaf clmgmtLicenseStoreUsed {
 type leafref {
 path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";

```



```

 }
 }

 leaf clmgmtLicenseIndex {
 type leafref {
 path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
 }
 }

 leaf clmgmtLicenseMaxUsageCount {
 type leafref {
 path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseMaxUsageCount";
 }
 }
}

container object-4 {

 leaf entPhysicalIndex {
 type leafref {
 path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
 }
 }
}

 leaf clmgmtFeatureIndex {
 type leafref {
 path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
 }
 }
}

 leaf clmgmtFeatureWhatIsCounted {
 type leafref {
 path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureWhatIsCounted";
 }
 }
}
}

container object-5 {

```

```
leaf entPhysicalIndex {
 type leafref {
 path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
 }
}
```

```
leaf clmgmtLicenseStoreUsed {
 type leafref {
 path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
 }
}
```

```
leaf clmgmtLicenseIndex {
 type leafref {
 path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
 }
}
```

```
leaf clmgmtLicenseComments {
 type leafref {
 path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseComments";
 }
}
}
```

```
notification clmgmtLicenseUsageCountAboutToExceed
{
 description
 "This notification is sent when clmgmtLicenseUsageCountRemaining
 has reached 80% of clmgmtLicenseMaxUsageCount for a counting
 license. This is a warning notification to the management
 application that very soon the maximum count will be reached
 and after that the device will not allow new entities to
 make use of this license.";
 smiv2:oid "1.3.6.1.4.1.9.9.543.0.4";
}
```

```
container object-1 {
```

```
leaf entPhysicalIndex {
 type leafref {
```

```

 path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
 }
}

leaf clmgmtLicenseStoreUsed {
 type leafref {
 path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
 }
}

leaf clmgmtLicenseIndex {
 type leafref {

 path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
 }
}

leaf clmgmtLicenseFeatureName {
 type leafref {
 path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseFeatureName";
 }
}
}

container object-2 {

 leaf entPhysicalIndex {
 type leafref {
 path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
 }
 }

 leaf clmgmtLicenseStoreUsed {
 type leafref {
 path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
 }
 }
}

```

```

}

leaf clmgmtLicenseIndex {
 type leafref {
 path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
 }
}

leaf clmgmtLicenseFeatureVersion {
 type leafref {
 path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseFeatureVersion";
 }
}

container object-3 {

 leaf entPhysicalIndex {
 type leafref {
 path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
 }
 }

 leaf clmgmtLicenseStoreUsed {
 type leafref {
 path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
 }
 }

 leaf clmgmtLicenseIndex {
 type leafref {
 path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
 }
 }

 leaf clmgmtLicenseMaxUsageCount {
 type leafref {
 path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-

```

```

mib:clmgmtLicenseMaxUsageCount";
 }
 }
}

container object-4 {

 leaf entPhysicalIndex {
 type leafref {
 path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
 }
 }

 leaf clmgmtLicenseStoreUsed {
 type leafref {
 path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
 }
 }

 leaf clmgmtLicenseIndex {
 type leafref {
 path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
 }
 }

 leaf clmgmtLicenseUsageCountRemaining {
 type leafref {
 path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseUsageCountRemaining";
 }
 }
}

container object-5 {

 leaf entPhysicalIndex {
 type leafref {
 path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
 }
 }
}

```

```

leaf clmgmtFeatureIndex {
 type leafref
 {
 path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
 }
}

leaf clmgmtFeatureWhatIsCounted {
 type leafref {
 path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureWhatIsCounted";
 }
}

container object-6 {

 leaf entPhysicalIndex {
 type leafref {
 path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
 }
 }

 leaf clmgmtLicenseStoreUsed {
 type leafref {
 path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
 }
 }

 leaf clmgmtLicenseIndex {
 type leafref {
 path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
 }
 }

 leaf clmgmtLicenseComments {
 type leafref {
 path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseComments";
 }
 }
}

```

```

 }
 }
}

notification clmgmtLicenseInstalled {
 description
 "This notification is sent when a license is installed
 successfully.";
 smiv2:oid "1.3.6.1.4.1.9.9.543.0.5";

 container object-1 {

 leaf entPhysicalIndex {
 type leafref {
 path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";

 }
 }

 leaf clmgmtLicenseStoreUsed {
 type leafref {
 path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
 }
 }

 leaf clmgmtLicenseIndex {
 type leafref {
 path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
 }
 }

 leaf clmgmtLicenseFeatureName {
 type leafref {
 path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseFeatureName";
 }
 }
 }

 container object-2 {

```

```

leaf entPhysicalIndex {
 type leafref {
 path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
 }
}

```

```

leaf clmgmtLicenseStoreUsed {
 type leafref {
 path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
 }
}

```

```

leaf clmgmtLicenseIndex {
 type leafref {
 path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
 }
}

```

```

leaf clmgmtLicenseFeatureVersion {
 type leafref {
 path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseFeatureVersion";
 }
}
}

```

```

container object-3 {

```

```

 leaf entPhysicalIndex {
 type
 leafref {
 path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
 }
}

```

```

 leaf clmgmtLicenseStoreUsed {
 type leafref {
 path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
 }
}

```



```

}

leaf clmgmtLicenseIndex {
 type leafref {
 path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
 }
}

leaf clmgmtLicenseType {
 type leafref {
 path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseType";
 }
}

container
object-4 {

 leaf entPhysicalIndex {
 type leafref {
 path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
 }
 }

 leaf clmgmtLicenseStoreUsed {
 type leafref {
 path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
 }
 }

 leaf clmgmtLicenseIndex {
 type leafref {
 path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
 }
 }

 leaf clmgmtLicenseComments {
 type leafref {
 path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-

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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-

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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";

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```

 }
 }

 leaf clmgmtFeatureIndex {
 type leafref {
 path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
 }
 }

 leaf clmgmtFeatureVersion {
 type leafref {
 path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureVersion";
 }
 }
}

notification clmgmtLicenseNotEnforced {
 description
 "This notification is sent when a license does not
 exist for a feature, but the feature is a mandatory
 feature and it should run. This notification will be
 sent out periodically
 to indicate that there is no
 license installed for this feature and it needs to
 be done as soon as possible.";
 smiv2:oid "1.3.6.1.4.1.9.9.543.0.9";

 container object-1 {

 leaf entPhysicalIndex {
 type leafref {
 path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
 }
 }

 leaf clmgmtFeatureIndex {
 type leafref {
 path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
 }
 }
 }
}

```

```

leaf clmgmtFeatureName {
 type leafref {
 path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureName";
 }
}

container object-2 {

 leaf
entPhysicalIndex {
 type leafref {
 path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
 }
}

 leaf clmgmtFeatureIndex {
 type leafref {
 path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
 }
}

 leaf clmgmtFeatureVersion {
 type leafref {
 path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureVersion";
 }
}
}

notification clmgmtLicenseSubscriptionExpiryWarning {
 description
 "This notification is sent when a subscription license of a
 feature is about to expire. This notification will be sent as
 per the following
 schedule:
 Once a week for the last eight weeks
 Once a day for the last week
 Once a hour for the last day";
 smiv2:oid "1.3.6.1.4.1.9.9.543.0.10";
}

```

```

container object-1 {

 leaf entPhysicalIndex {
 type leafref {
 path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
 }
 }

 leaf clmgmtFeatureIndex {
 type leafref {
 path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
 }
 }

 leaf clmgmtFeatureName {
 type leafref {
 path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureName";
 }
 }
}

container object-2 {

 leaf
entPhysicalIndex {
 type leafref {
 path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
 }
 }

 leaf clmgmtFeatureIndex {
 type leafref {
 path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
 }
 }

 leaf clmgmtFeatureVersion {
 type leafref {
 path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-

```

```
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureVersion";
 }
 }
}
```

```
container object-3 {
```

```
 leaf entPhysicalIndex {
 type leafref {
 path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
 }
 }
```

```
 leaf
 clmgmtFeatureIndex {
 type leafref {
 path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
 }
 }
```

```
 leaf clmgmtFeatureEndDate {
 type leafref {
 path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureEndDate";
 }
 }
}
```

```
notification clmgmtLicenseSubscriptionExtExpiryWarning {
 description
 "This notification is sent when the subscription license end
 date of a feature is reached but extension period is left. This
 notification will be sent once a day after the license end date
 is reached.";
 smiv2:oid "1.3.6.1.4.1.9.9.543.0.11";
```

```
container object-1 {
```

```
 leaf entPhysicalIndex {
 type leafref {
 path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
```

```

 }
 }

 leaf clmgmtFeatureIndex {
 type leafref {
 path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
 }
 }

 leaf clmgmtFeatureName {
 type leafref {
 path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureName";
 }
 }
}

container object-2 {

 leaf entPhysicalIndex {
 type leafref {
 path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
 }
 }

 leaf clmgmtFeatureIndex {
 type leafref {

 path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
 }
 }

 leaf clmgmtFeatureVersion {
 type leafref {
 path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureVersion";
 }
 }
}

container object-3 {

```

```

leaf entPhysicalIndex {
 type leafref {
 path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
 }
}

leaf clmgmtFeatureIndex {
 type leafref {
 path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
 }
}

leaf clmgmtFeatureEndDate {
 type leafref {
 path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureEndDate";
 }
}

notification clmgmtLicenseSubscriptionExpired {
 description
 "This notification will be sent after a subscription license
of a feature completely expires. It will be sent once a day
after the license has completely expired";
 smiv2:oid "1.3.6.1.4.1.9.9.543.0.12";

 container object-1 {

 leaf entPhysicalIndex {
 type leafref {
 path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
 }
 }

 leaf clmgmtFeatureIndex {
 type leafref {
 path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
 }
 }
 }
}

```

```

 }
 }

 leaf clmgmtFeatureName {
 type leafref {
 path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureName";
 }
 }
}

container object-2 {

 leaf entPhysicalIndex {
 type leafref {
 path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
 }
 }

 leaf clmgmtFeatureIndex {
 type leafref {
 path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
 }
 }

 leaf clmgmtFeatureVersion {
 type leafref {
 path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureVersion";
 }
 }
}

container object-3 {

 leaf entPhysicalIndex {
 type leafref {
 path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
 }
 }

 leaf clmgmtFeatureIndex {

```

```

 type leafref {
 path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
 }
 }

 leaf clmgmtFeatureEndDate {
 type leafref {
 path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureEndDate";

 }
 }
}

notification clmgmtLicenseEvalRTUTransitionWarning {
 description
 "This notification is sent when Evaluation to Right to use (RTU)
 license transition is about to happen. The first notification
 will be sent 10 days before the transition and second
 notification will be sent 5 days before the transition.";
 smiv2:oid "1.3.6.1.4.1.9.9.543.0.13";

 container object-1 {

 leaf entPhysicalIndex {
 type leafref {
 path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
 }
 }

 leaf clmgmtFeatureIndex {
 type leafref {
 path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
 }
 }

 leaf clmgmtFeatureName {
 type leafref {
 path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureName";
 }
 }
 }
}

```



```

 }
 }
}

container object-2 {

 leaf entPhysicalIndex {
 type leafref {
 path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
 }
 }

 leaf clmgmtFeatureIndex {
 type leafref {
 path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
 }
 }

 leaf clmgmtFeatureVersion {
 type leafref {
 path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureVersion";
 }
 }
}

container object-3 {

 leaf entPhysicalIndex {
 type leafref {
 path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
 }
 }

 leaf clmgmtFeatureIndex {
 type leafref {
 path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
 }
 }

 leaf clmgmtFeatureValidityPeriodRemaining {

```

```

 type leafref {
 path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureValidityPeriodRemaining";
 }
 }
}

```

```

notification clmgmtLicenseEvalRTUTransition {
 description
 "This notification is sent, when a feature license transitions
 from a evaluation to a
 Right to use (RTU) license.";
 smiv2:oid "1.3.6.1.4.1.9.9.543.0.14";
}

```

```

container object-1 {

 leaf entPhysicalIndex {
 type leafref {
 path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
 }
 }

 leaf clmgmtFeatureIndex {
 type leafref {
 path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
 }
 }
}

```

```

 leaf clmgmtFeatureName {
 type leafref {
 path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureName";
 }
 }
}

```

```

container object-2 {

 leaf entPhysicalIndex {
 type leafref {
 path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
 }
 }
}

```

```

 }
}

leaf clmgmtFeatureIndex {
 type leafref {
 path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
 }
}

leaf clmgmtFeatureVersion {
 type leafref {
 path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureVersion";
 }
}
}

smiv2:alias "ciscoLicenseMgmtMIB" {
 smiv2:oid "1.3.6.1.4.1.9.9.543";
}

smiv2:alias "ciscoLicenseMgmtMIBNotifs" {
 smiv2:oid "1.3.6.1.4.1.9.9.543.0";
}

smiv2:alias "ciscoLicenseMgmtMIBObjects" {
 smiv2:oid "1.3.6.1.4.1.9.9.543.1";
}

smiv2:alias "clmgmtLicenseConfiguration" {
 smiv2:oid "1.3.6.1.4.1.9.9.543.1.1";
}

smiv2:alias "clmgmtLicenseInformation" {
 smiv2:oid "1.3.6.1.4.1.9.9.543.1.2";
}

smiv2:alias "clmgmtLicenseDeviceInformation" {
 smiv2:oid "1.3.6.1.4.1.9.9.543.1.3";
}

smiv2:alias "clmgmtLicenseNotifObjects" {
 smiv2:oid "1.3.6.1.4.1.9.9.543.1.4";
}
}

```

```

smiv2:alias "ciscoLicenseMgmtMIBConform" {
 smiv2:oid "1.3.6.1.4.1.9.9.543.2";
}

smiv2:alias "ciscoLicenseMgmtCompliances" {
 smiv2:oid "1.3.6.1.4.1.9.9.543.2.1";
}

smiv2:alias "ciscoLicenseMgmtGroups" {
 smiv2:oid "1.3.6.1.4.1.9.9.543.2.2";
}

}
-- *****
-- CISCO-IMAGE-LICENSE-MGMT-MIB.my: Cisco MIB to manage image level on
-- Cisco devices.
--
-- August 2007, Ganesan Rajam
--
-- Copyright (c) 2006-2007 by Cisco Systems Inc.
-- All rights reserved.
--
-- *****

```

CISCO-IMAGE-LICENSE-MGMT-MIB DEFINITIONS ::= BEGIN

#### IMPORTS

```

OBJECT-TYPE,
MODULE-IDENTITY,
Unsigned32,
NOTIFICATION-TYPE
 FROM SNMPv2-SMI
MODULE-COMPLIANCE,
OBJECT-GROUP,
NOTIFICATION-GROUP
 FROM SNMPv2-CONF
TEXTUAL-CONVENTION,
TruthValue
 FROM SNMPv2-TC
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 explains some use-cases of image level licensing:

Scenario 1:

- Customer selects advsecurityk9 based image.
- Manufacturing installs advsecurity license on the device.
- This device will run all features that are part of the base advsecurity license.
- Customer upgrades to 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 advipservices license.
- No upgrades available for advipservices license.

The user has to accept the End User License Agreement(EULA) before using this MIB to configure the image level.

This MIB should be used in conjunction with CISCO-LICENSE-MGMT-MIB module to achieve the image level licensing functionality.

This MIB module defines objects which provides the different image levels supported by the device and the license required to enable a particular image level. It also defines objects to let the user configure the required image level. The MIB module contains notification which will be triggered when the user changes the image level for next boot.

The CISCO-LICENSE-MGMT-MIB module should be used to export the EULA and to configure the required license.

This MIB module is defined generically so it can be used for both stand-alone as well as stackable devices. The

entPhysicalIndex imported from ENTITY-MIB is used to identify the device uniquely."

REVISION "200710160000Z"

DESCRIPTION

"Initial version of this MIB module."

::= { ciscoMgmt 640 }

ciscoImageLicenseMgmtMIBNotifs OBJECT IDENTIFIER

::= { ciscoImageLicenseMgmtMIB 0 }

ciscoImageLicenseMgmtMIBObjects OBJECT IDENTIFIER

::= { ciscoImageLicenseMgmtMIB 1 }

ciscoImageLicenseMgmtMIBConform OBJECT IDENTIFIER

::= { ciscoImageLicenseMgmtMIB 2 }

BootImageLevel ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"This textual convention is used to define the image level.

If the device is running at advipservices image level, then the boot image level will be 'advipservices'."

SYNTAX OCTET STRING (SIZE (0..255))

LicenseNameList ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"This textual convention is used to define the list of license names.

If multiple licenses

are present then this string will contain all the licenses separated by the ',' character.

If the license required to run a device at advipservices image level is advipservices and advsecurity, then the license name list will be 'advipservices,advsecurity'."

SYNTAX OCTET STRING (SIZE (0..255))

-- Table for executing license management actions.

cilmBootImageLevelTable OBJECT-TYPE

SYNTAX SEQUENCE OF CilmBootImageLevelEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A table that contains the configuration information of current and next boot image level. This table contains entries for each software module running in an image loaded in the device. The software module is identified by cilmModuleName and the device is identified by entPhysicalIndex."

::= { ciscoImageLicenseMgmtMIBObjects 1 }

cilmBootImageLevelEntry

OBJECT-TYPE

SYNTAX CilmBootImageLevelEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry in the table for each module containing the list of objects that define the configuration of next boot level. The following information is specified by the objects present in the table.

- Current image level.
- Configured image level for the next boot.

- Actual image level for the next boot.
- License store index for the current license.
- License index of the current license.
- License store index for the next boot license.
- License index of the next boot license."

```
INDEX {
 entPhysicalIndex,
 cilmModuleName
 }
 ::= { cilmBootImageLevelTable 1 }
```

```
CilmBootImageLevelEntry ::= SEQUENCE {
 cilmModuleName SnmpAdminString,
 cilmCurrentImageLevel
 BootImageLevel,
 cilmConfiguredBootImageLevel BootImageLevel,
 cilmNextBootImageLevel BootImageLevel,
 cilmCurrentLicenseStoreIndex Unsigned32,
 cilmCurrentLicenseIndex Unsigned32,
 cilmNextBootLicenseStoreIndex Unsigned32,
 cilmNextBootLicenseIndex Unsigned32
}
```

cilmModuleName OBJECT-TYPE

```
SYNTAX SnmpAdminString
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
```

"This object is used as one of the two indices in cilmBootImageLevelTable. This object indicates the module name of the software package. There can be multiple modules in an image performing specific functionality. For example, in a wireless image there can be two modules - a base image module and a wireless module."

```
::= { cilmBootImageLevelEntry 1 }
```

cilmCurrentImageLevel OBJECT-TYPE

```
SYNTAX BootImageLevel
MAX-ACCESS read-only
STATUS
 current
```

DESCRIPTION

"This object indicates the current image level that the module is running."

```
::= { cilmBootImageLevelEntry 2 }
```

cilmConfiguredBootImageLevel OBJECT-TYPE

```
SYNTAX BootImageLevel
```



MAX-ACCESS read-write

STATUS current

DESCRIPTION

"This object indicates the configured image level of the module for the next boot.

Note: The configured next boot image level may not be the actual next boot image level. The actual next boot image level is denoted by cilmNextBootImageLevel which is determined based on the license availability."

::= { cilmBootImageLevelEntry 3 }

cilmNextBootImageLevel OBJECT-TYPE

SYNTAX BootImageLevel

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the next boot image level. The next boot image level can be different from configured level. The next boot

image level is determined based

on the availability of required license."

::= { cilmBootImageLevelEntry 4 }

cilmCurrentLicenseStoreIndex OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the license store index where the currently used license is stored. This object has the same value as clmgmtLicenseStoreIndex object and uniquely identifies an entry in clmgmtLicenseStoreInfoTable in CISCO-LICENSE-MGMT-MIB.

Note: The license store index can be '0' if no license is installed and device is running base image."

::= { cilmBootImageLevelEntry 5 }

cilmCurrentLicenseIndex OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the license index of the currently used license. This object has the same value as clmgmtLicenseIndex

and

uniquely identifies an entry in clmgmtLicenseInfoTable in

## CISCO-LICENSE-MGMT-MIB.

Note: The license index can be '0' if no license is installed and device is running base image."

::= { cilmBootImageLevelEntry 6 }

### cilmNextBootLicenseStoreIndex OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-only

STATUS current

#### DESCRIPTION

"This object indicates the license store index where the next boot license is stored. This object has the same value as clmgmtLicenseStoreIndex object and uniquely identifies an entry in clmgmtLicenseStoreInfoTable in CISCO-LICENSE-MGMT-MIB.

Note: The license store index can be '0' if no license is installed for the next boot."

::= { cilmBootImageLevelEntry 7 }

### cilmNextBootLicenseIndex OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-only

STATUS current

#### DESCRIPTION

"This object indicates the license index of the next boot license. This object has the same value as clmgmtLicenseIndex and uniquely identifies an entry in clmgmtLicenseInfoTable in CISCO-LICENSE-MGMT-MIB.

Note: The license index can be '0' if no license is installed for the next boot."

::= { cilmBootImageLevelEntry 8 }

### cilmImageLevelToLicenseMapTable OBJECT-TYPE

SYNTAX SEQUENCE OF CilmImageLevelToLicenseMapEntry

MAX-ACCESS not-accessible

STATUS current

#### DESCRIPTION

"This table contains the mapping between different image levels of each modules in the image and the license required to run the modules at a particular image level. This table can be used to identify the different image levels and the appropriate licenses

required for each."

```
::= { ciscoImageLicenseMgmtMIBObjects 2 }
```

cilmImageLevelToLicenseMapEntry OBJECT-TYPE

SYNTAX CilmImageLevelToLicenseMapEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry in the table containing the following information.

- The image levels at the which the modules can be run.
- The license required to the run a module at a particular image level.
- The priority of the license."

```
INDEX {
 entPhysicalIndex,
 cilmModuleName,
 cilmImageLicenseMapIndex
}
```

```
::= { cilmImageLevelToLicenseMapTable 1 }
```

CilmImageLevelToLicenseMapEntry ::= SEQUENCE {

```
 cilmImageLicenseMapIndex Unsigned32,
 cilmImageLicenseImageLevel BootImageLevel,
 cilmImageLicenseName LicenseNameList,
 cilmImageLicensePriority Unsigned32
```

}

cilmImageLicenseMapIndex OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This is a running index used to identify an entry of this table."

```
::= { cilmImageLevelToLicenseMapEntry 1 }
```

cilmImageLicenseImageLevel OBJECT-TYPE

SYNTAX BootImageLevel

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the image level at which a module can be run. A module can be run at different image levels. An entry will be created in this table for every module and image level combination."

```
::= { cilmImageLevelToLicenseMapEntry 2 }
```

cilmImageLicenseName OBJECT-TYPE

SYNTAX LicenseNameList

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the list of licenses needed to be installed for the module to run at the image level mentioned by cilmImageLicenseImageLevel object of this entry."

```
::= { cilmImageLevelToLicenseMapEntry 3 }
```

cilmImageLicensePriority OBJECT-TYPE

SYNTAX Unsigned32

(1..255)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the priority of the image level mentioned by cilmImageLicenseImageLevel object of this entry. The image level with the highest priority license will be considered as the default level in the absence of next boot image level configuration. For example if there are three licenses l1, l2 and l3 in the ascending order of priority, then by default l1 will be the level at which the module will be running. If the next boot level is configured then the configuration will override the priority. The highest priority license supports a feature set which is a super set of all other licenses."

```
::= { cilmImageLevelToLicenseMapEntry 4 }
```

-- Global Objects

cilmEULAAccepted OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"This object when set to TRUE means that the user has accepted the END USER LICENSE AGREEMENT. This object has to be set to TRUE by the user before using the objects in the cilmBootImageLevelTable to configure the license."

```
DEFVAL { false }
```

```

 ::= { ciscoImageLicenseMgmtMIBObjects 3 }
-- Notification control

cilmNotifCntl OBJECT IDENTIFIER
 ::= { ciscoImageLicenseMgmtMIBObjects 4 }

cilmImageLevelChangedNotif OBJECT-TYPE
SYNTAX TruthValue
MAX-ACCESS read-write
STATUS current
DESCRIPTION
 "Specify whether or not a notification should be
 generated on the detection of change in next boot
 image level.

 If set to TRUE, cilmBootImageLevelChanged notification
 will be generated. It is the responsibility of the
 management entity to ensure that the SNMP administrative
 model is configured in such a way as to allow the
 notification to be delivered."
REFERENCE
 "See also RFC3413 for explanation that notifications
 are under the ultimate control of the MIB module in
 this document."
DEFVAL { false }
 ::= { cilmNotifCntl 1 }

-- Notifications

cilmBootImageLevelChanged NOTIFICATION-TYPE
OBJECTS {
 cilmCurrentImageLevel,
 cilmConfiguredBootImageLevel
 }
STATUS current
DESCRIPTION
 "This notification is triggered when next boot image level
 is changed in the management entity. The current and
 configured image level are indicated by cilmCurrentImageLevel
 and cilmConfiguredBootImageLevel objects respectively."
 ::= { ciscoImageLicenseMgmtMIBNotifs 1 }
-- Conformance

cilmModuleCompliances OBJECT IDENTIFIER
 ::= { ciscoImageLicenseMgmtMIBConform 1 }

cilmModuleGroups OBJECT IDENTIFIER

```

```
::= { ciscoImageLicenseMgmtMIBConform 2 }
```

```
cilmModuleCompliance MODULE-COMPLIANCE
```

```
STATUS current
```

```
DESCRIPTION
```

```
"Compliance statement for Cisco Image level license mgmt MIB."
```

```
MODULE -- this module
```

```
MANDATORY-GROUPS {
```

```
 cilmAdminGroup,
```

```
 cilmNotifGroup
```

```
}
```

```
GROUP cilmOperGroup
```

```
DESCRIPTION
```

```
"This group is mandatory for all devices where
multiple license are supported."
```

```
::= { cilmModuleCompliances 1 }
```

```
-- Units of Conformance
```

```
cilmAdminGroup OBJECT-GROUP
```

```
OBJECTS {
```

```
 cilmCurrentImageLevel,
```

```
 cilmConfiguredBootImageLevel,
```

```
 cilmNextBootImageLevel,
```

```
 cilmCurrentLicenseStoreIndex,
```

```
 cilmCurrentLicenseIndex,
```

```
 cilmNextBootLicenseStoreIndex,
```

```
 cilmNextBootLicenseIndex,
```

```
 cilmEULAAccepted,
```

```
 cilmImageLevelChangedNotif
```

```
}
```

```
STATUS current
```

```
DESCRIPTION
```

```
"Objects for performing license set operation for setting
next boot level."
```

```
::= { cilmModuleGroups 1 }
```

```
cilmOperGroup OBJECT-GROUP
```

```
OBJECTS {
```

```
 cilmImageLicenseImageLevel,
```

```
 cilmImageLicenseName,
```

```
 cilmImageLicensePriority
```

```
}
```

```
STATUS current
```

```
DESCRIPTION
```

```

 "Objects for getting current image level configuration data."
 ::= { cilmModuleGroups 2 }

cilmNotifGroup NOTIFICATION-GROUP
NOTIFICATIONS { cilmBootImageLevelChanged }
STATUS current
DESCRIPTION
 "Objects for getting current image level configuration data."
 ::= { cilmModuleGroups 3 }

END
-- *****
-- CISCO-LICENSE-MGMT-MIB.my: Cisco MIB to manage licenses on
-- Cisco devices
--
-- July 2006, Sunil Gudurvalmiki
--
-- Copyright (c) 2006, 2008, 2011-2012 by Cisco Systems Inc.
-- All rights reserved.
--
-- *****

CISCO-LICENSE-MGMT-MIB DEFINITIONS ::= BEGIN

IMPORTS
 OBJECT-TYPE,
 MODULE-IDENTITY,
 Unsigned32,
 NOTIFICATION-TYPE
 FROM SNMPv2-SMI
 MODULE-COMPLIANCE,
 OBJECT-GROUP,
 NOTIFICATION-GROUP
 FROM SNMPv2-CONF
 TEXTUAL-CONVENTION,
 TruthValue,
 RowStatus,
 StorageType,
 DateAndTime
 FROM SNMPv2-TC
 SnmpAdminString
 FROM SNMP-FRAMEWORK-MIB
 entPhysicalIndex,
 PhysicalIndexOrZero
 FROM ENTITY-MIB
 InetAddressType,
 InetAddress
 FROM INET-ADDRESS-MIB

```

ciscoMgmt  
FROM CISCO-SMI;

ciscoLicenseMgmtMIB MODULE-IDENTITY

LAST-UPDATED "201204190000Z"

ORGANIZATION "Cisco Systems Inc."

CONTACT-INFO

"Cisco Systems  
Customer Service

Postal: 170 W Tasman Drive

San Jose, CA 95134

USA

Tel: +1 800 553 -NETS

E-mail: cs-snmp@cisco.com"

DESCRIPTION

"The MIB module for managing licenses on the system.  
The licensing mechanism provides flexibility to  
enforce licensing for various features in the system.

The following text introduces different concepts and  
terms those are necessary to understand the MIB definition  
and to perform license management.

UDI

Universal Device Identifier that uniquely identifies a  
device. It comprises of product ID, version ID and serial  
number of the device.

NODE LOCKED LICENSE:

Node locked licenses are locked to one of the device  
identifiers in the system. For example, the license  
can be locked to the UDI value of one of the devices  
in the system. Locking a license to an UDI guarantees  
that the license will not be moved to a device with a  
different UDI.

NON-NODE LOCKED LICENSE:

Non-node locked licenses are not locked to any device  
identifier. They can be used on other similar devices.

METERED LICENSE:

Metered licenses are valid for limited period of time



and they expire after that. This period is the usage period of a license and it is not based on real time clock, but system clock.

#### EULA:

End User License Agreement.

#### EVALUATION LICENSE:

Evaluation licenses are non-node locked metered licenses which are valid only for a limited period.

They are used only when there are no permanent, extension or grace period licenses for a feature.

User

will have to accept EULA (End User License Agreement) before using an evaluation license. Even though they are not node locked, their usage is recorded on the device.

#### RIGHT TO USE (RTU) LICENSE:

Right to use license is a non-node locked metered license which is in evaluation mode for a limited time after which it is converted to Right To Use (RTU) license and is valid for the lifetime of the product.

User will have to accept EULA (End User License Agreement) before using this license. Even though it is not node locked, usage information is recorded on the device.

#### EXTENSION LICENSE:

Extension licenses are node locked metered licenses.

These licenses are issued by Cisco's licensing portal.

These licenses need to be installed using management interfaces on the device. User will have to accept an

EULA as part of installation of extension license.

#### GRACE PERIOD LICENSE:

Grace period licenses are node locked metered licenses.

These licenses are issued by Cisco's licensing portal as part of the permission ticket to rehost a license.

These licenses are installed on the device as part of the rehost operation. User will have to accept an EULA as part of the rehost operation for this type of license. Details on permission ticket, rehost operations are provided further down in this description clause.

#### PERMANENT LICENSE:

Permanent licenses are node locked licenses that have

no usage period associated with them. These licenses are issued by Cisco's licensing portal. These licenses need to be installed using management interfaces on the device. Once these licenses are installed, they will provide needed permission for the feature/image across different versions.

#### COUNTED LICENSE:

Counted licenses limit the number of similar entities that can use the license. For example, a counted license when used by a feature can limit the number of IP phones that can connect or the number of tunnels that can be created.

#### UNCOUNTED LICENSE:

Uncounted licenses do not limit the number of similar entities that can use the licenses.

License can be enforced at the image level or at the feature level and this MIB module supports both.

#### IMAGE LEVEL LICENSING:

A universal image that contains all levels of software packages is loaded on to the device. At boot time, the device determines the highest level of license and brings up the appropriate software features or subsystems.

#### FEATURE LEVEL LICENSING:

Feature level licensing will support enforcement of license at individual feature. Features have to check for their licenses before enabling themselves. If it does not have a license, the feature should disable itself.

There is a one-to-one relationship between a feature and a license. That is, a feature can use only one license at a time and a license can be used by only one feature at a time.

#### LICENSE LINE:

A License line is an atomic set of ASCII characters arranged in a particular format that holds the license for a single feature within it. A line has all the necessary fields and attributes that make it a valid, non-tamper able and complete license.

#### LICENSE FILE:

File generated by Cisco licensing portal. It is used to install license on product. It has a user readable part and it contains one or more license lines.

#### DEVICE CREDENTIALS:

Device credentials file is a document that is generated by a licensed device. This document establishes the identity of the device and proves that the sender/user has/had authorized access to the device.

#### REHOST:

Rehost operation allows a node locked license that is installed on a device to be installed on other similar device. As part of rehost operation, a device processes the permission ticket, revokes the license(s) on the device and generates a rehost ticket as the proof of revocation. This rehost ticket needs to be presented to the Cisco's licensing portal to get the license transferred on to a new similar device.

#### PERMISSION TICKET:

Permission ticket is a document generated by Cisco licensing portal that allows a device to rehost its licenses.

#### REHOST TICKET:

Rehost ticket is document generated by a device after it has applied a permission ticket. The rehost ticket is a proof of revocation.

#### LICENSING PORTAL:

Generates licenses, permission tickets and verifies device credentials and rehost tickets.

This MIB module provides MIB objects to install, clear, revoke licenses. It also provides objects to regenerate last rehost ticket, backup all the licenses installed on a device, generate & export EULA for licenses.

#### STEPS TO INSTALL A LICENSE:

- To install a license, the management application
1. Retrieves device credentials of the device.
  2. Communicates with Cisco's licensing portal to get the license file, uses device credentials to identify the device
  3. Executes the license install action.

#### STEPS TO CLEAR A LICENSE:

To clear a license, the management application

1. Identifies the license to be cleared using license index.
2. Executes the license clear action.

#### STEPS TO REHOST A LICENSE:

To rehost a license, the management application

1. Retrieves device credentials of the device.
2. Communicates with Cisco's licensing portal to get the permission ticket, uses device credentials to identify the device.
3. Executes the processPermissionTicket action. Device revokes the license and generates rehost ticket to be submitted as proof of revocation.
4. Retrieves device credentials of the device where the license needs to be transferred to.
5. Submits rehost ticket as proof of revocation to Cisco's licensing portal, uses device credentials of

the new device to identify the device, gets license file.

6. Executes the license install action on the new device.

#### STEPS TO REGENERATE LAST REHOST TICKET:

To regenerate last rehost ticket, the management application

1. Retrieves device credentials of the device.
2. Uses already obtained permission ticket or communicates with Cisco's licensing portal to get the permission ticket, uses device credentials to identify the device.
3. Executes the regenerateLastRehostTicket action. Device generates rehost ticket to be submitted as proof of revocation.

#### STEPS TO BACKUP ALL LICENSES:

To backup all licenses installed in the device, the management application

1. Specifies the backup file path.
2. Executes the license backup action.

#### STEPS TO GENERATE & EXPORT EULA:

To install certain kind of licenses, the management application must accept EULA first. The management

application can generate and export EULA for one or more licenses with out installing licenses as follows.

1. Specifies the license file path that has licenses to be installed
2. Specifies the EULA file path where EULA need to be exported to
3. Executes the generate EULA action.

To support the various license actions, this MIB module also defines MIB objects to know if a device supports licensing, retrieve device credentials, retrieve information on license stores in the device.

It also defines MIB objects to expose management information associated with the licenses installed on the device, with the licensable features in the software image.

This MIB module also defines various notifications that will be triggered to asynchronously notify the management application of any critical events.

This MIB module is defined generically so it can be implemented on stand alone devices or stack of devices. In stack of devices, one device in the stack acts as master agent and rest are slave agents. Each device in the stack has its own UDI. The master agent receives requests on behalf of all the devices in the stack including itself and delegates it to other devices as needed. It also collects responses from other devices and sends them to the management application. Examples of such devices include stackable switches, devices with route processor and line cards. On the other hand, stand alone device is a single device and has only one UDI associated with it.

entPhysicalIndex imported from ENTITY-MIB is used to identify the device uniquely. It is specified as the index

or one of the index for tables in this MIB as needed."

REVISION "201204190000Z"

DESCRIPTION

"This version of the MIB adds support for Permanent Right to use (RTU) licensing. The revisions are:

- o Updated clmgmtLicenseType object to support the following new types of license:  
permanentRightToUse

The new module compliance is ciscoLicenseMgmtComplianceRev1."

REVISION "201104190000Z"

DESCRIPTION

"This version of the MIB adds support for Right to use (RTU) licensing. The revisions are:

- o Added RTU license definition to MIB description above.
- o Updated clmgmtLicenseType object to support the following new types of license:
  - evalRightToUse
  - rightToUse
- o Added following objects to clmgmtLicenseInfoTable
  - clmgmtLicensePeriodUsed
- o Added following objects to clmgmtLicensableFeatureTable
  - clmgmtFeaturePeriodUsed
- o Added the following notifications
  - clmgmtLicenseEvalRTUTransitionWarning
  - clmgmtLicenseEvalRTUTransition
- o Added the following conformance groups
  - clmgmtLicenseRTUGroup
  - clmgmtLicenseRTUUsageNotifGroup

The new module compliance is ciscoLicenseMgmtComplianceRev1."

REVISION "200811210000Z"

DESCRIPTION

"This version of the MIB adds support for subscription licensing. Subscription licenses provide software enforcement for a licensed feature for a fixed calendar period. The revisions are:

- o Updated clmgmtLicenseType object to support the following three new types of licenses:
  - paidSubscription
  - evaluationSubscription
  - extensionSubscription
- o Added following objects to clmgmtLicenseInfoTable
  - clmgmtLicenseStartDate
  - clmgmtLicenseEndDate
- o Added following objects to clmgmtLicensableFeatureTable
  - clmgmtFeatureStartDate
  - clmgmtFeatureEndDate
- o Added the following notifications
  - clmgmtLicenseSubscriptionExpiryWarning
  - clmgmtLicenseSubscriptionExtExpiryWarning
  - clmgmtLicenseSubscriptionExpired
- o Added the following conformance groups
  - clmgmtLicenseSubscriptionGroup
  - clmgmtLicenseSubscriptionUsageNotifGroup

The new module compliance is ciscoLicenseMgmtComplianceRev1."

REVISION "200610030000Z"  
DESCRIPTION  
"Initial version of this MIB module."  
 ::= { ciscoMgmt 543 }

ciscoLicenseMgmtMIBNotifs OBJECT IDENTIFIER  
 ::= { ciscoLicenseMgmtMIB 0 }

ciscoLicenseMgmtMIBObjects OBJECT IDENTIFIER  
 ::= { ciscoLicenseMgmtMIB 1 }

ciscoLicenseMgmtMIBConform OBJECT IDENTIFIER  
 ::= { ciscoLicenseMgmtMIB 2 }

clmgmtLicenseConfiguration OBJECT IDENTIFIER  
 ::= { ciscoLicenseMgmtMIBObjects 1 }

clmgmtLicenseInformation  
OBJECT IDENTIFIER  
 ::= { ciscoLicenseMgmtMIBObjects 2 }

clmgmtLicenseDeviceInformation OBJECT IDENTIFIER  
 ::= { ciscoLicenseMgmtMIBObjects 3 }

clmgmtLicenseNotifObjects OBJECT IDENTIFIER  
 ::= { ciscoLicenseMgmtMIBObjects 4 }

ClmgmtLicenseIndex ::= TEXTUAL-CONVENTION  
STATUS current  
DESCRIPTION  
"A unique value, for each license in the managed system.  
It is not necessary to have values assigned contiguously.  
The value for each license must remain constant  
at least from one re-initialization of the entity's  
network management system to the next re-initialization"  
SYNTAX Unsigned32 (1..4294967295)

ClmgmtLicenseIndexOrZero ::= TEXTUAL-CONVENTION  
STATUS current  
DESCRIPTION  
"This textual convention is an extension of the ClmgmtLicenseIndex  
convention. The latter defines a greater than zero value  
used to identify a license in the managed system.  
This  
extension permits the additional value of zero. The value  
zero is object-specific and must therefore be defined as

part of the description of any object which uses this syntax. Examples of the usage of zero might include situations where license was not present or unknown."

SYNTAX      Unsigned32

ClmgmtLicenseTransferProtocol ::= TEXTUAL-CONVENTION

STATUS      current

DESCRIPTION

"The transfer protocol that should be used for copying files when performing license management. When the protocol is set to local(2), local file system (flash or disk) is used. Different agents may support different transfer protocols and the management application is expected to some how determine which protocol is supported and use."

SYNTAX      INTEGER {  
              none(1),  
              local(2),  
              tftp(3),  
              ftp(4),  
              rcp(5),  
              http(6),  
              scp(7),  
              sftp(8)  
              }

ClmgmtLicenseActionState ::= TEXTUAL-CONVENTION

STATUS      current

DESCRIPTION

"The state of license action execution.

- none(1)            - action is not yet scheduled to be executed.
  
- pending(2)        - All the required parameters for the action are set and the action is scheduled to be executed.
  
- inProgress(3)    - action execution has started and is in progress.
  
- successful(4)    - action has completed successfully.
  
- partiallySuccessful(5) - action has completed, but was partially successful. Management application can query additional MIB objects to know what is successful and what has failed. These additional



objects are listed in the description of the corresponding action tables.

failed(6) - action has failed."

```
SYNTAX INTEGER {
 none(1),
 pending(2),
 inProgress(3),
 successful(4),
 partiallySuccessful(5),
 failed(6)
}
```

ClmgmtLicenseActionFailCause ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"Reason for license action failure. Defines error codes for all the license actions.

none(1) - action execution has not started yet. If the action is completed and the action is successful, then also none(1) is returned to indicate that there are no errors.

generalFailure(2) - General licensing failure. This will be used for resource unavailability failures. Ex: Lack of memory.

transferProtocolNotSupported(3) - protocol selected is not supported.

fileServerNotReachable(4) - file server is not reachable.

unrecognizedEntPhysicalIndex(5) - entPhysicalIndex is not valid

invalidLicenseFilePath(6) - The license file path is not accessible.

invalidLicenseFile(7) - Contents of license file are not valid.

invalidLicenseLine(8) - License string in the license file is not valid.

licenseAlreadyExists(9) - Management application is trying to install a license that already exists.

licenseNotValidForDevice(10) - This license is not valid for

the device/entPhysicalIndex specified.

invalidLicenseCount(11) - Invalid count for this counted license.

invalidLicensePeriod(12) - Validity period is invalid for this expiring license.

licenseInUse(13) - License file is in use by a feature/image.

invalidLicenseStore(14) - License store is not valid.

licenseStorageFull(15) - There is no more space in the license storage.

invalidPermissionTicketFile(16) - The permission ticket file path is not accessible.

invalidPermissionTicket(17) - The permission ticket file contents are not valid.

invalidRehostTicketFile(18) - The rehost ticket file path is not accessible.

invalidRehostTicket(19) - The rehost ticket file contents are not valid.

invalidLicenseBackupFile(20) - License backup store path is not accessible.

licenseClearInProgress(21) - When license clear action is in progress, license backup action is not permitted to avoid race conditions. This error code is sent back in response to a license backup action when a license clear action is in progress or in pending state. Try again in few seconds.

invalidLicenseEULAFile(22) - EULA file path is not accessible."

SYNTAX INTEGER {

- none(1),
- generalFailure(2),
- transferProtocolNotSupported(3),
- fileServerNotReachable(4),
- unrecognizedEntPhysicalIndex(5),
- invalidLicenseFilePath(6),
- invalidLicenseFile(7),
- invalidLicenseLine(8),
- licenseAlreadyExists(9),
- licenseNotValidForDevice(10),
- invalidLicenseCount(11),

```

invalidLicensePeriod(12),
 licenseInUse(13),
 invalidLicenseStore(14),
 licenseStorageFull(15),
 invalidPermissionTicketFile(16),
 invalidPermissionTicket(17),
 invalidRehostTicketFile(18),
 invalidRehostTicket(19),
 invalidLicenseBackupFile(20),
 licenseClearInProgress(21),
 invalidLicenseEULAFile(22)
}

```

clmgmtNextFreeLicenseActionIndex OBJECT-TYPE

SYNTAX Unsigned32 (1..4294967295)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object contains appropriate value for clmgmtLicenseActionIndex that can be used to create an entry in clmgmtLicenseActionTable. The management application should read this object first and then use this as the value

for clmgmtLicenseActionIndex to avoid collisions

when creating entries in clmgmtLicenseActionTable.

Following this approach does not guarantee collision free

row creation, but will reduce the probability. The

collision will happen if two management applications read this

object at the same time and attempt to create an entry

with this value at the same time. In this case, the

management application whose request is processed after the first

request will get an error and the process of reading this object

and entry creation needs to be repeated."

::= { clmgmtLicenseConfiguration 1 }

-- Table for executing license management actions.

clmgmtLicenseActionTable OBJECT-TYPE

SYNTAX SEQUENCE OF ClmgmtLicenseActionEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A table for invoking license management actions. Management application must create a row

in this table to trigger any of

the license management actions. The following are different actions that can be executed using this table.

1. install

2. clear

3. processPermissionTicket
4. regenerateLastRehostTicket
5. backup
6. generateEULA

Refer to the description of clmgmtLicenseAction for more information on what these actions do on the device.

Once the request completes, the management application should retrieve the values of the objects of interest, and then delete the entry. In order to prevent old entries from clogging the table, entries will be aged out, but an entry will never be deleted within 5 minutes of completion."

::= { clmgmtLicenseConfiguration 2 }

clmgmtLicenseActionEntry OBJECT-TYPE

SYNTAX ClmgmtLicenseActionEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An

entry for each action that is being executed or was executed recently. The management application executes an action

by creating this entry. This can be done in the following 2 methods

#### 1. CREATE-AND-GO method

Management application sets clmgmtLicenseActionRowStatus to createAndGo(4) and all other required objects to valid values in a single SNMP SET request. If all the values are valid, the device creates the entry and executes the action. If the SET request fails, the entry will not be created.

#### 2. CREATE-AND-WAIT method

Management application sets clmgmtLicenseActionRowStatus to createAndWait(5) to create an entry. Management application can set all other required objects to valid values in more than one SNMP SET request. If SET request for any of the objects fails, management application can set

just only that object. Once all the required objects are set to valid values, management application triggers action execution by setting clmgmtLicenseActionRowStatus to active(1).

To stop the action from being executed, the management application

can delete the entry by setting `clmgmtLicenseActionRowStatus` to `destroy(6)` when `clmgmtLicenseActionState` is `pending(2)`.

The status of action execution can be known by querying `clmgmtLicenseActionState`. If the action is still in `pending(2)` or in `inProgress(3)` state, the management application need to check back again after few seconds. Once the action completes and status of the action is `failed(6)`, the reason for failure can be retrieved from `clmgmtLicenseActionFailCause`. If the status of the action is `partiallySuccessful(5)`, results of individual licenses can be queried from `clmgmtLicenseActionResultTable`.

Not all objects in the entry are needed to execute every action. Below is the list of actions and the required objects that are needed to be set for executing that action.

#### 1. Installing a license

The following MIB objects need to be set for installing a license

- a. `clmgmtLicenseActionTransferProtocol`
- b. `clmgmtLicenseServerAddressType`
- c. `clmgmtLicenseServerAddress`
- d. `clmgmtLicenseServerUsername`
- e. `clmgmtLicenseServerPassword`
- f. `clmgmtLicenseFile`
- g. `clmgmtLicenseStore`
- h. `clmgmtLicenseStopOnFailure`
- i. `clmgmtLicenseAcceptEULA`
- j. `clmgmtLicenseAction`

`clmgmtLicenseActionEntPhysicalIndex` need not be set explicitly for license installs. License itself identifies the device where the license needs to be installed.

`clmgmtLicenseStore` need to be set to store the licenses in a non-default license store. But, if a license file has more than one license and licenses need to be installed on multiple devices (for example to multiple members with in a stack), then value of `clmgmtLicenseStore` is ignored and the licenses will be installed in default license stores of the respective devices.

#### 2. Clearing a license

The following MIB objects need to be set for clearing a license

- a. clmgmtLicenseActionEntPhysicalIndex
- b. clmgmtLicenseActionLicenseIndex
- c. clmgmtLicenseStore
- d. clmgmtLicenseAction

### 3. Revoking a license

The following MIB objects need to be set for revoking a license

- a. clmgmtLicenseActionTransferProtocol
- b. clmgmtLicenseServerAddressType
- c. clmgmtLicenseServerAddress
- d. clmgmtLicenseServerUsername
- e. clmgmtLicenseServerPassword
- f. clmgmtLicensePermissionTicketFile
- g. clmgmtLicenseRehostTicketFile
- h. clmgmtLicenseStopOnFailure
- i. clmgmtLicenseAction

### 4. Regenerate last rehost ticket

The following MIB objects need to be set for regenerating last rehost ticket

- a. clmgmtLicenseActionTransferProtocol
- b. clmgmtLicenseServerAddressType
- c. clmgmtLicenseServerAddress
- d. clmgmtLicenseServerUsername
- e. clmgmtLicenseServerPassword
- f. clmgmtLicensePermissionTicketFile
- g. clmgmtLicenseRehostTicketFile
- h. clmgmtLicenseStopOnFailure
- i. clmgmtLicenseAction

### 5. Save all licenses to a backup storage

The following MIB objects need to be set for storing all licenses to a backup store

- a. clmgmtLicenseActionEntPhysicalIndex
- b. clmgmtLicenseActionTransferProtocol
- c. clmgmtLicenseServerAddressType
- d. clmgmtLicenseServerAddress
- e. clmgmtLicenseServerUsername
- f. clmgmtLicenseServerPassword
- g. clmgmtLicenseBackupFile
- h. clmgmtLicenseAction

### 6. Generate and export EULA if the licenses need EULA to be accepted for installing.

The following MIB objects need to be set exporting required EULAs

- a. clmgmtLicenseActionTransferProtocol
- b. clmgmtLicenseServerAddressType
- c. clmgmtLicenseServerAddress
- d. clmgmtLicenseServerUsername
- e. clmgmtLicenseServerPassword
- f. clmgmtLicenseFile
- g. clmgmtLicenseEULAFile
- h. clmgmtLicenseAction

For any action, if clmgmtLicenseActionTransferProtocol is set to local(2), the following objects need not be set.

- a. clmgmtLicenseServerAddressType
- b. clmgmtLicenseServerAddress
- c. clmgmtLicenseServerUsername
- d. clmgmtLicenseServerPassword

Entry can be deleted except when clmgmtLicenseAction is set to pending(2). All entries are volatile and are cleared on agent reset."

```
INDEX { clmgmtLicenseActionIndex }
::= { clmgmtLicenseActionTable 1 }
```

```
ClmgmtLicenseActionEntry ::= SEQUENCE {
 clmgmtLicenseActionIndex Unsigned32,
 clmgmtLicenseActionEntPhysicalIndex PhysicalIndexOrZero,
 clmgmtLicenseActionTransferProtocol ClmgmtLicenseTransferProtocol,
 clmgmtLicenseServerAddressType InetAddressType,
 clmgmtLicenseServerAddress InetAddress,
 clmgmtLicenseServerUsername SnmpAdminString,
 clmgmtLicenseServerPassword SnmpAdminString,
 clmgmtLicenseFile SnmpAdminString,
 clmgmtLicenseStore Unsigned32,
 clmgmtLicenseActionLicenseIndex
 ClmgmtLicenseIndexOrZero,
 clmgmtLicensePermissionTicketFile SnmpAdminString,
 clmgmtLicenseRehostTicketFile SnmpAdminString,
 clmgmtLicenseBackupFile SnmpAdminString,
 clmgmtLicenseStopOnFailure TruthValue,
 clmgmtLicenseAction INTEGER,
 clmgmtLicenseActionState ClmgmtLicenseActionState,
 clmgmtLicenseJobQPosition Unsigned32,
 clmgmtLicenseActionFailCause ClmgmtLicenseActionFailCause,
 clmgmtLicenseActionStorageType StorageType,
 clmgmtLicenseActionRowStatus RowStatus,
 clmgmtLicenseAcceptEULA TruthValue,
 clmgmtLicenseEULAFile SnmpAdminString
}
```

clmgmtLicenseActionIndex OBJECT-TYPE

SYNTAX Unsigned32 (1..4294967295)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This object uniquely identifies a row in  
clmgmtLicenseActionTable.

The management application should choose

this value by reading clmgmtNextFreeLicenseActionIndex  
while creating an entry in this table. If an entry already  
exists with this index, the creation of the entry will not  
continue and error will be returned. The management application  
should read the value of clmgmtNextFreeLicenseActionIndex  
again and retry with the new value for this object."

::= { clmgmtLicenseActionEntry 1 }

clmgmtLicenseActionEntPhysicalIndex OBJECT-TYPE

SYNTAX PhysicalIndexOrZero

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object represents the entPhysicalIndex of the device  
where the action is being executed. This object is mainly  
used in devices where one device is acting as a master and  
rest of the devices as slaves. The master device is  
responsible for SNMP communication with the management  
application. Examples

include stackable switches, devices

with route processor and line card configuration. If this  
object is not set, the license action will be executed on  
the master device. Note: This object need not be set if  
there is a stand alone device"

DEFVAL { 0 }

::= { clmgmtLicenseActionEntry 2 }

clmgmtLicenseActionTransferProtocol OBJECT-TYPE

SYNTAX ClmgmtLicenseTransferProtocol

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object represents the transfer protocol to be used  
when copying files as specified in the following objects.

1. clmgmtLicenseFile
2. clmgmtLicensePermissionTicketFile
3. clmgmtLicenseRehostTicketFile
4. clmgmtLicenseBackupFile



Note: This object need not be set if the all the files required for the action are in device's local file system."

DEFVAL { none }  
::= { clmgmtLicenseActionEntry 3 }

clmgmtLicenseServerAddressType

OBJECT-TYPE

SYNTAX InetAddressType

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the transport type of the address contained in clmgmtLicenseServerAddress object. This must be set when clmgmtLicenseActionTransferProtocol is not none(1) or local(2)."

DEFVAL { unknown }  
::= { clmgmtLicenseActionEntry 4 }

clmgmtLicenseServerAddress OBJECT-TYPE

SYNTAX InetAddress

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the ip address of the server from which the files must be read or written to if clmgmtLicenseActionTransferProtocol is not none(1) or local(2).

All bits as 0s or 1s for clmgmtLicenseServerAddress are not allowed.

The format of this address depends on the value of the clmgmtLicenseServerAddressType object"

DEFVAL { "" }  
::= { clmgmtLicenseActionEntry 5 }

clmgmtLicenseServerUsername OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..96))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the remote user name for accessing files via ftp, rcp, sftp or scp protocols. This object must be set when the clmgmtLicenseActionTransferProtocol is ftp(4), rcp(5), scp(7) or sftp(8). If 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 linceses to have a
 start date associated with them, they may only have an end
 date associated with them. This object may be applicable only
 when clmgmtLicenseType is paidSubscription(5),
 evaluationSubscription(6) or extensionSubscription (7).
 The object will contain an octet string of length 0 when it is
 not applicable."
 ::= { clmgmtLicenseInfoEntry 15 }

```

#### clmgmtLicenseEndDate OBJECT-TYPE

```

SYNTAX DateAndTime
MAX-ACCESS read-only
STATUS current
DESCRIPTION

```

"This object indicates the end date for a subscription license. This object is applicable only when clmgmtLicenseType is paidSubscription(5), evaluationSubscription(6) or extensionSubscription (7). The object will contain an octet string of length 0 when it is not applicable."

```
::= { clmgmtLicenseInfoEntry
16 }
```

clmgmtLicensePeriodUsed OBJECT-TYPE

SYNTAX Unsigned32

UNITS "seconds"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the time period used for the Right to use (RTU) licenses. This object is applicable for all RTU licenses."

```
::= { clmgmtLicenseInfoEntry 17 }
```

-- Licensable features information table.

clmgmtLicensableFeatureTable OBJECT-TYPE

SYNTAX SEQUENCE OF ClmgmtLicensableFeatureEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table contains list of licensable features in the image. All the licensable features will have an entry each in this table irrespective of whether they are using any licenses currently. Entries in this table are created by the agent one for each licensable feature in the image. These entries remain in the table permanently and can not

be deleted. Management application can not create or delete entries from this table."

```
::= { clmgmtLicenseInformation 4 }
```

clmgmtLicensableFeatureEntry OBJECT-TYPE

SYNTAX ClmgmtLicensableFeatureEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry in clmgmtLicensableFeatureTable. Each entry represents a licensable feature."

```
INDEX {
entPhysicalIndex,
clmgmtFeatureIndex
```

```
 }
 ::= { clmgmtLicensableFeatureTable 1 }
```

```
ClmgmtLicensableFeatureEntry ::= SEQUENCE {
 clmgmtFeatureIndex Unsigned32,
 clmgmtFeatureName SnmpAdminString,
 clmgmtFeatureVersion SnmpAdminString,
 clmgmtFeatureValidityPeriodRemaining Unsigned32,
 clmgmtFeatureWhatIsCounted SnmpAdminString,
 clmgmtFeatureStartDate DateAndTime,
 clmgmtFeatureEndDate DateAndTime,
 clmgmtFeaturePeriodUsed Unsigned32
}
```

```
clmgmtFeatureIndex OBJECT-TYPE
SYNTAX Unsigned32 (1..4294967295)
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
 "This object uniquely identifies a licensable feature in
 the device."
 ::= { clmgmtLicensableFeatureEntry 1 }
```

```
clmgmtFeatureName OBJECT-TYPE
SYNTAX SnmpAdminString (SIZE (0..128))
MAX-ACCESS read-only
STATUS current
DESCRIPTION
 "This object indicates the name of the licensable feature
 in the device. Examples of feature names are: 'IPBASE',
 'ADVIPSERVICE'"
 ::= { clmgmtLicensableFeatureEntry 2 }
```

```
clmgmtFeatureVersion OBJECT-TYPE
SYNTAX SnmpAdminString (SIZE (0..32))
MAX-ACCESS read-only
STATUS current
DESCRIPTION
 "This object indicates the version of the licensable
 feature in the device. Examples
of feature versions
 are: '1.0' or '2.0'"
 ::= { clmgmtLicensableFeatureEntry 3 }
```

```
clmgmtFeatureValidityPeriodRemaining OBJECT-TYPE
SYNTAX Unsigned32
UNITS "seconds"
```

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the time period remaining before the feature's license expires or transitions. This object is applicable only if clmgmtLicenseType of the license used by this feature is demo(1), or extension(2) or gracePeriod(3) or evalRightToUse(8).

The object will contain 0 if other types of license is used or if the feature does not use any license. If the feature is using multiple licenses, this period will represent the cumulative period remaining from all the licenses used by this feature."

::= { clmgmtLicensableFeatureEntry 4 }

clmgmtFeatureWhatIsCounted OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..128))

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object represents the entity that is being counted by this feature. Examples of entities are IP Phones, number of sessions etc. This object is only applicable for features that use counting licenses. For other features, this object will return empty string."

::= { clmgmtLicensableFeatureEntry 5 }

clmgmtFeatureStartDate OBJECT-TYPE

SYNTAX DateAndTime

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the license start date of the feature. This object is applicable if at least one of the licenses used for this feature has a valid start date. The start date will be the earliest of the valid start dates of all the licenses used for this feature. If none of the licenses used for this feature have a valid start date then this object will contain an

octet string of length 0."

::= { clmgmtLicensableFeatureEntry 6 }

clmgmtFeatureEndDate OBJECT-TYPE

SYNTAX DateAndTime

MAX-ACCESS read-only

STATUS current

## DESCRIPTION

"This object indicates the license end date of the feature.  
This object is applicable if at least one of the licenses used for this feature has a valid end date. The end date will be the latest of the valid end dates of all the licenses used for this feature. If none of the licenses used for this feature have a valid end date then this object will contain an octet string of length 0."

::= { clmgmtLicensableFeatureEntry 7 }

## clmgmtFeaturePeriodUsed OBJECT-TYPE

SYNTAX Unsigned32

UNITS "seconds"

MAX-ACCESS read-only

STATUS current

## DESCRIPTION

"This object indicates the license period used for the feature."

::= { clmgmtLicensableFeatureEntry 8 }

--

MIB objects for exporting device credentials

## clmgmtNextFreeDevCredExportActionIndex OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-only

STATUS current

## DESCRIPTION

"This object contains appropriate value for clmgmtDevCredExportActionIndex that can be used to create an entry in clmgmtDevCredExportActionTable. The management application should read this object first and then use this as the value for clmgmtDevCredExportActionIndex to avoid collisions when creating entries in clmgmtDevCredExportActionTable. Following this approach does not guarantee collision free row creation, but will reduce the probability. The collision will happen if two management applications read this object at the same time and attempt to create an entry with this value at the same time. In this case, the management application whose request is processed after the first request

will get an error and the

process of reading this object and entry creation needs to be repeated."

::= { clmgmtLicenseDeviceInformation 1 }

-- Table for triggering action to export device credentials.

clmgmtDevCredExportActionTable OBJECT-TYPE

SYNTAX SEQUENCE OF ClmgmtDevCredExportActionEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A table for triggering device credentials export action.

Management application must create this entry to trigger the export of device credentials from the device to a file.

Once the request completes, the management application should retrieve the values of the objects of interest, and then delete the entry. In order to prevent old entries from clogging the table, entries will be aged out, but an entry will never be deleted within 5 minutes of completion."

::= { clmgmtLicenseDeviceInformation 2 }

clmgmtDevCredExportActionEntry

OBJECT-TYPE

SYNTAX ClmgmtDevCredExportActionEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry for each device credential export action that is being executed or was executed recently. The management application triggers the export by creating an entry in this table. This can be done in the following 2 methods

#### 1. CREATE-AND-GO method

Management application sets clmgmtDevCredExportActionStatus to createAndGo(4) and all other required objects to valid values in a single SNMP SET request. If all the values are valid, the device creates the entry and executes the action. If the SET request fails, the entry will not be created.

#### 2. CREATE-AND-WAIT method

Management application sets clmgmtDevCredExportActionStatus to createAndWait(5) to create an entry. Management application can set all other required objects to valid values in more than one SNMP SET request. If SET request for any of the objects fails, management application can set just only that object. Once all the required objects are set to valid values, management application triggers action execution by setting clmgmtDevCredExportActionStatus to active(1).

To stop the action from being executed, the management application can delete the entry by setting clmgmtDevCredExportActionStatus to destroy(6) when clmgmtDevCredCommandState is pending(2).

The status of action execution can be known by querying `clmgmtDevCredCommandState`. If the action is still in pending(2) or inProgress(3), the management application need to check back again after few seconds. Once the action completes and if status of the action is failed(6), the reason for failure can be retrieved from `clmgmtDevCredCommandFailCause`.

Entry can be deleted except when `clmgmtLicenseAction` is set to inProgress(3). All entries in this table are volatile and are cleared on agent reset."

```
INDEX { clmgmtDevCredExportActionIndex }
::= { clmgmtDevCredExportActionTable 1 }
```

```
ClmgmtDevCredExportActionEntry ::= SEQUENCE {
 clmgmtDevCredExportActionIndex Unsigned32,
 clmgmtDevCredEntPhysicalIndex PhysicalIndexOrZero,
 clmgmtDevCredTransferProtocol ClmgmtLicenseTransferProtocol,
 clmgmtDevCredServerAddressType InetAddressType,
 clmgmtDevCredServerAddress InetAddress,
 clmgmtDevCredServerUsername SnmpAdminString,
 clmgmtDevCredServerPassword SnmpAdminString,
 clmgmtDevCredExportFile SnmpAdminString,
 clmgmtDevCredCommand INTEGER,
 clmgmtDevCredCommandState ClmgmtLicenseActionState,
 clmgmtDevCredCommandFailCause INTEGER,
 clmgmtDevCredStorageType StorageType,
 clmgmtDevCredRowStatus RowStatus
}
```

`clmgmtDevCredExportActionIndex` OBJECT-TYPE

```
SYNTAX Unsigned32 (1..4294967295)
```

```
MAX-ACCESS not-accessible
```

```
STATUS current
```

DESCRIPTION

"This object uniquely identifies a row in `clmgmtDevCredExportActionTable`. The management application chooses this value by reading `clmgmtNextFreeDevCredExportActionIndex` while creating an entry in this table. If an entry already exists with this index, the creation of the entry will not continue and error will be returned. The management application should read the value of `clmgmtNextFreeDevCredExportActionIndex` again and retry with the new value for this object."

```
::= { clmgmtDevCredExportActionEntry 1 }
```

clmgmtDevCredEntPhysicalIndex OBJECT-TYPE

SYNTAX PhysicalIndexOrZero

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object represents the entPhysicalIndex of the device for which the device credentials are being retrieved. This object is mainly used in devices where one device is acting as a master and rest of the devices as slaves. The master device is responsible for SNMP communication with the manager. Examples include stackable switches, devices with router processor and line cards.

Note: This object need not be set if it is a stand alone device"

DEFVAL { 0 }

::= { clmgmtDevCredExportActionEntry 2 }

clmgmtDevCredTransferProtocol OBJECT-TYPE

SYNTAX ClmgmtLicenseTransferProtocol

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the transfer protocol to be used when copying files as specified in the following objects.

1. clmgmtDevCredExportFile

."

DEFVAL { none }

::= { clmgmtDevCredExportActionEntry  
3 }

clmgmtDevCredServerAddressType OBJECT-TYPE

SYNTAX InetAddressType

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the transport type of the address contained in clmgmtDevCredServerAddress object.

This must be set when clmgmtDevCredTransferProtocol is not none(1) or local(2)."

DEFVAL { unknown }

::= { clmgmtDevCredExportActionEntry 4 }

clmgmtDevCredServerAddress OBJECT-TYPE

SYNTAX InetAddress

MAX-ACCESS read-create

STATUS current

DESCRIPTION



"This object indicates the the ip address of the server from which the files must be read or written to if clmgmtDevCredTransferProtocol is not none(1) or local(2).

All bits as 0s or 1s for clmgmtDevCredServerAddress are not allowed.

The format of this address depends on the value of the clmgmtDevCredServerAddressType

object"

DEFVAL { "" }

::= { clmgmtDevCredExportActionEntry 5 }

clmgmtDevCredServerUsername OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..96))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the remote user name for accessing files via ftp, rcp, sftp or scp protocols. This object must be set when the clmgmtDevCredTransferProtocol is ftp(4), rcp(5), scp(7) or sftp(8). If clmgmtDevCredTransferProtocol is rcp(5), the remote username is sent as the server username in an rcp command request sent by the system to a remote rcp server."

DEFVAL { "" }

::= { clmgmtDevCredExportActionEntry 6 }

clmgmtDevCredServerPassword OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..96))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the password used by ftp, sftp or scp for copying a file to/from an ftp/sftp/scp server.

This object must be set when the clmgmtDevCredTransferProtocol is ftp(4) or scp(7) or sftp(8). Reading it returns a zero-length string for security reasons."

DEFVAL { "" }

::= { clmgmtDevCredExportActionEntry 7 }

clmgmtDevCredExportFile OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..255))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object represents file where device credentials needs to be exported to."

::= { clmgmtDevCredExportActionEntry 8 }

clmgmtDevCredCommand OBJECT-TYPE

SYNTAX INTEGER {  
    noOp(1),  
    getDeviceCredentials(2)  
}

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the the command to be executed.

| Command | Remarks |
|---------|---------|
|---------|---------|

-----

-----

|         |                                 |
|---------|---------------------------------|
| noOp(1) | No operation will be performed. |
|---------|---------------------------------|

|                         |                             |
|-------------------------|-----------------------------|
| getDeviceCredentials(2) | Exports device credentials" |
|-------------------------|-----------------------------|

DEFVAL { noOp }

::= { clmgmtDevCredExportActionEntry 9 }

clmgmtDevCredCommandState OBJECT-TYPE

SYNTAX ClmgmtLicenseActionState

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the state of the action that is executed as a result of setting clmgmtDevCredRowStatus to active(1)."

::= { clmgmtDevCredExportActionEntry 10 }

clmgmtDevCredCommandFailCause OBJECT-TYPE

SYNTAX INTEGER {  
    none(1),  
    unknownError(2),  
    transferProtocolNotSupported(3),  
    fileServerNotReachable(4),  
    unrecognizedEntPhysicalIndex(5),  
    invalidFile(6)

}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the the reason for device

credentials export operation failure.

The value of this object is valid only when  
clmgmtDevCredCommandState is failed(6).

none(1) - action execution has not started yet.

If the action is completed and the  
action is successful, then also  
none(1) is returned to indicate that  
there are no errors.

unknownError(2) - reason for failure is unknown,  
operation failed, no operation is  
performed

transferProtocolNotSupported(3) - clmgmtDevCredTransferProtocol  
given is not supported.

fileServerNotReachable(4) - file server is not reachable.

unrecognizedEntPhysicalIndex(5) - entPhysicalIndex

is not

valid

invalidFile(6) - The target file specified is not valid."

::= { clmgmtDevCredExportActionEntry 11 }

clmgmtDevCredStorageType OBJECT-TYPE

SYNTAX StorageType

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the storage type for this conceptual  
row. Conceptual rows having the value 'permanent' need not  
allow write-access to any columnar objects in the row."

DEFVAL { volatile }

::= { clmgmtDevCredExportActionEntry 12 }

clmgmtDevCredRowStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the the status of this table entry.  
Once the entry status is set to active(1), the associated  
entry cannot be modified until the action completes  
(clmgmtDevCredCommandStatus is set to a value  
other than

inProgress(3)). Once the action completes

the only operation possible after this is to delete  
the row.

clmgmtDevCredExportFile is a mandatory object to be

```
 set when creating this entry."
::= { clmgmtDevCredExportActionEntry 13 }
```

```
-- Objects for enabling/disabling notifications
```

```
clmgmtLicenseUsageNotifEnable OBJECT-TYPE
SYNTAX TruthValue
MAX-ACCESS read-write
STATUS current
DESCRIPTION
 "This object indicates whether the device should generate
 the notifications related to usage of licenses. This object
 enables/disables sending following notifications:
 clmgmtLicenseExpired
 clmgmtLicenseExpiryWarning
 clmgmtLicenseUsageCountExceeded
 clmgmtLicenseUsageCountAboutToExceed
 clmgmtLicenseSubscriptionExpiryWarning
 clmgmtLicenseSubscriptionExtExpiryWarning
 clmgmtLicenseSubscriptionExpired
 clmgmtLicenseEvalRTUTransitionWarning
 clmgmtLicenseEvalRTUTransition"
DEFVAL { true }
::= { clmgmtLicenseNotifObjects 1 }
```

```
clmgmtLicenseDeploymentNotifEnable OBJECT-TYPE
SYNTAX TruthValue
MAX-ACCESS read-write
STATUS current
DESCRIPTION
 "This object indicates whether the device should generate
 notifications related to license deployment. This object
 enables/disables sending following notifications:
 clmgmtLicenseInstalled
 clmgmtLicenseCleared
 clmgmtLicenseRevoked
 clmgmtLicenseEULAAccepted"
DEFVAL { true }
::= { clmgmtLicenseNotifObjects 2 }
```

```
clmgmtLicenseErrorNotifEnable OBJECT-TYPE
SYNTAX TruthValue
MAX-ACCESS read-write
STATUS current
DESCRIPTION
 "This object indicates whether the device should generate
```

notifications related to error conditions in enforcing licensing. This object enables/disables sending following notifications:

```
 clmgmtLicenseNotEnforced"
DEFVAL { true }
::= { clmgmtLicenseNotifObjects 3 }
```

-- Notifications

clmgmtLicenseExpired NOTIFICATION-TYPE

```
OBJECTS {
 clmgmtFeatureName,
 clmgmtFeatureVersion
}
```

STATUS current

DESCRIPTION

"This notification is sent, when a feature license expires. This notification will be sent continuously every week even after the expiry to alert the management application."

```
::= { ciscoLicenseMgmtMIBNotifs 1 }
```

clmgmtLicenseExpiryWarning NOTIFICATION-TYPE

```
OBJECTS {
 clmgmtFeatureName,
 clmgmtFeatureVersion,
 clmgmtFeatureValidityPeriodRemaining
}
```

STATUS current

DESCRIPTION

"This notification is sent when a license is about to

expire. This notification will go out multiple times.

First notification goes out when expiry day is 4 weeks ahead, second notification when expiry day is 3 weeks ahead, third notification when expiry day is 2 weeks ahead. This notification will go out daily in the last week of license expiry."

```
::= { ciscoLicenseMgmtMIBNotifs 2 }
```

clmgmtLicenseUsageCountExceeded NOTIFICATION-TYPE

```
OBJECTS {
 clmgmtLicenseFeatureName,
 clmgmtLicenseFeatureVersion,
 clmgmtLicenseMaxUsageCount,
 clmgmtFeatureWhatIsCounted,
 clmgmtLicenseComments
}
```

```

 }
STATUS current
DESCRIPTION
 "This notification is sent when clmgmtLicenseUsageCountRemaining
 has reached clmgmtLicenseMaxUsageCount for a counting license."
::= { ciscoLicenseMgmtMIBNotifs 3 }

```

#### clmgmtLicenseUsageCountAboutToExceed NOTIFICATION-TYPE

```

OBJECTS {
 clmgmtLicenseFeatureName,
 clmgmtLicenseFeatureVersion,
 clmgmtLicenseMaxUsageCount,
 clmgmtLicenseUsageCountRemaining,
 clmgmtFeatureWhatIsCounted,
 clmgmtLicenseComments
}
STATUS current
DESCRIPTION
 "This notification is sent when clmgmtLicenseUsageCountRemaining
 has reached 80% of clmgmtLicenseMaxUsageCount for a counting
 license. This is a warning notification to the management
 application that very soon the maximum count will be reached
 and after that the device will not allow new entities to
 make use of this license."
::= { ciscoLicenseMgmtMIBNotifs 4 }

```

#### clmgmtLicenseInstalled NOTIFICATION-TYPE

```

OBJECTS {
 clmgmtLicenseFeatureName,
 clmgmtLicenseFeatureVersion,

 clmgmtLicenseType,
 clmgmtLicenseComments
}
STATUS current
DESCRIPTION
 "This notification is sent when a license is installed
 successfully."
::= { ciscoLicenseMgmtMIBNotifs 5 }

```

#### clmgmtLicenseCleared NOTIFICATION-TYPE

```

OBJECTS {
 clmgmtLicenseFeatureName,
 clmgmtLicenseFeatureVersion,
 clmgmtLicenseType,
 clmgmtLicenseComments
}
STATUS current

```

DESCRIPTION

"This notification is sent when a license is cleared successfully."

::= { ciscoLicenseMgmtMIBNotifs 6 }

clmgmtLicenseRevoked NOTIFICATION-TYPE

OBJECTS {  
    clmgmtLicenseFeatureName,  
    clmgmtLicenseFeatureVersion,  
    clmgmtLicenseType,  
    clmgmtLicenseComments  
}

STATUS

current

DESCRIPTION

"This notification is sent when a license is revoked successfully."

::= { ciscoLicenseMgmtMIBNotifs 7 }

clmgmtLicenseEULAAccepted NOTIFICATION-TYPE

OBJECTS {  
    clmgmtFeatureName,  
    clmgmtFeatureVersion  
}

STATUS current

DESCRIPTION

"This notification is sent when a user accepts End User License Agreement (EULA) for a license."

::= { ciscoLicenseMgmtMIBNotifs 8 }

clmgmtLicenseNotEnforced NOTIFICATION-TYPE

OBJECTS {  
    clmgmtFeatureName,  
    clmgmtFeatureVersion  
}

STATUS current

DESCRIPTION

"This notification is sent when a license does not exist for a feature, but the feature is a mandatory feature and it should run. This notification will be sent out periodically to indicate that there is no

license installed for this feature and it needs to be done as soon as possible."

::= { ciscoLicenseMgmtMIBNotifs 9 }

clmgmtLicenseSubscriptionExpiryWarning NOTIFICATION-TYPE

OBJECTS {

```

 clmgmtFeatureName,
 clmgmtFeatureVersion,
 clmgmtFeatureEndDate
 }
STATUS current
DESCRIPTION
 "This notification is sent when a subscription license of a
 feature is about to expire. This notification will be sent as
 per the following schedule:
 Once a week for the last eight weeks
 Once a day for the last week
 Once a hour for the last day"
::= { ciscoLicenseMgmtMIBNotifs 10 }

```

#### clmgmtLicenseSubscriptionExtExpiryWarning NOTIFICATION-TYPE

```

OBJECTS {
 clmgmtFeatureName,
 clmgmtFeatureVersion,
 clmgmtFeatureEndDate
}
STATUS
current
DESCRIPTION
 "This notification is sent when the subscription license end
 date of a feature is reached but extension period is left. This
 notification will be sent once a day after the license end date
 is reached."
::= { ciscoLicenseMgmtMIBNotifs 11 }

```

#### clmgmtLicenseSubscriptionExpired NOTIFICATION-TYPE

```

OBJECTS {
 clmgmtFeatureName,
 clmgmtFeatureVersion,
 clmgmtFeatureEndDate
}
STATUS current
DESCRIPTION
 "This notification will be sent after a subscription license
 of a feature completely expires. It will be sent once a day
 after the license has completely expired"
::= { ciscoLicenseMgmtMIBNotifs 12 }

```

#### clmgmtLicenseEvalRTUTransitionWarning NOTIFICATION-TYPE

```

OBJECTS {
 clmgmtFeatureName,
 clmgmtFeatureVersion,
 clmgmtFeatureValidityPeriodRemaining
}

```



```

 }
STATUS current
DESCRIPTION
 "This notification is sent when Evaluation to Right to use (RTU)
 license transition is about to happen. The first notification
 will be sent 10 days before the transition and second
 notification will be sent 5 days before the transition."
::= { ciscoLicenseMgmtMIBNotifs 13 }

```

```

clmgmtLicenseEvalRTUTransition NOTIFICATION-TYPE

```

```

OBJECTS {
 clmgmtFeatureName,
 clmgmtFeatureVersion
}
STATUS current
DESCRIPTION
 "This notification is sent, when a feature license transitions
 from a evaluation to a Right to use (RTU) license."
::= { ciscoLicenseMgmtMIBNotifs 14 }

```

```

-- Conformance

```

```

ciscoLicenseMgmtCompliances OBJECT IDENTIFIER

```

```

::= { ciscoLicenseMgmtMIBConform 1 }

```

```

ciscoLicenseMgmtGroups OBJECT IDENTIFIER

```

```

::= { ciscoLicenseMgmtMIBConform 2 }

```

```

ciscoLicenseMgmtCompliance

```

```

MODULE-COMPLIANCE

```

```

STATUS deprecated

```

```

DESCRIPTION

```

```

 "Compliance statement for Cisco license mgmt MIB."

```

```

MODULE -- this module

```

```

MANDATORY-GROUPS {

```

```

 clmgmtLicenseDeploymentGroup,
 clmgmtLicenseDeviceInformationGroup,
 clmgmtLicenseInformationGroup,
 clmgmtLicensableFeatureInformationGroup,
 clmgmtLicenseDevCredGroup,
 clmgmtLicenseNotificationEnableGroup,
 clmgmtLicenseUsageNotifGroup,
 clmgmtLicenseDeploymentNotifGroup,
 clmgmtLicenseErrorNotifGroup
}

```

```

GROUP clmgmtLicenseStoreInformationGroup

```

```

DESCRIPTION

```

```
"This group is mandatory for all devices where
multiple license stores are supported."
::= { ciscoLicenseMgmtCompliances 1 }
```

```
ciscoLicenseMgmtComplianceRev1 MODULE-COMPLIANCE
```

```
STATUS current
DESCRIPTION
 "Compliance statement for Cisco license mgmt MIB."
MODULE -- this module
MANDATORY-GROUPS {
 clmgmtLicenseDeploymentGroup,
 clmgmtLicenseDeviceInformationGroup,
 clmgmtLicenseInformationGroup,
 clmgmtLicensableFeatureInformationGroup,
 clmgmtLicenseDevCredGroup,
 clmgmtLicenseNotificationEnableGroup,
 clmgmtLicenseUsageNotifGroup,
 clmgmtLicenseDeploymentNotifGroup,
 clmgmtLicenseErrorNotifGroup
}
```

```
GROUP clmgmtLicenseStoreInformationGroup
DESCRIPTION
 "This group is mandatory for all devices where
multiple license stores are supported."
```

```
GROUP clmgmtLicenseSubscriptionGroup
DESCRIPTION
 "This object group is mandatory for all devices
that
support subscription licensing."
```

```
GROUP clmgmtLicenseSubscriptionUsageNotifGroup
DESCRIPTION
 "This notification group is mandatory for all devices that
support subscription licensing."
```

```
GROUP clmgmtLicenseRTUGroup
DESCRIPTION
 "This object group is mandatory for all devices that
support Right to Use (RTU) licensing."
```

```
GROUP clmgmtLicenseRTUUsageNotifGroup
DESCRIPTION
 "This notification group is mandatory for all devices that
support Right to use (RTU) licensing."
::= { ciscoLicenseMgmtCompliances 2 }
```

-- Units of Conformance

clmgmtLicenseDeploymentGroup OBJECT-GROUP

```
OBJECTS {
 clmgmtNextFreeLicenseActionIndex,
 clmgmtLicenseActionEntPhysicalIndex,
 clmgmtLicenseActionTransferProtocol,
 clmgmtLicenseServerAddressType,
 clmgmtLicenseServerAddress,
 clmgmtLicenseServerUsername,
 clmgmtLicenseServerPassword,
 clmgmtLicenseFile,
 clmgmtLicenseStore,
 clmgmtLicenseActionLicenseIndex,
 clmgmtLicensePermissionTicketFile,
 clmgmtLicenseRehostTicketFile,
 clmgmtLicenseBackupFile,
 clmgmtLicenseStopOnFailure,
 clmgmtLicenseAction,
 clmgmtLicenseActionState,
 clmgmtLicenseJobQPosition,
 clmgmtLicenseActionFailCause,
 clmgmtLicenseActionStorageType,
 clmgmtLicenseActionRowStatus,
 clmgmtLicenseIndivActionState,
 clmgmtLicenseIndivActionFailCause,
 clmgmtLicenseAcceptEULA,
 clmgmtLicenseEULAFile
}
```

STATUS current

DESCRIPTION

"A collection of objects for performing license deployment  
i.e., license installation, clear and revoke"

::= { ciscoLicenseMgmtGroups 1 }

clmgmtLicenseStoreInformationGroup OBJECT-GROUP

```
OBJECTS {
 clmgmtLicenseStoreName,
 clmgmtLicenseStoreTotalSize,
 clmgmtLicenseStoreSizeRemaining
}
```

STATUS current

DESCRIPTION

"A collection of objects that provide information about  
license storages in the device."

::= { ciscoLicenseMgmtGroups 2 }

clmgmtLicenseDeviceInformationGroup OBJECT-GROUP  
OBJECTS { clmgmtDefaultLicenseStore }  
STATUS current  
DESCRIPTION  
"A collection of objects that provide information about  
device level licensing support information in the device."  
::= { ciscoLicenseMgmtGroups 3 }

clmgmtLicenseInformationGroup OBJECT-GROUP  
OBJECTS {  
clmgmtLicenseFeatureName,  
clmgmtLicenseFeatureVersion,  
clmgmtLicenseType,  
clmgmtLicenseCounted,  
clmgmtLicenseValidityPeriod,  
clmgmtLicenseValidityPeriodRemaining,  
clmgmtLicenseExpiredPeriod,  
clmgmtLicenseMaxUsageCount,  
clmgmtLicenseUsageCountRemaining,  
clmgmtLicenseEULAStatus,  
clmgmtLicenseComments,  
clmgmtLicenseStatus  
}  
STATUS current  
DESCRIPTION  
"A collection of objects that provide information about  
licenses and its state."  
::= { ciscoLicenseMgmtGroups 4 }

clmgmtLicensableFeatureInformationGroup OBJECT-GROUP  
OBJECTS {  
clmgmtFeatureName,  
clmgmtFeatureVersion,  
  
clmgmtFeatureValidityPeriodRemaining,  
clmgmtFeatureWhatIsCounted  
}  
STATUS current  
DESCRIPTION  
"A collection of objects that provide information about  
licensable features in the software image."  
::= { ciscoLicenseMgmtGroups 5 }

clmgmtLicenseDevCredGroup OBJECT-GROUP  
OBJECTS {  
clmgmtNextFreeDevCredExportActionIndex,  
clmgmtDevCredEntPhysicalIndex,  
clmgmtDevCredTransferProtocol,

```
 clmgmtDevCredServerAddressType,
 clmgmtDevCredServerAddress,
 clmgmtDevCredServerUsername,
 clmgmtDevCredServerPassword,
 clmgmtDevCredExportFile,
 clmgmtDevCredCommand,
 clmgmtDevCredCommandState,
 clmgmtDevCredCommandFailCause,
```

```
 clmgmtDevCredStorageType,
 clmgmtDevCredRowStatus
}
```

STATUS current

DESCRIPTION

"A collection of objects for exporting device credentials from the device."

::= { ciscoLicenseMgmtGroups 6 }

clmgmtLicenseNotificationEnableGroup OBJECT-GROUP

```
OBJECTS {
 clmgmtLicenseUsageNotifEnable,
 clmgmtLicenseDeploymentNotifEnable,
 clmgmtLicenseErrorNotifEnable
}
```

STATUS current

DESCRIPTION

"A collection of objects for controlling (enabling/disabling) license notifications to a management application."

::= { ciscoLicenseMgmtGroups 7 }

clmgmtLicenseUsageNotifGroup NOTIFICATION-GROUP

```
NOTIFICATIONS {
 clmgmtLicenseExpired,
 clmgmtLicenseExpiryWarning,
 clmgmtLicenseUsageCountExceeded,

 clmgmtLicenseUsageCountAboutToExceed
}
```

STATUS current

DESCRIPTION

"A collection of notifications related to license usage."

::= { ciscoLicenseMgmtGroups 8 }

clmgmtLicenseDeploymentNotifGroup NOTIFICATION-GROUP

```
NOTIFICATIONS {
 clmgmtLicenseInstalled,
 clmgmtLicenseCleared,
```

```

 clmgmtLicenseRevoked,
 clmgmtLicenseEULAAccepted
 }
STATUS current
DESCRIPTION
 "A collection of notifications related to license deployment."
::= { ciscoLicenseMgmtGroups 9 }

clmgmtLicenseErrorNotifGroup NOTIFICATION-GROUP
NOTIFICATIONS { clmgmtLicenseNotEnforced }
STATUS current
DESCRIPTION
 "A collection of notifications related to license errors."
::= { ciscoLicenseMgmtGroups 10 }

clmgmtLicenseSubscriptionGroup OBJECT-GROUP
OBJECTS {
 clmgmtLicenseStartDate,
 clmgmtLicenseEndDate,
 clmgmtFeatureStartDate,
 clmgmtFeatureEndDate
 }
STATUS current
DESCRIPTION
 "A collection of objects that provide information specific to
 subscription licenses."
::= { ciscoLicenseMgmtGroups 11 }

clmgmtLicenseSubscriptionUsageNotifGroup NOTIFICATION-GROUP
NOTIFICATIONS {
 clmgmtLicenseSubscriptionExpiryWarning,
 clmgmtLicenseSubscriptionExtExpiryWarning,
 clmgmtLicenseSubscriptionExpired
 }
STATUS current
DESCRIPTION
 "A collection of notifications related to usage of subscription
 licenses."
::= { ciscoLicenseMgmtGroups 12 }

clmgmtLicenseRTUGroup OBJECT-GROUP
OBJECTS {
 clmgmtLicensePeriodUsed,
 clmgmtFeaturePeriodUsed
 }
STATUS current
DESCRIPTION

```

```

 "A collection of objects that provide information specific to
 Right to use (RTU) licenses."
 ::= { ciscoLicenseMgmtGroups 13 }

clmgmtLicenseRTUUsageNotifGroup NOTIFICATION-GROUP
NOTIFICATIONS {
 clmgmtLicenseEvalRTUTransitionWarning,
 clmgmtLicenseEvalRTUTransition
}
STATUS current
DESCRIPTION
 "A collection of notifications related to Right to use (RTU)
 licenses."
 ::= { ciscoLicenseMgmtGroups 14 }

END

--%DNP% MLC -Edit MLC

--%DNP% MTF -TRUE MTF
/*
* Generated by 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 jnxLicenseRenewBeforExpiration {
 type int32;
 description
 "License renew lead time before expiration in days.";
 smiv2:max-access "read-only";
 smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.2.1";
 }

 leaf jnxLicenseRenewInterval {
 type int32;
 description
 "License checking interval in hours.";
 smiv2:max-access "read-only";
 }
 }
}

```



```

 smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.2.2";
}

leaf jnxLicenseAutoUpdate {
 type snmpv2-tc:DisplayString;
 description
 "License auto update URL of a license server.";
 smiv2:max-access "read-only";
 smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.2.3";
}
}

container jnxLicenseInstallTable {
 description
 "This table contains installed
feature license information.";
 smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.1";

 list jnxLicenseInstallEntry {
 key "jnxLicenseId";
 smiv2:implied "jnxLicenseId";
 description
 "A row of giving installed feature license information.";
 smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.1.1";

 leaf jnxLicenseId {
 type snmpv2-tc:DisplayString;
 description
 "Installed feature licenses Id.";
 smiv2:max-access "not-accessible";
 smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.1.1.1";
 }

 leaf jnxLicenseVersion {
 type int32;
 description
 "License Version information";
 smiv2:max-access "read-only";
 smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.1.1.2";
 }

 leaf jnxLicenseDeviceId {
 type snmpv2-tc:DisplayString;
 description
 "License Device Id ";
 smiv2:max-access "read-only";
 smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.1.1.3";
 }
 }
}

```

```

}

leaf jnxLicenseType {
 type enumeration {
 enum "invalid" {
 value "0";
 }
 enum "count-down" {
 value "1";
 }
 enum "date-based" {
 value "2";
 }
 enum "permanent" {
 value "3";
 }
 }
 description
 "License type information";
 smiv2:max-access "read-only";
 smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.1.1.4";
}

```

```

leaf jnxLicenseKeys {
 type binary;
 status deprecated;
 description
 "***** THIS OBJECT IS DEPRECATED *****"
 "This object is deprecated,
 it displays all the license keys
 in the system.";
 smiv2:max-access "read-only";
 smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.1.1.5";
}

```

```

leaf jnxLicenseKeyType {
 type enumeration
{
 enum "commercial" {
 value "1";
 }
 enum "trial" {
 value "2";
 }
 enum "demo" {
 value "3";
 }
 enum "emergency" {

```

```

 value "4";
 }
 enum "lab" {
 value "5";
 }
 enum "education" {
 value "6";
 }
}
description
 "License key type";
smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.1.1.6";
}
}
}

```

```

container jnxLicenseFeatureListTable {
 description
 "list of features supporting Licensing.";
 smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.2";
}

```

```

list jnxLicenseFeatureListEntry {
 key "jnxLicenseFeatureId";
 description
 "A row of licensed features.";
 smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.2.1";
}

```

```

leaf jnxLicenseFeatureId {
 type int32;
 description
 "Feature Id to point an entry in this table";
 smiv2:max-access "not-accessible";
 smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.2.1.1";
}

```

```

leaf jnxLicenseFeatureName {
 type snmpv2-tc:DisplayString;
 description
 "Feature Name";
 smiv2:max-access "read-only";
 smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.2.1.2";
}

```

```

leaf jnxLicenseFeatureDescr {
 type snmpv2-tc:DisplayString;
 description
 "Feature Name";
}

```

```

 smiv2:max-access "read-only";
 smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.2.1.3";
}

leaf jnxLicenseFeatureLicenseId {
 type snmpv2-tc:DisplayString;
 description
 "Feature License Id";
 smiv2:max-access "read-only";
 smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.2.1.4";
}

leaf jnxLicenseFeatureLicenseUsed {
 type int32;
 description

 "Licenses Used";
 smiv2:max-access "read-only";
 smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.2.1.5";
}

leaf jnxLicenseFeatureLicenseInstalled {
 type int32;
 description
 "Licenses Installed";
 smiv2:max-access "read-only";
 smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.2.1.6";
}

leaf jnxLicenseFeatureLicenseNeeded {
 type int32;
 description
 "Licenses Needed";
 smiv2:max-access "read-only";
 smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.2.1.7";
}
}
}
}

notification jnxLicenseGraceExpired {
 description
 "The SNMP trap that is generated when the license grace period for
 feature identified by jnxLicenseFeatureName is expired";
 smiv2:oid "1.3.6.1.4.1.2636.3.63.1.0.1";

 container object-1 {

```

```
leaf jnxLicenseFeatureId {
 type leafref {
 path "/juniper-license:JUNIPER-LICENSE-MIB/juniper-license:jnxLicenseFeatureListTable/juniper-
license:jnxLicenseFeatureListEntry/juniper-license:jnxLicenseFeatureId";
 }
}
```

```
leaf jnxLicenseFeatureName {
 type leafref {
 path "/juniper-license:JUNIPER-LICENSE-MIB/juniper-license:jnxLicenseFeatureListTable/juniper-
license:jnxLicenseFeatureListEntry/juniper-license:jnxLicenseFeatureName";
 }
}
}
```

```
notification jnxLicenseGraceAboutToExpire {
 description
 "The SNMP trap that is generated when the license grace period for
 feature identified by jnxLicenseFeatureName is about to expire";
 smiv2:oid "1.3.6.1.4.1.2636.3.63.1.0.2";
```

```
container object-1 {
```

```
leaf jnxLicenseFeatureId {
 type leafref {
 path "/juniper-license:JUNIPER-LICENSE-MIB/juniper-license:jnxLicenseFeatureListTable/juniper-
license:jnxLicenseFeatureListEntry/juniper-license:jnxLicenseFeatureId";
 }
}
```

```
leaf jnxLicenseFeatureName {
 type leafref {
 path "/juniper-license:JUNIPER-LICENSE-MIB/juniper-license:jnxLicenseFeatureListTable/juniper-
license:jnxLicenseFeatureListEntry/juniper-license:jnxLicenseFeatureName";
 }
}
}
```

```
notification jnxLicenseAboutToExpire {
 description
 "The SNMP trap that is generated when the license period for
 feature identified by jnxLicenseFeatureName is about to expire";
 smiv2:oid "1.3.6.1.4.1.2636.3.63.1.0.3";
```

```
container object-1 {
```

```
leaf jnxLicenseFeatureId {
 type leafref {
 path "/juniper-license:JUNIPER-LICENSE-MIB/juniper-license:jnxLicenseFeatureListTable/juniper-
license:jnxLicenseFeatureListEntry/juniper-license:jnxLicenseFeatureId";
 }
}
```

```
leaf jnxLicenseFeatureName {
 type leafref {
 path "/juniper-license:JUNIPER-LICENSE-MIB/juniper-license:jnxLicenseFeatureListTable/juniper-
license:jnxLicenseFeatureListEntry/juniper-license:jnxLicenseFeatureName";
 }
}
}
```

```
notification jnxLicenseInfringeCumulative
```

```
{
 description
 "The SNMP trap that is generated when the feature is used more
 times than as specified in number of licenses allowed for feature
 as identified by jnxLicenseFeatureName";
 smiv2:oid "1.3.6.1.4.1.2636.3.63.1.0.4";
}
```

```
container object-1 {
```

```
leaf jnxLicenseFeatureId {
 type leafref {
 path "/juniper-license:JUNIPER-LICENSE-MIB/juniper-license:jnxLicenseFeatureListTable/juniper-
license:jnxLicenseFeatureListEntry/juniper-license:jnxLicenseFeatureId";
 }
}
```

```
leaf jnxLicenseFeatureName {
 type leafref {
 path "/juniper-license:JUNIPER-LICENSE-MIB/juniper-license:jnxLicenseFeatureListTable/juniper-
license:jnxLicenseFeatureListEntry/juniper-license:jnxLicenseFeatureName";
 }
}
}
```

```
notification jnxLicenseInfringeSingle {
```

```
 description
 "The SNMP trap that is generated when the license for feature
 identified by jnxLicenseFeatureName is not valid i.e. either
 expired or
 not available.";
```

```

smiv2:oid "1.3.6.1.4.1.2636.3.63.1.0.5";

container object-1 {

 leaf jnxLicenseFeatureId {
 type leafref {
 path "/juniper-license:JUNIPER-LICENSE-MIB/juniper-license:jnxLicenseFeatureListTable/juniper-
license:jnxLicenseFeatureListEntry/juniper-license:jnxLicenseFeatureId";
 }
 }

 leaf jnxLicenseFeatureName {
 type leafref {
 path "/juniper-license:JUNIPER-LICENSE-MIB/juniper-license:jnxLicenseFeatureListTable/juniper-
license:jnxLicenseFeatureListEntry/juniper-license:jnxLicenseFeatureName";
 }
 }
}

notification jnxLicenseKeyExpired {
 description
 "The SNMP trap that is generated when the license for feature
 identified by jnxLicenseFeatureName is not valid i.e. either expired or
 not available.";
 smiv2:oid "1.3.6.1.4.1.2636.3.63.1.0.6";

 container object-1 {

 leaf jnxLicenseFeatureId {
 type leafref {
 path "/juniper-license:JUNIPER-LICENSE-MIB/juniper-license:jnxLicenseFeatureListTable/juniper-
license:jnxLicenseFeatureListEntry/juniper-license:jnxLicenseFeatureId";
 }
 }

 leaf jnxLicenseFeatureName {
 type leafref {
 path "/juniper-license:JUNIPER-LICENSE-MIB/juniper-license:jnxLicenseFeatureListTable/juniper-
license:jnxLicenseFeatureListEntry/juniper-license:jnxLicenseFeatureName";
 }
 }
 }

 container object-2 {

 leaf jnxLicenseFeatureId {
 type leafref {

```

```

 path "/juniper-license:JUNIPER-LICENSE-MIB/juniper-license:jnxLicenseFeatureListTable/juniper-
license:jnxLicenseFeatureListEntry/juniper-license:jnxLicenseFeatureId";
 }
}

leaf jnxLicenseFeatureLicenseId {
 type leafref {
 path "/juniper-license:JUNIPER-LICENSE-MIB/juniper-license:jnxLicenseFeatureListTable/juniper-
license:jnxLicenseFeatureListEntry/juniper-license:jnxLicenseFeatureLicenseId";
 }
}

container object-3
{

 leaf jnxLicenseId {
 type leafref {
 path "/juniper-license:JUNIPER-LICENSE-MIB/juniper-license:jnxLicenseInstallTable/juniper-
license:jnxLicenseInstallEntry/juniper-license:jnxLicenseId";
 }
 }

 leaf jnxLicenseKeyType {
 type leafref {
 path "/juniper-license:JUNIPER-LICENSE-MIB/juniper-license:jnxLicenseInstallTable/juniper-
license:jnxLicenseInstallEntry/juniper-license:jnxLicenseKeyType";
 }
 }
}

smiv2:alias "jnxLicenseMIB" {
 smiv2:oid "1.3.6.1.4.1.2636.3.63.1";
}

smiv2:alias "jnxLicenseNotifications" {
 smiv2:oid "1.3.6.1.4.1.2636.3.63.1.0";
}

smiv2:alias "jnxLicenseObjects" {
 smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1";
}

smiv2:alias "jnxLicenseInstallObjects" {
 smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1";
}

```



```

smiv2:alias "jnxLicenseSettings" {
 smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.2";
}

}

module openconfig-license {

 yang-version "1";

 namespace "http://openconfig.net/yang/license";

 prefix "oc-license";

 import openconfig-extensions { prefix oc-ext; }

 organization "OpenConfig working group";

 contact
 "OpenConfig working group
 www.openconfig.net";

 description
 "This module defines configuration and operational
 state data for licenses.";

 oc-ext:openconfig-version "0.2.0";

 revision "2020-04-22" {
 description
 "Make license-data a union of a string or binary.";
 reference "0.2.0";
 }

 revision "2020-01-07" {
 description
 "Initial revision";
 reference "0.1.0";
 }

 // OpenConfig specific extensions for module metadata.
 oc-ext:regexp-posix;
 oc-ext:catalog-organization "openconfig";
 oc-ext:origin "openconfig";

 grouping license-config {
 description
 "Configuration data for license";
 }

```

```

leaf license-id {
 type string;
 description
 "License ID. A string that 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";
}

}
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Paul Borman <borman@google.com>
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Rob Shakir <robjs@google.com>
--
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```

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--

JUNIPER-LICENSE-MIB DEFINITIONS ::= BEGIN

IMPORTS

MODULE-IDENTITY, OBJECT-TYPE, Unsigned32, TimeTicks, IpAddress,

NOTIFICATION-TYPE

FROM SNMPv2-SMI

jnxLicenseMibRoot

FROM JUNIPER-SMI

DisplayString

FROM SNMPv2-TC;

jnxLicenseMIB MODULE-IDENTITY

LAST-UPDATED "201007090000Z"

ORGANIZATION "Juniper Networks, Inc."

CONTACT-INFO

"Juniper Technical Assistance Center

Juniper Networks, Inc.

1194 N. Mathilda Avenue

Sunnyvale, CA 94089

E-mail: support@juniper.net"

DESCRIPTION

"Implementation of enterprise specific MIB  
for license commands and configuration."

REVISION "201007090000Z" -- Jul 09, 2010

DESCRIPTION

"Initial version."

::= { jnxLicenseMibRoot 1 }

jnxLicenseNotifications OBJECT IDENTIFIER ::= { jnxLicenseMIB 0 }

jnxLicenseObjects OBJECT IDENTIFIER ::= { jnxLicenseMIB 1 }

jnxLicenseInstallObjects OBJECT IDENTIFIER ::= { jnxLicenseObjects 1 }

jnxLicenseSettings OBJECT IDENTIFIER ::= { jnxLicenseObjects 2 }

-- \*\*\*\*\*

-- License table for installed licenses

-- \*\*\*\*\*

jnxLicenseInstallTable OBJECT-TYPE

SYNTAX SEQUENCE OF JnxLicenseInstallEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION "This table contains installed feature license information."

::= { jnxLicenseInstallObjects 1 }



jnxLicenseInstallEntry OBJECT-TYPE  
SYNTAX JnxLicenseInstallEntry  
MAX-ACCESS not-accessible  
STATUS current  
DESCRIPTION "A row of giving installed  
feature license information."  
INDEX { IMPLIED jnxLicenseId }  
::= { jnxLicenseInstallTable 1 }

JnxLicenseInstallEntry ::= SEQUENCE {  
jnxLicenseId DisplayString,  
jnxLicenseVersion INTEGER,  
jnxLicenseDeviceId DisplayString,  
jnxLicenseType INTEGER,  
jnxLicenseKeys OCTET STRING  
}

jnxLicenseId OBJECT-TYPE  
SYNTAX DisplayString  
MAX-ACCESS not-accessible  
STATUS current  
DESCRIPTION "Installed feature licenses Id."  
::= { jnxLicenseInstallEntry 1 }

jnxLicenseVersion OBJECT-TYPE  
SYNTAX INTEGER  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION "License Version information"  
::= { jnxLicenseInstallEntry 2 }

jnxLicenseDeviceId OBJECT-TYPE  
SYNTAX DisplayString  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION "License Device Id "  
::= { jnxLicenseInstallEntry  
3 }

jnxLicenseType OBJECT-TYPE  
SYNTAX INTEGER { invalid(0), count-down(1), date-based(2),permanent(3) }  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION "License type information"  
::= { jnxLicenseInstallEntry 4 }

jnxLicenseKeys OBJECT-TYPE  
SYNTAX OCTET STRING

```

MAX-ACCESS read-only
STATUS current
DESCRIPTION "License Keys"
::= { jnxLicenseInstallEntry 5 }

-- Feature Listing Table

jnxLicenseFeatureListTable OBJECT-TYPE
SYNTAX SEQUENCE OF JnxLicenseFeatureListEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION "list of features supporting Licensing."
::= { jnxLicenseInstallObjects 2 }

jnxLicenseFeatureListEntry OBJECT-TYPE
SYNTAX JnxLicenseFeatureListEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION "A row of licensed features."
INDEX { jnxLicenseFeatureId
}
::= { jnxLicenseFeatureListTable 1 }

JnxLicenseFeatureListEntry ::= SEQUENCE {
 jnxLicenseFeatureId INTEGER,
 jnxLicenseFeatureName DisplayString,
 jnxLicenseFeatureDescr DisplayString,
 jnxLicenseFeatureLicenseId DisplayString,
 jnxLicenseFeatureLicenseUsed INTEGER,
 jnxLicenseFeatureLicenseInstalled INTEGER,
 jnxLicenseFeatureLicenseNeeded INTEGER
}

jnxLicenseFeatureId OBJECT-TYPE
SYNTAX INTEGER
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION "Feature Id to point an entry in this table"
::= { jnxLicenseFeatureListEntry 1 }

jnxLicenseFeatureName OBJECT-TYPE
SYNTAX DisplayString
MAX-ACCESS read-only
STATUS current
DESCRIPTION "Feature Name"
::= { jnxLicenseFeatureListEntry 2 }

jnxLicenseFeatureDescr OBJECT-TYPE

```

SYNTAX  
    DisplayString  
MAX-ACCESS        read-only  
STATUS            current  
DESCRIPTION       "Feature Name"  
::= { jnxLicenseFeatureListEntry 3 }

jnxLicenseFeatureLicenseId OBJECT-TYPE  
SYNTAX            DisplayString  
MAX-ACCESS        read-only  
STATUS            current  
DESCRIPTION       "Feature License Id"  
::= { jnxLicenseFeatureListEntry 4 }

jnxLicenseFeatureLicenseUsed OBJECT-TYPE  
SYNTAX            INTEGER  
MAX-ACCESS        read-only  
STATUS            current  
DESCRIPTION       "Licenses Used"  
::= { jnxLicenseFeatureListEntry 5 }

jnxLicenseFeatureLicenseInstalled OBJECT-TYPE  
SYNTAX            INTEGER  
MAX-ACCESS        read-only  
STATUS            current  
DESCRIPTION       "Licenses Installed"  
::= { jnxLicenseFeatureListEntry 6 }

jnxLicenseFeatureLicenseNeeded OBJECT-TYPE  
SYNTAX            INTEGER  
MAX-ACCESS        read-only  
STATUS            current  
DESCRIPTION  
    "Licenses Needed"  
::= { jnxLicenseFeatureListEntry 7 }

-- \*\*\*\*\*  
-- License configuration parameters  
-- \*\*\*\*\*

jnxLicenseRenewBeforExpiration OBJECT-TYPE  
SYNTAX            INTEGER  
MAX-ACCESS        read-only  
STATUS            current  
DESCRIPTION  
    "License renew lead time before expiration in days."  
::= { jnxLicenseSettings 1 }

jnxLicenseRenewInterval OBJECT-TYPE

SYNTAX INTEGER  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"License checking interval in hours."  
::= { jnxLicenseSettings 2 }

jnxLicenseAutoUpdate OBJECT-TYPE

SYNTAX DisplayString  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"License auto update URL of a license server."  
::= { jnxLicenseSettings  
3 }

-- \*\*\*\*\*  
-- define branches for jnx license traps  
-- \*\*\*\*\*

jnxLicenseGraceExpired NOTIFICATION-TYPE

OBJECTS { jnxLicenseFeatureName }  
STATUS current  
DESCRIPTION  
"The SNMP trap that is generated when the license grace period for  
feature identified by jnxLicenseFeatureName is expired"  
::= { jnxLicenseNotifications 1 }

jnxLicenseGraceAboutToExpire NOTIFICATION-TYPE

OBJECTS { jnxLicenseFeatureName }  
STATUS current  
DESCRIPTION  
"The SNMP trap that is generated when the license grace period for  
feature identified by jnxLicenseFeatureName is about to expire"  
::= { jnxLicenseNotifications 2 }

jnxLicenseAboutToExpire NOTIFICATION-TYPE

OBJECTS { jnxLicenseFeatureName }  
STATUS current  
DESCRIPTION  
"The SNMP trap that is generated when the license period for  
feature identified by jnxLicenseFeatureName is about to expire"  
::= { jnxLicenseNotifications 3 }

jnxLicenseInfringeCumulative NOTIFICATION-TYPE

OBJECTS { jnxLicenseFeatureName }

STATUS current

DESCRIPTION

"The SNMP trap that is generated when the feature is used more times than as specified in number of licenses allowed for feature as identified by jnxLicenseFeatureName"

::= { jnxLicenseNotifications 4 }

jnxLicenseInfringeSingle NOTIFICATION-TYPE

OBJECTS { jnxLicenseFeatureName }

STATUS current

DESCRIPTION

"The SNMP trap that is generated when the license for feature identified by jnxLicenseFeatureName is not valid i.e. either expired or not available."

::= { jnxLicenseNotifications 5 }

END

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```
* /opt/cola/permits/1732224163_1687880757.2711139/0/influxdb-1-8-10-linux-amd64-tar-gz/influxdb-1.8.10-1/usr/share/man/man1/influxd-restore-1-gz/influxd-restore.1
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```

# 1.595 influxql 1.1.1-0.20211004132434-7e7d61973256

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## 1.607 protobuf 1.31.0

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```

package spec

```
// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
 Name string `json:"name,omitempty"`
 URL string `json:"url,omitempty"`
}
```

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Go support for Protocol Buffers - Google's data interchange format

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Support for streaming Protocol Buffer messages for the Go language (golang).

[https://github.com/mattproud/golang\\_protobuf\\_extensions](https://github.com/mattproud/golang_protobuf_extensions)

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## 1.615 uuid 1.3.1

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Paul Borman <borman@google.com>

bmatsuo

shawnps

theory

jboverfelt

dsymonds

cd1

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# 1.622 [github.com/alecaivazis/survey/v2](https://github.com/alecaivazis/survey/v2) 2.2.9

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## 1.624 kafka-go 0.3.10

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## 1.628 [github.com/aws/aws-sdk-go-v2/service/internal/accept-encoding](https://github.com/aws/aws-sdk-go-v2/service/internal/accept-encoding) 1.5.0

## 1.628.1 Available under license :

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
 params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide to ensure
 the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Configuration for consumption of the license. Choose a provisional
 // configuration for workloads running with continuous connectivity. Choose a
```

```

// borrow configuration for workloads with offline usage.
//
// This member is required.
ConsumptionConfiguration *types.ConsumptionConfiguration

// License entitlements.
//
// This member is required.
Entitlements []types.Entitlement

// Home Region for the license.
//
// This member is required.
HomeRegion *string

// License issuer.
//
// This member is required.
Issuer *types.Issuer

// License name.
//
// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange

//
Information about the license.
LicenseMetadata []types.Metadata

noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

```

```

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License status.
Status types.LicenseStatus

// License version.
Version *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack);
 err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {

```

```

return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack, options); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil
{
return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region: region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "CreateLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

```

```

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
 params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier that you
 // provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see RFC 7518 Digital Signature with
 // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5) .
 //
 // This member is required.
 DigitalSignatureMethod types.DigitalSignatureMethod

 // License entitlements. Partial checkouts are not supported.
 //
 // This member is required.
 Entitlements []types.EntitlementData

```



```

// Amazon Resource Name (ARN) of the license. The license must use the borrow
// consumption configuration.
//
// This member is required.
LicenseArn *string

// Information about constraints.
CheckoutMetadata []types.Metadata

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

// Information about constraints.
CheckoutMetadata []types.Metadata

// Allowed license entitlements.
EntitlementsAllowed
[]types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

```

```

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
}

```

```

if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
 return err
}
if
err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CheckoutBorrowLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

```

```
package licensemanager
```

```

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

```

```
// Lists the licenses for your account.
```

```

func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {

```

```

if params == nil {
 params = &ListLicensesInput{}
}

result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
if err != nil {
 return nil, err
}

out := result.(*ListLicensesOutput)
out.ResultMetadata = metadata
return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 // - Beneficiary
 // - ProductSKU
 // - Fingerprint
 //
 // - Status
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListLicensesOutput struct {

 // License details.
 Licenses []types.License

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

```

```
noSmithyDocumentSerde
```

```
}
```

```
func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
}
```

```

}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "ListLicenses",
 }
}

```

AWS SDK for Go

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name: License Scan

on: [pull\_request]

jobs:

licensescan:

name: License Scan

runs-on: ubuntu-latest

strategy:

matrix:

python-version: [3.9]

steps:

- name: Checkout target

uses: actions/checkout@v2

with:

path: sdkbase

```

 ref: ${{ github.base_ref }}
- name: Checkout this ref
 uses: actions/checkout@v2
 with:
 path: new-ref
 fetch-depth: 0
- name: Get Diff
 run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}
${{ github.sha }} > refDiffFiles.txt
- name: Get Target Files
 run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
- name: Checkout scancode
 uses: actions/checkout@v2
 with:
 repository: nexB/scancode-toolkit
 path: scancode-toolkit
 fetch-depth: 1
- name: Set up Python ${{ matrix.python-version }}
 uses: actions/setup-python@v2
 with:
 python-version: ${{ matrix.python-version }}
ScanCode
- name: Self-configure scancode
 working-directory: ./scancode-toolkit
 run: ./scancode --help
- name: Run Scan code on target
 run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
- name: Run Scan code on pr ref
 run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
compare
- name: License test
 run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

```

```
package licensemanager
```

```

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

```

```

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
if params == nil {
params = &ListReceivedLicensesInput{}
}

result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
if err != nil {
return nil, err
}

out := result.(*ListReceivedLicensesOutput)
out.ResultMetadata = metadata
return out, nil
}

type ListReceivedLicensesInput struct {

// Filters to scope the results. The following filters are supported:
//
- ProductSKU
// - Status
// - Fingerprint
// - IssuerName
// - Beneficiary
Filters []types.Filter

// Amazon Resource Names (ARNs) of the licenses.
LicenseArns []string

// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string

noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

// Received license details.
Licenses []types.GrantedLicense

// Token for the next set of results.
NextToken *string

```



```

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{ }, middleware.After)
if err != nil {
return err
}
if
err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack, options); err != nil {
return err
}
}

```

```

if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil
{
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "ListReceivedLicenses",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

```

```

package licensemanager

```

```

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

```

```

// Checks out the specified license. If the account that created the license is
// the same that is performing the check out, you must specify the account as the
// beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
 params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type
CheckoutLicenseInput struct {

 // Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Key fingerprint identifying the license.
 //
 // This member is required.
 KeyFingerprint *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

```

```

// License beneficiary.
Beneficiary *string

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

// Checkout type.
CheckoutType types.CheckoutType

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name
(ARN) of the checkout license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{ }, middleware.After)
if err != nil {
return err
}
}

```

```

err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{ }, middleware.After)
if err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return
err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
 return err
}

```

```

if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err
= addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CheckoutLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
 params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
 return nil, err
 }
}

```

```

}

out := result.(*CheckInLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary
 *string

 noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
}

```

```

}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack,
options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack);
err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

```



```

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
return &awsmiddleware.RegisterServiceMetadata{
Region: region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "CheckInLicense",
}
}
{
"smithy": "2.0",
"shapes": {
"com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger": {
"type": "integer"
},
"com.amazonaws.licensemanagerlinuxsubscriptions#BoxLong": {
"type": "long"
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Filter": {
"type": "structure",
"members": {
"Name": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": "<p>The type of name to filter by.</p>"
}
},
"Values": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
"traits": {
"smithy.api#documentation": "<p>One or more values for the name to filter by.</p>"
}
},
"Operator": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Operator",
"traits": {
"smithy.api#documentation": "<p>An operator for filtering results.</p>"
}
}
},
"traits": {
"smithy.api#documentation": "<p>A filter object that is used to return more specific results from a describe operation.\n Filters can be used to match a set of resources by specific criteria.</p>"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#FilterList": {
"type": "list",

```

```

 "member": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Filter"
 }
 },
 "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettings": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerErrorException"
 },
 {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
 },
 {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Lists the Linux subscriptions service settings.</p>",
 "smithy.api#http": {
 "code": 200,
 "method": "POST",
 "uri": "/subscription/GetServiceSettings"
 },
 "smithy.api#idempotent": {}
 }
 },
 "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsRequest": {
 {
 "type": "structure",
 "members": {}
 },
 "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsResponse": {
 "type": "structure",
 "members": {
 "LinuxSubscriptionsDiscovery": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
 "traits": {
 "smithy.api#documentation": "<p>Lists if discovery has been enabled for Linux subscriptions.</p>"
 }
 }
 },
 }
 }
}

```

```

"LinuxSubscriptionsDiscoverySettings": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
 "traits": {
 "smithy.api#documentation": "<p>Lists the settings defined for Linux subscriptions discovery. The
settings include if\n Organizations integration has been enabled, and
which Regions data will be aggregated from.</p>"
 }
},
"Status": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Status",
 "traits": {
 "smithy.api#documentation": "<p>Indicates the status of Linux subscriptions settings being
applied.</p>"
 }
},
"StatusMessage": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap",
 "traits": {
 "smithy.api#documentation": "<p>A message which details the Linux subscriptions service settings
current status.</p>"
 }
},
"HomeRegions": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
 "traits": {
 "smithy.api#documentation": "<p>The Region in which License Manager displays
the aggregated data for Linux\n subscriptions.</p>"
 }
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Instance": {
 "type": "structure",
 "members": {
 "AmiId": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The AMI ID used to launch the instance.</p>"
 }
 },
 "InstanceID": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The instance ID of the resource.</p>"
 }
 },
 "InstanceType": {
 "target": "smithy.api#String",

```

```

 "traits": {
 "smithy.api#documentation": "<p>The instance type of the resource.</p>"
 }
 },
 "AccountID": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The account ID which owns the instance.</p>"
 }
 },
 "Status": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The status of the instance.</p>"
 }
 },
 "Region": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The Region the instance is running in.</p>"
 }
 },
 "UsageOperation": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The usage operation of the instance. For more information, see For
more information, see\n <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/linux-
subscriptions-usage-operation.html\">Usage\n operation values in the <i>License Manager User
Guide</i>.</p>"
 }
 },
 "ProductCode": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ProductCodeList",
 "traits": {
 "smithy.api#documentation": "<p>The product code for the instance. For more information, see <a
href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/linux-subscriptions-usage-
operation.html\">Usage\n operation values in the <i>License Manager User Guide</i> .</p>"
 }
 },
 "LastUpdatedTime": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The time in which the last discovery
updated the instance details.</p>"
 }
 },
 "SubscriptionName": {

```

```

 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The name of the subscription being used by the instance.</p>"
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>Details discovered information about a running instance using Linux
subscriptions.</p>"
 }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#InstanceList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Instance"
 }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerError": {
 "type": "structure",
 "members": {
 "message": {
 "target": "smithy.api#String"
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>An exception occurred with the service.</p>",
 "smithy.api#error": "server"
 }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#LicenseManagerLinuxSubscriptions": {
 "type": "service",
 "version": "2018-05-10",
 "operations": [
 {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettings"
 },
 {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstances"
 },
 {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptions"
 },
 {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettings"
 }
]
},

```

```

"traits": {
 "aws.api#service": {
 "sdkId": "License Manager Linux Subscriptions",
 "arnNamespace": "license-manager-linux-subscriptions",
 "cloudTrailEventSource": "license-manager-linux-subscriptions.amazonaws.com"
 },
 "aws.auth#sigv4": {
 "name": "license-manager-linux-subscriptions"
 },
 "aws.protocols#restJson1": {},
 "smithy.api#cors": {
 "additionalAllowedHeaders": [
 "*",
 "content-type",
 "x-amz-content-sha256",
 "x-amz-user-agent",
 "x-amzn-platform-id",
 "x-amzn-trace-id",
 "content-length",
 "x-api-key",
 "authorization",
 "x-amz-date",

"x-amz-security-token",
 "Access-Control-Allow-Headers",
 "Access-Control-Allow-Methods",
 "Access-Control-Allow-Origin"
],
 "additionalExposedHeaders": [
 "x-amzn-errortype",
 "x-amzn-requestid",
 "x-amzn-trace-id"
]
 },
 "smithy.api#documentation": "<p>With License Manager, you can discover and track your commercial Linux subscriptions on running Amazon EC2 instances.</p>",
 "smithy.api#title": "AWS License Manager Linux Subscriptions",
 "smithy.rules#endpointRuleSet": {
 "version": "1.0",
 "parameters": {
 "Region": {
 "builtIn": "AWS::Region",
 "required": false,
 "documentation": "The AWS region used to dispatch the request.",
 "type": "String"
 },
 "UseDualStack": {

```

```

 "builtIn": "AWS::UseDualStack",
 "required": true,
 "default": false,
 "documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not
support dual-stack, dispatching the request MAY return an error.",
 "type": "Boolean"
 },
 "UseFIPS": {
 "builtIn": "AWS::UseFIPS",
 "required": true,
 "default": false,
 "documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the
configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",

"type": "Boolean"
 },
 "Endpoint": {
 "builtIn": "SDK::Endpoint",
 "required": false,
 "documentation": "Override the endpoint used to send this request",
 "type": "String"
 }
},
"rules": [
 {
 "conditions": [
 {
 "fn": "isSet",
 "argv": [
 {
 "ref": "Endpoint"
 }
]
 }
]
 }
],
"type": "tree",
"rules": [
 {

 "conditions": [
 {
 "fn": "booleanEquals",
 "argv": [
 {
 "ref": "UseFIPS"
 },
 true
]
 }
]
 }
]

```

```

 }
],
 "error": "Invalid Configuration: FIPS and custom endpoint are not supported",
 "type": "error"
},
{
 "conditions": [],
 "type": "tree",
 "rules": [
 {

"conditions": [
 {
 "fn": "booleanEquals",
 "argv": [
 {
 "ref": "UseDualStack"
 },
 true
]
 }
],
 "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
 "type": "error"
},
{
 "conditions": [],

"endpoint": {
 "url": {
 "ref": "Endpoint"
 },
 "properties": {},
 "headers": {}
},
 "type": "endpoint"
}
]
}
],
{
 "conditions": [],
 "type": "tree",
 "rules": [
 {
 "conditions": [
 {

```



```

 "fn": "isSet",
 "argv": [
 {
 "ref": "Region"
 }
]
 },
],
 "type": "tree",
 "rules": [
 {
 "conditions": [
 {
 "fn": "aws.partition",
 "argv": [
 {
 "ref": "Region"
 }
]
 },
],
 "assign": "PartitionResult"
 }
],
 "type": "tree",
 "rules": [
 {
 "conditions": [
 {
 "fn": "booleanEquals",
 "argv": [
 {
 "ref": "UseFIPS"
 },
 true
]
 }
],
 "fn": "booleanEquals",
 "argv": [
 {
 "ref": "UseDualStack"
 },
 true
]
 }
],
],

```

```

"type": "tree",
"rules": [
 {
 "conditions": [
 {
 "fn": "booleanEquals",
 "argv": [
 true,
 {
 "fn": "getAttr",
 "argv": [
 {
 "ref": "PartitionResult"
 },
 "supportsFIPS"
]
 }
]
 },
 {
 "fn": "booleanEquals",
 "argv": [
 true,
 {
 "fn": "getAttr",
 "argv": [
 {
 "ref": "PartitionResult"
 },
 "supportsDualStack"
]
 }
]
 }
],
 "type": "tree",
 "rules": [
 {
 "conditions": [],
 "type": "tree",
 "rules": [
 {
 "conditions": [],
 "endpoint": {

```

```

 "url": "https://license-manager-linux-subscriptions-
fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
 "properties": {},
 "headers": {}
 },
 "type": "endpoint"
}
]
}
]
},
{
 "conditions": [],
 "error": "FIPS and DualStack are enabled, but this partition does not support
one or both",
 "type": "error"
}
],
{
 "conditions": [
 {
 "fn": "booleanEquals",
 "argv": [
 {
 "ref": "UseFIPS"
 },
 true
]
 }
],
 "type": "tree",
 "rules": [
 {
 "conditions": [
 {
 "fn": "booleanEquals",
 "argv": [
 true,
 {
 "fn": "getAttr",
 "argv": [
 {
 "ref": "PartitionResult"
 }
],
 }
]
 }
]
 }
]
}

```

```

 "supportsFIPS"
]
 }
]
}
],
"type": "tree",

"rules": [
 {
 "conditions": [],
 "type": "tree",
 "rules": [
 {
 "conditions": [],
 "endpoint": {
 "url": "https://license-manager-linux-subscriptions-
fips.{Region}.{PartitionResult#dnsSuffix}",
 "properties": {},
 "headers": {}
 },
 "type": "endpoint"
 }
]
 }
],
{
 "conditions": [],
 "error": "FIPS is enabled but this partition does not support FIPS",
 "type": "error"
}
]
},
{
 "conditions": [
 {
 "fn": "booleanEquals",
 "argv": [
 {
 "ref": "UseDualStack"
 },
 true
]
 }
]
}
],

```

```

"type": "tree",
"rules": [
 {
 "conditions": [
 {
 "fn": "booleanEquals",
 "argv": [
 true,
 {
 "fn": "getAttr",
 "argv": [
 {
 "ref": "PartitionResult"
 },
 "supportsDualStack"
]
 }
]
 }
]
 },
 "type": "tree",
 "rules": [
 {
 "conditions": [],
 "type": "tree",
 "rules": [
 {
 "conditions": [],

 "endpoint": {
 "url": "https://license-manager-linux-
subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
 "properties": {},
 "headers": {}
 },
 "type": "endpoint"
 }
]
 }
]
},

{
 "conditions": [],
 "error": "DualStack is enabled but this partition does not support DualStack",
 "type": "error"
}

```

```

]
 },
 {
 "conditions": [],
 "type": "tree",
 "rules": [
 {
 "conditions": [],
 "endpoint": {
 "url":
"https://license-manager-linux-subscriptions.{Region}.{PartitionResult#dnsSuffix}",
 "properties": {},
 "headers": {}
 },
 "type": "endpoint"
 }
]
 }
]
 }
]
},
{
 "conditions": [],
 "error": "Invalid Configuration: Missing Region",
 "type": "error"
}
]
}
]
},
"smithy.rules#endpointTests": {
 "testCases": [
 {
 "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-linux-subscriptions-fips.us-gov-east-1.api.aws"
 }
 },
 "params": {
 "UseDualStack": true,
 "UseFIPS": true,
 "Region": "us-gov-east-1"
 }
 },
 {
 "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",

```

```

"expect": {

"endpoint": {
 "url": "https://license-manager-linux-subscriptions-fips.us-gov-east-1.amazonaws.com"
}
},
"params": {
 "UseDualStack": false,
 "UseFIPS": true,
 "Region": "us-gov-east-1"
}
},
{
 "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack enabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-linux-subscriptions.us-gov-east-1.api.aws"
 }
 },
 "params": {
 "UseDualStack": true,

"UseFIPS": false,
 "Region": "us-gov-east-1"
 }
},
{
 "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-linux-subscriptions.us-gov-east-1.amazonaws.com"
 }
 },
 "params": {
 "UseDualStack": false,
 "UseFIPS": false,
 "Region": "us-gov-east-1"
 }
},
{
 "documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
 "expect": {

"endpoint": {
 "url": "https://license-manager-linux-subscriptions-fips.cn-north-
1.api.amazonwebservices.com.cn"
 }
},

```

```

 "params": {
 "UseDualStack": true,
 "UseFIPS": true,
 "Region": "cn-north-1"
 }
 },
 {
 "documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-linux-subscriptions-fips.cn-north-1.amazonaws.com.cn"
 }
 },
 "params": {
 "UseDualStack": false,

 "UseFIPS": true,
 "Region": "cn-north-1"
 }
 },
 {
 "documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-linux-subscriptions.cn-north-1.api.amazonwebservices.com.cn"
 }
 },
 "params": {
 "UseDualStack": true,
 "UseFIPS": false,
 "Region": "cn-north-1"
 }
 },
 {
 "documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
 "expect":
 {
 "endpoint": {
 "url": "https://license-manager-linux-subscriptions.cn-north-1.amazonaws.com.cn"
 }
 },
 "params": {
 "UseDualStack": false,
 "UseFIPS": false,
 "Region": "cn-north-1"
 }
 },
 {

```



```

 "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
 "expect": {
 "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
 },
 "params": {
 "UseDualStack": true,
 "UseFIPS": true,
 }
 },
 "Region": "us-iso-east-1"
},
{
 "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-linux-subscriptions-fips.us-iso-east-1.c2s.ic.gov"
 }
 },
 "params": {
 "UseDualStack": false,
 "UseFIPS": true,
 "Region": "us-iso-east-1"
 }
},
{
 "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
 "expect": {
 "error": "DualStack is enabled but
this partition does not support DualStack"
 },
 "params": {
 "UseDualStack": true,
 "UseFIPS": false,
 "Region": "us-iso-east-1"
 }
},
{
 "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-linux-subscriptions.us-iso-east-1.c2s.ic.gov"
 }
 },
 "params": {
 "UseDualStack": false,
 "UseFIPS": false,
 "Region": "us-iso-east-1"
 }
}

```

```

 },
 {
 "documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-linux-subscriptions-fips.us-east-1.api.aws"
 }
 },
 "params": {
 "UseDualStack": true,
 "UseFIPS": true,
 "Region": "us-east-1"
 }
 },
 {
 "documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-linux-subscriptions-fips.us-east-1.amazonaws.com"
 }
 },
 "params": {
 "UseDualStack": false,
 "UseFIPS": true,
 "Region": "us-east-1"
 }
 },
 {
 "documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-linux-subscriptions.us-east-1.api.aws"
 }
 },
 "params": {
 "UseDualStack": true,
 "UseFIPS": false,
 "Region": "us-east-1"
 }
 },
 {
 "documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-linux-subscriptions.us-east-1.amazonaws.com"
 }
 }
 }
]
}

```

```

 },
 "params": {
 "UseDualStack": false,
 "UseFIPS": false,
 "Region": "us-east-1"
 }
 },
 {
 "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
 "expect": {
 "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
 },
 "params": {
 "UseDualStack": true,
 "UseFIPS": true,
 "Region": "us-isob-east-1"
 }
 },
 {
 "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-linux-subscriptions-fips.us-isob-east-1.sc2s.sgov.gov"
 }
 },
 "params": {
 "UseDualStack": false,
 "UseFIPS": true,
 "Region": "us-isob-east-1"
 }
 },
 {
 "documentation": "For region us-isob-east-1 with FIPS disabled
and DualStack enabled",
 "expect": {
 "error": "DualStack is enabled but this partition does not support DualStack"
 },
 "params": {
 "UseDualStack": true,
 "UseFIPS": false,
 "Region": "us-isob-east-1"
 }
 },
 {
 "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
 "expect": {
 "endpoint": {

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 "url": "https://license-manager-linux-subscriptions.us-isob-east-1.sc2s.sgov.gov"
 }
},
"params": {
 "UseDualStack": false,
"UseFIPS": false,
 "Region": "us-isob-east-1"
}
},
{
 "documentation": "For custom endpoint with fips disabled and dualstack disabled",
 "expect": {
 "endpoint": {
 "url": "https://example.com"
 }
 },
 "params": {
 "UseDualStack": false,
 "UseFIPS": false,
 "Region": "us-east-1",
 "Endpoint": "https://example.com"
 }
},
{
 "documentation": "For custom endpoint with fips enabled and dualstack disabled",
 "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
},
 "params": {
 "UseDualStack": false,
 "UseFIPS": true,
 "Region": "us-east-1",
 "Endpoint": "https://example.com"
 }
},
{
 "documentation": "For custom endpoint with fips disabled and dualstack enabled",
 "expect": {
 "error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
 },
 "params": {
 "UseDualStack": true,
 "UseFIPS": false,
 "Region": "us-east-1",

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"Endpoint": "https://example.com"
 }
 }
],
 "version": "1.0"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery": {
 "type": "string",
 "traits": {
 "smithy.api#enum": [
 {
 "name": "Enabled",
 "value": "Enabled",
 "documentation": "Enabled LinuxSubscriptionsDiscovery"
 },
 {
 "name": "Disabled",
 "value": "Disabled",
 "documentation": "Disabled LinuxSubscriptionsDiscovery"
 }
]
 }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings": {
 "type": "structure",
 "members": {

 "SourceRegions": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
 "traits": {
 "smithy.api#documentation": "<p>The Regions in which to discover data for Linux
subscriptions.</p>",
 "smithy.api#required": {}
 }
 },
 "OrganizationIntegration": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#OrganizationIntegration",
 "traits": {
 "smithy.api#documentation": "<p>Details if you have enabled resource discovery across your
accounts in Organizations.</p>",
 "smithy.api#required": {}
 }
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>Lists the settings defined for discovering Linux subscriptions.</p>"
 }
}

```

```

 }
 },
 "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstances":
 {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerErrorException"
 },
 {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
 },
 {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Lists the running Amazon EC2 instances that were discovered with commercial Linux\nsubscriptions.</p>",
 "smithy.api#http": {
 "code": 200,
 "method": "POST",
 "uri": "/subscription/ListLinuxSubscriptionInstances"
 },
 "smithy.api#idempotent": {},
 "smithy.api#paginated": {
 "inputToken": "NextToken",
 "outputToken": "NextToken",
 "pageSize": "MaxResults",
 "items": "Instances"
 }
 }
 },
 "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesRequest": {
 "type": "structure",
 "members": {
 "Filters": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList",
 "traits": {
 "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those that match one or\n

```

```

 more sets of key-value pairs that you specify. For example, you can filter by the name of
 <code>AmiID</code> with an optional operator to see subscriptions that match, partially
 match, or don't match a certain Amazon Machine Image (AMI) ID.</p>
 <p>The valid names for this filter are:</p>

 <code>AmiID</code>
 <code>InstanceID</code>
 <code>AccountID</code>
 <code>Status</code>
 <code>Region</code>
 <code>UsageOperation</code>
 <code>ProductCode</code>
 <code>InstanceType</code>

 <p>The valid Operators for this filter are:</p>

 <code>contains</code>
 <code>equals</code>
 <code>NotEqual</code>

 }
},
 "MaxResults": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger",
 "traits": {
 "smithy.api#documentation":
 "<p>Maximum number of results to return in a single call.</p>"
 }
 },
 "NextToken": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>",
 "smithy.api#length": {
 "min": 1,
 "max": 16384
 }
 }
 },
 "traits": {
 "smithy.api#documentation": "NextToken length limit is half of ddb accepted limit.\nIncrease this limit if
parameters in request increases."
 }
},
 "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesResponse": {
 "type": "structure",
 "members": {
 "Instances": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InstanceList",
 "traits": {
 "smithy.api#documentation": "<p>An array that contains instance objects.</p>"
 }
 }
 }
 }
}

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 },
 "NextToken": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 }
 },
 "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptions": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerErrorException"
 },
 {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
 },
 {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Lists the Linux subscriptions that have been discovered. If you have linked your\n organization, the returned results will include data aggregated across your accounts in\n Organizations.</p>",
 "smithy.api#http": {
 "code": 200,
 "method": "POST",
 "uri": "/subscription/ListLinuxSubscriptions"
 },
 "smithy.api#idempotent": {},
 "smithy.api#paginated": {
 "inputToken": "NextToken",
 "outputToken": "NextToken",
 "pageSize": "MaxResults",
 "items": "Subscriptions"
 }
 }
 },
 "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsRequest": {
 "type": "structure",

```



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"members": {
 "Filters": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList",
 "traits": {
 "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those
that match one or\n more sets of key-value pairs that you specify. For example, you can filter by the name of\n
<code>Subscription</code> with an optional operator to see subscriptions that match,\n partially match, or don't
match a certain subscription's name.</p>\n <p>The valid names for this filter are:</p>\n \n
\n <p>\n <code>Subscription</code>\n </p>\n \n
\n <p>The valid Operators for this filter are:</p>\n \n \n <p>\n <code>contains</code>\n </p>\n \n \n <p>\n <code>equals</code>\n </p>\n \n \n <p>\n <code>NotEqual</code>\n </p>\n \n "
 }
 },
 "MaxResults": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger",
 "traits": {
 "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
 }
 },
 "NextToken": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the
next set of results.</p>",
 "smithy.api#length": {
 "min": 1,
 "max": 16384
 }
 }
 },
 "traits": {
 "smithy.api#documentation": "NextToken length limit is half of ddb accepted limit.\nIncrease this limit if
parameters in request increases."
 }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsResponse": {
 "type": "structure",
 "members": {
 "Subscriptions": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionList",
 "traits": {
 "smithy.api#documentation": "<p>An array that contains subscription objects.</p>"
 }
 }
 },
 "NextToken": {

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 "target": "smithy.api#String",

"traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Operator": {
 "type": "string",
 "traits": {
 "smithy.api#enum": [
 {
 "name": "EQUAL",
 "value": "Equal",
 "documentation": "Equal operator"
 },
 {
 "name": "NOT_EQUAL",
 "value": "NotEqual",
 "documentation": "Not equal operator"
 },
 {
 "name": "CONTAINS",
 "value": "Contains",
 "documentation": "Contains operator"
 }
],
 "smithy.api#length": {
 "min": 1,
 "max": 20
 }
 }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#OrganizationIntegration": {
 "type": "string",
 "traits": {
 "smithy.api#enum": [
 {
 "name": "Enabled",
 "value": "Enabled",
 "documentation": "Enabled OrganizationIntegration"
 },
 {
 "name": "Disabled",
 "value": "Disabled",
 "documentation": "Disabled OrganizationIntegration"
 }
]
 }
}

```

```

]
 }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ProductCodeList": {
 "type": "list",
 "member": {
 "target": "smithy.api#String"
 }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Status": {
 "type": "string",
 "traits": {
 "smithy.api#enum": [
 {
 "name": "InProgress",
 "value": "InProgress",
 "documentation": "InProgress status"
 },
 {
 "name": "Completed",
 "value": "Completed",
 "documentation": "Completed status"
 },
 {
 "name": "Successful",
 "value": "Successful",
 "documentation": "Successful status"
 },
 {
 "name": "Failed",
 "value": "Failed",
 "documentation": "Failed status"
 }
]
 }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#StringList": {
 "type": "list",
 "member": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#length": {
 "min": 1,
 "max": 100
 }
 }
 }
},

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"traits": {
 "smithy.api#length": {
 "min": 1,
 "max": 100
 },
 "smithy.api#uniqueItems": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#StringMap": {
 "type": "map",
 "key": {
 "target": "smithy.api#String"
 },
 "value": {
 "target": "smithy.api#String"
 }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Subscription": {
 "type": "structure",
 "members": {
 "Name": {
 "target": "smithy.api#String",
 "traits": {
"smithy.api#documentation": "<p>The name of the subscription.</p>"
 }
 },
 "Type": {
 "target": "smithy.api#String",
 "traits": {
"smithy.api#documentation": "<p>The type of subscription. The type can be subscription-included with Amazon EC2, Bring Your Own\n Subscription model (BYOS), or from the Amazon Web Services Marketplace. Certain subscriptions may use licensing from the\n Amazon Web Services Marketplace as well as OS licensing from Amazon EC2 or BYOS.</p>"
 }
 },
 "InstanceCount": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxLong",
 "traits": {
"smithy.api#documentation": "<p>The total amount of running instances using this subscription.</p>"
 }
 }
 },
 "traits": {
"smithy.api#documentation": "<p>An object which details a discovered Linux subscription.</p>"
 }
},

```

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"com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Subscription"
 }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException": {
 "type": "structure",
 "members": {
 "message": {
 "target": "smithy.api#String"
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>The request was denied due to request throttling.</p>",
 "smithy.api#error": "client"
 }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettings": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerErrorException"
 },
 {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
 },
 {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Updates the service settings for Linux subscriptions.</p>",
 "smithy.api#http": {
 "code": 200,
 "method": "POST",
 "uri": "/subscription/UpdateServiceSettings"
 },
 "smithy.api#idempotent": {}
 }
},

```

```

"com.amazonaws.licenseanagerlinuxsubscriptions#UpdateServiceSettingsRequest": {
 "type": "structure",
 "members": {
 "LinuxSubscriptionsDiscovery": {
 "target": "com.amazonaws.licenseanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
 "traits": {
 "smithy.api#documentation": "<p>Describes if the discovery of Linux subscriptions is enabled.</p>",
 "smithy.api#required": {}
 }
 },
 "LinuxSubscriptionsDiscoverySettings": {
 "target": "com.amazonaws.licenseanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
 "traits": {
 "smithy.api#documentation": "<p>The settings defined for Linux subscriptions discovery. The settings include if Organizations\n integration has been enabled, and which Regions data will be aggregated from.</p>",
 "smithy.api#required": {}
 }
 },
 "AllowUpdate": {
 "target": "smithy.api#Boolean",
 "traits": {
 "smithy.api#documentation": "<p>Describes if updates are allowed to the service settings for Linux subscriptions. If you\n allow updates, you can aggregate Linux subscription data in more than one home Region.</p>"
 }
 }
 },
 "com.amazonaws.licenseanagerlinuxsubscriptions#UpdateServiceSettingsResponse": {
 "type": "structure",
 "members": {
 "LinuxSubscriptionsDiscovery": {
 "target": "com.amazonaws.licenseanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
 "traits": {
 "smithy.api#documentation": "<p>Lists if discovery has been enabled for Linux subscriptions.</p>"
 }
 },
 "LinuxSubscriptionsDiscoverySettings": {
 "target": "com.amazonaws.licenseanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
 "traits": {
 "smithy.api#documentation": "<p>The settings defined for Linux subscriptions discovery. The settings include if Organizations\n integration has been enabled, and which Regions data will be aggregated from.</p>"
 }
 },
 "Status": {

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 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Status",
 "traits": {
 "smithy.api#documentation": "<p>Indicates the status of Linux subscriptions settings being
applied.</p>"
 }
 },
 "StatusMessage": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap",
 "traits": {
 "smithy.api#documentation": "<p>A message which details the Linux subscriptions service settings
current status.</p>"
 }
 },
 "HomeRegions": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
 "traits": {
 "smithy.api#documentation": "<p>The Region in which License Manager displays the aggregated
data for Linux\n subscriptions.</p>"
 }
 }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException": {
 "type": "structure",
 "members": {
 "message": {
 "target": "smithy.api#String"
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>The provided input is not valid. Try your request again.</p>",
 "smithy.api#error":
"client"
 }
}
}
{
 "smithy": "2.0",
 "shapes": {
 "com.amazonaws.licensemanageruserssubscriptions#AccessDeniedException": {
 "type": "structure",
 "members": {
 "message": {
 "target": "smithy.api#String"
 }
 },
 "traits": {

```

```

 "smithy.api#documentation": "<p>You don't have sufficient access to perform this action.</p>",
 "smithy.api#error": "client"
 }
},
"com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryIdentityProvider": {
 "type": "structure",
 "members": {
 "DirectoryId": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The directory ID for an Active Directory identity provider.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#documentation":
"<p>Details about an Active Directory identity provider.</p>"
 }
},
"com.amazonaws.licensemanagerusersubscriptions#AssociateUser": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUserRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUserResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
 },
 {
 "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerErrorException"
 },
 {
 "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
 },
 {
 "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
 },
 {
 "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
 },
 {
 "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
 }
]
}

```



```

 }
],
 "traits": {
 "smithy.api#documentation": "<p>Associates the user to an EC2 instance to utilize user-based
subscriptions.</p>\n <note>\n <p>Your estimated bill for charges on the number of users and related
costs will take 48\n hours to appear for billing periods that haven't closed (marked as Pending billing
status) in Amazon Web Services Billing. For more information, see Viewing your\n
monthly charges in the <i>Amazon Web Services Billing User Guide</i>.</p>\n </note>",
 "smithy.api#http": {
 "code": 200,
 "method": "POST",
 "uri": "/user/AssociateUser"
 },
 "smithy.api#idempotent": {}
 }
},
"com.amazonaws.licenseanagerusersubscriptions#AssociateUserRequest": {
 "type": "structure",
 "members": {
 "Username": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
 "smithy.api#required": {}
 }
 },
 "InstanceId": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The ID of the
EC2 instance, which provides user-based subscriptions.</p>",
 "smithy.api#required": {}
 }
 },
 "IdentityProvider": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#IdentityProvider",
 "traits": {
 "smithy.api#documentation": "<p>The identity provider of the user.</p>",
 "smithy.api#required": {}
 }
 },
 "Domain": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The domain name of the user.</p>"
 }
 }
 }
}

```

```

 }
 },
 "com.amazonaws.licenseanagerusersubscriptions#AssociateUserResponse": {
 "type": "structure",
 "members": {
 "InstanceUserSummary": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#InstanceUserSummary",
 "traits": {
 "smithy.api#documentation": "<p>Metadata that describes the associate user operation.</p>",
 "smithy.api#required": {}
 }
 }
 }
 },
 "com.amazonaws.licenseanagerusersubscriptions#BoxInteger": {
 "type": "integer"
 },
 "com.amazonaws.licenseanagerusersubscriptions#ConflictException": {
 "type": "structure",
 "members": {
 "message": {
 "target": "smithy.api#String"
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>The request couldn't be completed because it conflicted with the current state of the\n resource.</p>",
 "smithy.api#error": "server"
 }
 },
 "com.amazonaws.licenseanagerusersubscriptions#DeregisterIdentityProvider":
 {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#DeregisterIdentityProviderRequest"
 },
 "output": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#DeregisterIdentityProviderResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ConflictException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#InternalServerErrorException"
 }
]
 }
}

```

```

 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ResourceNotFoundException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ServiceQuotaExceededException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ThrottlingException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Deregisters the identity provider from providing user-based
subscriptions.</p>",
 "smithy.api#http": {
 "code": 200,
 "method": "POST",
 "uri": "/identity-provider/DeregisterIdentityProvider"
 },
 "smithy.api#idempotent": {}
 }
},
"com.amazonaws.licenseanagerusersubscriptions#DeregisterIdentityProviderRequest": {
 "type": "structure",
 "members": {
 "IdentityProvider": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#IdentityProvider",
 "traits": {
 "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
 "smithy.api#required": {}
 }
 },
 "Product": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
 "smithy.api#required": {}
 }
 }
 }
},
"com.amazonaws.licenseanagerusersubscriptions#DeregisterIdentityProviderResponse": {
 "type": "structure",
 "members": {
 "IdentityProviderSummary": {

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 "target": "com.amazonaws.licenseanagerusersubscriptions#IdentityProviderSummary",
 "traits": {
 "smithy.api#documentation":
 "<p>Metadata that describes the results of an identity provider operation.</p>",
 "smithy.api#required": {}
 }
 },
 "com.amazonaws.licenseanagerusersubscriptions#DisassociateUser": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#DisassociateUserRequest"
 },
 "output": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#DisassociateUserResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ConflictException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#InternalServerErrorException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ResourceNotFoundException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ServiceQuotaExceededException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ThrottlingException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Disassociates the user from an EC2 instance providing user-based
subscriptions.</p>",
 "smithy.api#http": {
 "code": 200,
 "method": "POST",
 "uri": "/user/DisassociateUser"
 }
 }
 }
}

```

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 "smithy.api#idempotent": {}
 }
},
"com.amazonaws.licenseanagerusersubscriptions#DisassociateUserRequest": {
 "type": "structure",
 "members": {
 "Username": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
 "smithy.api#required": {}
 }
 },
 "InstanceId": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
 "smithy.api#required": {}
 }
 },
 "IdentityProvider": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#IdentityProvider",
 "traits": {
 "smithy.api#documentation":
"<p>An object that specifies details for the identity provider.</p>",
 "smithy.api#required": {}
 }
 },
 "Domain": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The domain name of the user.</p>"
 }
 }
 }
},
"com.amazonaws.licenseanagerusersubscriptions#DisassociateUserResponse": {
 "type": "structure",
 "members": {
 "InstanceUserSummary": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#InstanceUserSummary",
 "traits": {
 "smithy.api#documentation": "<p>Metadata that describes the associate user operation.</p>",
 "smithy.api#required": {}
 }
 }
 }
}

```

```

 }
 },
 "com.amazonaws.licensemanagerusersubscriptions#Filter": {
 "type": "structure",
 "members": {
 "Attribute": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The name of an attribute to use as a filter.</p>"
 }
 },
 "Operation": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The type of search (For example, eq, geq, leq)</p>"
 }
 },
 "Value": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>Value of the filter.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>A filter name and value pair that is used
to return more specific results from a describe\n operation. Filters can be used to match a set of resources by
specific criteria, such as tags,\n attributes, or IDs.</p>"
 }
 },
 "com.amazonaws.licensemanagerusersubscriptions#FilterList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanagerusersubscriptions#Filter"
 }
 },
 "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider": {
 "type": "union",
 "members": {
 "ActiveDirectoryIdentityProvider": {
 "target": "com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryIdentityProvider",
 "traits": {
 "smithy.api#documentation": "<p>An object that details an Active Directory identity provider.</p>"
 }
 }
 }
 },
 "traits": {

```

```

 "smithy.api#documentation":
"<p>Details about an identity provider.</p>"
 }
},
"com.amazonaws.licenseanagerusersubscriptions#IdentityProviderSummary": {
 "type": "structure",
 "members": {
 "IdentityProvider": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#IdentityProvider",
 "traits": {
 "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
 "smithy.api#required": {}
 }
 },
 "Settings": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#Settings",
 "traits": {
 "smithy.api#documentation": "<p>An object that details the registered identity providers product
related configuration\n settings such as the subnets to provision VPC endpoints.</p>",
 "smithy.api#required":
{}
 }
 },
 "Product": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
 "smithy.api#required": {}
 }
 },
 "Status": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The status of an identity provider.</p>",
 "smithy.api#required": {}
 }
 },
 "FailureMessage": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The failure message associated with an identity provider.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#documentation":
"<p>Describes an identity provider.</p>"
 }
}

```

```

 },
 "com.amazonaws.licenseanagerusersubscriptions#IdentityProviderSummaryList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#IdentityProviderSummary"
 }
 },
 "com.amazonaws.licenseanagerusersubscriptions#InstanceSummary": {
 "type": "structure",
 "members": {
 "InstanceId": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
 "smithy.api#required": {}
 }
 },
 "Status": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The status
of an EC2 instance resource.</p>",
 "smithy.api#required": {}
 }
 },
 "Products": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#StringList",
 "traits": {
 "smithy.api#documentation": "<p>A list of provided user-based subscription products.</p>",
 "smithy.api#required": {}
 }
 },
 "LastStatusCheckDate": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The date of the last status check.</p>"
 }
 },
 "StatusMessage": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The status message for an EC2 instance.</p>"
 }
 }
 }
 },
 "traits": {

```



```

 "smithy.api#documentation": "<p>Describes an EC2 instance providing user-based subscriptions.</p>"
 }
},
"com.amazonaws.licenseanagerusersubscriptions#InstanceSummaryList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#InstanceSummary"
 }
},
"com.amazonaws.licenseanagerusersubscriptions#InstanceUserSummary": {
 "type": "structure",
 "members": {
 "Username": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
 "smithy.api#required": {}
 }
 },
 "InstanceId": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
 "smithy.api#required": {}
 }
 },
 "IdentityProvider": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#IdentityProvider",
 "traits": {
 "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
 "smithy.api#required": {}
 }
 },
 "Status": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The status of a user associated with an EC2 instance.</p>",
 "smithy.api#required": {}
 }
 },
 "StatusMessage": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The status message for users of an EC2 instance.</p>"
 }
 }
 }
},

```

```

 "Domain": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The domain name of the user.</p>"
 }
 },
 "AssociationDate": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The date a user was associated with an EC2 instance.</p>"
 }
 },
 "DisassociationDate": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The date a user was disassociated from an EC2 instance.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>Describes users of an EC2 instance providing user-based
subscriptions.</p>"
 }
},
"com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummaryList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary"
 }
},
"com.amazonaws.licensemanagerusersubscriptions#InternalServerError": {
 "type": "structure",
 "members": {
 "message": {
 "target": "smithy.api#String"
 }
 }
},
"traits": {
 "smithy.api#documentation": "<p>An exception occurred with the service.</p>",
 "smithy.api#error": "server"
}
},
"com.amazonaws.licensemanagerusersubscriptions#LicenseManagerUserSubscriptions": {
 "type": "service",

"version": "2018-05-10",
"operations": [

```

```

 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#AssociateUser"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#DeregisterIdentityProvider"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#DisassociateUser"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ListIdentityProviders"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ListInstances"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ListProductSubscriptions"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ListUserAssociations"
 }
],
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#RegisterIdentityProvider"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#StartProductSubscription"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#StopProductSubscription"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#UpdateIdentityProviderSettings"
 }
],
"traits": {
 "aws.api#service": {
 "sdkId": "License Manager User Subscriptions",
 "arnNamespace": "license-manager-user-subscriptions",
 "cloudTrailEventSource": "license-manager-user-subscriptions.amazonaws.com"
 },
 "aws.auth#sigv4": {
 "name": "license-manager-user-subscriptions"
 },
 "aws.protocols#restJson1": {},
 "smithy.api#cors": {
 "additionalAllowedHeaders": [
 "*"
]
 }
}

```

```

 "content-type",
 "x-amz-content-sha256",
 "x-amz-user-agent",
 "x-amzn-platform-id",
 "x-amzn-trace-id",
 "content-length",
 "x-api-key",
 "authorization",
 "x-amz-date",
 "x-amz-security-token",
 "Access-Control-Allow-Headers",
 "Access-Control-Allow-Methods",
 "Access-Control-Allow-Origin"
],
 "additionalExposedHeaders": [
 "x-amzn-errortype",
 "x-amzn-requestid",
 "x-amzn-trace-id"
]
}
]
},
"smithy.api#documentation": "<p>With License Manager, you can create user-based subscriptions to utilize licensed software with a per user subscription fee on Amazon EC2 instances.</p>",
"smithy.api#title": "AWS License Manager User Subscriptions",
"smithy.rules#endpointRuleSet": {
 "version": "1.0",
 "parameters": {
 "Region": {
 "builtIn": "AWS::Region",
 "required": false,
 "documentation": "The AWS region used to dispatch the request.",
 "type": "String"
 },
 "UseDualStack": {
 "builtIn": "AWS::UseDualStack",
 "required": true,
 "default": false,
 "documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
 "type": "Boolean"
 },
 "UseFIPS": {
 "builtIn": "AWS::UseFIPS",
 "required": true,
 "default": false,
 "documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
 "type": "Boolean"
 }
 }
}

```

```

 },
 "Endpoint": {
 "builtIn": "SDK::Endpoint",
 "required": false,
 "documentation": "Override the endpoint used to send this request",
 "type": "String"
 }
 },
 "rules": [
 {
 "conditions": [
 {
 "fn": "isSet",
 "argv": [
 {
 "ref": "Endpoint"
 }
]
 }
]
 }
],
 "type": "tree",
 "rules": [
 {
 "conditions": [
 {
 "fn": "booleanEquals",
 "argv": [
 {
 "ref": "UseFIPS"
 },
 true
]
 }
],
 "error": "Invalid Configuration: FIPS and custom endpoint are not supported",
 "type": "error"
 },
 {
 "conditions": [],
 "type": "tree",
 "rules": [
 {
 "conditions": [
 {
 "fn": "booleanEquals",
 "argv": [

```

```

 {
 "ref": "UseDualStack"
 },
 true
]
}
],
"error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
"type": "error"
},
{
 "conditions": [],
 "endpoint": {
 "url": {
 "ref": "Endpoint"
 },
 "properties": {},
 "headers": {}
 },
 "type": "endpoint"
}
]
}
]
},
{
 "conditions": [],
 "type": "tree",
 "rules": [
 {
 "conditions": [
 {
 "fn": "isSet",
 "argv": [
 {
 "ref": "Region"
 }
]
 }
],
 "type": "tree",
 }
],
 "rules": [
 {
 "conditions": [
 {

```

```

 "fn": "aws.partition",
 "argv": [
 {
 "ref": "Region"
 }
],
 "assign": "PartitionResult"
 }
],
"type": "tree",
"rules": [
 {
 "conditions": [
 {
 "fn": "booleanEquals",
 "argv": [
 {
 "ref": "UseFIPS"
 },
 true
]
 },
 {
 "fn": "booleanEquals",
 "argv": [
 {
 "ref": "UseDualStack"
 },
 true
]
 }
],
 "type": "tree",
 "rules": [
 {
 "conditions": [
 {
 "fn": "booleanEquals",
 "argv": [
 true,
 {
 "fn": "getAttr",
 "argv": [
 {
 "ref": "PartitionResult"
 }
]
 }
]
 }
]
 }
]
 }
]

```

```

 },
 "supportsFIPS"
]
}
],
},
{
 "fn": "booleanEquals",
 "argv": [

 true,
 {
 "fn": "getAttr",
 "argv": [
 {
 "ref": "PartitionResult"
 },
 "supportsDualStack"
]
 }
]
}
],
},
],
 "type": "tree",
 "rules": [
 {
 "conditions": [],
 "type": "tree",
 "rules": [
 {
 "conditions": [],
 "endpoint": {
 "url": "https://license-manager-user-subscriptions-
fips.{Region}.{PartitionResult#dualStackDnsSuffix}",

 "properties": {},

 "headers": {}
 },
 "type": "endpoint"
]
 }
]
}
],
},
{
 "conditions": [],
 "error": "FIPS and DualStack are enabled, but this partition does not support

```





```

 {
 "conditions": [],
 "endpoint": {
 "url": "https://license-manager-user-subscriptions-
fips.{Region}.{PartitionResult#dnsSuffix}",
 "properties": {},
 "headers": {}
 },
 "type": "endpoint"
 }
]
},
{
 "conditions": [],
 "error": "FIPS is enabled but this partition does not support FIPS",
 "type": "error"
}
],
{
 "conditions": [
 {
 "fn": "booleanEquals",
 "argv": [
 {
 "ref": "UseDualStack"
 },
 true
]
 }
],
 "type": "tree",
 "rules": [
 {
 "conditions": [
 {
 "fn": "booleanEquals",
 "argv": [
 true,
 {
 "fn": "getAttr",
 "argv": [
 {

```

```

 "ref": "PartitionResult"
 },
 "supportsDualStack"
]
 }
]
},
],
"type": "tree",
"rules": [
 {
 "conditions": [],
 "type": "tree",
 "rules": [
 {
 "conditions": [],
 "endpoint": {
 "url": "https://license-manager-user-
subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
 "properties": {}},
 "headers": {}
 },
 {
 "type": "endpoint"
 }
]
 },
 {
 "conditions": [],
 "error": "DualStack is enabled but this partition does not support DualStack",
 "type": "error"
 }
]
},
{
 "conditions": [],
 "type": "tree",
 "rules": [
 {
 "conditions": [],
 "endpoint": {
 "url": "https://license-manager-user-
subscriptions.{Region}.{PartitionResult#dnsSuffix}",
 "properties": {}},

```

```

 "headers": {}
 },
 "type": "endpoint"
 }
]
}
],
},
{
 "conditions": [],
 "error": "Invalid Configuration: Missing Region",
 "type": "error"
}
]
}
],
},
"smithy.rules#endpointTests": {
 "testCases": [
 {
 "documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-user-subscriptions-fips.us-east-1.api.aws"
 }
 },
 "params": {
 "Region": "us-east-1",
 "UseDualStack": true,
 "UseFIPS": true
 }
 },
 {
 "documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-user-subscriptions-fips.us-east-1.amazonaws.com"
 }
 },
 "params": {
 "Region": "us-east-1",
 "UseDualStack": false,
 "UseFIPS":
true
 }
]
}

```

```

 },
 {
 "documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-user-subscriptions.us-east-1.api.aws"
 }
 },
 "params": {
 "Region": "us-east-1",
 "UseDualStack": true,
 "UseFIPS": false
 }
 },
 {
 "documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-user-subscriptions.us-east-1.amazonaws.com"
 }
 },
 "params": {
 "Region": "us-east-1",
 "UseDualStack": false,
 "UseFIPS": false
 }
 },
 {
 "documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-user-subscriptions-fips.cn-north-
1.api.amazonwebservices.com.cn"
 }
 },
 "params": {
 "Region": "cn-north-1",
 "UseDualStack": true,
 "UseFIPS": true
 }
 },
 {
 "documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-user-subscriptions-fips.cn-north-1.amazonaws.com.cn"
 }
 }
 }
 }
}

```

```

 },
 "params": {
 "Region": "cn-north-1",
 "UseDualStack": false,
 "UseFIPS": true
 }
 },
 {
 "documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-user-subscriptions.cn-north-1.api.amazonwebservices.com.cn"
 }
 },
 "params": {
 "Region": "cn-north-1",
 "UseDualStack": true,
 "UseFIPS": false
 }
 },
 {
 "documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-user-subscriptions.cn-north-1.amazonaws.com.cn"
 }
 },
 "params": {
 "Region": "cn-north-1",
 "UseDualStack": false,
 "UseFIPS": false
 }
 },
 {
 "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-user-subscriptions-fips.us-gov-east-1.api.aws"
 }
 },
 "params": {
 "Region": "us-gov-east-1",
 "UseDualStack": true,
 "UseFIPS": true
 }
 },
 {

```

```

 "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-user-subscriptions-fips.us-gov-east-1.amazonaws.com"
 }
 },
 "params": {
 "Region": "us-gov-east-1",
 "UseDualStack": false,
 "UseFIPS": true
 }
 },
 {
 "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack enabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-user-subscriptions.us-gov-east-1.api.aws"
 }
 },
 "params": {
 "Region": "us-gov-east-1",
 "UseDualStack": true,
 "UseFIPS": false
 }
 }
},
{
 "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-user-subscriptions.us-gov-east-1.amazonaws.com"
 }
 },
 "params": {
 "Region": "us-gov-east-1",
 "UseDualStack": false,
 "UseFIPS": false
 }
},
{
 "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-user-subscriptions-fips.us-iso-east-1.c2s.ic.gov"
 }
 },
 "params": {
 "Region": "us-iso-east-1",

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```

 "UseDualStack": false,
 "UseFIPS": true
 }
},
{
 "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-user-subscriptions.us-iso-east-1.c2s.ic.gov"
 }
 },
 "params": {
 "Region": "us-iso-east-1",
 "UseDualStack": false,
 "UseFIPS": false
 }
}
},
{
 "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-user-subscriptions-fips.us-isob-east-1.sc2s.sgov.gov"
 }
 },
 "params": {
 "Region": "us-isob-east-1",
 "UseDualStack": false,
 "UseFIPS": true
 }
}
},
{
 "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-user-subscriptions.us-isob-east-1.sc2s.sgov.gov"
 }
 },
 "params": {
 "Region": "us-isob-east-1",
 "UseDualStack": false,
 "UseFIPS": false
 }
}
},
{
 "documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
 "expect": {
 "endpoint": {

```



```

 "url": "https://example.com"
 }
},
"params": {
 "Region": "us-east-1",
 "UseDualStack": false,
 "UseFIPS": false,
 "Endpoint":
"https://example.com"
}
},
{
 "documentation": "For custom endpoint with region not set and fips disabled and dualstack
disabled",
 "expect": {
 "endpoint": {
 "url": "https://example.com"
 }
 },
 "params": {
 "UseDualStack": false,
 "UseFIPS": false,
 "Endpoint": "https://example.com"
 }
},
{
 "documentation": "For custom endpoint with fips enabled and dualstack disabled",
 "expect": {
 "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
 },
 "params": {
 "Region": "us-east-1",
 "UseDualStack": false,
 "UseFIPS": true,
 "Endpoint": "https://example.com"
 }
},
{
 "documentation": "For custom endpoint with fips disabled and dualstack enabled",
 "expect": {
 "error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
 },
 "params": {
 "Region": "us-east-1",
 "UseDualStack": true,
 "UseFIPS": false,
 "Endpoint": "https://example.com"
 }
}
}
}

```

```

 }

],
 "version": "1.0"
 }
},
"com.amazonaws.licenseanagerusersubscriptions#ListIdentityProviders": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ListIdentityProvidersRequest"
 },
 "output": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ListIdentityProvidersResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ConflictException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#InternalServerErrorException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ResourceNotFoundException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ServiceQuotaExceededException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ThrottlingException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Lists the identity providers for user-based subscriptions.</p>",
 "smithy.api#http": {
 "code": 200,
 "method": "POST",
 "uri": "/identity-provider/ListIdentityProviders"
 },
 "smithy.api#paginated": {
 "inputToken": "NextToken",
 "outputToken": "NextToken",

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```

 "pageSize":
"MaxResults",
 "items": "IdentityProviderSummaries"
 }
}
},
"com.amazonaws.licenseanagerusersubscriptions#ListIdentityProvidersRequest": {
 "type": "structure",
 "members": {
 "MaxResults": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#BoxInteger",
 "traits": {
 "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
 }
 },
 "NextToken": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 }
 }
},
"com.amazonaws.licenseanagerusersubscriptions#ListIdentityProvidersResponse": {
 "type": "structure",
 "members": {
 "IdentityProviderSummaries": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#IdentityProviderSummaryList",
 "traits": {
 "smithy.api#documentation": "<p>Metadata that describes the list identity providers operation.</p>",
 "smithy.api#required": {}
 }
 },
 "NextToken": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 }
 }
},
"com.amazonaws.licenseanagerusersubscriptions#ListInstances": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ListInstancesRequest"
 },
 "output": {

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 "target": "com.amazonaws.licenseanagerusersubscriptions#ListInstancesResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ConflictException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#InternalServerError"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ResourceNotFoundException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ServiceQuotaExceededException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ThrottlingException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Lists the EC2 instances providing user-based subscriptions.</p>",
 "smithy.api#http": {
 "code": 200,
 "method": "POST",
 "uri": "/instance/ListInstances"
 },
 "smithy.api#paginated": {
 "inputToken": "NextToken",
 "outputToken": "NextToken",
 "pageSize": "MaxResults",
 "items": "InstanceSummaries"
 }
 }
},
"com.amazonaws.licenseanagerusersubscriptions#ListInstancesRequest": {
 "type": "structure",
 "members": {
 "MaxResults": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#BoxInteger",
 "traits": {
 "smithy.api#documentation": "<p>Maximum number

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of results to return in a single call.</p></div>

```
 }
 },
 "NextToken": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 },
 "Filters": {
 "target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
 "traits": {
 "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those
that match one or\n more sets of key-value pairs that you specify.</p>"
 }
 }
},
"com.amazonaws.licensemanagerusersubscriptions#ListInstancesResponse": {
 "type": "structure",
 "members": {
 "InstanceSummaries": {
 "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceSummaryList",
 "traits": {
 "smithy.api#documentation": "<p>Metadata that describes the list instances operation.</p>"
 }
 },
 "NextToken": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 }
 }
},
"com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptions": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
 },
 {
```

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 "target": "com.amazonaws.licenseanagerusersubscriptions#ConflictException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#InternalServerErrorException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ResourceNotFoundException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ServiceQuotaExceededException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ThrottlingException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ValidationException"
 }
],
"traits": {
 "smithy.api#documentation": "<p>Lists the user-based
subscription products available from an identity provider.</p>",
 "smithy.api#http": {
 "code": 200,
 "method": "POST",
 "uri": "/user/ListProductSubscriptions"
 },
 "smithy.api#paginated": {
 "inputToken": "NextToken",
 "outputToken": "NextToken",
 "pageSize": "MaxResults",
 "items": "ProductUserSummaries"
 }
}
},
"com.amazonaws.licenseanagerusersubscriptions#ListProductSubscriptionsRequest": {
 "type": "structure",
 "members": {
 "Product": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
 "smithy.api#required": {}
 }
 }
 },
 "IdentityProvider": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#IdentityProvider",
 "traits": {

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 "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
 "smithy.api#required": {}
 }
},
"MaxResults": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#BoxInteger",
 "traits": {
 "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
 }
},
"Filters": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#FilterList",
 "traits": {
 "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those
that match one or\n more sets
of key-value pairs that you specify.</p>"
 }
},
"NextToken": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
}
},
"com.amazonaws.licenseanagerusersubscriptions#ListProductSubscriptionsResponse": {
 "type": "structure",
 "members": {
 "ProductUserSummaries": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ProductUserSummaryList",
 "traits": {
 "smithy.api#documentation": "<p>Metadata that describes the list product subscriptions
operation.</p>"
 }
 },
 "NextToken": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation":
"<p>Token for the next set of results.</p>"
 }
 }
 }
},
"com.amazonaws.licenseanagerusersubscriptions#ListUserAssociations": {
 "type": "operation",
 "input": {

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 "target": "com.amazonaws.licenseanagerusersubscriptions#ListUserAssociationsRequest"
 },
 "output": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ListUserAssociationsResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ConflictException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#InternalServerErrorException"
 },
 {
 "target":
"com.amazonaws.licenseanagerusersubscriptions#ResourceNotFoundException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ServiceQuotaExceededException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ThrottlingException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Lists user associations for an identity provider.</p>",
 "smithy.api#http": {
 "code": 200,
 "method": "POST",
 "uri": "/user/ListUserAssociations"
 },
 "smithy.api#paginated": {
 "inputToken": "NextToken",
 "outputToken": "NextToken",
 "pageSize":
"MaxResults",
 "items": "InstanceUserSummaries"
 }
 },
 "com.amazonaws.licenseanagerusersubscriptions#ListUserAssociationsRequest": {
 "type": "structure",
 "members": {

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 "InstanceId": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
 "smithy.api#required": {}
 }
 },
 "IdentityProvider": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#IdentityProvider",
 "traits": {
 "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
 "smithy.api#required": {}
 }
 },
 "MaxResults":
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#BoxInteger",
 "traits": {
 "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
 }
 },
 "Filters": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#FilterList",
 "traits": {
 "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those
that match one or\n more sets of key-value pairs that you specify.</p>"
 }
 },
 "NextToken": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 }
},
"com.amazonaws.licenseanagerusersubscriptions#ListUserAssociationsResponse":
{
 "type": "structure",
 "members": {
 "InstanceUserSummaries": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#InstanceUserSummaryList",
 "traits": {
 "smithy.api#documentation": "<p>Metadata that describes the list user association operation.</p>"
 }
 },
 "NextToken": {

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 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 },
 "com.amazonaws.licenseanagerusersubscriptions#ProductUserSummary": {
 "type": "structure",
 "members": {
 "Username": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation":
"<p>The user name from the identity provider of the user.</p>",
 "smithy.api#required": {}
 }
 },
 "Product": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
 "smithy.api#required": {}
 }
 },
 "IdentityProvider": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#IdentityProvider",
 "traits": {
 "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
 "smithy.api#required": {}
 }
 },
 "Status": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The status of a product for a user.</p>",
 "smithy.api#required": {}
 }
 },
 "StatusMessage": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The status message for a product for a user.</p>"
 }
 },
 "Domain": {
 "target": "smithy.api#String",

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 "traits": {
 "smithy.api#documentation": "<p>The domain name of the user.</p>"
 }
 },
 "SubscriptionStartDate": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The start date of a subscription.</p>"
 }
 },
 "SubscriptionEndDate": {
 "target":
"smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The end date of a subscription.</p>"
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>The summary of the user-based subscription products for a user.</p>"
 }
},
"com.amazonaws.licenseanagerusersubscriptions#ProductUserSummaryList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ProductUserSummary"
 }
},
"com.amazonaws.licenseanagerusersubscriptions#RegisterIdentityProvider": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#RegisterIdentityProviderRequest"
 },
 "output": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#RegisterIdentityProviderResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ConflictException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#InternalServerErrorException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ResourceNotFoundException"
 }
]
}

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 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ServiceQuotaExceededException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ThrottlingException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Registers an identity provider for user-based subscriptions.</p>",
 "smithy.api#http": {
 "code": 200,
 "method": "POST",
 "uri": "/identity-provider/RegisterIdentityProvider"
 },
 "smithy.api#idempotent": {}
 }
},
"com.amazonaws.licenseanagerusersubscriptions#RegisterIdentityProviderRequest": {
 "type": "structure",
 "members": {
 "IdentityProvider": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#IdentityProvider",
 "traits": {
 "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
 "smithy.api#required": {}
 }
 },
 "Product":
 {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
 "smithy.api#required": {}
 }
 },
 "Settings": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#Settings",
 "traits": {
 "smithy.api#documentation": "<p>The registered identity providers product related configuration settings such as the\n subnets to provision VPC endpoints.</p>"
 }
 }
}
},
},

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"com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderResponse": {
 "type": "structure",
 "members": {
 "IdentityProviderSummary": {
 "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",

"traits": {
 "smithy.api#documentation": "<p>Metadata that describes the results of an identity provider
operation.</p>",
 "smithy.api#required": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException": {
 "type": "structure",
 "members": {
 "message": {
 "target": "smithy.api#String"
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>The resource couldn't be found.</p>",
 "smithy.api#error": "client",
 "smithy.api#httpError": 404
 }
},
"com.amazonaws.licensemanagerusersubscriptions#SecurityGroup": {
 "type": "string",
 "traits": {
 "smithy.api#length": {
 "min": 5,
 "max": 200
 },

"smithy.api#pattern": "^sg-([0-9a-z]{8})([0-9a-z]{17})$"
}
},
"com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException": {
 "type": "structure",
 "members": {
 "message": {
 "target": "smithy.api#String"
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>The request failed because a service quota is exceeded.</p>",
 "smithy.api#error": "client"
 }
}

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 }
 },
 "com.amazonaws.licenseanagerusersubscriptions#Settings": {
 "type": "structure",
 "members": {
 "Subnets": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#Subnets",
 "traits": {
 "smithy.api#documentation": "<p>The subnets defined for the registered identity provider.</p>",
 "smithy.api#length": {
 "min": 1
 },
 "smithy.api#required": {}
 }
 },
 "SecurityGroupId": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#SecurityGroup",
 "traits": {
 "smithy.api#documentation": "<p>A security group ID that allows inbound TCP port 1688 communication between resources in\n your VPC and the VPC endpoint for activation servers.</p>",
 "smithy.api#required": {}
 }
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>The registered identity providers product related configuration settings such as the\n subnets to provision VPC endpoints, and the security group ID that is associated with the VPC\n endpoints. The security group should permit inbound TCP port 1688 communication from resources\n in the VPC.</p>"
 }
 },
 "com.amazonaws.licenseanagerusersubscriptions#StartProductSubscription": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#StartProductSubscriptionRequest"
 },
 "output": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#StartProductSubscriptionResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ConflictException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#InternalServerErrorException"
 }
]
 }
}

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 },
 {
 "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
 },
 {
 "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
 },
 {
 "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
 },
 {
 "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Starts a product subscription for a user with the specified identity provider.</p>\n <note>\n <p>Your estimated bill for charges on the number of users and related costs will take 48\n hours to appear for billing periods that haven't closed (marked as Pending billing status) in Amazon Web Services Billing. For more information, see Viewing your\n monthly charges in the <i>Amazon Web Services Billing User Guide</i>.</p>\n </note>",
 "smithy.api#http": {
 "code": 200,
 "method": "POST",
 "uri": "/user/StartProductSubscription"
 }
 }
},
"com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionRequest": {
 "type": "structure",
 "members": {
 "Username": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The user name from the identity provider of the user.</p>",
 "smithy.api#required": {}
 }
 }
 },
 "IdentityProvider": {
 "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
 "traits": {
 "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
 "smithy.api#required": {}
 }
 },
 "Product": {
 "target": "smithy.api#String",

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 "traits": {
 "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
 "smithy.api#required": {}
 }
 },
 "Domain": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The domain name of the user.</p>"
 }
 }
},
"com.amazonaws.licenseanagerusersubscriptions#StartProductSubscriptionResponse": {
 "type": "structure",
 "members": {
 "ProductUserSummary": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ProductUserSummary",
 "traits": {
 "smithy.api#documentation": "<p>Metadata that describes the start product subscription
operation.</p>",
 "smithy.api#required": {}
 }
 }
 }
},
"com.amazonaws.licenseanagerusersubscriptions#StopProductSubscription": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#StopProductSubscriptionRequest"
 },
 "output": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#StopProductSubscriptionResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ConflictException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#InternalServerErrorException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ResourceNotFoundException"
 },
 {

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 "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
 },
 {
 "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
 },
 {
 "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
 }
],
"traits": {
 "smithy.api#documentation": "<p>Stops a product subscription for a user with the specified identity
provider.</p>",
 "smithy.api#http": {
 "code": 200,
 "method": "POST",
 "uri":
"/user/StopProductSubscription"
 }
},
"com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionRequest": {
 "type": "structure",
 "members": {
 "Username": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
 "smithy.api#required": {}
 }
 },
 "IdentityProvider": {
 "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
 "traits": {
 "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
 "smithy.api#required": {}
 }
 },
 "Product": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
 "smithy.api#required": {}
 }
 },
 "Domain": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The domain name of the user.</p>"
 }
 }
 }
}

```

```

 }
 }
},
"com.amazonaws.licenseanagerusersubscriptions#StopProductSubscriptionResponse": {
 "type": "structure",
 "members": {
 "ProductUserSummary": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ProductUserSummary",
 "traits": {
 "smithy.api#documentation": "<p>Metadata that describes the start product subscription
operation.</p>",
 "smithy.api#required": {}
 }
 }
 }
},
"com.amazonaws.licenseanagerusersubscriptions#StringList": {
 "type": "list",
 "member": {
 "target": "smithy.api#String"
 }
},
"com.amazonaws.licenseanagerusersubscriptions#Subnet": {
 "type": "string",
 "traits": {
 "smithy.api#pattern": "subnet-[a-z0-9]{8,17}"
 }
},
"com.amazonaws.licenseanagerusersubscriptions#Subnets": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#Subnet"
 }
},
"com.amazonaws.licenseanagerusersubscriptions#ThrottlingException": {
 "type": "structure",
 "members": {
 "message": {
 "target": "smithy.api#String"
 }
 }
},
"traits": {
 "smithy.api#documentation":
"<p>The request was denied because of request throttling. Retry the request.</p>",
 "smithy.api#error": "client"
}
},

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"com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettings": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerErrorException"
 },
 {
 "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
 },
 {
 "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Updates additional product configuration settings for the registered identity provider.</p>",
 "smithy.api#http": {
 "code": 200,
 "method": "POST",
 "uri": "/identity-provider/UpdateIdentityProviderSettings"
 },
 "smithy.api#idempotent": {}
 }
},
"com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsRequest": {
 "type": "structure",
 "members": {
 "IdentityProvider": {
 "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
 "traits": {
 "smithy.api#required": {}
 }
 }
 },
 "Product": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
 "smithy.api#required": {}
 }
 }
}

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 }
 },
 "UpdateSettings": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#UpdateSettings",
 "traits": {
 "smithy.api#documentation": "<p>Updates the registered identity providers product related
configuration settings. You can\n update any combination of settings in a single operation such as the:</p>\n
\n \n <p>Subnets which you want to add to provision VPC endpoints.</p>\n \n
 \n <p>Subnets which you want to remove the VPC endpoints from.</p>\n \n
 \n <p>Security group ID which permits traffic to the VPC endpoints.</p>\n \n ",
 "smithy.api#required": {}
 }
 }
},
"com.amazonaws.licenseanagerusersubscriptions#UpdateIdentityProviderSettingsResponse": {
 "type": "structure",
 "members": {
 "IdentityProviderSummary": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#IdentityProviderSummary",
 "traits": {
 "smithy.api#required": {}
 }
 }
 }
},
"com.amazonaws.licenseanagerusersubscriptions#UpdateSettings": {
 "type": "structure",
 "members": {
 "AddSubnets": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#Subnets",
 "traits": {
 "smithy.api#documentation":
"<p>The ID of one or more subnets in which License Manager will create a VPC endpoint for products that\n
require connectivity to activation servers.</p>",
 "smithy.api#required": {}
 }
 },
 "RemoveSubnets": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#Subnets",
 "traits": {
 "smithy.api#documentation": "<p>The ID of one or more subnets to remove.</p>",
 "smithy.api#required": {}
 }
 }
 }
},
"SecurityGroupId": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#SecurityGroup",

```

```

 "traits": {
 "smithy.api#documentation": "<p>A security group ID that allows inbound TCP port 1688
communication between resources in\n your VPC and the VPC endpoints for activation servers.</p>"
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>Updates the registered identity providers product related configuration
settings such as\n the subnets to provision VPC endpoints.</p>"
 },
 "com.amazonaws.licensemanagerusersubscriptions#ValidationException": {
 "type": "structure",
 "members": {
 "message": {
 "target": "smithy.api#String"
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>A parameter is not valid.</p>",
 "smithy.api#error": "client"
 }
 }
}

```

// Code generated by smithy-go-codegen DO NOT EDIT.

```
package licensemanager
```

```
import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

```

// Gets detailed information about the specified license.

```
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
 params = &GetLicenseInput{}
 }
}

```

```
result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)

```

```

if err != nil {
 return nil, err
}

out := result.(*GetLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version
 *string

 noSmithyDocumentSerde
}

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
}

```

```

}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if
err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack);
err != nil {
 return err
}

```

```

}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "GetLicense",
}
}
}

```

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// Code generated by smithy-go-codegen DO NOT EDIT.

```
package grafana
```

```
import (
```



```

"context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/grafana/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
if params == nil {
params = &DisassociateLicenseInput{}
}

result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
if err != nil {
return nil, err
}

out := result.(*DisassociateLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type DisassociateLicenseInput struct {

// The type of license to remove from the workspace.
//
// This
member is required.
LicenseType types.LicenseType

// The ID of the workspace to remove the Grafana Enterprise license from.
//
// This member is required.
WorkspaceId *string

noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

// A structure containing information about the workspace.
//
// This member is required.
Workspace *types.WorkspaceDescription

```

```

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack, options); err != nil {
return err
}
}

```

```

if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "grafana",
 OperationName: "DisassociateLicense",
}
}

```

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```
{
 "smithy": "2.0",
 "metadata": {
 "suppressions": [
 {
 "id": "HttpMethodSemantics",
 "namespace": "*"
 },
 {
 "id": "HttpStatusCodeSemantics",
 "namespace": "*"
 },
 {
 "id": "PaginatedTrait",
 "namespace": "*"
 },
 {
 "id": "HttpHeaderTrait",
 "namespace": "*"
 },
 {
 "id": "HttpUriConflict",
 "namespace": "*"
 },
 {
 "id": "Service",
 "namespace": "*"
 }
]
 },
 "shapes": {
 "com.amazonaws.licensemanager#AWSLicenseManager": {
 "type": "service",
 "version": "2018-08-01",
 "operations": [
 {
 "target": "com.amazonaws.licensemanager#AcceptGrant"
 },
 {
 "target": "com.amazonaws.licensemanager#CheckInLicense"
 }
]
 }
 }
}
```



```
},
{
 "target": "com.amazonaws.licensemanager#CheckoutBorrowLicense"
},
{
 "target": "com.amazonaws.licensemanager#CheckoutLicense"
},
{
 "target": "com.amazonaws.licensemanager#CreateGrant"
},
{
 "target": "com.amazonaws.licensemanager#CreateGrantVersion"
},
{
 "target": "com.amazonaws.licensemanager#CreateLicense"
},
{
 "target": "com.amazonaws.licensemanager#CreateLicenseConfiguration"
},
{
 "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource"
},
{
 "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator"
},
{
 "target": "com.amazonaws.licensemanager#CreateLicenseVersion"
},
{
 "target": "com.amazonaws.licensemanager#CreateToken"
},
{
 "target": "com.amazonaws.licensemanager#DeleteGrant"
},
{
 "target": "com.amazonaws.licensemanager#DeleteLicense"
},
{
 "target": "com.amazonaws.licensemanager#DeleteLicenseConfiguration"
},
{
 "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator"
},
{
 "target": "com.amazonaws.licensemanager#DeleteToken"
},
{
 "target": "com.amazonaws.licensemanager#ExtendLicenseConsumption"
```

```
},
{
 "target": "com.amazonaws.licensemanager#GetAccessToken"
},
{
 "target": "com.amazonaws.licensemanager#GetGrant"
},
{
 "target": "com.amazonaws.licensemanager#GetLicense"
},
{
 "target": "com.amazonaws.licensemanager#GetLicenseConfiguration"
},
{
 "target": "com.amazonaws.licensemanager#GetLicenseConversionTask"
},
{
 "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGenerator"
},
{
 "target": "com.amazonaws.licensemanager#GetLicenseUsage"
},
{
 "target": "com.amazonaws.licensemanager#GetServiceSettings"
},
{
 "target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration"
},
{
 "target": "com.amazonaws.licensemanager#ListDistributedGrants"
},
{
 "target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations"
},
{
 "target": "com.amazonaws.licensemanager#ListLicenseConfigurations"
},
{
 "target": "com.amazonaws.licensemanager#ListLicenseConversionTasks"
},
{
 "target": "com.amazonaws.licensemanager#ListLicenseManagerReportGenerators"
},
{
 "target": "com.amazonaws.licensemanager#ListLicenses"
},
{
```

```

 "target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResource"
 },
 {
 "target": "com.amazonaws.licensemanager#ListLicenseVersions"
 },
 {
 "target": "com.amazonaws.licensemanager#ListReceivedGrants"
 },
 {
 "target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganization"
 },
 {
 "target": "com.amazonaws.licensemanager#ListReceivedLicenses"
 },
 {
 "target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganization"
 },
 {
 "target": "com.amazonaws.licensemanager#ListResourceInventory"
 },
 {
 "target": "com.amazonaws.licensemanager#ListTagsForResource"
 },
 {
 "target": "com.amazonaws.licensemanager#ListTokens"
 },
 {
 "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfiguration"
 },
 {
 "target": "com.amazonaws.licensemanager#RejectGrant"
 },
 {
 "target": "com.amazonaws.licensemanager#TagResource"
 },
 {
 "target": "com.amazonaws.licensemanager#UntagResource"
 },
 {
 "target": "com.amazonaws.licensemanager#UpdateLicenseConfiguration"
 },
 {
 "target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator"
 },
 {
 "target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource"
 },
 },

```

```

 {
 "target": "com.amazonaws.licensemanager#UpdateServiceSettings"
 }
],
 "traits": {
 "aws.api#service": {
 "sdkId": "License Manager",
 "arnNamespace": "license-manager",
 "cloudFormationName": "LicenseManager",
 "cloudTrailEventSource": "licensemanager.amazonaws.com",
 "endpointPrefix": "license-manager"
 },
 "aws.auth#sigv4": {
 "name": "license-manager"
 },
 "aws.protocols#awsJson1_1": {},
 "smithy.api#documentation": "<p>License Manager makes it easier to manage licenses from software vendors across multiple \n Amazon Web Services accounts and on-premises servers.</p>",
 "smithy.api#title": "AWS License Manager",
 "smithy.api#xmlNamespace": {
 "uri": "https://license-manager.amazonaws.com/doc/2018_08_01"
 },
 "smithy.rules#endpointRuleSet": {
 "version": "1.0",
 "parameters": {
 "Region": {
 "builtIn": "AWS::Region",
 "required": false,
 "documentation": "The AWS region used to dispatch the request.",
 "type": "String"
 },
 "UseDualStack": {
 "builtIn": "AWS::UseDualStack",
 "required": true,
 "default": false,
 "documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
 "type": "Boolean"
 },
 "UseFIPS": {
 "builtIn": "AWS::UseFIPS",
 "required": true,
 "default": false,
 "documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
 "type": "Boolean"
 }
 }
 }
 }

```

```

 "Endpoint": {
 "builtIn": "SDK::Endpoint",
 "required": false,
 "documentation": "Override the endpoint used to send this request",
 "type": "String"
 }
 },
 "rules": [
 {
 "conditions": [
 {
 "fn": "isSet",
 "argv": [
 {
 "ref": "Endpoint"
 }
]
 }
]
 }
],
 "type": "tree",
 "rules": [
 {
 "conditions": [
 {
 "fn": "booleanEquals",
 "argv": [
 {
 "ref": "UseFIPS"
 },
 true
]
 }
],
 "error": "Invalid Configuration: FIPS and custom endpoint are not supported",
 "type": "error"
 },
 {
 "conditions": [],
 "type": "tree",
 "rules": [
 {
 "conditions": [
 {
 "fn": "booleanEquals",
 "argv": [
 {

```

```

 "ref": "UseDualStack"
 },
 true
]
 }
],
"error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
"type": "error"
},
{
 "conditions": [],
 "endpoint": {
 "url": {
 "ref": "Endpoint"
 },
 "properties": {},
 "headers": {}
 },
 "type": "endpoint"
}
]
}
],
{
 "conditions": [],
 "type": "tree",
 "rules": [
 {
 "conditions": [
 {
 "fn": "isSet",
 "argv": [
 {
 "ref": "Region"
 }
]
 }
],
 "type": "tree",
 "rules": [
 {
 "conditions": [
 {
 "fn": "aws.partition",
 "argv": [

```

```

 {
"ref": "Region"
 }
],
 "assign": "PartitionResult"
}
],
"type": "tree",
"rules": [
{
 "conditions": [
 {
 "fn": "booleanEquals",
 "argv": [
 {
 "ref": "UseFIPS"
 }
],
 true
 }
]
},
{
 "fn": "booleanEquals",
 "argv": [
 {
 "ref": "UseDualStack"
 }
],
 true
}
]
},
"type": "tree",
"rules": [
{
 "conditions": [
 {
 "fn": "booleanEquals",
 "argv": [
 true,
 {
 "fn": "getAttr",
 "argv": [
 {
 "ref": "PartitionResult"
 }
],
 }
],
 }
],
}
]
}

```

```

"supportsFIPS"
]
 }
]
},
{
 "fn": "booleanEquals",
 "argv": [
 true,
 {
 "fn": "getAttr",
 "argv": [
 {
 "ref": "PartitionResult"
 },
 "supportsDualStack"
]
 }
]
},
],
"type": "tree",
"rules": [
 {
 "conditions": [],
 "type": "tree",
 "rules": [
 {
 "conditions": [],
 "endpoint": {
 "url": "https://license-manager-
fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
 "properties": {},
 "headers": {}
 },
 "type": "endpoint"
 }
]
 }
],
},
{
 "conditions": [],
 "error": "FIPS and DualStack are enabled, but this partition does not support
one or both",
 "type": "error"
}
]

```



```

 }
]
},
{
 "conditions": [
 {
 "fn": "booleanEquals",

 "argv": [
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 },
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]
 }
],
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 "rules": [
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 "conditions": [
 {
 "fn": "booleanEquals",

 "argv": [
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 {
 "fn": "getAttr",
 "argv": [
 {
 "ref": "PartitionResult"
 },
 "supportsFIPS"
]
 }
]
 }
]
 }
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 "rules": [
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 "conditions": [],
 "type": "tree",
 "rules": [
 {
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 "endpoint": {
 "url": "https://license-manager-

```

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fips.{Region}.{PartitionResult#dnsSuffix}",
 "properties": {},
 "headers": {}
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 "type": "endpoint"
}
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{
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 "type": "error"
}
]
},
{
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 "fn": "booleanEquals",
 "argv": [
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 "ref": "UseDualStack"
 },
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]
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],
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 "rules": [
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 "conditions": [
 {
 "fn": "booleanEquals",
 "argv": [
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 {
 "fn": "getAttr",
 "argv": [
 {
 "ref": "PartitionResult"
 }
]
 }
]
 }
],
 "type": "supportsDualStack"
 }
]
}
]
}
]
}

```

```

]
 }
]
 }
],
"type": "tree",
"rules": [
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 "conditions": [],
 "type": "tree",
 "rules": [
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 "conditions": [],
 "endpoint": {
 "url": "https://license-
manager.{Region}.{PartitionResult#dualStackDnsSuffix}",
 "properties": {},
 "headers": {}
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 "type": "endpoint"
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},
{
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 "error": "DualStack is enabled but this partition does not support DualStack",
 "type": "error"
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 "conditions": [],
 "type": "tree",
 "rules": [
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 "conditions": [],
 "endpoint": {
 "url": "https://license-manager.{Region}.{PartitionResult#dnsSuffix}",
 "properties": {},
 "headers": {}
 },
 "type": "endpoint"
 }
]
}
]

```

```

]
 }
]
 }
},
{
 "conditions": [],
 "error": "Invalid Configuration: Missing Region",

 "type": "error"
}
]
},
"smithy.rules#endpointTests": {
 "testCases": [
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 "expect": {
 "endpoint": {
 "url": "https://license-manager.af-south-1.amazonaws.com"
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 "params": {
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 "UseDualStack": false,
 "Region": "af-south-1"
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 },
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 "documentation": "For region ap-east-1 with FIPS disabled
and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager.ap-east-1.amazonaws.com"
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 "params": {
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 "UseDualStack": false,
 "Region": "ap-east-1"
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 "documentation": "For region ap-northeast-1 with FIPS disabled and DualStack disabled",
 "expect": {

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 "endpoint": {
 "url": "https://license-manager.ap-northeast-1.amazonaws.com"
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 },
 "params": {
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 "UseDualStack": false,
 "Region": "ap-northeast-1"
 }
},
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 "expect": {
 "endpoint": {
 "url": "https://license-manager.ap-northeast-2.amazonaws.com"
 }
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 "params": {
 "UseFIPS": false,
 "UseDualStack": false,
 "Region": "ap-northeast-2"
 }
},
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 "documentation": "For region ap-northeast-3 with FIPS disabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager.ap-northeast-3.amazonaws.com"
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 },
 "params": {
 "UseFIPS": false,
 "UseDualStack": false,
 "Region": "ap-northeast-3"
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},
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 "documentation": "For region ap-south-1 with FIPS disabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager.ap-south-1.amazonaws.com"
 }
 },
 "params": {
 "UseFIPS": false,
 "UseDualStack":

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false,
 "Region": "ap-south-1"
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 "documentation": "For region ap-southeast-1 with FIPS disabled and DualStack disabled",
 "expect": {
 "endpoint": {
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 "params": {
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 "UseDualStack": false,
 "Region": "ap-southeast-1"
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 "expect": {
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 "url": "https://license-manager.ap-southeast-2.amazonaws.com"
 }
 },
 "params": {
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 "UseDualStack": false,
 "Region": "ap-southeast-2"
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 "documentation": "For region ap-southeast-3 with FIPS disabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager.ap-southeast-3.amazonaws.com"
 }
 },
 "params": {
 "UseFIPS": false,
 "UseDualStack": false,
 "Region":
"ap-southeast-3"
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},
{
 "documentation": "For region ca-central-1 with FIPS disabled and DualStack disabled",
 "expect": {

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 "endpoint": {
 "url": "https://license-manager.ca-central-1.amazonaws.com"
 }
 },
 "params": {
 "UseFIPS": false,
 "UseDualStack": false,
 "Region": "ca-central-1"
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 "documentation": "For region eu-central-1 with FIPS disabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager.eu-central-1.amazonaws.com"
 }
 },
 "params": {
 "UseFIPS": false,
 "UseDualStack": false,
 "Region": "eu-central-1"
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 "documentation": "For region eu-north-1 with FIPS disabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager.eu-north-1.amazonaws.com"
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 },
 "params": {
 "UseFIPS": false,
 "UseDualStack": false,
 "Region": "eu-north-1"
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 "documentation": "For region eu-south-1 with FIPS disabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager.eu-south-1.amazonaws.com"
 }
 },
 "params": {
 "UseFIPS": false,
 "UseDualStack": false,
 "Region": "eu-south-1"
 }
}

```

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 }
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 "documentation": "For region eu-west-1 with FIPS disabled and DualStack disabled",
 "expect": {
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 "url": "https://license-manager.eu-west-1.amazonaws.com"
 }
 }
 },
 {
 "params": {
 "UseFIPS": false,
 "UseDualStack": false,
 "Region": "eu-west-1"
 }
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 {
 "documentation": "For region eu-west-2 with FIPS disabled and DualStack disabled",
 "expect": {
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 "url": "https://license-manager.eu-west-2.amazonaws.com"
 }
 }
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 {
 "params": {
 "UseFIPS": false,
 "UseDualStack": false,
 "Region": "eu-west-2"
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 "documentation": "For
region eu-west-3 with FIPS disabled and DualStack disabled",
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 "endpoint": {
 "url": "https://license-manager.eu-west-3.amazonaws.com"
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 "params": {
 "UseFIPS": false,
 "UseDualStack": false,
 "Region": "eu-west-3"
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 "documentation": "For region me-south-1 with FIPS disabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager.me-south-1.amazonaws.com"
 }
 }
 }
}

```



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 }
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 "params": {
 "UseFIPS": false,
 "UseDualStack": false,
 "Region": "me-south-1"
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 "documentation": "For region sa-east-1 with FIPS disabled and DualStack disabled",
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 "url": "https://license-manager.sa-east-1.amazonaws.com"
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 "params": {
 "UseFIPS": false,
 "UseDualStack": false,
 "Region": "sa-east-1"
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{
 "documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
 "expect": {
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 "url": "https://license-manager.us-east-1.amazonaws.com"
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 "params": {
 "UseFIPS": false,
 "UseDualStack": false,
 "Region": "us-east-1"
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 "documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-fips.us-east-1.amazonaws.com"
 }
 },
 "params": {
 "UseFIPS": true,
 "UseDualStack":
false,
 "Region": "us-east-1"
 }
}

```

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 }
 },
 {
 "documentation": "For region us-east-2 with FIPS disabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager.us-east-2.amazonaws.com"
 }
 },
 "params": {
 "UseFIPS": false,
 "UseDualStack": false,
 "Region": "us-east-2"
 }
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 "documentation": "For region us-east-2 with FIPS enabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-fips.us-east-2.amazonaws.com"
 }
 },
 "params": {
 "UseFIPS": true,
 "UseDualStack": false,
 "Region": "us-east-2"
 }
 },
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 "documentation": "For region us-west-1 with FIPS disabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager.us-west-1.amazonaws.com"
 }
 },
 "params": {
 "UseFIPS": false,
 "UseDualStack": false,
 "Region": "us-west-1"
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},
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 "documentation": "For region us-west-1 with FIPS enabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-fips.us-west-1.amazonaws.com"
 }
 }
}

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```

 }
 },
 "params": {
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 "UseDualStack": false,
 "Region": "us-west-1"
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},
{
 "documentation": "For region us-west-2 with FIPS disabled and DualStack disabled",
 "expect": {
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 "url": "https://license-manager.us-west-2.amazonaws.com"
 }
 }
},
{
 "params": {
 "UseFIPS": false,
 "UseDualStack": false,
 "Region": "us-west-2"
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 "url": "https://license-manager-fips.us-west-2.amazonaws.com"
 }
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},
{
 "params": {
 "UseFIPS": true,
 "UseDualStack": false,
 "Region": "us-west-2"
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},
{
 "documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-fips.us-east-1.api.aws"
 }
 }
},
{
 "params": {
 "UseFIPS": true,
 "UseDualStack": true,
 "Region": "us-east-1"
 }
}

```

```

},
{
 "documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager.us-east-1.api.aws"
 }
 },
 "params": {
 "UseFIPS": false,
 "UseDualStack": true,
 "Region": "us-east-1"
 }
},
{
 "documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager.cn-north-1.amazonaws.com.cn"
 }
 },
 "params": {
 "UseFIPS": false,
 "UseDualStack": false,
 "Region": "cn-north-1"
 }
},
{
 "documentation": "For region cn-northwest-1 with FIPS disabled and DualStack disabled",

 "expect": {
 "endpoint": {
 "url": "https://license-manager.cn-northwest-1.amazonaws.com.cn"
 }
 },
 "params": {
 "UseFIPS": false,
 "UseDualStack": false,
 "Region": "cn-northwest-1"
 }
},
{
 "documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-fips.cn-north-1.api.amazonwebservices.com.cn"
 }
 }
}

```

```

 },
 "params": {
 "UseFIPS": true,
 "UseDualStack": true,
 "Region": "cn-north-1"
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 "documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-fips.cn-north-1.amazonaws.com.cn"
 }
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 "params": {
 "UseFIPS": true,
 "UseDualStack": false,
 "Region": "cn-north-1"
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 "url": "https://license-manager.cn-north-1.api.amazonwebservices.com.cn"
 }
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 "params": {
 "UseFIPS": false,
 "UseDualStack": true,
 "Region": "cn-north-1"
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 "expect": {
 "endpoint": {
 "url": "https://license-manager.us-gov-east-1.amazonaws.com"
 }
 },
 "params": {
 "UseFIPS": false,
 "UseDualStack": false,

 "Region": "us-gov-east-1"
 }
 },
}

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{
 "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
 "expect": {
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 "url": "https://license-manager-fips.us-gov-east-1.amazonaws.com"
 }
 },
 "params": {
 "UseFIPS": true,
 "UseDualStack": false,
 "Region": "us-gov-east-1"
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 "url": "https://license-manager.us-gov-west-1.amazonaws.com"
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 "params": {
 "UseFIPS": false,
 "UseDualStack": false,
 "Region": "us-gov-west-1"
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 "documentation": "For region us-gov-west-1 with FIPS enabled and DualStack disabled",
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 "url": "https://license-manager-fips.us-gov-west-1.amazonaws.com"
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 "params": {
 "UseFIPS": true,
 "UseDualStack": false,
 "Region": "us-gov-west-1"
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 "expect": {
 "endpoint": {
 "url": "https://license-manager-fips.us-gov-east-1.api.aws"
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 "params": {

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 "Region": "us-gov-east-1"
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 "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack enabled",
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 "UseFIPS": false,
 "UseDualStack": true,
 "Region": "us-gov-east-1"
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{
 "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager.us-iso-east-1.c2s.ic.gov"
 }
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 "params": {
 "UseFIPS": false,
 "UseDualStack": false,
 "Region": "us-iso-east-1"
 }
},
{
 "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
 "expect": {
 "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
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 "UseFIPS": true,
 "UseDualStack": true,
 "Region": "us-iso-east-1"
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 "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-fips.us-iso-east-1.c2s.ic.gov"
 }
 }
}

```

```

 }
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 "UseDualStack": false,
 "Region": "us-iso-east-1"
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},
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 "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
 "expect": {
 "error": "DualStack is enabled but this partition does not support DualStack"
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 "params": {
 "UseFIPS": false,
 "UseDualStack": true,
 "Region": "us-iso-east-1"
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},
{
 "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager.us-isob-east-1.sc2s.sgov.gov"
 }
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 "params": {
 "UseFIPS": false,
 "UseDualStack": false,
 "Region": "us-isob-east-1"
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 "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
 "expect": {
 "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
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 "UseFIPS": true,
 "UseDualStack": true,
 "Region": "us-isob-east-1"
 }
},
{
 "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
 "expect": {
 "endpoint": {

```



```

 "url": "https://license-manager-fips.us-isob-east-1.sc2s.sgov.gov"
 }
},
"params": {
 "UseFIPS": true,
 "UseDualStack": false,
 "Region": "us-isob-east-1"
}
},
{
 "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
 "expect": {
 "error": "DualStack is enabled but this partition does not support DualStack"
 },
 "params": {
 "UseFIPS": false,
 "UseDualStack": true,
 "Region": "us-isob-east-1"
 }
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 "documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
 "expect": {
 "endpoint": {
 "url": "https://example.com"
 }
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 "params": {
 "UseFIPS": false,
 "UseDualStack": false,
 "Region": "us-east-1",
 "Endpoint": "https://example.com"
 }
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{
 "documentation": "For custom endpoint with region not set and fips disabled and dualstack
disabled",
 "expect": {
 "endpoint": {
 "url": "https://example.com"
 }
 },
 "params": {
 "UseFIPS": false,
 "UseDualStack": false,
 "Endpoint": "https://example.com"
 }
}

```

```

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 "documentation": "For custom endpoint with fips enabled and dualstack disabled",
 "expect": {
 "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
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 "params": {

"UseFIPS": true,
 "UseDualStack": false,
 "Region": "us-east-1",
 "Endpoint": "https://example.com"
 }
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 "expect": {
 "error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
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 "params": {
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 "UseDualStack": true,
 "Region": "us-east-1",
 "Endpoint": "https://example.com"
 }
 },
 {
 "documentation": "Missing region",

 "expect": {
 "error": "Invalid Configuration: Missing Region"
 }
 }
],
 "version": "1.0"
}
},
"com.amazonaws.licensemanager#AcceptGrant": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#AcceptGrantRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#AcceptGrantResponse"
 },
 "errors": [
 {

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 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
"traits": {
 "smithy.api#documentation": "<p>Accepts the specified grant.</p>"
}
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"com.amazonaws.licensemanager#AcceptGrantRequest": {
 "type": "structure",
 "members": {
 "GrantArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
 }
 }
 }
},
"smithy.api#required": {}
},
"traits": {
 "smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#AcceptGrantResponse": {
 "type": "structure",
 "members": {
 "GrantArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {

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 "smithy.api#documentation": "<p>Grant ARN.</p>"
 }
},
"Status": {
 "target": "com.amazonaws.licensemanager#GrantStatus",
 "traits": {
 "smithy.api#documentation": "<p>Grant status.</p>"
 }
},
"Version": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Grant version.</p>"
 }
}
}
},
"traits": {
 "smithy.api#output": {}
}
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"com.amazonaws.licensemanager#AccessDeniedException": {
 "type": "structure",
 "members": {
 "Message": {
 "target": "com.amazonaws.licensemanager#Message"
 }
 },
 "traits": {
 "aws.protocols#awsQueryError": {
 "code": "ServiceAccessDenied",
 "httpResponseCode": 401
 },
 "smithy.api#documentation": "<p>Access to resource denied.</p>",
 "smithy.api#error": "client",
 "smithy.api#httpError": 401
 }
},
"com.amazonaws.licensemanager#ActivationOverrideBehavior": {
 "type": "enum",
 "members": {
 "DISTRIBUTED_GRANTS_ONLY": {
 "target": "smithy.api#Unit",

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"ALL_GRANTS_PERMITTED_BY_ISSUER": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "ALL_GRANTS_PERMITTED_BY_ISSUER"
 }
}
},
"com.amazonaws.licensemanager#AllowedOperation": {
 "type": "enum",
 "members": {
 "CREATE_GRANT": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "CreateGrant"
 }
 },
 "CHECKOUT_LICENSE": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "CheckoutLicense"
 }
 },
 "CHECKOUT_BORROW_LICENSE":
{
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "CheckoutBorrowLicense"
 }
},
 "CHECK_IN_LICENSE": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "CheckInLicense"
 }
 },
 "EXTEND_CONSUMPTION_LICENSE": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "ExtendConsumptionLicense"
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 "LIST_PURCHASED_LICENSES": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "ListPurchasedLicenses"
 }
 },
 },
}

```

```

"CREATE_TOKEN": {
 "target": "smithy.api#Unit",

 "traits": {
 "smithy.api#enumValue": "CreateToken"
 }
},
"com.amazonaws.licensemanager#AllowedOperationList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#AllowedOperation"
 },
 "traits": {
 "smithy.api#length": {
 "min": 1,
 "max": 7
 }
 }
},
"com.amazonaws.licensemanager#Arn": {
 "type": "string",
 "traits": {
 "smithy.api#length": {
 "min": 0,
 "max": 2048
 },
 "smithy.api#pattern": "^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:/+=,@.-]{0,1023}$"
 }
},
"com.amazonaws.licensemanager#ArnList":
{
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#Arn"
 }
},
"com.amazonaws.licensemanager#AuthorizationException": {
 "type": "structure",
 "members": {
 "Message": {
 "target": "com.amazonaws.licensemanager#Message"
 }
 },
 "traits": {
 "aws.protocols#awsQueryError": {

```

```

 "code": "AuthorizationFailure",
 "httpResponseCode": 403
 },
 "smithy.api#documentation": "<p>The Amazon Web Services user account does not have permission to
perform the action. Check the IAM\n policy associated with this account.</p>",
 "smithy.api#error": "client",
 "smithy.api#httpError": 403
}
},
"com.amazonaws.licensemanager#AutomatedDiscoveryInformation": {
 "type":
"structure",
 "members": {
 "LastRunTime": {
 "target": "com.amazonaws.licensemanager#DateTime",
 "traits": {
 "smithy.api#documentation": "<p>Time that automated discovery last ran.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>Describes automated discovery.</p>"
 }
},
"com.amazonaws.licensemanager#Boolean": {
 "type": "boolean",
 "traits": {
 "smithy.api#default": false
 }
},
"com.amazonaws.licensemanager#BorrowConfiguration": {
 "type": "structure",
 "members": {
 "AllowEarlyCheckIn": {
 "target": "com.amazonaws.licensemanager#BoxBoolean",
 "traits": {
 "smithy.api#documentation": "<p>Indicates whether early check-ins are
allowed.</p>",
 "smithy.api#required": {}
 }
 },
 "MaxTimeToLiveInMinutes": {
 "target": "com.amazonaws.licensemanager#BoxInteger",
 "traits": {
 "smithy.api#documentation": "<p>Maximum time for the borrow configuration, in minutes.</p>",
 "smithy.api#required": {}
 }
 }
 }
}

```

```

 },
 "traits": {
 "smithy.api#documentation": "<p>Details about a borrow configuration.</p>"
 }
 },
 "com.amazonaws.licensemanager#BoxBoolean": {
 "type": "boolean"
 },
 "com.amazonaws.licensemanager#BoxInteger": {
 "type": "integer"
 },
 "com.amazonaws.licensemanager#BoxLong": {
 "type": "long"
 },
 "com.amazonaws.licensemanager#CheckInLicense": {
 "type": "operation",
 "input":
 {
 "target": "com.amazonaws.licensemanager#CheckInLicenseRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#CheckInLicenseResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#ConflictException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"

```



```

 }
],
 "traits": {
 "smithy.api#documentation": "<p>Checks in the specified license. Check in a license when it is no longer
in use.</p>"
 }
},
"com.amazonaws.licensemanager#CheckInLicenseRequest": {
 "type": "structure",
 "members": {
 "LicenseConsumptionToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>License consumption token.</p>",
 "smithy.api#required": {}
 }
 }
 },
 "Beneficiary": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>License beneficiary.</p>"
 }
 }
},
"traits": {
 "smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CheckInLicenseResponse": {
 "type": "structure",
 "members": {},
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#CheckoutBorrowLicense": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 }
],

```

```

 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#EntitlementNotAllowedException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#RedirectException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Checks out the specified license for offline use.</p>"
 }
},
"com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest": {
 "type": "structure",
 "members": {
 "LicenseArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license. The license must use the borrow consumption configuration.</p>",
 "smithy.api#required": {}
 }
 }
 },
 "Entitlements": {
 "target": "com.amazonaws.licensemanager#EntitlementDataList",

```

```

 "traits":
 {
 "smithy.api#documentation": "<p>License entitlements. Partial checkouts are not supported.</p>",
 "smithy.api#required": {}
 }
},
"DigitalSignatureMethod": {
 "target": "com.amazonaws.licensemanager#DigitalSignatureMethod",
 "traits": {
 "smithy.api#documentation": "<p>Digital signature method. The possible value is JSON Web
Signature (JWS) algorithm PS384.\n For more information, see RFC 7518 Digital Signature with RSASSA-PSS.</p>",
 "smithy.api#required": {}
 }
},
"NodeId": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Node ID.</p>"
 }
},
},
"CheckoutMetadata": {
 "target": "com.amazonaws.licensemanager#MetadataList",
 "traits": {
 "smithy.api#documentation": "<p>Information about constraints.</p>"
 }
},
"ClientToken": {
 "target": "com.amazonaws.licensemanager#ClientToken",
 "traits": {
 "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",
 "smithy.api#required": {}
 }
}
},
"traits": {
 "smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse": {
 "type": "structure",
 "members": {
 "LicenseArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
 }
 }
 }
}

```

```

 }
 },
 "LicenseConsumptionToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>License consumption token.</p>"
 }
 },
 "EntitlementsAllowed": {
 "target": "com.amazonaws.licensemanager#EntitlementDataList",
 "traits": {
 "smithy.api#documentation": "<p>Allowed license entitlements.</p>"
 }
 },
 "NodeId": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Node ID.</p>"
 }
 },
 "SignedToken":
{
 "target": "com.amazonaws.licensemanager#SignedToken",
 "traits": {
 "smithy.api#documentation": "<p>Signed token.</p>"
 }
},
 "IssuedAt": {
 "target": "com.amazonaws.licensemanager#ISO8601DateTime",
 "traits": {
 "smithy.api#documentation": "<p>Date and time at which the license checkout is issued.</p>"
 }
 },
 "Expiration": {
 "target": "com.amazonaws.licensemanager#ISO8601DateTime",
 "traits": {
 "smithy.api#documentation": "<p>Date and time at which the license checkout expires.</p>"
 }
 },
 "CheckoutMetadata": {
 "target": "com.amazonaws.licensemanager#MetadataList",
 "traits": {
 "smithy.api#documentation":
"<p>Information about constraints.</p>"
 }
 }
},
 "traits": {

```

```

 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#CheckoutLicense": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#CheckoutLicenseRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#CheckoutLicenseResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#RedirectException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Checks out the specified license.</p>\n <note>\n <p>If the
account that created the license
is the same that is performing the check out, you must\n specify the account as the beneficiary.</p>\n
</note>"
 }
}

```

```

 }
 },
 "com.amazonaws.licensemanager#CheckoutLicenseRequest": {
 "type": "structure",
 "members": {
 "ProductSKU": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Product SKU.</p>",
 "smithy.api#required": {}
 }
 },
 "CheckoutType": {
 "target": "com.amazonaws.licensemanager#CheckoutType",
 "traits": {
 "smithy.api#documentation": "<p>Checkout type.</p>",
 "smithy.api#required": {}
 }
 },
 "KeyFingerprint": {
 "target": "com.amazonaws.licensemanager#String",

 "traits": {
 "smithy.api#documentation": "<p>Key fingerprint identifying the license.</p>",
 "smithy.api#required": {}
 }
 },
 "Entitlements": {
 "target": "com.amazonaws.licensemanager#EntitlementDataList",
 "traits": {
 "smithy.api#documentation": "<p>License entitlements.</p>",
 "smithy.api#required": {}
 }
 },
 "ClientToken": {
 "target": "com.amazonaws.licensemanager#ClientToken",
 "traits": {
 "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
 "smithy.api#required": {}
 }
 },
 "Beneficiary": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>License beneficiary.</p>"
 }
 }
 }
 },

```

```

"NodeId": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Node ID.</p>"
 }
},
"traits": {
 "smithy.api#input": {}
},
"com.amazonaws.licensemanager#CheckoutLicenseResponse": {
 "type": "structure",
 "members": {
 "CheckoutType": {
 "target": "com.amazonaws.licensemanager#CheckoutType",
 "traits": {
 "smithy.api#documentation": "<p>Checkout type.</p>"
 }
 },
 "LicenseConsumptionToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>License consumption token.</p>"
 }
 },
 "EntitlementsAllowed": {
 "target": "com.amazonaws.licensemanager#EntitlementDataList",
 "traits": {
 "smithy.api#documentation": "<p>Allowed license entitlements.</p>"
 }
 },
 "SignedToken": {
 "target": "com.amazonaws.licensemanager#SignedToken",
 "traits": {
 "smithy.api#documentation": "<p>Signed token.</p>"
 }
 },
 "NodeId": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Node ID.</p>"
 }
 },
 "IssuedAt": {
 "target": "com.amazonaws.licensemanager#ISO8601DateTime",
 "traits": {
 "smithy.api#documentation": "<p>Date and time at which the license checkout is issued.</p>"
 }
 }
 }
}

```

```

 }
 },
 "Expiration": {
 "target": "com.amazonaws.licensemanager#ISO8601DateTime",
 "traits": {
 "smithy.api#documentation": "<p>Date and time at which the license checkout expires.</p>"
 }
 },
 "LicenseArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the checkout license.</p>"
 }
 }
},
"traits": {
 "smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CheckoutType":
{
 "type": "enum",
 "members": {
 "PROVISIONAL": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "PROVISIONAL"
 }
 },
 "PERPETUAL": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "PERPETUAL"
 }
 }
 }
}
},
"com.amazonaws.licensemanager#ClientRequestToken": {
 "type": "string",
 "traits": {
 "smithy.api#length": {
 "min": 1,
 "max": 36
 }
 }
}
},
"com.amazonaws.licensemanager#ClientToken": {
 "type": "string",

```



```

 "traits": {
 "smithy.api#length": {
 "min": 0,
 "max": 2048
 },
 "smithy.api#pattern": "^\\S+$"
 }
 },
 "com.amazonaws.licensemanager#ConflictException": {
 "type": "structure",
 "members": {
 "Message": {
 "target": "com.amazonaws.licensemanager#Message"
 }
 },
 "traits": {
 "aws.protocols#awsQueryError": {
 "code": "ConflictException",
 "httpResponseCode": 409
 },
 "smithy.api#documentation": "<p>There was a conflict processing the request. Try your request again.</p>",
 "smithy.api#error": "client",
 "smithy.api#httpError": 409
 }
 },
 "com.amazonaws.licensemanager#ConsumedLicenseSummary": {
 "type": "structure",
 "members": {
 "ResourceType": {
 "target": "com.amazonaws.licensemanager#ResourceType",
 "traits": {
 "smithy.api#documentation": "<p>Resource type of the resource consuming a license.</p>"
 }
 },
 "ConsumedLicenses": {
 "target": "com.amazonaws.licensemanager#BoxLong",
 "traits": {
 "smithy.api#documentation": "<p>Number of licenses consumed by the resource.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>Details about license consumption.</p>"
 }
 },
 "com.amazonaws.licensemanager#ConsumedLicenseSummaryList": {

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 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#ConsumedLicenseSummary"
 }
 },
 "com.amazonaws.licensemanager#ConsumptionConfiguration": {
 "type": "structure",
 "members": {
 "RenewType": {
 "target": "com.amazonaws.licensemanager#RenewType",
 "traits": {
 "smithy.api#documentation": "<p>Renewal frequency.</p>"
 }
 },
 "ProvisionalConfiguration": {
 "target": "com.amazonaws.licensemanager#ProvisionalConfiguration",
 "traits": {
 "smithy.api#documentation": "<p>Details about a provisional configuration.</p>"
 }
 },
 "BorrowConfiguration": {
 "target": "com.amazonaws.licensemanager#BorrowConfiguration",
 "traits": {
 "smithy.api#documentation": "<p>Details about a borrow configuration.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>Details about a consumption configuration.</p>"
 }
 },
 "com.amazonaws.licensemanager#CreateGrant":
{
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#CreateGrantRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#CreateGrantResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 }
],

```

```

 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Creates a grant for the specified license. A grant shares the use of
license\n entitlements with a specific Amazon Web Services account, an organization, or an\n
organizational unit (OU). For more information, see <a href=\"https://docs.aws.amazon.com/license-
manager/latest/userguide/granted-licenses.html\">Granted licenses in License Manager in the <i>License
Manager User Guide</i>.</p>"
 }
},
"com.amazonaws.licensemanager#CreateGrantRequest": {
 "type": "structure",
 "members": {
 "ClientToken": {
 "target": "com.amazonaws.licensemanager#ClientToken",
 "traits": {
 "smithy.api#documentation":
"<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
 "smithy.api#required": {}
 }
 },
 "GrantName": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Grant name.</p>",
 "smithy.api#required": {}
 }
 },
 "LicenseArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
 "smithy.api#required": {}
 }
 }
 }
}

```

```

 },
 "Principals": {
 "target": "com.amazonaws.licensemanager#PrincipalArnList",
 "traits": {
 "smithy.api#documentation":
 "<p>The grant principals. You can specify one of the following as an Amazon Resource Name\n
 (ARN):</p>\n \n \n <p>An Amazon Web Services account, which includes only the\n
 account specified.</p>\n \n \n \n \n <p>An organizational unit\n
 (OU), which includes all accounts in the OU.</p>\n \n \n \n \n <p>An organization, which will include all accounts across your organization.</p>\n \n ",
 "smithy.api#required": {}
 }
 },
 },
 "HomeRegion": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Home Region of the grant.</p>",
 "smithy.api#required": {}
 }
 }
 },
 "AllowedOperations": {
 "target": "com.amazonaws.licensemanager#AllowedOperationList",
 "traits": {
 "smithy.api#documentation": "<p>Allowed operations for the grant.</p>",
 "smithy.api#required": {}
 }
 }
},
"traits": {
 "smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateGrantResponse": {
 "type": "structure",
 "members": {
 "GrantArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>Grant ARN.</p>"
 }
 }
 },
 "Status": {
 "target": "com.amazonaws.licensemanager#GrantStatus",
 "traits": {
 "smithy.api#documentation":
 "<p>Grant status.</p>"
 }
 }
}

```

```

 },
 "Version": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Grant version.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#CreateGrantVersion": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#CreateGrantVersionRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#CreateGrantVersionResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Creates a new version of the specified grant. For more information, see\n Granted licenses in License Manager in the <i>License Manager User Guide</i>.</p>"
 }
}

```

```

 }
 },
 "com.amazonaws.licensemanager#CreateGrantVersionRequest": {
 "type": "structure",
 "members": {
 "ClientToken": {
 "target": "com.amazonaws.licensemanager#ClientToken",
 "traits": {
 "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
 "smithy.api#required": {}
 }
 },
 "GrantArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
 "smithy.api#required": {}
 }
 },
 "GrantName": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Grant name.</p>"
 }
 },
 "AllowedOperations": {
 "target": "com.amazonaws.licensemanager#AllowedOperationList",
 "traits": {
 "smithy.api#documentation": "<p>Allowed operations for the grant.</p>"
 }
 },
 "Status": {
 "target": "com.amazonaws.licensemanager#GrantStatus",
 "traits": {
 "smithy.api#documentation": "<p>Grant status.</p>"
 }
 },
 "StatusReason": {
 "target": "com.amazonaws.licensemanager#StatusReasonMessage",
 "traits": {
 "smithy.api#documentation": "<p>Grant status reason.</p>"
 }
 },
 "SourceVersion": {
 "target": "com.amazonaws.licensemanager#String",

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 "traits": {
 "smithy.api#documentation": "<p>Current version of the grant.</p>"
 }
 },
 "Options": {
 "target": "com.amazonaws.licensemanager#Options",
 "traits": {
 "smithy.api#documentation": "<p>The options specified for the grant.</p>"
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
},
"com.amazonaws.licensemanager#CreateGrantVersionResponse": {
 "type": "structure",
 "members": {
 "GrantArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>Grant ARN.</p>"
 }
 },
 "Status": {
 "target": "com.amazonaws.licensemanager#GrantStatus",
 "traits": {
 "smithy.api#documentation": "<p>Grant status.</p>"
 }
 },
 "Version": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>New version of the grant.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#CreateLicense": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#CreateLicenseRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#CreateLicenseResponse"
 }
}

```

```

 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 }
],
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#RedirectException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Creates a license.</p>"
 }
},
"com.amazonaws.licensemanager#CreateLicenseConfiguration": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#CreateLicenseConfigurationRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#CreateLicenseConfigurationResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {

```



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 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 }
],
"traits": {
 "smithy.api#documentation": "<p>Creates a license configuration.</p>\n <p>A license configuration is an abstraction of a customer license agreement that can be\n consumed and enforced by License Manager. Components include specifications for the license\n type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n Dedicated Instance, Dedicated Host, or all of these), license affinity to host (how long a \n license must be associated with a host), and the number of licenses purchased and used.</p>"
}
},
"com.amazonaws.licensemanager#CreateLicenseConfigurationRequest": {
 "type": "structure",
 "members": {
 "Name": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Name of the license configuration.</p>",
 "smithy.api#required": {}
 }
 },
 "Description": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Description of the license configuration.</p>"
 }
 },
 "LicenseCountingType": {
 "target": "com.amazonaws.licensemanager#LicenseCountingType",
 "traits": {
 "smithy.api#documentation": "<p>Dimension used to track the license inventory.</p>",
 "smithy.api#required": {}
 }
 },
 "LicenseCount": {
 "target": "com.amazonaws.licensemanager#BoxLong",
 "traits": {
 "smithy.api#documentation": "<p>Number of licenses managed by the license configuration.</p>"
 }
 }
 }
}

```

```

 }
 },
 "LicenseCountHardLimit": {
 "target": "com.amazonaws.licensemanager#BoxBoolean",
 "traits": {
 "smithy.api#documentation": "<p>Indicates whether hard or soft license enforcement is used. Exceeding a hard limit\n blocks the launch of new instances.</p>"
 }
 },
 "LicenseRules": {
 "target": "com.amazonaws.licensemanager#StringList",
 "traits": {
 "smithy.api#documentation": "<p>License rules. The syntax is #name=value (for example, #allowedTenancy=EC2-DedicatedHost). The available rules \n vary by dimension, as follows.</p>\n
 \n
 \n
 <p>\n
 <code>Cores</code> dimension: <code>allowedTenancy</code> |\n
 <code>licenseAffinityToHost</code> |\n
 <code>maximumCores</code> |\n
 <code>minimumCores</code>\n
 </p>\n
 \n
 \n
 <p>\n
 <code>Instances</code> dimension:\n
 <code>allowedTenancy</code> | \n
 <code>maximumCores</code> | <code>minimumCores</code> |\n
 <code>maximumSockets</code> | <code>minimumSockets</code> |\n
 <code>maximumVcpus</code> | <code>minimumVcpus</code>\n
 </p>\n
 \n
 \n
 <p>\n
 <code>Sockets</code> dimension: <code>allowedTenancy</code> | \n
 <code>licenseAffinityToHost</code> |\n
 <code>maximumSockets</code> |\n
 <code>minimumSockets</code>\n
 </p>\n
 \n
 \n
 <p>\n
 <code>vCPUs</code> dimension: <code>allowedTenancy</code> | \n
 <code>honorVcpuOptimization</code> | \n
 <code>maximumVcpus</code> |\n
 <code>minimumVcpus</code>\n
 </p>\n
 \n
 \n
 <p>The unit for <code>licenseAffinityToHost</code> is days and the range is 1 to 180. The possible \n values for <code>allowedTenancy</code> are <code>EC2-Default</code>, <code>EC2-DedicatedHost</code>, and \n <code>EC2-DedicatedInstance</code>. The possible values for <code>honorVcpuOptimization</code> are \n <code>True</code> and <code>False</code>.</p>"
 }
 },
 "Tags": {
 "target": "com.amazonaws.licensemanager#TagList",
 "traits": {
 "smithy.api#documentation": "<p>Tags to add to the license configuration.</p>"
 }
 },
 "DisassociateWhenNotFound": {
 "target": "com.amazonaws.licensemanager#BoxBoolean",
 "traits": {
 "smithy.api#documentation": "<p>When true, disassociates a resource when software is uninstalled.</p>"
 }
 },
 "ProductInformationList": {
 "target": "com.amazonaws.licensemanager#ProductInformationList",

```

```

 "traits": {
 "smithy.api#documentation": "<p>Product information.</p>"
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
},
"com.amazonaws.licensemanager#CreateLicenseConfigurationResponse": {
 "type": "structure",
 "members": {
 "LicenseConfigurationArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource":
{
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 }
]
}

```

```

 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Creates a new license conversion task.</p>"
 }
},
"com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest": {
 "type": "structure",
 "members": {
 "ResourceArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource you are converting the license type for.</p>",
 "smithy.api#required": {}
 }
 },
 "SourceLicenseContext": {
 "target": "com.amazonaws.licensemanager#LicenseConversionContext",
 "traits": {
 "smithy.api#documentation":
 "<p>Information that identifies the license type you are converting from. \n\n For the structure of the source license, see Convert a license type using the CLI in the <i>License Manager User Guide</i>.</p>",
 "smithy.api#required": {}
 }
 },
 "DestinationLicenseContext": {
 "target": "com.amazonaws.licensemanager#LicenseConversionContext",
 "traits": {
 "smithy.api#documentation": "<p>Information that identifies the license type you are converting to. For the structure of the destination license, see Convert a license type using the CLI in the <i>License Manager User Guide</i>.</p>",
 "smithy.api#required": {}
 }
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
},
"com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse": {

```

```

"type": "structure",
"members": {
 "LicenseConversionTaskId": {
 "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
 "traits": {
 "smithy.api#documentation": "<p>The ID of the created license type conversion task.</p>"
 }
 }
},
"traits": {
 "smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
 "traits": {

```

```

 "smithy.api#documentation": "<p>Creates a report generator.</p>"
 }
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest": {
 "type": "structure",
 "members": {
 "ReportGeneratorName": {
 "target": "com.amazonaws.licensemanager#ReportGeneratorName",
 "traits": {
 "smithy.api#documentation": "<p>Name of the report generator.</p>",
 "smithy.api#required": {}
 }
 }
 },
 "Type": {
 "target": "com.amazonaws.licensemanager#ReportTypeList",
 "traits": {
 "smithy.api#documentation": "<p>Type of reports to generate. The
following report types an be generated:</p>\n \n \n <p>License configuration report -
Reports the number and details of consumed licenses for a license configuration.</p>\n \n \n <p>Resource report - Reports the tracked licenses and resource consumption for a license
configuration.</p>\n \n ",
 "smithy.api#required": {}
 }
 }
 },
 "ReportContext": {
 "target": "com.amazonaws.licensemanager#ReportContext",
 "traits": {
 "smithy.api#documentation": "<p>Defines the type of license configuration the report generator
tracks.</p>",
 "smithy.api#required": {}
 }
 }
 },
 "ReportFrequency": {
 "target": "com.amazonaws.licensemanager#ReportFrequency",

 "traits": {
 "smithy.api#documentation": "<p>Frequency by which reports are generated. Reports can be
generated daily, monthly, or weekly.</p>",
 "smithy.api#required": {}
 }
 }
 },
 "ClientToken": {
 "target": "com.amazonaws.licensemanager#ClientRequestToken",
 "traits": {
 "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",
 "smithy.api#required": {}
 }
 }
 }
}

```

```

 },
 "Description": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Description of the report generator.</p>"
 }
 },
 "Tags": {
 "target": "com.amazonaws.licensemanager#TagList",
 "traits": {
 "smithy.api#documentation": "<p>Tags to add to the report generator.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse": {
 "type": "structure",
 "members": {
 "LicenseManagerReportGeneratorArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the new report generator.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#CreateLicenseRequest": {
 "type": "structure",
 "members": {
 "LicenseName": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>License name.</p>",
 "smithy.api#required": {}
 }
 },
 "ProductName": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Product name.</p>",

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 "smithy.api#required": {}
 }
},
"ProductSKU": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Product SKU.</p>",
 "smithy.api#required": {}
 }
},
"Issuer": {
 "target": "com.amazonaws.licensemanager#Issuer",

"traits": {
 "smithy.api#documentation": "<p>License issuer.</p>",
 "smithy.api#required": {}
}
},
"HomeRegion": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Home Region for the license.</p>",
 "smithy.api#required": {}
 }
},
"Validity": {
 "target": "com.amazonaws.licensemanager#DatetimeRange",
 "traits": {
 "smithy.api#documentation": "<p>Date and time range during which the license is valid, in ISO8601-
UTC format.</p>",
 "smithy.api#required": {}
 }
},
"Entitlements": {
 "target": "com.amazonaws.licensemanager#EntitlementList",
 "traits":
{
 "smithy.api#documentation": "<p>License entitlements.</p>",
 "smithy.api#required": {}
}
},
"Beneficiary": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>License beneficiary.</p>",
 "smithy.api#required": {}
 }
},

```



```

"ConsumptionConfiguration": {
 "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
 "traits": {
 "smithy.api#documentation": "<p>Configuration for consumption of the license. Choose a provisional
configuration for workloads\n running with continuous connectivity. Choose a borrow configuration for
workloads with offline\n usage.</p>",
 "smithy.api#required": {}
 }
},
"LicenseMetadata": {
 "target": "com.amazonaws.licensemanager#MetadataList",
 "traits": {
 "smithy.api#documentation": "<p>Information about the license.</p>"
 }
},
"ClientToken": {
 "target": "com.amazonaws.licensemanager#ClientToken",
 "traits": {
 "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",
 "smithy.api#required": {}
 }
},
"traits": {
 "smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseResponse": {
 "type": "structure",
 "members": {
 "LicenseArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
 }
 },
 "Status": {
 "target": "com.amazonaws.licensemanager#LicenseStatus",
 "traits": {
 "smithy.api#documentation": "<p>License status.</p>"
 }
 },
 "Version": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>License version.</p>"
 }
 }
 }
}

```

```

 }
 }
},
"traits": {
 "smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseVersion": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#CreateLicenseVersionRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#CreateLicenseVersionResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#ConflictException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#RedirectException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 }
],
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
"traits": {
 "smithy.api#documentation": "<p>Creates a new version of the specified license.</p>"
}
},
"com.amazonaws.licensemanager#CreateLicenseVersionRequest": {
 "type": "structure",

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```

"members": {
 "LicenseArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
 "smithy.api#required": {}
 }
 },
 "LicenseName": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>License name.</p>",
 "smithy.api#required": {}
 }
 }
},
"ProductName": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Product name.</p>",
 "smithy.api#required": {}
 }
},
"Issuer": {
 "target": "com.amazonaws.licensemanager#Issuer",
 "traits": {
 "smithy.api#documentation": "<p>License issuer.</p>",
 "smithy.api#required": {}
 }
},
"HomeRegion": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Home Region of the license.</p>",
 "smithy.api#required": {}
 }
},
"Validity": {
 "target": "com.amazonaws.licensemanager#DatetimeRange",
 "traits": {
 "smithy.api#documentation": "<p>Date and time range during which the license is valid, in ISO8601-
UTC format.</p>",
 "smithy.api#required": {}
 }
},
"LicenseMetadata": {
 "target": "com.amazonaws.licensemanager#MetadataList",

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```

 "traits": {
 "smithy.api#documentation": "<p>Information about the license.</p>"
 }
 },
 "Entitlements": {
 "target": "com.amazonaws.licensemanager#EntitlementList",
 "traits": {
 "smithy.api#documentation": "<p>License entitlements.</p>",
 "smithy.api#required": {}
 }
 },
 "ConsumptionConfiguration": {
 "target":
"com.amazonaws.licensemanager#ConsumptionConfiguration",
 "traits": {
 "smithy.api#documentation": "<p>Configuration for consumption of the license. Choose a provisional
configuration for workloads\n running with continuous connectivity. Choose a borrow configuration for
workloads with offline\n usage.</p>",
 "smithy.api#required": {}
 }
 },
 "Status": {
 "target": "com.amazonaws.licensemanager#LicenseStatus",
 "traits": {
 "smithy.api#documentation": "<p>License status.</p>",
 "smithy.api#required": {}
 }
 },
 "ClientToken": {
 "target": "com.amazonaws.licensemanager#ClientToken",
 "traits": {
 "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you
provide to ensure the idempotency of the request.</p>",
 "smithy.api#required": {}
 }
 },
 "SourceVersion": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Current version of the license.</p>"
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
},
"com.amazonaws.licensemanager#CreateLicenseVersionResponse": {

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"type": "structure",
"members": {
 "LicenseArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>License ARN.</p>"
 }
 },
 "Version": {
 "target": "com.amazonaws.licensemanager#String",

 "traits": {
 "smithy.api#documentation": "<p>New version of the license.</p>"
 }
 },
 "Status": {
 "target": "com.amazonaws.licensemanager#LicenseStatus",
 "traits": {
 "smithy.api#documentation": "<p>License status.</p>"
 }
 }
},
"traits": {
 "smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CreateToken": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#CreateTokenRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#CreateTokenResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#RedirectException"
 }
],

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 {
 "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Creates a long-lived token.</p>\n <p>A refresh token is a JWT token used to get an access token. With an access token,\n you can call AssumeRoleWithWebIdentity to get role credentials that you can use to \n call License Manager to manage the specified license.</p>"
 }
},
"com.amazonaws.licensemanager#CreateTokenRequest": {
 "type": "structure",
 "members": {
 "LicenseArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license. The ARN is mapped to the aud claim of the\n JWT token.</p>",
 "smithy.api#required": {}
 }
 },
 "RoleArns": {
 "target": "com.amazonaws.licensemanager#ArnList",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the IAM roles to embed in the token. \n License Manager does not check whether the roles are in use.</p>"
 }
 },
 "ExpirationInDays": {
 "target": "com.amazonaws.licensemanager#Integer",
 "traits": {
 "smithy.api#documentation": "<p>Token expiration, in days, counted from token creation. The default is 365 days.</p>"
 }
 },
 "TokenProperties": {
 "target": "com.amazonaws.licensemanager#MaxSize3StringList",

```

```

 "traits": {
 "smithy.api#documentation": "<p>Data specified by the caller to be included in the JWT token. The
data is mapped\n to the amr claim of the JWT token.</p>"
 }
 },
 "ClientToken": {
 "target": "com.amazonaws.licensemanager#ClientToken",
 "traits": {
 "smithy.api#documentation":
"<p>Idempotency token, valid for 10 minutes.</p>",
 "smithy.api#required": {}
 }
 }
},
"traits": {
 "smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateTokenResponse": {
 "type": "structure",
 "members": {
 "TokenId": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token ID.</p>"
 }
 },
 "TokenType": {
 "target": "com.amazonaws.licensemanager#TokenType",
 "traits": {
 "smithy.api#documentation": "<p>Token type.</p>"
 }
 },
 "Token": {
 "target": "com.amazonaws.licensemanager#TokenString",
 "traits": {
 "smithy.api#documentation": "<p>Refresh token, encoded as a JWT token.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#DateTime": {
 "type": "timestamp"
},

```

```

"com.amazonaws.licensemanager#DatetimeRange": {
 "type": "structure",
 "members": {
 "Begin": {
 "target": "com.amazonaws.licensemanager#ISO8601DateTime",
 "traits": {
 "smithy.api#documentation": "<p>Start of the time range.</p>",
 "smithy.api#required": {}
 }
 },
 "End": {
 "target": "com.amazonaws.licensemanager#ISO8601DateTime",
 "traits": {
 "smithy.api#documentation": "<p>End of the time range.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>Describes a time range, in ISO8601-UTC format.</p>"
 }
},
"com.amazonaws.licensemanager#DeleteGrant": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#DeleteGrantRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#DeleteGrantResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 }
]
}

```



```

 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Deletes the specified grant.</p>"
 }
},
"com.amazonaws.licensemanager#DeleteGrantRequest": {
 "type": "structure",
 "members": {
 "GrantArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
 "smithy.api#required": {}
 }
 },
 "StatusReason": {
 "target": "com.amazonaws.licensemanager#StatusReasonMessage",
 "traits": {
 "smithy.api#documentation": "<p>The Status reason for the delete request.</p>"
 }
 },
 "Version": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Current version of the grant.</p>",
 "smithy.api#required": {}
 }
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
},
"com.amazonaws.licensemanager#DeleteGrantResponse": {
 "type": "structure",
 "members": {
 "GrantArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>Grant ARN.</p>"
 }
 },
 "Status": {

```

```

 "target": "com.amazonaws.licensemanager#GrantStatus",
 "traits": {
 "smithy.api#documentation": "<p>Grant status.</p>"
 }
 },
 "Version": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Grant version.</p>"
 }
 }
},
"traits": {
 "smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#DeleteLicense": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#DeleteLicenseRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#DeleteLicenseResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#ConflictException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#RedirectException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {

```

```

 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
"traits": {
 "smithy.api#documentation": "<p>Deletes the specified license.</p>"
}
},
"com.amazonaws.licensemanager#DeleteLicenseConfiguration": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 }
]
}
},
"traits": {
 "smithy.api#documentation": "<p>Deletes the specified license configuration.</p>\n <p>You cannot delete a license configuration that is in use.</p>"
}
},
"com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest": {
 "type": "structure",
 "members": {
 "LicenseConfigurationArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>ID of the license configuration.</p>",
 "smithy.api#required": {}
 }
 }
 }
}

```

```

 }
 },
 "traits": {
 "smithy.api#input": {}
 }
},
"com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse": {
 "type": "structure",
 "members": {},
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
]
},

```

```

 "traits": {
 "smithy.api#documentation": "<p>Deletes the specified report generator.</p>\n <p>This action
deletes the report generator, which stops it from generating future reports.\n The action cannot be reversed. It
has no effect on the previous reports from this generator.</p>"
 }
 },
 "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest": {

 "type": "structure",
 "members": {
 "LicenseManagerReportGeneratorArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator to be
deleted.</p>",
 "smithy.api#required": {}
 }
 },
 },
 "traits": {
 "smithy.api#input": {}
 }
 },
 "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse": {
 "type": "structure",
 "members": {},
 "traits": {
 "smithy.api#output": {}
 }
 },
 "com.amazonaws.licensemanager#DeleteLicenseRequest": {
 "type": "structure",
 "members": {
 "LicenseArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits":
{
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
 "smithy.api#required": {}
 }
 },
 },
 "SourceVersion": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Current version of the license.</p>",
 "smithy.api#required": {}
 }
 }
 }
}

```

```

 },
 "traits": {
 "smithy.api#input": {}
 }
 },
 "com.amazonaws.licensemanager#DeleteLicenseResponse": {
 "type": "structure",
 "members": {
 "Status": {
 "target": "com.amazonaws.licensemanager#LicenseDeletionStatus",
 "traits": {
 "smithy.api#documentation": "<p>License status.</p>"
 }
 }
 },
 "DeletionDate": {
 "target": "com.amazonaws.licensemanager#ISO8601DateTime",
 "traits": {
 "smithy.api#documentation": "<p>Date when the license is deleted.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#DeleteToken": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#DeleteTokenRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#DeleteTokenResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#RedirectException"
 }
],

```

```

 {
 "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Deletes the specified token. Must be called in the license home
Region.</p>"
 }
},
"com.amazonaws.licensemanager#DeleteTokenRequest": {
 "type": "structure",
 "members": {
 "TokenId": {
 "target": "com.amazonaws.licensemanager#String",

"traits": {
 "smithy.api#documentation": "<p>Token ID.</p>",
 "smithy.api#required": {}
}
},
"traits": {
 "smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#DeleteTokenResponse": {
 "type": "structure",
 "members": {},
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#DigitalSignatureMethod": {
 "type": "enum",
 "members": {
 "JWT_PS384": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "JWT_PS384"
 }
 }
 }
}
}

```

```

},
"com.amazonaws.licensemanager#Entitlement": {
 "type": "structure",
 "members": {
 "Name": {

 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Entitlement name.</p>",
 "smithy.api#required": {}
 }
 },
 "Value": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Entitlement resource. Use only if the unit is None.</p>"
 }
 },
 "MaxCount": {
 "target": "com.amazonaws.licensemanager#Long",
 "traits": {
 "smithy.api#documentation": "<p>Maximum entitlement count. Use if the unit is not None.</p>"
 }
 },
 "Overage": {
 "target": "com.amazonaws.licensemanager#BoxBoolean",
 "traits": {
 "smithy.api#documentation":
"<p>Indicates whether overages are allowed.</p>"
 }
 },
 "Unit": {
 "target": "com.amazonaws.licensemanager#EntitlementUnit",
 "traits": {
 "smithy.api#documentation": "<p>Entitlement unit.</p>",
 "smithy.api#required": {}
 }
 },
 "AllowCheckIn": {
 "target": "com.amazonaws.licensemanager#BoxBoolean",
 "traits": {
 "smithy.api#documentation": "<p>Indicates whether check-ins are allowed.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>Describes a resource entitled for use with a license.</p>"
 }
}

```



```

 },
 "com.amazonaws.licensemanager#EntitlementData": {
 "type": "structure",
 "members": {
 "Name": {
 {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Entitlement data name.</p>",
 "smithy.api#required": {}
 }
 },
 },
 "Value": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Entitlement data value.</p>"
 }
 },
 "Unit": {
 "target": "com.amazonaws.licensemanager#EntitlementDataUnit",
 "traits": {
 "smithy.api#documentation": "<p>Entitlement data unit.</p>",
 "smithy.api#required": {}
 }
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>Data associated with an entitlement resource.</p>"
 }
 }
 },
 "com.amazonaws.licensemanager#EntitlementDataList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#EntitlementData"
 }
 },
 "com.amazonaws.licensemanager#EntitlementDataUnit": {
 "type": "enum",
 "members": {
 "COUNT": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Count"
 }
 },
 },
 "NONE": {
 "target": "smithy.api#Unit",
 }
 }

```

```

 "traits": {
 "smithy.api#enumValue": "None"
 }
 },
 "SECONDS": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Seconds"
 }
 },
 "MICROSECONDS": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Microseconds"
 }
 },
 "MILLISECONDS": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Milliseconds"
 }
 },
 "BYTES": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Bytes"
 }
 },
 "KILOBYTES": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Kilobytes"
 }
 },
 "MEGABYTES": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Megabytes"
 }
 }
},
"GIGABYTES": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Gigabytes"
 }
},

```

```

"TERABYTES": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Terabytes"
 }
},
"BITS": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Bits"
 }
},
"KILOBITS": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Kilobits"
 }
},
"MEGABITS": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Megabits"
 }
},
"GIGABITS": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Gigabits"
 }
},
"TERABITS": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Terabits"
 }
},
"PERCENT": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Percent"
 }
},
"BYTES_PER_SECOND": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Bytes/Second"
 }
}

```

```

 },
 "KILOBYTES_PER_SECOND": {
 "target":
"smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Kilobytes/Second"
 }
 },
 "MEGABYTES_PER_SECOND": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Megabytes/Second"
 }
 },
 "GIGABYTES_PER_SECOND": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Gigabytes/Second"
 }
 },
 "TERABYTES_PER_SECOND": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Terabytes/Second"
 }
 },
 "BITS_PER_SECOND": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue":
"Bits/Second"
 }
 },
 "KILOBITS_PER_SECOND": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Kilobits/Second"
 }
 },
 "MEGABITS_PER_SECOND": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Megabits/Second"
 }
 },
 "GIGABITS_PER_SECOND": {
 "target": "smithy.api#Unit",
 "traits": {

```

```

 "smithy.api#enumValue": "Gigabits/Second"
 }
},
"TERABITS_PER_SECOND": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Terabits/Second"
 }
},

"COUNT_PER_SECOND": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Count/Second"
 }
}
},
"com.amazonaws.licensemanager#EntitlementList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#Entitlement"
 }
},
"com.amazonaws.licensemanager#EntitlementNotAllowedException": {
 "type": "structure",
 "members": {
 "Message": {
 "target": "com.amazonaws.licensemanager#Message"
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>The entitlement is not allowed.</p>",
 "smithy.api#error": "client",
 "smithy.api#httpError": 400
 }
},
"com.amazonaws.licensemanager#EntitlementUnit": {
 "type": "enum",
 "members": {
 "COUNT": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Count"
 }
 },
 "NONE": {

```

```
"target": "smithy.api#Unit",
"traits": {
 "smithy.api#enumValue": "None"
}
},
"SECONDS": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Seconds"
 }
},
"MICROSECONDS": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Microseconds"
 }
},
"MILLISECONDS": {
 "target": "smithy.api#Unit",
 "traits": {

 "smithy.api#enumValue": "Milliseconds"
 }
},
"BYTES": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Bytes"
 }
},
"KILOBYTES": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Kilobytes"
 }
},
"MEGABYTES": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Megabytes"
 }
},
"GIGABYTES": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Gigabytes"
 }
},
```

```

 "TERABYTES": {
 "target":
"smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Terabytes"
 }
 },
 "BITS": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Bits"
 }
 },
 "KILOBITS": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Kilobits"
 }
 },
 "MEGABITS": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Megabits"
 }
 },
 "GIGABITS": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Gigabits"
 }
 },
 "TERABITS": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Terabits"
 }
 },
 "PERCENT": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Percent"
 }
 },
 "BYTES_PER_SECOND": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Bytes/Second"
 }
 }

```

```

 }
 },
 "KILOBYTES_PER_SECOND": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Kilobytes/Second"
 }
 },
 "MEGABYTES_PER_SECOND": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Megabytes/Second"
 }
 },
 "GIGABYTES_PER_SECOND": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Gigabytes/Second"
 }
 },
 "TERABYTES_PER_SECOND": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Terabytes/Second"
 }
 },
 "BITS_PER_SECOND": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Bits/Second"
 }
 },
 "KILOBITS_PER_SECOND": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Kilobits/Second"
 }
 },
},
 "MEGABITS_PER_SECOND": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Megabits/Second"
 }
 },
 "GIGABITS_PER_SECOND": {
 "target": "smithy.api#Unit",

```



```

 "traits": {
 "smithy.api#enumValue": "Gigabits/Second"
 }
 },
 "TERABITS_PER_SECOND": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Terabits/Second"
 }
 },
 "COUNT_PER_SECOND": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Count/Second"
 }
 }
}
},
"com.amazonaws.licensemanager#EntitlementUsage": {
 "type": "structure",
 "members": {
 "Name": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Entitlement usage name.</p>",
 "smithy.api#required": {}
 }
 },
 "ConsumedValue": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Resource usage consumed.</p>",
 "smithy.api#required": {}
 }
 },
 "MaxCount": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Maximum entitlement usage count.</p>"
 }
 },
 "Unit": {
 "target": "com.amazonaws.licensemanager#EntitlementDataUnit",
 "traits": {
 "smithy.api#documentation": "<p>Entitlement usage unit.</p>",
 "smithy.api#required": {}
 }
 }
 }
}

```

```

 },
 "traits": {
 "smithy.api#documentation": "<p>Usage associated with an entitlement resource.</p>"
 }
 },
 "com.amazonaws.licensemanager#EntitlementUsageList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#EntitlementUsage"
 }
 },
 "com.amazonaws.licensemanager#ExtendLicenseConsumption": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse"
 }
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Extends the expiration date for license consumption.</p>"
 }
},

```

```

"com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest": {
 "type": "structure",
 "members": {
 "LicenseConsumptionToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>License consumption token.</p>",
 "smithy.api#required": {}
 }
 },
 "DryRun": {
 "target": "com.amazonaws.licensemanager#Boolean",
 "traits": {
 "smithy.api#default": false,
 "smithy.api#documentation": "<p>Checks whether you have the required permissions for the action, without actually making the request. Provides an error response if you do not have the required permissions.</p>"
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
 },
 "com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse": {
 "type": "structure",
 "members": {
 "LicenseConsumptionToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>License consumption token.</p>"
 }
 },
 "Expiration": {
 "target": "com.amazonaws.licensemanager#ISO8601DateTime",
 "traits": {
 "smithy.api#documentation": "<p>Date and time at which the license consumption expires.</p>"
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
 },
 "com.amazonaws.licensemanager#FailedDependencyException": {
 "type": "structure",
 "members": {
 "Message": {
 "target": "com.amazonaws.licensemanager#Message"
 }
 }
 }
 }
}

```

```

 },
 "ErrorCode": {
 "target": "com.amazonaws.licensemanager#String"
 }
 },
 "traits": {
 "aws.protocols#awsQueryError": {
 "code": "FailedDependency",
 "httpResponseCode": 424
 },
 "smithy.api#documentation": "<p>A dependency required to run the API is missing.</p>",
 "smithy.api#error": "client",
 "smithy.api#httpError": 424
 }
},
"com.amazonaws.licensemanager#Filter": {
 "type": "structure",
 "members": {
 "Name": {
 "target": "com.amazonaws.licensemanager#FilterName",
 "traits": {
 "smithy.api#documentation": "<p>Name of the filter. Filter names are case-sensitive.</p>"
 }
 },
 "Values": {
 "target": "com.amazonaws.licensemanager#FilterValues",
 "traits": {
 "smithy.api#documentation": "<p>The value of the filter, which is case-sensitive. You can only specify one value for the filter.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>A filter name and value pair that is used to return more specific results from a\n describe operation. Filters can be used to match a set of resources by specific criteria,\n such as tags, attributes, or IDs.</p>"
 }
},
"com.amazonaws.licensemanager#FilterLimitExceededException": {
 "type": "structure",
 "members": {
 "Message": {
 "target": "com.amazonaws.licensemanager#Message"
 }
 },
 "traits":
{
 "aws.protocols#awsQueryError": {

```

```

 "code": "FilterLimitExceeded",
 "httpResponseCode": 400
 },
 "smithy.api#documentation": "<p>The request uses too many filters or too many filter values.</p>",
 "smithy.api#error": "client",
 "smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#FilterList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#Filter"
 }
},
"com.amazonaws.licensemanager#FilterName": {
 "type": "string"
},
"com.amazonaws.licensemanager#FilterValue": {
 "type": "string"
},
"com.amazonaws.licensemanager#FilterValues": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#FilterValue",
 "traits": {
"smithy.api#xmlName": "item"
 }
 }
},
"com.amazonaws.licensemanager#Filters": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#Filter",
 "traits": {
 "smithy.api#xmlName": "item"
 }
 }
},
"com.amazonaws.licensemanager#GetAccessToken": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#GetAccessTokenRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#GetAccessTokenResponse"
 },
 "errors": [

```

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 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target":
"com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Gets a temporary access token to use with
AssumeRoleWithWebIdentity. Access tokens\n are valid for one hour.</p>"
 }
},
"com.amazonaws.licensemanager#GetAccessTokenRequest": {
 "type": "structure",
 "members": {
 "Token": {
 "target": "com.amazonaws.licensemanager#TokenString",
 "traits": {
 "smithy.api#documentation": "<p>Refresh token, encoded as a JWT token.</p>",
 "smithy.api#required": {}
 }
 },
 "TokenProperties": {
 "target": "com.amazonaws.licensemanager#MaxSize3StringList",
 "traits": {
 "smithy.api#documentation": "<p>Token properties to validate against those present in the JWT
token.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
},
"com.amazonaws.licensemanager#GetAccessTokenResponse": {
 "type": "structure",
 "members": {
 "AccessToken": {

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 "target": "com.amazonaws.licensemanager#TokenString",
 "traits": {
 "smithy.api#documentation": "<p>Temporary access token.</p>"
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#GetGrant": {
 "type": "operation",

 "input": {
 "target": "com.amazonaws.licensemanager#GetGrantRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#GetGrantResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Gets detailed information about the specified grant.</p>"
 }
},
"com.amazonaws.licensemanager#GetGrantRequest": {

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"type": "structure",
"members": {
 "GrantArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
 "smithy.api#required": {}
 }
 },
 "Version": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Grant version.</p>"
 }
 }
},
"traits": {
 "smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#GetGrantResponse": {
 "type": "structure",
 "members": {
 "Grant": {
 "target": "com.amazonaws.licensemanager#Grant",
 "traits": {
 "smithy.api#documentation": "<p>Grant details.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#GetLicense": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#GetLicenseRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#GetLicenseResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 }
],

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{
 "target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
 "target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
 "target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
 "smithy.api#documentation": "<p>Gets detailed information about the specified license.</p>"
}
},
"com.amazonaws.licensemanager#GetLicenseConfiguration": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#GetLicenseConfigurationRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#GetLicenseConfigurationResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Gets detailed information about the specified license

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configuration.</p>"
 }
 },
 "com.amazonaws.licensemanager#GetLicenseConfigurationRequest":
 {
 "type": "structure",
 "members": {
 "LicenseConfigurationArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
 "smithy.api#required": {}
 }
 },
 },
 "traits": {
 "smithy.api#input": {}
 }
 },
 "com.amazonaws.licensemanager#GetLicenseConfigurationResponse": {
 "type": "structure",
 "members": {
 "LicenseConfigurationId": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Unique ID for the license configuration.</p>"
 }
 },
 "LicenseConfigurationArn":
 {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
 }
 },
 "Name": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Name of the license configuration.</p>"
 }
 },
 "Description": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Description of the license configuration.</p>"
 }
 },
 },
 }
}

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"LicenseCountingType": {
 "target": "com.amazonaws.licensemanager#LicenseCountingType",
 "traits": {
 "smithy.api#documentation":
"<p>Dimension for which the licenses are counted.</p>"
 }
},
"LicenseRules": {
 "target": "com.amazonaws.licensemanager#StringList",
 "traits": {
 "smithy.api#documentation": "<p>License rules.</p>"
 }
},
"LicenseCount": {
 "target": "com.amazonaws.licensemanager#BoxLong",
 "traits": {
 "smithy.api#documentation": "<p>Number of available licenses.</p>"
 }
},
"LicenseCountHardLimit": {
 "target": "com.amazonaws.licensemanager#BoxBoolean",
 "traits": {
 "smithy.api#documentation": "<p>Sets the number of available licenses as a hard limit.</p>"
 }
},
"ConsumedLicenses": {
 "target":
"com.amazonaws.licensemanager#BoxLong",
 "traits": {
 "smithy.api#documentation": "<p>Number of licenses assigned to resources.</p>"
 }
},
"Status": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>License configuration status.</p>"
 }
},
"OwnerAccountId": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Account ID of the owner of the license configuration.</p>"
 }
},
"ConsumedLicenseSummaryList": {
 "target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",
 "traits": {
 "smithy.api#documentation": "<p>Summaries

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of the licenses consumed by resources.</p>"

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 }
 },
 "ManagedResourceSummaryList": {
 "target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
 "traits": {
 "smithy.api#documentation": "<p>Summaries of the managed resources.</p>"
 }
 },
 "Tags": {
 "target": "com.amazonaws.licensemanager#TagList",
 "traits": {
 "smithy.api#documentation": "<p>Tags for the license configuration.</p>"
 }
 },
 "ProductInformationList": {
 "target": "com.amazonaws.licensemanager#ProductInformationList",
 "traits": {
 "smithy.api#documentation": "<p>Product information.</p>"
 }
 },
 "AutomatedDiscoveryInformation":
{
 "target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
 "traits": {
 "smithy.api#documentation": "<p>Automated discovery information.</p>"
 }
 },
 "DisassociateWhenNotFound": {
 "target": "com.amazonaws.licensemanager#BoxBoolean",
 "traits": {
 "smithy.api#documentation": "<p>When true, disassociates a resource when software is
uninstalled.</p>"
 }
 }
},
"traits": {
 "smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTask": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#GetLicenseConversionTaskRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#GetLicenseConversionTaskResponse"
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 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Gets information about the specified license type conversion task.</p>"
 }
 },
 "com.amazonaws.licensemanager#GetLicenseConversionTaskRequest": {
 "type": "structure",
 "members": {
 "LicenseConversionTaskId": {
 "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
 "traits": {
 "smithy.api#documentation": "<p>ID of the license type conversion task to retrieve information on.</p>",
 "smithy.api#required": {}
 }
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
 },
 "com.amazonaws.licensemanager#GetLicenseConversionTaskResponse": {
 "type": "structure",
 "members": {
 "LicenseConversionTaskId": {
 "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
 "traits": {
 "smithy.api#documentation": "<p>ID of the license type conversion task.</p>"
 }
 }
 },
 "ResourceArn": {

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 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Names (ARN) of the resources the license
conversion task is associated with.</p>"
 }
 },
 "SourceLicenseContext": {
 "target": "com.amazonaws.licensemanager#LicenseConversionContext",
 "traits": {
 "smithy.api#documentation": "<p>Information about the license type converted from.</p>"
 }
 },
 "DestinationLicenseContext": {
 "target": "com.amazonaws.licensemanager#LicenseConversionContext",
 "traits": {
 "smithy.api#documentation": "<p>Information about the license type converted to.</p>"
 }
 },
 "StatusMessage": {
 "target": "com.amazonaws.licensemanager#String",

"traits": {
 "smithy.api#documentation": "<p>The status message for the conversion task.</p>"
}
},
 "Status": {
 "target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
 "traits": {
 "smithy.api#documentation": "<p>Status of the license type conversion task.</p>"
 }
 },
 "StartTime": {
 "target": "com.amazonaws.licensemanager#DateTime",
 "traits": {
 "smithy.api#documentation": "<p>Time at which the license type conversion task was started .</p>"
 }
 },
 "LicenseConversionTime": {
 "target": "com.amazonaws.licensemanager#DateTime",
 "traits": {
 "smithy.api#documentation": "<p>Amount of time to complete the license type
conversion.</p>"
 }
 },
 "EndTime": {
 "target": "com.amazonaws.licensemanager#DateTime",
 "traits": {
 "smithy.api#documentation": "<p>Time at which the license type conversion task was

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completed.</p>"
 }
 }
},
"traits": {
 "smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#GetLicenseManagerReportGenerator": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Gets information about the specified report generator.</p>"
 }
},

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"com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest": {
 "type": "structure",
 "members": {
 "LicenseManagerReportGeneratorArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator.</p>",
 "smithy.api#required": {}
 }
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
},
"com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse": {
 "type": "structure",
 "members": {
 "ReportGenerator": {
 "target": "com.amazonaws.licensemanager#ReportGenerator",
 "traits": {
 "smithy.api#documentation": "<p>A report generator that creates
periodic reports about your license configurations.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#GetLicenseRequest": {
 "type": "structure",
 "members": {
 "LicenseArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
 "smithy.api#required": {}
 }
 },
 "Version": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>License version.</p>"
 }
 }
 },
 "traits": {

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 "smithy.api#input": {}
 }
},

"com.amazonaws.licensemanager#GetLicenseResponse": {
 "type": "structure",
 "members": {
 "License": {
 "target": "com.amazonaws.licensemanager#License",
 "traits": {
 "smithy.api#documentation": "<p>License details.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
},

"com.amazonaws.licensemanager#GetLicenseUsage": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#GetLicenseUsageRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#GetLicenseUsageResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Gets detailed information about the usage of the specified license.</p>"
 }
}

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 }
 },
 "com.amazonaws.licensemanager#GetLicenseUsageRequest": {
 "type": "structure",
 "members": {
 "LicenseArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
 "smithy.api#required": {}
 }
 }
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
},
"com.amazonaws.licensemanager#GetLicenseUsageResponse": {
 "type": "structure",
 "members": {
 "LicenseUsage": {
 "target": "com.amazonaws.licensemanager#LicenseUsage",
 "traits": {
 "smithy.api#documentation": "<p>License usage details.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#GetServiceSettings": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#GetServiceSettingsRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#GetServiceSettingsResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 }
]
}

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 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 }
],
"traits": {
 "smithy.api#documentation": "<p>Gets the License Manager settings for the current Region.</p>"
}
},
"com.amazonaws.licensemanager#GetServiceSettingsRequest": {
 "type": "structure",
 "members": {},
 "traits": {
 "smithy.api#input": {}
 }
},
"com.amazonaws.licensemanager#GetServiceSettingsResponse": {
 "type": "structure",
 "members": {
 "S3BucketArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Regional S3 bucket path for storing reports, license trail event data,
discovery data,\n and so on.</p>"
 }
 },
 "SnsTopicArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>SNS topic configured to receive notifications from License
Manager.</p>"
 }
 },
 "OrganizationConfiguration": {
 "target": "com.amazonaws.licensemanager#OrganizationConfiguration",
 "traits": {
 "smithy.api#documentation":
 "<p>Indicates whether Organizations is integrated with License Manager for\n cross-account discovery.</p>"
 }
 },
 "EnableCrossAccountsDiscovery": {
 "target": "com.amazonaws.licensemanager#BoxBoolean",
 "traits": {
 "smithy.api#documentation": "<p>Indicates whether cross-account discovery is enabled.</p>"
 }
 },
 "LicenseManagerResourceShareArn": {

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 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource share. The License
Manager management account \n provides member accounts with access to this share.</p>"
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
},

"com.amazonaws.licensemanager#Grant": {
 "type": "structure",
 "members": {
 "GrantArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
 "smithy.api#required": {}
 }
 },
 "GrantName": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Grant name.</p>",
 "smithy.api#required": {}
 }
 },
 "ParentArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>Parent ARN.</p>",
 "smithy.api#required": {}
 }
 }
 },
 "LicenseArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>License ARN.</p>",
 "smithy.api#required": {}
 }
 },
 "GranteePrincipalArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>The grantee principal ARN.</p>",

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 "smithy.api#required": {}
 }
},
"HomeRegion": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Home Region of the grant.</p>",
 "smithy.api#required": {}
 }
},
"GrantStatus": {
 "target":
"com.amazonaws.licensemanager#GrantStatus",
 "traits": {
 "smithy.api#documentation": "<p>Grant status.</p>",
 "smithy.api#required": {}
 }
},
"StatusReason": {
 "target": "com.amazonaws.licensemanager#StatusReasonMessage",
 "traits": {
 "smithy.api#documentation": "<p>Grant status reason.</p>"
 }
},
"Version": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Grant version.</p>",
 "smithy.api#required": {}
 }
},
"GrantedOperations": {
 "target": "com.amazonaws.licensemanager#AllowedOperationList",
 "traits": {
 "smithy.api#documentation":
"<p>Granted operations.</p>",
 "smithy.api#required": {}
 }
},
"Options": {
 "target": "com.amazonaws.licensemanager#Options",
 "traits": {
 "smithy.api#documentation": "<p>The options specified for the grant.</p>"
 }
},
"traits": {
 "smithy.api#documentation": "<p>Describes a grant.</p>"
}

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 }
 },
 "com.amazonaws.licensemanager#GrantList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#Grant"
 }
 },
 "com.amazonaws.licensemanager#GrantStatus": {
 "type": "enum",
 "members": {
 "PENDING_WORKFLOW": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue":
"PENDING_WORKFLOW"
 }
 },
 "PENDING_ACCEPT": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "PENDING_ACCEPT"
 }
 },
 "REJECTED": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "REJECTED"
 }
 },
 "ACTIVE": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "ACTIVE"
 }
 },
 "FAILED_WORKFLOW": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "FAILED_WORKFLOW"
 }
 },
 "DELETED": {
 "target":
"smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "DELETED"
 }
 }
 }
 }
}

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```

 },
 "PENDING_DELETE": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "PENDING_DELETE"
 }
 },
 "DISABLED": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "DISABLED"
 }
 },
 "WORKFLOW_COMPLETED": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "WORKFLOW_COMPLETED"
 }
 }
 }
},
"com.amazonaws.licensemanager#GrantedLicense": {
 "type": "structure",
 "members": {
 "LicenseArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
 }
 },
 "LicenseName": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>License name.</p>"
 }
 },
 "ProductName": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Product name.</p>"
 }
 },
 "ProductSKU": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Product SKU.</p>"
 }
 }
 }
}

```

```

 },
 "Issuer":
 {
 "target": "com.amazonaws.licensemanager#IssuerDetails",
 "traits": {
 "smithy.api#documentation": "<p>Granted license issuer.</p>"
 }
 },
 "HomeRegion": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Home Region of the granted license.</p>"
 }
 },
 "Status": {
 "target": "com.amazonaws.licensemanager#LicenseStatus",
 "traits": {
 "smithy.api#documentation": "<p>Granted license status.</p>"
 }
 },
 "Validity": {
 "target": "com.amazonaws.licensemanager#DatetimeRange",
 "traits": {
 "smithy.api#documentation": "<p>Date and time range during which the
granted license is valid, in ISO8601-UTC format.</p>"
 }
 },
 "Beneficiary": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Granted license beneficiary.</p>"
 }
 },
 "Entitlements": {
 "target": "com.amazonaws.licensemanager#EntitlementList",
 "traits": {
 "smithy.api#documentation": "<p>License entitlements.</p>"
 }
 },
 "ConsumptionConfiguration": {
 "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
 "traits": {
 "smithy.api#documentation": "<p>Configuration for consumption of the license.</p>"
 }
 },
 "LicenseMetadata": {

```



```

"target": "com.amazonaws.licensemanager#MetadataList",
 "traits": {
 "smithy.api#documentation": "<p>Granted license metadata.</p>"
 }
},
"CreateTime": {
 "target": "com.amazonaws.licensemanager#ISO8601DateTime",
 "traits": {
 "smithy.api#documentation": "<p>Creation time of the granted license.</p>"
 }
},
"Version": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Version of the granted license.</p>"
 }
},
"ReceivedMetadata": {
 "target": "com.amazonaws.licensemanager#ReceivedMetadata",
 "traits": {
 "smithy.api#documentation": "<p>Granted license received metadata.</p>"
 }
},
"traits": {
 "smithy.api#documentation": "<p>Describes a license that is granted to a grantee.</p>"
},
"com.amazonaws.licensemanager#GrantedLicenseList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#GrantedLicense"
 }
},
"com.amazonaws.licensemanager#ISO8601DateTime": {
 "type": "string",
 "traits": {
 "smithy.api#length": {
 "min": 0,
 "max": 50
 },
 "smithy.api#pattern": "^(-(?:[1-9][0-9]*)?[0-9]{4})-(1[0-2]|0[1-9])-(3[0-1]|0[1-9]|[1-2][0-9])T(2[0-3]|[0-1][0-9]):([0-5][0-9]):([0-5][0-9])(\\.([0-9]+)?(?:Z|[-+](?:2[0-3]|[0-1][0-9]):[0-5][0-9])+$)"
 }
},
"com.amazonaws.licensemanager#Integer": {
 "type": "integer"
},

```

```

"com.amazonaws.licensemanager#InvalidParameterValueException":
{
 "type": "structure",
 "members": {
 "Message": {
 "target": "com.amazonaws.licensemanager#Message"
 }
 },
 "traits": {
 "aws.protocols#awsQueryError": {
 "code": "InvalidParameterValueProvided",
 "httpResponseCode": 400
 },
 "smithy.api#documentation": "<p>One or more parameter values are not valid.</p>",
 "smithy.api#error": "client",
 "smithy.api#httpError": 400
 }
},
"com.amazonaws.licensemanager#InvalidResourceStateException": {
 "type": "structure",
 "members": {
 "Message": {
 "target": "com.amazonaws.licensemanager#Message"
 }
 },
 "traits": {
 "aws.protocols#awsQueryError": {

 "code": "InvalidResourceState",
 "httpResponseCode": 400
 },
 "smithy.api#documentation": "<p>License Manager cannot allocate a license to a resource because of its
state. </p>\n <p>For example, you cannot allocate a license to an instance in the process of shutting\n
down.</p>",
 "smithy.api#error": "client",
 "smithy.api#httpError": 400
 }
},
"com.amazonaws.licensemanager#InventoryFilter": {
 "type": "structure",
 "members": {
 "Name": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Name of the filter.</p>",
 "smithy.api#required": {}
 }
 }
 },
},

```

```

"Condition": {
 "target": "com.amazonaws.licensemanager#InventoryFilterCondition",
 "traits": {
 "smithy.api#documentation": "<p>Condition of the filter.</p>",
 "smithy.api#required": {}
 }
},
"Value": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Value of the filter.</p>"
 }
},
"traits": {
 "smithy.api#documentation": "<p>An inventory filter.</p>"
}
},
"com.amazonaws.licensemanager#InventoryFilterCondition": {
 "type": "enum",
 "members": {
 "EQUALS": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "EQUALS"
 }
 },
 "NOT_EQUALS": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "NOT_EQUALS"
 }
 },
 "BEGINS_WITH": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "BEGINS_WITH"
 }
 },
 "CONTAINS": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "CONTAINS"
 }
 }
 }
},
"com.amazonaws.licensemanager#InventoryFilterList": {

```

```

 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#InventoryFilter"
 }
 },
 "com.amazonaws.licensemanager#Issuer": {
 "type": "structure",
 "members": {
 "Name": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Issuer name.</p>",
 "smithy.api#required": {}
 }
 },
 "SignKey": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Asymmetric KMS key from Key Management Service. The KMS
key must have a key usage of sign and verify, \n and support the RSASSA-PSS SHA-256 signing
algorithm.</p>"
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>Details about the issuer of a license.</p>"
 }
 }
 },
 "com.amazonaws.licensemanager#IssuerDetails": {
 "type": "structure",
 "members": {
 "Name": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Issuer name.</p>"
 }
 },
 "SignKey": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Asymmetric KMS key from Key Management Service. The KMS
key must have a key usage of sign and verify, \n and support the RSASSA-PSS SHA-256 signing
algorithm.</p>"
 }
 },
 "KeyFingerprint": {
 "target": "com.amazonaws.licensemanager#String",

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```

 "traits": {
 "smithy.api#documentation": "<p>Issuer key fingerprint.</p>"
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>Details associated with the issuer of a license.</p>"
 }
},
"com.amazonaws.licensemanager#License": {

"type": "structure",
"members": {
 "LicenseArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
 }
 },
 "LicenseName": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>License name.</p>"
 }
 },
 "ProductName": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Product name.</p>"
 }
 },
 "ProductSKU": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation":
"<p>Product SKU.</p>"
 }
 },
 "Issuer": {
 "target": "com.amazonaws.licensemanager#IssuerDetails",
 "traits": {
 "smithy.api#documentation": "<p>License issuer.</p>"
 }
 },
 "HomeRegion": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Home Region of the license.</p>"
 }
 }
}

```

```

 }
 },
 "Status": {
 "target": "com.amazonaws.licensemanager#LicenseStatus",
 "traits": {
 "smithy.api#documentation": "<p>License status.</p>"
 }
 },
 "Validity": {
 "target": "com.amazonaws.licensemanager#DatetimeRange",
 "traits": {
 "smithy.api#documentation": "<p>Date and time range during which the license is valid, in ISO8601-UTC
format.</p>"
 }
 },
 "Beneficiary": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>License beneficiary.</p>"
 }
 },
 "Entitlements": {
 "target": "com.amazonaws.licensemanager#EntitlementList",
 "traits": {
 "smithy.api#documentation": "<p>License entitlements.</p>"
 }
 },
 "ConsumptionConfiguration": {
 "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
 "traits": {
 "smithy.api#documentation": "<p>Configuration for consumption of the license.</p>"
 }
 },
},
"LicenseMetadata": {
 "target": "com.amazonaws.licensemanager#MetadataList",
 "traits": {
 "smithy.api#documentation": "<p>License metadata.</p>"
 }
},
"CreateTime": {
 "target": "com.amazonaws.licensemanager#ISO8601DateTime",
 "traits": {
 "smithy.api#documentation": "<p>License creation time.</p>"
 }
},
"Version": {

```

```

 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>License version.</p>"
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>Software license that is managed in License Manager.</p>"
 }
},
"com.amazonaws.licensemanager#LicenseConfiguration":
{
 "type": "structure",
 "members": {
 "LicenseConfigurationId": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Unique ID of the license configuration.</p>"
 }
 },
 "LicenseConfigurationArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
 }
 },
 "Name": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Name of the license configuration.</p>"
 }
 },
 "Description": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Description of the license configuration.</p>"
 }
 },
 "LicenseCountingType": {
 "target": "com.amazonaws.licensemanager#LicenseCountingType",
 "traits": {
 "smithy.api#documentation": "<p>Dimension to use to track the license inventory.</p>"
 }
 },
 "LicenseRules": {
 "target": "com.amazonaws.licensemanager#StringList",
 "traits": {
 "smithy.api#documentation": "<p>License rules.</p>"
 }
 }
 }
}

```

```

 }
 },
 "LicenseCount": {
 "target": "com.amazonaws.licensemanager#BoxLong",
 "traits": {
 "smithy.api#documentation": "<p>Number of licenses managed by the license
configuration.</p>"
 }
 },
 "LicenseCountHardLimit": {
 "target": "com.amazonaws.licensemanager#BoxBoolean",
 "traits": {
 "smithy.api#documentation": "<p>Number of available licenses as a hard limit.</p>"
 }
 },
 "DisassociateWhenNotFound": {
 "target": "com.amazonaws.licensemanager#BoxBoolean",
 "traits": {
 "smithy.api#documentation": "<p>When true, disassociates a resource when software is
uninstalled.</p>"
 }
 },
 "ConsumedLicenses": {
 "target": "com.amazonaws.licensemanager#BoxLong",
 "traits": {
 "smithy.api#documentation": "<p>Number of licenses consumed. </p>"
 }
 },
 "Status": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Status of the license configuration.</p>"
 }
 },
 "OwnerAccountId": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Account ID of the license configuration's owner.</p>"
 }
 },
 "ConsumedLicenseSummaryList": {
 "target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",
 "traits": {
 "smithy.api#documentation": "<p>Summaries for licenses consumed by various resources.</p>"
 }
 },
 "ManagedResourceSummaryList": {

```



```

 "target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
 "traits":
{
 "smithy.api#documentation": "<p>Summaries for managed resources.</p>"
 }
},
"ProductInformationList": {
 "target": "com.amazonaws.licensemanager#ProductInformationList",
 "traits": {
 "smithy.api#documentation": "<p>Product information.</p>"
 }
},
"AutomatedDiscoveryInformation": {
 "target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
 "traits": {
 "smithy.api#documentation": "<p>Automated discovery information.</p>"
 }
},
"traits": {
 "smithy.api#documentation": "<p>A license configuration is an abstraction of a customer license
agreement that can be\n consumed and enforced by License Manager. Components include specifications for
the license\n
 type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n Dedicated
Instance, Dedicated Host, or all of these), host affinity (how long a VM\n must be associated with a host), and
the number of licenses purchased and used.</p>"
 }
},
"com.amazonaws.licensemanager#LicenseConfigurationAssociation": {
 "type": "structure",
 "members": {
 "ResourceArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
 }
 },
 "ResourceType": {
 "target": "com.amazonaws.licensemanager#ResourceType",
 "traits": {
 "smithy.api#documentation": "<p>Type of server resource.</p>"
 }
 }
 }
},
"ResourceOwnerId": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>ID of the Amazon Web Services account that owns the resource

```

```

consuming licenses.</p>"
 }
 },
 "AssociationTime": {
 "target": "com.amazonaws.licensemanager#DateTime",
 "traits": {
 "smithy.api#documentation": "<p>Time when the license configuration was associated with the
resource.</p>"
 }
 },
 "AmiAssociationScope": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Scope of AMI associations. The possible value is <code>cross-
account</code>.</p>"
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>Describes an association with a license configuration.</p>"
 }
},
"com.amazonaws.licensemanager#LicenseConfigurationAssociations": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#LicenseConfigurationAssociation"
 }
},
"com.amazonaws.licensemanager#LicenseConfigurationStatus": {
 "type": "enum",
 "members": {
 "AVAILABLE": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "AVAILABLE"
 }
 },
 "DISABLED": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "DISABLED"
 }
 }
 }
},
"com.amazonaws.licensemanager#LicenseConfigurationUsage": {

```

```

"type": "structure",
"members": {
 "ResourceArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
 }
 },
 "ResourceType": {
 "target": "com.amazonaws.licensemanager#ResourceType",
 "traits": {
 "smithy.api#documentation": "<p>Type of resource.</p>"
 }
 },
 "ResourceStatus": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Status of the resource.</p>"
 }
 },
 "ResourceOwnerId": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>ID of the account that owns the resource.</p>"
 }
 },
 "AssociationTime": {
 "target": "com.amazonaws.licensemanager#DateTime",
 "traits": {
 "smithy.api#documentation": "<p>Time when the license configuration was initially associated with
the resource.</p>"
 }
 },
 "ConsumedLicenses": {
 "target": "com.amazonaws.licensemanager#BoxLong",
 "traits": {
 "smithy.api#documentation": "<p>Number of licenses consumed by the resource.</p>"
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>Details about the usage of a resource associated with a license
configuration.</p>"
 }
},
"com.amazonaws.licensemanager#LicenseConfigurationUsageList":

```

```

{
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#LicenseConfigurationUsage"
 }
},
"com.amazonaws.licensemanager#LicenseConfigurations": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#LicenseConfiguration"
 }
},
"com.amazonaws.licensemanager#LicenseConversionContext": {
 "type": "structure",
 "members": {
 "UsageOperation": {
 "target": "com.amazonaws.licensemanager#UsageOperation",
 "traits": {
 "smithy.api#documentation": "<p>The Usage operation value that corresponds to the license type you
are converting your resource from. For more information about which platforms correspond to which usage
operation values see <a href=\"https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/billing-info-
fields.html#billing-info\">Sample
data: usage operation by platform\n \n </p>"
 }
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>Information about a license type conversion task.</p>"
 }
},
"com.amazonaws.licensemanager#LicenseConversionTask": {
 "type": "structure",
 "members": {
 "LicenseConversionTaskId": {
 "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
 "traits": {
 "smithy.api#documentation": "<p>The ID of the license type conversion task.</p>"
 }
 },
 "ResourceArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the resource associated
with the license type\n
conversion task.</p>"
 }
 }
 },
 "SourceLicenseContext": {

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```

 "target": "com.amazonaws.licensemanager#LicenseConversionContext",
 "traits": {
 "smithy.api#documentation": "<p>Information about the license type this conversion task converted
from.</p>"
 }
 },
 "DestinationLicenseContext": {
 "target": "com.amazonaws.licensemanager#LicenseConversionContext",
 "traits": {
 "smithy.api#documentation": "<p>Information about the license type this conversion task converted
to.</p>"
 }
 },
 "Status": {
 "target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
 "traits": {
 "smithy.api#documentation": "<p>The status of the conversion task.</p>"
 }
 },
 "StatusMessage": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>The status message for the conversion task.</p>"
 }
 },
 "StartTime": {
 "target": "com.amazonaws.licensemanager#DateTime",
 "traits": {
 "smithy.api#documentation": "<p>The time the conversion task was started at.</p>"
 }
 },
 "LicenseConversionTime": {
 "target": "com.amazonaws.licensemanager#DateTime",
 "traits": {
 "smithy.api#documentation": "<p>The time the usage operation value of the resource was
changed.</p>"
 }
 },
 "EndTime": {
 "target": "com.amazonaws.licensemanager#DateTime",
 "traits": {
 "smithy.api#documentation": "<p>The time the conversion task was completed.</p>"
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>Information about a license type conversion task.</p>"
 }

```

```

 }
 },
 "com.amazonaws.licensemanager#LicenseConversionTaskId": {
 "type": "string",
 "traits": {
 "smithy.api#length": {
 "min": 0,
 "max": 50
 },
 "smithy.api#pattern": "^\\lct-[a-zA-Z0-9]*$"
 }
 },
 "com.amazonaws.licensemanager#LicenseConversionTaskStatus": {
 "type": "enum",
 "members": {
 "IN_PROGRESS": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "IN_PROGRESS"
 }
 }
 }
 },
 "SUCCEEDED": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "SUCCEEDED"
 }
 },
 "FAILED": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "FAILED"
 }
 }
},
"com.amazonaws.licensemanager#LicenseConversionTasks": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#LicenseConversionTask"
 }
},
"com.amazonaws.licensemanager#LicenseCountingType": {
 "type": "enum",
 "members": {
 "VCPU": {
 "target": "smithy.api#Unit",
 "traits": {

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```

 "smithy.api#enumValue": "vCPU"
 }
},

"INSTANCE": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Instance"
 }
},
"CORE": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Core"
 }
},
"SOCKET": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Socket"
 }
}
},
"com.amazonaws.licensemanager#LicenseDeletionStatus": {
 "type": "enum",
 "members": {
 "PENDING_DELETE": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "PENDING_DELETE"
 }
 },
 "DELETED": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "DELETED"
 }
 }
 }
},
"com.amazonaws.licensemanager#LicenseList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#License"
 }
},

```

```

"com.amazonaws.licensemanager#LicenseOperationFailure": {
 "type": "structure",
 "members": {
 "ResourceArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
 }
 },
 "ResourceType": {
 "target": "com.amazonaws.licensemanager#ResourceType",
 "traits": {
 "smithy.api#documentation":
"<p>Resource type.</p>"
 }
 },
 "ErrorMessage": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Error message.</p>"
 }
 },
 "FailureTime": {
 "target": "com.amazonaws.licensemanager#DateTime",
 "traits": {
 "smithy.api#documentation": "<p>Failure time.</p>"
 }
 },
 "OperationName": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Name of the operation.</p>"
 }
 },
 "ResourceOwnerId": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation":
"<p>ID of the Amazon Web Services account that owns the resource.</p>"
 }
 },
 "OperationRequestedBy": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>The requester is \"License Manager Automated Discovery\".</p>"
 }
 },
 "MetadataList": {

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```

 "target": "com.amazonaws.licensemanager#MetadataList",
 "traits": {
 "smithy.api#documentation": "<p>Reserved.</p>"
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>Describes the failure of a license operation.</p>"
 }
},
"com.amazonaws.licensemanager#LicenseOperationFailureList": {
 "type": "list",
 "member": {
 "target":
"com.amazonaws.licensemanager#LicenseOperationFailure"
 }
},
"com.amazonaws.licensemanager#LicenseSpecification": {
 "type": "structure",
 "members": {
 "LicenseConfigurationArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
 "smithy.api#required": {}
 }
 },
 "AmiAssociationScope": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Scope of AMI associations. The possible value is <code>cross-
account</code>.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>Details for associating a license configuration
with a resource.</p>"
 }
},
"com.amazonaws.licensemanager#LicenseSpecifications": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#LicenseSpecification"
 }
},
"com.amazonaws.licensemanager#LicenseStatus": {

```

```

"type": "enum",
"members": {
 "AVAILABLE": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "AVAILABLE"
 }
 },
 "PENDING_AVAILABLE": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "PENDING_AVAILABLE"
 }
 },
 "DEACTIVATED": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "DEACTIVATED"
 }
 },
 "SUSPENDED": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "SUSPENDED"
 }
 },
 "EXPIRED": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "EXPIRED"
 }
 },
 "PENDING_DELETE": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "PENDING_DELETE"
 }
 },
 "DELETED": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "DELETED"
 }
 }
}
},
"com.amazonaws.licensemanager#LicenseUsage": {
 "type":

```

```

"structure",
 "members": {
 "EntitlementUsages": {
 "target": "com.amazonaws.licensemanager#EntitlementUsageList",
 "traits": {
 "smithy.api#documentation": "<p>License entitlement usages.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>Describes the entitlement usage associated with a license.</p>"
 }
},
"com.amazonaws.licensemanager#LicenseUsageException": {
 "type": "structure",
 "members": {
 "Message": {
 "target": "com.amazonaws.licensemanager#Message"
 }
 },
 "traits": {
 "aws.protocols#awsQueryError": {
 "code": "LicenseUsageFailure",
 "httpResponseCode": 412
 },
 "smithy.api#documentation": "<p>You do not have
enough licenses available to support a new resource launch.</p>",
 "smithy.api#error": "client",
 "smithy.api#httpError": 412
 }
},
"com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
 }
]
}

```

```

 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Lists the resource associations for the specified license configuration.</p>\n <p>Resource associations need not consume licenses from a license configuration. \n For example, an AMI or a stopped instance might not consume a license (depending on \n the license rules).</p>"
 }
},
"com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest": {
 "type": "structure",
 "members": {
 "LicenseConfigurationArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of a license configuration.</p>",
 "smithy.api#required": {}
 }
 },
 "MaxResults": {
 "target": "com.amazonaws.licensemanager#BoxInteger",
 "traits": {
 "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
},
"com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse":

```

```

{
 "type": "structure",
 "members": {
 "LicenseConfigurationAssociations": {
 "target": "com.amazonaws.licensemanager#LicenseConfigurationAssociations",
 "traits": {
 "smithy.api#documentation": "<p>Information about the associations for the license
configuration.</p>"
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#ListDistributedGrants": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#ListDistributedGrantsRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#ListDistributedGrantsResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 }
],

```

```

 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Lists the grants distributed for the specified license.</p>"
 }
},
"com.amazonaws.licensemanager#ListDistributedGrantsRequest": {
 "type": "structure",
 "members": {
 "GrantArns": {
 "target": "com.amazonaws.licensemanager#ArnList",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the grants.</p>"
 }
 },
 "Filters": {
 "target": "com.amazonaws.licensemanager#FilterList",
 "traits": {
 "smithy.api#documentation": "<p>Filters to scope the results. The following filters are supported:</p>\n
 \n
 \n
 <p>\n
 <code>LicenseArn</code>\n
 </p>\n
 \n
 \n
 <p>\n
 <code>GrantStatus</code>\n
 </p>\n
 \n
 \n
 <p>\n
 <code>GranteePrincipalARN</code>\n
 </p>\n
 \n
 \n
 <p>\n
 <code>ProductSKU</code>\n
 </p>\n
 \n
 \n
 <p>\n
 <code>LicenseIssuerName</code>\n
 </p>\n
 \n
 "
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 },
 "MaxResults": {
 "target": "com.amazonaws.licensemanager#MaxSize100",
 "traits": {
 "smithy.api#documentation":
 "<p>Maximum number of results to return in a single call.</p>"
 }
 }
 }
},
"traits": {
 "smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListDistributedGrantsResponse": {

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```

"type": "structure",
"members": {
 "Grants": {
 "target": "com.amazonaws.licensemanager#GrantList",
 "traits": {
 "smithy.api#documentation": "<p>Distributed grant details.</p>"
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 }
},
"traits": {
 "smithy.api#output": {}
}
},

"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Lists the license configuration operations that failed.</p>"
 }
}

```

```

 },
 "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest": {
 "type": "structure",
 "members": {
 "LicenseConfigurationArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name of the license configuration.</p>",
 "smithy.api#required": {}
 }
 },
 "MaxResults": {
 "target": "com.amazonaws.licensemanager#BoxInteger",
 "traits": {
 "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
 }
 }
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
},
"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse": {
 "type": "structure",
 "members": {
 "LicenseOperationFailureList": {
 "target": "com.amazonaws.licensemanager#LicenseOperationFailureList",
 "traits": {
 "smithy.api#documentation": "<p>License configuration operations that failed.</p>"
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
}

```



```

 }
 },
 "com.amazonaws.licensemanager#ListLicenseConfigurations": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#ListLicenseConfigurationsResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Lists the license configurations for your account.</p>"
 }
 },
 "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest": {
 "type": "structure",
 "members": {
 "LicenseConfigurationArns": {
 "target": "com.amazonaws.licensemanager#StringList",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Names (ARN) of the license configurations.</p>"
 }
 },
 "MaxResults": {
 "target": "com.amazonaws.licensemanager#BoxInteger",

```

```

 "traits": {
 "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 },
 "Filters": {
 "target": "com.amazonaws.licensemanager#Filters",
 "traits": {
 "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical operators\n are supported:</p>\n \n \n <p>\n <code>licenseCountingType</code> - The dimension for which licenses are counted.\n Possible values are <code>vCPU</code> | <code>Instance</code> | <code>Core</code> | <code>Socket</code>.\n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n \n \n <p>\n <code>enforceLicenseCount</code> - A Boolean value that indicates whether hard license enforcement is used. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n \n \n <p>\n <code>usagelimitExceeded</code> - A Boolean value that indicates whether the available licenses have been exceeded. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n \n "
 }
 }
},
"traits": {
 "smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListLicenseConfigurationsResponse": {
 "type": "structure",
 "members": {
 "LicenseConfigurations": {
 "target": "com.amazonaws.licensemanager#LicenseConfigurations",
 "traits": {
 "smithy.api#documentation": "<p>Information about the license configurations.</p>"
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 }
 }
},
"traits": {

```

```

 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#ListLicenseConversionTasks": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#ListLicenseConversionTasksRequest"
 },
 "output": {

"target": "com.amazonaws.licensemanager#ListLicenseConversionTasksResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Lists the license type conversion tasks for your account.</p>"
 }
},
"com.amazonaws.licensemanager#ListLicenseConversionTasksRequest": {

"type": "structure",
 "members": {
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 },
 "MaxResults": {
 "target": "com.amazonaws.licensemanager#BoxInteger",
 "traits": {
 "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
 }
 }
 }
}

```

```

 },
 "Filters": {
 "target": "com.amazonaws.licensemanager#Filters",
 "traits": {
 "smithy.api#documentation": "<p>\n Filters to scope the results. Valid filters are
<code>ResourceArns</code> and <code>Status</code>.\n </p>"
 }
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
},
"com.amazonaws.licensemanager#ListLicenseConversionTasksResponse": {
 "type": "structure",
 "members": {
 "LicenseConversionTasks": {
 "target": "com.amazonaws.licensemanager#LicenseConversionTasks",
 "traits": {
 "smithy.api#documentation": "<p>Information about the license configuration tasks for your
account.</p>"
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#ListLicenseManagerReportGenerators": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 }
]
}

```

```

 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Lists the report generators for your account.</p>"
 }
},
"com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest": {
 "type": "structure",
 "members": {
 "Filters": {
 "target": "com.amazonaws.licensemanager#FilterList",
 "traits": {
 "smithy.api#documentation": "<p>Filters to scope the results. The following filters are supported:
</p>\n \n \n <p>\n <code>LicenseConfigurationArn</code>\n </p>\n \n "
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 },
 "MaxResults": {
 "target": "com.amazonaws.licensemanager#MaxSize100",
 "traits": {
 "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
 }
 }
 }
}

```

```

 },
 "traits": {
 "smithy.api#input": {}
 }
 },
 "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse": {
 "type": "structure",
 "members": {
 "ReportGenerators": {
 "target": "com.amazonaws.licensemanager#ReportGeneratorList",
 "traits": {
 "smithy.api#documentation": "<p>A report generator that creates periodic reports about your license configurations.</p>"
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
 },
 "com.amazonaws.licensemanager#ListLicenseSpecificationsForResource": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse"
 },
 "errors":
 [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 }
]

```

```

 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Describes the license configurations for the specified resource.</p>"
 }
},
"com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest": {
 "type": "structure",
 "members": {
 "ResourceArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of a resource that has an
associated license configuration.</p>",
 "smithy.api#required": {}
 }
 },
 "MaxResults": {
 "target": "com.amazonaws.licensemanager#BoxInteger",
 "traits": {
 "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
},
"com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse":
{
 "type": "structure",
 "members": {
 "LicenseSpecifications": {
 "target": "com.amazonaws.licensemanager#LicenseSpecifications",
 "traits": {
 "smithy.api#documentation": "<p>License configurations associated with a resource.</p>"
 }
 },
 "NextToken": {

```

```

 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#ListLicenseVersions": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#ListLicenseVersionsRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#ListLicenseVersionsResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Lists all versions of the specified license.</p>"
 }
},
"com.amazonaws.licensemanager#ListLicenseVersionsRequest":
{
 "type": "structure",
 "members": {
 "LicenseArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
 "smithy.api#required": {}
 }
 }
 }
}

```



```

 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 },
 "MaxResults": {
 "target": "com.amazonaws.licensemanager#MaxSize100",
 "traits": {
 "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
 }
 }
},
"traits":
{
 "smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListLicenseVersionsResponse": {
 "type": "structure",
 "members": {
 "Licenses": {
 "target": "com.amazonaws.licensemanager#LicenseList",
 "traits": {
 "smithy.api#documentation": "<p>License details.</p>"
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#ListLicenses": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#ListLicensesRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#ListLicensesResponse"
 },
}

```

```

"errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
"traits": {
 "smithy.api#documentation": "<p>Lists
the licenses for your account.</p>"
}
},
"com.amazonaws.licensemanager#ListLicensesRequest": {
 "type": "structure",
 "members": {
 "LicenseArns": {
 "target": "com.amazonaws.licensemanager#ArnList",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the licenses.</p>"
 }
 },
 "Filters": {
 "target": "com.amazonaws.licensemanager#FilterList",
 "traits": {
 "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n \n \n <p>\n <code>Beneficiary</code>\n </p>\n \n \n <p>\n <code>ProductSKU</code>\n </p>\n \n \n <p>\n <code>Fingerprint</code>\n </p>\n \n \n <p>\n <code>Status</code>\n </p>\n \n "
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {

```

```

 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
},
"MaxResults": {
 "target": "com.amazonaws.licensemanager#MaxSize100",
 "traits": {
 "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
 }
}
},
"traits": {
 "smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListLicensesResponse":
{
 "type": "structure",
 "members": {
 "Licenses": {
 "target": "com.amazonaws.licensemanager#LicenseList",
 "traits": {
 "smithy.api#documentation": "<p>License details.</p>"
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#ListReceivedGrants": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#ListReceivedGrantsRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#ListReceivedGrantsResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {

```

```

 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
"traits": {
 "smithy.api#documentation":
 "<p>Lists grants that are received. Received grants are grants created while specifying the\n recipient as this\n Amazon Web Services account, your organization, or an organizational unit\n (OU) to which this member\n account belongs.</p>"
}
},
"com.amazonaws.licensemanager#ListReceivedGrantsForOrganization": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
 }
]
}

```

```

 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Lists the grants received for all accounts in the organization.</p>"
 }
},
"com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationRequest": {
 "type": "structure",
 "members": {
 "LicenseArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the received
license.</p>",
 "smithy.api#required": {}
 }
 },
 "Filters": {
 "target": "com.amazonaws.licensemanager#FilterList",
 "traits": {
 "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n \n \n <p>\n <code>ParentArn</code>\n </p>\n \n \n <p>\n <code>GranteePrincipalArn</code>\n </p>\n \n "
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next
set of results.</p>"
 }
 },
 "MaxResults": {
 "target": "com.amazonaws.licensemanager#MaxSize100",
 "traits": {
 "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
}

```

```

 }
 },
 "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationResponse": {
 "type": "structure",
 "members": {
 "Grants": {
 "target": "com.amazonaws.licensemanager#GrantList",
 "traits": {
 "smithy.api#documentation": "<p>Lists the grants the organization has received.</p>"
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
 },
 },
 "com.amazonaws.licensemanager#ListReceivedGrantsRequest": {
 "type": "structure",
 "members": {
 "GrantArns": {
 "target": "com.amazonaws.licensemanager#ArnList",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the grants.</p>"
 }
 },
 "Filters": {
 "target": "com.amazonaws.licensemanager#FilterList",
 "traits": {
 "smithy.api#documentation": "<p>Filters to scope the results. The following filters are supported:</p>\n
 \n
 \n
 <p>\n
 <code>ProductSKU</code>\n
 </p>\n
 \n
 \n
 <p>\n
 <code>LicenseIssuerName</code>\n
 </p>\n
 \n
 \n
 <p>\n
 <code>LicenseArn</code>\n
 </p>\n
 \n
 \n
 <p>\n
 <code>GrantStatus</code>\n
 </p>\n
 \n
 \n
 <p>\n
 <code>GranterAccountId</code>\n
 </p>\n
 \n
 "
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 }
 }
 }
}

```

```

 },
 "MaxResults": {
 "target": "com.amazonaws.licensemanager#MaxSize100",
 },
 "traits": {
 "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
},
"com.amazonaws.licensemanager#ListReceivedGrantsResponse": {
 "type": "structure",
 "members": {
 "Grants": {
 "target": "com.amazonaws.licensemanager#GrantList",
 "traits": {
 "smithy.api#documentation": "<p>Received grant details.</p>"
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#ListReceivedLicenses": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#ListReceivedLicensesRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#ListReceivedLicensesResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 }
]
}

```

```

 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Lists received licenses.</p>"
 }
},
"com.amazonaws.licensemanager#ListReceivedLicensesForOrganization": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
],

```



```

 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Lists the licenses received for all accounts in the organization.</p>"
 }
},
"com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationRequest": {
 "type": "structure",
 "members": {
 {
 "Filters": {
 "target": "com.amazonaws.licensemanager#FilterList",
 "traits": {
 "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n \n \n <p>\n <code>Beneficiary</code>\n </p>\n \n \n <p>\n <code>ProductSKU</code>\n </p>\n \n "
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 },
 "MaxResults": {
 "target": "com.amazonaws.licensemanager#MaxSize100",
 "traits": {
 "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
 },
 "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationResponse": {
 "type": "structure",
 "members": {
 "Licenses": {
 "target": "com.amazonaws.licensemanager#GrantedLicenseList",
 "traits": {
 "smithy.api#documentation": "<p>Lists the licenses the organization has received.</p>"
 }
 }
 },
 },

```

```

 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 },
 "traits": {

 "smithy.api#output": {}
 },
 "com.amazonaws.licensemanager#ListReceivedLicensesRequest": {
 "type": "structure",
 "members": {
 "LicenseArns": {
 "target": "com.amazonaws.licensemanager#ArnList",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the licenses.</p>"
 }
 },
 "Filters": {
 "target": "com.amazonaws.licensemanager#FilterList",
 "traits": {
 "smithy.api#documentation": "<p>Filters to scope the results. The following filters are supported:</p>\n
 \n
 \n
 <p>\n
 <code>ProductSKU</code>\n
 </p>\n
 \n
 \n
 <p>\n
 <code>Status</code>\n
 </p>\n
 \n
 \n
 <p>\n
 <code>Fingerprint</code>\n
 </p>\n
 \n
 \n
 <p>\n
 <code>IssuerName</code>\n
 </p>\n
 \n
 \n
 <p>\n
 <code>Beneficiary</code>\n
 </p>\n
 \n
 "
 }
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 },
 "MaxResults": {
 "target": "com.amazonaws.licensemanager#MaxSize100",
 "traits": {
 "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
 }
 }
 },
 "traits":

```

```

{
 "smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListReceivedLicensesResponse": {
 "type": "structure",
 "members": {
 "Licenses": {
 "target": "com.amazonaws.licensemanager#GrantedLicenseList",
 "traits": {
 "smithy.api#documentation": "<p>Received license details.</p>"
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#ListResourceInventory": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#ListResourceInventoryRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#ListResourceInventoryResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#FailedDependencyException"
 },
 {
 "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 }
],

```

```

 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target":
"com.amazonaws.licensemanager#ServerInternalException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Lists resources managed using Systems Manager inventory.</p>"
 }
},
"com.amazonaws.licensemanager#ListResourceInventoryRequest": {
 "type": "structure",
 "members": {
 "MaxResults": {
 "target": "com.amazonaws.licensemanager#BoxInteger",
 "traits": {
 "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 }
 },
 "Filters": {
 "target":
"com.amazonaws.licensemanager#InventoryFilterList",
 "traits": {
 "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical
operators\n are supported:</p>\n \n \n <p>\n <code>account_id</code>
- The ID of the Amazon Web Services account that owns the resource.\n Logical operators are
<code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n \n \n <p>\n
<code>application_name</code> - The name of the application. \n Logical operators are
<code>EQUALS</code> | <code>BEGINS_WITH</code>.</p>\n \n \n <p>\n
<code>license_included</code> - The type of license included. \n Logical operators are
<code>EQUALS</code> | <code>NOT_EQUALS</code>.\n Possible values are <code>sql-server-
enterprise</code>
| \n <code>sql-server-standard</code> | \n <code>sql-server-web</code> | \n
<code>windows-server-datacenter</code>.</p>\n \n \n <p>\n
<code>platform</code> - The platform of the resource.\n Logical operators are <code>EQUALS</code> |
<code>BEGINS_WITH</code>.</p>\n \n \n <p>\n
<code>resource_id</code> - The ID of the resource. \n Logical operators are <code>EQUALS</code> |
<code>NOT_EQUALS</code>.</p>\n \n \n <p>\n
<code>tag:<key></code> - The key/value combination of a tag assigned \n to the resource. Logical
operators are <code>EQUALS</code> (single account) or\n <code>EQUALS</code> |

```

<code>NOT\_EQUALS</code> (cross account).</p>\n       </li>\n       </ul>"

```
}
 }
},
"traits": {
 "smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListResourceInventoryResponse": {
 "type": "structure",
 "members": {
 "ResourceInventoryList": {
 "target": "com.amazonaws.licensemanager#ResourceInventoryList",
 "traits": {
 "smithy.api#documentation": "<p>Information about the resources.</p>"
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#ListTagsForResource": {
 "type":
"operation",
 "input": {
 "target": "com.amazonaws.licensemanager#ListTagsForResourceRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#ListTagsForResourceResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
],
}
```

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 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Lists the
tags for the specified license configuration.</p>"
 }
},
"com.amazonaws.licensemanager#ListTagsForResourceRequest": {
 "type": "structure",
 "members": {
 "ResourceArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
 "smithy.api#required": {}
 }
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
},
"com.amazonaws.licensemanager#ListTagsForResourceResponse": {
 "type": "structure",
 "members": {
 "Tags": {
 "target": "com.amazonaws.licensemanager#TagList",
 "traits": {
 "smithy.api#documentation": "<p>Information about the tags.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#ListTokens": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#ListTokensRequest"
 },

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"output": {
 "target": "com.amazonaws.licensemanager#ListTokensResponse"
},
"errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
"traits": {
 "smithy.api#documentation": "<p>Lists your tokens.</p>"
}
},
"com.amazonaws.licensemanager#ListTokensRequest": {
 "type": "structure",
 "members": {
 "TokenIds": {
 "target": "com.amazonaws.licensemanager#StringList",
 "traits": {
 "smithy.api#documentation": "<p>Token IDs.</p>"
 }
 },
 "Filters": {
 "target": "com.amazonaws.licensemanager#FilterList",
 "traits": {
 "smithy.api#documentation": "<p>Filters to scope the results. The following filter is supported:</p>\n
\n \n <p>\n <code>LicenseArns</code>\n </p>\n \n"
 }
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 }
}

```

```

 },
 "MaxResults": {
 "target": "com.amazonaws.licensemanager#MaxSize100",
 "traits": {
 "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
},
"com.amazonaws.licensemanager#ListTokensResponse": {
 "type": "structure",
 "members": {
 "Tokens": {
 "target": "com.amazonaws.licensemanager#TokenList",
 "traits": {
 "smithy.api#documentation":
"<p>Received token details.</p>"
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#ListUsageForLicenseConfiguration": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {

```



```

"target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 }
],
"traits": {
 "smithy.api#documentation": "<p>Lists all license usage records for a license configuration, displaying
license consumption details by resource at a selected point in time. Use this action to audit the
current
license consumption for any license inventory and configuration.</p>"
}
},
"com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest":
{
 "type": "structure",
 "members": {
 "LicenseConfigurationArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
 "smithy.api#required": {}
 }
 },
 "MaxResults": {
 "target": "com.amazonaws.licensemanager#BoxInteger",
 "traits": {
 "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 }
 },
 "Filters": {
 "target": "com.amazonaws.licensemanager#Filters",

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```

 "traits": {
 "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical operators\n are supported:</p>\n \n \n <p>\n <code>resourceArn</code> - The ARN of the license configuration resource.\n Logical operators are\n <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n \n \n <p>\n <code>resourceType</code> - The resource type (<code>EC2_INSTANCE</code> |
 <code>EC2_HOST</code> | <code>EC2_AMI</code> |
 <code>SYSTEMS_MANAGER_MANAGED_INSTANCE</code>).\n Logical operators are\n <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n \n \n <p>\n <code>resourceAccount</code>
 - The ID of the account that owns the resource. \n Logical operators are <code>EQUALS</code> |
 <code>NOT_EQUALS</code>.</p>\n \n "
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
},
"com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse": {
 "type": "structure",
 "members": {
 "LicenseConfigurationUsageList": {
 "target": "com.amazonaws.licensemanager#LicenseConfigurationUsageList",
 "traits": {
 "smithy.api#documentation": "<p>Information about the license configurations.</p>"
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#Location": {
 "type": "string"
},
"com.amazonaws.licensemanager#Long": {
 "type": "long"
},
"com.amazonaws.licensemanager#ManagedResourceSummary": {
 "type": "structure",
 "members": {

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"ResourceType": {
 "target": "com.amazonaws.licensemanager#ResourceType",
 "traits": {
 "smithy.api#documentation": "<p>Type of resource associated with a license.</p>"
 }
},
"AssociationCount": {
 "target": "com.amazonaws.licensemanager#BoxLong",
 "traits": {
 "smithy.api#documentation": "<p>Number of resources associated with licenses.</p>"
 }
}
},
"traits": {
 "smithy.api#documentation": "<p>Summary information about a managed resource.</p>"
}
},
"com.amazonaws.licensemanager#ManagedResourceSummaryList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#ManagedResourceSummary"
 }
},
"com.amazonaws.licensemanager#MaxSize100": {
 "type": "integer",
 "traits": {
 "smithy.api#range": {
 "min": 1,
 "max": 100
 }
 }
},
"com.amazonaws.licensemanager#MaxSize3StringList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#String"
 },
 "traits": {
 "smithy.api#length": {
 "min": 0,
 "max": 3
 }
 }
}
},
"com.amazonaws.licensemanager#Message": {
 "type": "string"
}

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```

},
"com.amazonaws.licensemanager#Metadata": {
 "type": "structure",
 "members": {
 "Name": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>The key name.</p>"
 }
 },
 "Value": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>The value.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>Describes key/value pairs.</p>"
 }
},
"com.amazonaws.licensemanager#MetadataList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#Metadata"
 }
},
"com.amazonaws.licensemanager#NoEntitlementsAllowedException": {
 "type": "structure",
 "members": {
 "Message": {
 "target": "com.amazonaws.licensemanager#Message"
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>There are no entitlements found for this license, or the entitlement
maximum count is reached.</p>",
 "smithy.api#error": "client",
 "smithy.api#httpError": 400
 }
},
"com.amazonaws.licensemanager#Options": {
 "type": "structure",
 "members": {
 "ActivationOverrideBehavior": {
 "target": "com.amazonaws.licensemanager#ActivationOverrideBehavior",
 "traits": {
 "smithy.api#documentation": "<p>An activation option for your grant that determines the behavior of

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activating

```
a grant.\n Activation options can only be used with granted licenses sourced from the Amazon Web Services\n Marketplace. Additionally, the operation must specify the value of <code>ACTIVE</code> for the\n <code>Status</code> parameter.</p>\n \n \n <p>As a license administrator, you can\n optionally specify an\n <code>ActivationOverrideBehavior</code> when activating a grant.</p>\n \n \n <p>As a grantor, you can optionally specify an\n <code>ActivationOverrideBehavior</code> when you activate a grant for a grantee\n account in your\n organization.</p>\n \n \n <p>As a grantee, if the grantor creating the distributed\n grant doesnt specify an\n <code>ActivationOverrideBehavior</code>, you can optionally specify one\n when you\n are activating the grant.</p>\n \n \n <dl>\n <dt>DISTRIBUTED_GRANTS_ONLY</dt>\n <dd>\n <p>Use this value to activate a grant without replacing any member accounts\n active grants for the same\n product.</p>\n </dd>\n <dt>ALL_GRANTS_PERMITTED_BY_ISSUER</dt>\n <dd>\n <p>Use this value to activate a grant and disable other active grants in any\n member accounts for the\n same product. This action will also replace their\n previously activated grants with this activated\n grant.</p>\n </dd>\n </dl>\n }\n },\n "traits": {\n "smithy.api#documentation": "<p>The options you can specify when you create a new version of a grant,\n such as activation\n override behavior. For more information, see <a\n href=\\\"https://docs.aws.amazon.com/license-manager/latest/userguide/granted-licenses.html\\\">Granted\n licenses in License Manager in the <i>License Manager User Guide</i>.</p>"\n }\n },\n "com.amazonaws.licensemanager#OrganizationConfiguration": {\n "type": "structure",\n "members": {\n "EnableIntegration": {\n "target": "com.amazonaws.licensemanager#Boolean",\n "traits": {\n "smithy.api#default": false,\n "smithy.api#documentation": "<p>Enables Organizations integration.</p>",\n "smithy.api#required": {} \n }\n }\n }\n },\n "traits": {\n "smithy.api#documentation": "<p>Configuration information for Organizations.</p>"\n }\n },\n "com.amazonaws.licensemanager#PrincipalArnList": {\n "type": "list",\n "member": {\n "target": "com.amazonaws.licensemanager#Arn"\n },\n "traits":
```

```

{
 "smithy.api#length": {
 "min": 1,
 "max": 1
 }
},
"com.amazonaws.licensemanager#ProductInformation": {
 "type": "structure",
 "members": {
 "ResourceType": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Resource type. The possible values are
<code>SSM_MANAGED</code> | <code>RDS</code>.</p>",
 "smithy.api#required": {}
 }
 },
 "ProductInformationFilterList": {
 "target": "com.amazonaws.licensemanager#ProductInformationFilterList",
 "traits": {
 "smithy.api#documentation": "<p>A Product information filter consists of a
<code>ProductInformationFilterComparator</code> which is a logical operator, a
<code>ProductInformationFilterName</code>
which specifies the type of filter being declared, and a <code>ProductInformationFilterValue</code> that specifies
the value to filter on. </p>\n <p>Accepted values for <code>ProductInformationFilterName</code> are listed
here along with descriptions and valid options for <code>ProductInformationFilterComparator</code>. </p>\n
<p>The following filters and are supported when the resource type \n is
<code>SSM_MANAGED</code>:</p>\n \n \n <p>\n <code>Application
Name</code> - The name of the application.\n Logical operator is <code>EQUALS</code>.</p>\n
\n \n <p>\n <code>Application Publisher</code> - The publisher of the
application.\n Logical operator is <code>EQUALS</code>.</p>\n
\n \n <p>\n <code>Application Version</code> - The
version of the application.\n Logical operator is <code>EQUALS</code>.</p>\n
\n \n <p>\n <code>Platform Name</code> - The name of the platform.\n Logical
operator is <code>EQUALS</code>.</p>\n
\n \n <p>\n <code>Platform
Type</code> - The platform type.\n Logical operator is <code>EQUALS</code>.</p>\n
\n \n <p>\n <code>Tag:key</code> - The key of a tag attached to an Amazon Web Services
resource you wish to exclude from automated discovery. Logical operator is <code>NOT_EQUALS</code>. The
key for your tag must be appended to <code>Tag:</code> following the example: <code>Tag:name-of-your-
key</code>. <code>ProductInformationFilterValue</code> is optional if you are not using values for the key.\n
</p>\n
\n \n <p>\n <code>AccountId</code> - The 12-digit ID of an Amazon Web Services account you wish to
exclude from automated discovery.\n Logical operator is <code>NOT_EQUALS</code>.</p>\n
\n \n <p>\n <code>License Included</code> - The type of license included.\n Logical operators are <code>EQUALS</code> and <code>NOT_EQUALS</code>.\n Possible values
are: <code>sql-server-enterprise</code> | \n <code>sql-server-standard</code> | \n <code>sql-
server-web</code> | \n <code>windows-server-datacenter</code>.</p>\n
\n \n

```

The following filters and logical operators are supported when the resource type is RDS:

- Engine Edition - The edition of the database engine. Logical operator is EQUALS. Possible values are: oracle-ee | oracle-se1 | oracle-se2.
- License Pack - The license pack. Logical operator is EQUALS. Possible values are: data guard | diagnostic pack sqlt | tuning pack sqlt | ols | olap.

```

 "smithy.api#required": {}
 }
},
"traits": {
 "smithy.api#documentation": "<p>Describes product information for a license configuration.</p>"
}
},
"com.amazonaws.licensemanager#ProductInformationFilter": {
 "type": "structure",
 "members": {
 "ProductInformationFilterName": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Filter name.</p>",
 "smithy.api#required": {}
 }
 },
 "ProductInformationFilterValue": {
 "target": "com.amazonaws.licensemanager#StringList",
 "traits": {
 "smithy.api#documentation": "<p>Filter value.</p>"
 }
 },
 "ProductInformationFilterComparator": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Logical operator.</p>",
 "smithy.api#required": {}
 }
 }
 },
 "traits": {
 "smithy.api#documentation":
 "<p>Describes product information filters.</p>"
 }
},
"com.amazonaws.licensemanager#ProductInformationFilterList": {
 "type": "list",

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 "member": {
 "target": "com.amazonaws.licensemanager#ProductInformationFilter"
 }
 },
 "com.amazonaws.licensemanager#ProductInformationList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#ProductInformation"
 }
 },
 "com.amazonaws.licensemanager#ProvisionalConfiguration": {
 "type": "structure",
 "members": {
 "MaxTimeToLiveInMinutes": {
 "target": "com.amazonaws.licensemanager#BoxInteger",
 "traits": {
 "smithy.api#documentation": "<p>Maximum time for the provisional configuration, in minutes.</p>",
 "smithy.api#required": {}
 }
 }
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>Details about a provisional configuration.</p>"
 }
},
"com.amazonaws.licensemanager#RateLimitExceededException": {
 "type": "structure",
 "members": {
 "Message": {
 "target": "com.amazonaws.licensemanager#Message"
 }
 },
 "traits": {
 "aws.protocols#awsQueryError": {
 "code": "RateLimitExceeded",
 "httpResponseCode": 429
 },
 "smithy.api#documentation": "<p>Too many requests have been submitted. Try again after a brief wait.</p>",
 "smithy.api#error": "client",
 "smithy.api#httpError": 429
 }
},
"com.amazonaws.licensemanager#ReceivedMetadata": {
 "type": "structure",
 "members": {

```



```

"ReceivedStatus": {
 "target": "com.amazonaws.licensemanager#ReceivedStatus",
 "traits": {
 "smithy.api#documentation": "<p>Received status.</p>"
 }
},
"ReceivedStatusReason": {
 "target": "com.amazonaws.licensemanager#StatusReasonMessage",
 "traits": {
 "smithy.api#documentation": "<p>Received status reason.</p>"
 }
},
"AllowedOperations": {
 "target": "com.amazonaws.licensemanager#AllowedOperationList",
 "traits": {
 "smithy.api#documentation": "<p>Allowed operations.</p>"
 }
},
"traits": {
 "smithy.api#documentation": "<p>Metadata associated with received licenses and grants.</p>"
}
},
"com.amazonaws.licensemanager#ReceivedStatus":
{
 "type": "enum",
 "members": {
 "PENDING_WORKFLOW": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "PENDING_WORKFLOW"
 }
 },
 "PENDING_ACCEPT": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "PENDING_ACCEPT"
 }
 },
 "REJECTED": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "REJECTED"
 }
 },
 "ACTIVE": {
 "target": "smithy.api#Unit",
 "traits": {

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 "smithy.api#enumValue": "ACTIVE"
 }
},
"FAILED_WORKFLOW": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "FAILED_WORKFLOW"
 }
},
"DELETED": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "DELETED"
 }
},
"DISABLED": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "DISABLED"
 }
},
"WORKFLOW_COMPLETED": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "WORKFLOW_COMPLETED"
 }
}
},
"com.amazonaws.licensemanager#RedirectException": {
 "type": "structure",
 "members": {
 "Location":
 {
 "target": "com.amazonaws.licensemanager#Location",
 "traits": {
 "smithy.api#httpHeader": "Location"
 }
 },
 "Message": {
 "target": "com.amazonaws.licensemanager#Message"
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>This is not the correct Region for the resource. Try again.</p>",
 "smithy.api#error": "client",
 "smithy.api#httpError": 308
 }
}
}

```

```

 }
 },
 "com.amazonaws.licensemanager#RejectGrant": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#RejectGrantRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#RejectGrantResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Rejects the specified grant.</p>"
 }
 },
 "com.amazonaws.licensemanager#RejectGrantRequest":
 {
 "type": "structure",
 "members": {
 "GrantArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
 "smithy.api#required": {}
 }
 }
 }
 }
}

```

```

 },
 "traits": {
 "smithy.api#input": {}
 }
 },
 "com.amazonaws.licensemanager#RejectGrantResponse": {
 "type": "structure",
 "members": {
 "GrantArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>Grant ARN.</p>"
 }
 },
 "Status": {
 "target": "com.amazonaws.licensemanager#GrantStatus",
 "traits": {

"smithy.api#documentation": "<p>Grant status.</p>"
 }
 },
 "Version": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Grant version.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
 },
 "com.amazonaws.licensemanager#RenewType": {
 "type": "enum",
 "members": {
 "NONE": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "None"
 }
 },
 "WEEKLY": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Weekly"
 }
 },
 "MONTHLY": {

```

```

 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Monthly"
 }
 }
},
"com.amazonaws.licensemanager#ReportContext": {
 "type": "structure",
 "members": {
 "licenseConfigurationArns": {
 "target": "com.amazonaws.licensemanager#ArnList",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration that
this generator reports on.</p>",
 "smithy.api#required": {}
 }
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>Details of the license configuration that this generator reports on.</p>"
 }
},
"com.amazonaws.licensemanager#ReportFrequency": {
 "type": "structure",
 "members":
{
 "value": {
 "target": "com.amazonaws.licensemanager#Integer",
 "traits": {
 "smithy.api#documentation": "<p>Number of times within the frequency period that a report is
generated. \n The only supported value is <code>1</code>.</p>"
 }
 },
 "period": {
 "target": "com.amazonaws.licensemanager#ReportFrequencyType",
 "traits": {
 "smithy.api#documentation": "<p>Time period between each report. The period can be daily, weekly,
or monthly.</p>"
 }
 }
},
 "traits": {
 "smithy.api#documentation": "<p>Details about how frequently reports are generated.</p>"
 }
},
"com.amazonaws.licensemanager#ReportFrequencyType": {

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```

"type": "enum",
"members": {
 "DAY": {

"target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "DAY"
 }
},
"WEEK": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "WEEK"
 }
},
"MONTH": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "MONTH"
 }
}
},
"com.amazonaws.licensemanager#ReportGenerator": {
 "type": "structure",
 "members": {
 "ReportGeneratorName": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Name of the report generator.</p>"
 }
 },

"ReportType": {
 "target": "com.amazonaws.licensemanager#ReportTypeList",
 "traits": {
 "smithy.api#documentation": "<p>Type of reports that are generated.</p>"
 }
},
"ReportContext": {
 "target": "com.amazonaws.licensemanager#ReportContext",
 "traits": {
 "smithy.api#documentation": "<p>License configuration type for this generator.</p>"
 }
},
"ReportFrequency": {
 "target": "com.amazonaws.licensemanager#ReportFrequency",
 "traits": {

```

```

 "smithy.api#documentation": "<p>Details about how frequently reports are generated.</p>"
 }
},
"LicenseManagerReportGeneratorArn": {
 "target": "com.amazonaws.licensemanager#String",

"traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator.</p>"
 }
},
"LastRunStatus": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Status of the last report generation attempt.</p>"
 }
},
"LastRunFailureReason": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Failure message for the last report generation attempt.</p>"
 }
},
"LastReportGenerationTime": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Time the last report was generated at.</p>"
 }
},
"ReportCreatorAccount": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>The Amazon Web Services account ID used to create the report
generator.</p>"
 }
},
"Description": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Description of the report generator.</p>"
 }
},
"S3Location": {
 "target": "com.amazonaws.licensemanager#S3Location",
 "traits": {
 "smithy.api#documentation": "<p>Details of the S3 bucket that report generator reports are published
to.</p>"
 }
},

```

```

 "CreateTime": {
 "target":
"com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Time the report was created.</p>"
 }
 },
 "Tags": {
 "target": "com.amazonaws.licensemanager#TagList",
 "traits": {
 "smithy.api#documentation": "<p>Tags associated with the report generator.</p>"
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>Describe the details of a report generator.</p>"
 },
 "com.amazonaws.licensemanager#ReportGeneratorList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#ReportGenerator"
 }
 },
 "com.amazonaws.licensemanager#ReportGeneratorName": {
 "type": "string",
 "traits": {
 "smithy.api#length":
{
 "min": 1,
 "max": 100
 }
 }
 },
 "com.amazonaws.licensemanager#ReportType": {
 "type": "enum",
 "members": {
 "LICENSE_CONFIGURATION_SUMMARY_REPORT": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "LicenseConfigurationSummaryReport"
 }
 },
 "LICENSE_CONFIGURATION_USAGE_REPORT": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "LicenseConfigurationUsageReport"
 }
 }
 }
 }
 }
}

```



```

 }
 }
},
"com.amazonaws.licensemanager#ReportTypeList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#ReportType"
 }
},
"com.amazonaws.licensemanager#ResourceInventory":
{
 "type": "structure",
 "members": {
 "ResourceId": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>ID of the resource.</p>"
 }
 },
 "ResourceType": {
 "target": "com.amazonaws.licensemanager#ResourceType",
 "traits": {
 "smithy.api#documentation": "<p>Type of resource.</p>"
 }
 },
 "ResourceArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
 }
 },
 "Platform": {
 "target": "com.amazonaws.licensemanager#String",

"traits": {
 "smithy.api#documentation": "<p>Platform of the resource.</p>"
 }
 },
 "PlatformVersion": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Platform version of the resource in the inventory.</p>"
 }
 },
 "ResourceOwningAccountId": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>ID of the account that owns the resource.</p>"
 }
 }
}

```

```

 }
 }
},
"traits": {
 "smithy.api#documentation": "<p>Details about a resource.</p>"
}
},
"com.amazonaws.licensemanager#ResourceInventoryList": {
 "type": "list",
 "member": {
 "target":
"com.amazonaws.licensemanager#ResourceInventory"
 }
},
"com.amazonaws.licensemanager#ResourceLimitExceededException": {
 "type": "structure",
 "members": {
 "Message": {
 "target": "com.amazonaws.licensemanager#Message"
 }
 },
 "traits": {
 "aws.protocols#awsQueryError": {
 "code": "ResourceLimitExceeded",
 "httpResponseCode": 400
 },
 "smithy.api#documentation": "<p>Your resource limits have been exceeded.</p>",
 "smithy.api#error": "client",
 "smithy.api#httpError": 400
 }
},
"com.amazonaws.licensemanager#ResourceNotFoundException": {
 "type": "structure",
 "members": {
 "Message": {
 "target": "com.amazonaws.licensemanager#Message"
 }
 },
 "traits": {
 "aws.protocols#awsQueryError": {
 "code": "InvalidResource.NotFound",
 "httpResponseCode": 400
 },
 "smithy.api#documentation": "<p>The resource cannot be found.</p>",
 "smithy.api#error": "client",
 "smithy.api#httpError": 400
 }
},

```

```

"com.amazonaws.licensemanager#ResourceType": {
 "type": "enum",
 "members": {
 "EC2_INSTANCE": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "EC2_INSTANCE"
 }
 },
 "EC2_HOST": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "EC2_HOST"
 }
 },
 "EC2_AMI": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "EC2_AMI"
 }
 },
 "RDS": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "RDS"
 }
 },
 "SYSTEMS_MANAGER_MANAGED_INSTANCE": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "SYSTEMS_MANAGER_MANAGED_INSTANCE"
 }
 }
 }
},
"com.amazonaws.licensemanager#S3Location": {
 "type": "structure",
 "members": {
 "bucket": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Name of the S3 bucket reports are published to.</p>"
 }
 }
 },
 "keyPrefix": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {

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```

 "smithy.api#documentation": "<p>Prefix of the S3 bucket reports are published to.</p>"
 }
}
},
"traits": {
 "smithy.api#documentation": "<p>Details of the S3 bucket that report generator reports are published
to.</p>"
}
},
"com.amazonaws.licensemanager#ServerInternalException": {
 "type": "structure",
 "members": {
 "Message": {
 "target": "com.amazonaws.licensemanager#Message"
 }
 },
 "traits": {
 "aws.protocols#awsQueryError": {
 "code": "InternalServerError",
 "httpResponseCode": 500
 },
 "smithy.api#documentation": "<p>The server experienced an internal
error. Try again.</p>",
 "smithy.api#error": "server",
 "smithy.api#httpError": 500
 }
},
"com.amazonaws.licensemanager#SignedToken": {
 "type": "string",
 "traits": {
 "smithy.api#length": {
 "min": 4096
 }
 }
},
"com.amazonaws.licensemanager#StatusReasonMessage": {
 "type": "string",
 "traits": {
 "smithy.api#length": {
 "min": 0,
 "max": 400
 },
 "smithy.api#pattern": "^[[s\\S]+$"
 }
},
"com.amazonaws.licensemanager#String": {
 "type": "string"
},

```

```

"com.amazonaws.licensemanager#StringList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#String"
 }
},
"com.amazonaws.licensemanager#Tag":
{
 "type": "structure",
 "members": {
 "Key": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Tag key.</p>"
 }
 },
 "Value": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Tag value.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>Details about a tag for a license configuration.</p>"
 }
},
"com.amazonaws.licensemanager#TagKeyList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#String"
 }
},
"com.amazonaws.licensemanager#TagList": {
 "type": "list",
 "member":
{
 "target": "com.amazonaws.licensemanager#Tag"
}
},
"com.amazonaws.licensemanager#TagResource": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#TagResourceRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#TagResourceResponse"
 },
}

```

```

"errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 }
],
"traits": {
 "smithy.api#documentation": "<p>Adds the specified tags to the specified license configuration.</p>"
}
},
"com.amazonaws.licensemanager#TagResourceRequest": {
 "type": "structure",
 "members": {
 "ResourceArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
 "smithy.api#required": {}
 }
 },
 "Tags": {
 "target": "com.amazonaws.licensemanager#TagList",
 "traits": {
 "smithy.api#documentation": "<p>One or more tags.</p>",
 "smithy.api#required": {}
 }
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
},
"com.amazonaws.licensemanager#TagResourceResponse": {
 "type": "structure",
 "members": {},
 "traits": {

```

```

 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#TokenData": {
 "type": "structure",
 "members": {
 "TokenId": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token ID.</p>"
 }
 },
 "TokenType": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Type of token generated. The supported value is
<code>REFRESH_TOKEN</code>.</p>"
 }
 },
 "LicenseArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
 }
 },
 "ExpirationTime": {
 "target": "com.amazonaws.licensemanager#ISO8601DateTime",
 "traits": {
 "smithy.api#documentation": "<p>Token expiration time, in ISO8601-UTC format.</p>"
 }
 },
 "TokenProperties": {
 "target": "com.amazonaws.licensemanager#MaxSize3StringList",
 "traits": {
 "smithy.api#documentation": "<p>Data specified by the caller.</p>"
 }
 },
 "RoleArns": {
 "target": "com.amazonaws.licensemanager#ArnList",
 "traits": {
 "smithy.api#documentation":
"<p>Amazon Resource Names (ARN) of the roles included in the token.</p>"
 }
 },
 "Status": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {

```

```

 "smithy.api#documentation": "<p>Token status. The possible values are
<code>AVAILABLE</code> and <code>DELETED</code>.</p>"
 }
}
},
"traits": {
 "smithy.api#documentation": "<p>Describes a token.</p>"
}
},
"com.amazonaws.licensemanager#TokenList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#TokenData"
 }
},
"com.amazonaws.licensemanager#TokenString": {
 "type": "string",
 "traits": {
 "smithy.api#length": {
 "min": 0,
 "max": 4096
 }
 },

 "smithy.api#pattern": "^\\S+$"
}
},
"com.amazonaws.licensemanager#TokenType": {
 "type": "enum",
 "members": {
 "REFRESH_TOKEN": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "REFRESH_TOKEN"
 }
 }
 }
}
},
"com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException": {
 "type": "structure",
 "members": {
 "Message": {
 "target": "com.amazonaws.licensemanager#Message"
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>The digital signature method is unsupported. Try your request
again.</p>",
 "smithy.api#error": "client",

```



```

 "smithy.api#httpError": 400
 }
},
"com.amazonaws.licensemanager#UntagResource":
{
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#UntagResourceRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#UntagResourceResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Removes
the specified tags from the specified license configuration.</p>"
 }
},
"com.amazonaws.licensemanager#UntagResourceRequest": {
 "type": "structure",
 "members": {
 "ResourceArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
 "smithy.api#required": {}
 }
 }
 },
 "TagKeys": {
 "target": "com.amazonaws.licensemanager#TagKeyList",
 "traits": {

```

```

 "smithy.api#documentation": "<p>Keys identifying the tags to remove.</p>",
 "smithy.api#required": {}
 }
}
},
"traits": {
 "smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UntagResourceResponse":
{
 "type": "structure",
 "members": {},
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#UpdateLicenseConfiguration": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target":
"com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Modifies the attributes of an existing license configuration.</p>"
 }
}

```

```

 }
 },
 "com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest": {
 "type": "structure",
 "members": {
 "LicenseConfigurationArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
 "smithy.api#required": {}
 }
 }
 },
 "LicenseConfigurationStatus": {
 "target": "com.amazonaws.licensemanager#LicenseConfigurationStatus",
 "traits": {
 "smithy.api#documentation": "<p>New status of the license configuration.</p>"
 }
 },
 "LicenseRules": {
 "target": "com.amazonaws.licensemanager#StringList",
 "traits": {
 "smithy.api#documentation": "<p>New license rule. The only rule that you can add after you create a
license\n configuration is licenseAffinityToHost.</p>"
 }
 },
 "LicenseCount": {
 "target": "com.amazonaws.licensemanager#BoxLong",
 "traits": {
 "smithy.api#documentation": "<p>New number of licenses managed by the license
configuration.</p>"
 }
 },
 "LicenseCountHardLimit": {
 "target": "com.amazonaws.licensemanager#BoxBoolean",
 "traits": {
 "smithy.api#documentation": "<p>New hard limit of the number of available licenses.</p>"
 }
 },
 "Name": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>New name of the license configuration.</p>"
 }
 },
 "Description": {

```

```

 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>New description of the license configuration.</p>"
 }
 },
 "ProductInformationList": {
 "target": "com.amazonaws.licensemanager#ProductInformationList",
 "traits": {
 "smithy.api#documentation": "<p>New product information.</p>"
 }
 },
 "DisassociateWhenNotFound": {
 "target": "com.amazonaws.licensemanager#BoxBoolean",
 "traits": {
 "smithy.api#documentation": "<p>When true, disassociates a resource when software is
uninstalled.</p>"
 }
 }
},
"traits": {
 "smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse": {
 "type": "structure",
 "members": {},
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 }
]
}

```

```

 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Updates a report generator.</p>\n <p>After you make changes to a report generator, it starts generating new reports within 60 minutes of being updated.</p>"
 }
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest": {
 "type": "structure",
 "members": {
 "LicenseManagerReportGeneratorArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator to update.</p>",
 "smithy.api#required": {}
 }
 },
 "ReportGeneratorName": {
 "target": "com.amazonaws.licensemanager#ReportGeneratorName",
 "traits": {
 "smithy.api#documentation": "<p>Name of the report generator.</p>",
 "smithy.api#required": {}
 }
 }
 },
 "Type": {
 "target": "com.amazonaws.licensemanager#ReportTypeList",
 "traits": {
 "smithy.api#documentation": "<p>Type of reports to generate. The following report types are supported:</p>\n \n \n <p>License configuration report - Reports the number and details of consumed licenses for a license configuration.</p>\n \n \n <p>Resource report - Reports the tracked licenses and resource consumption for a license configuration.</p>\n \n ",
 }
 }
}

```

```

 "smithy.api#required": {}
 }
},
"ReportContext": {
 "target": "com.amazonaws.licensemanager#ReportContext",
 "traits": {
 "smithy.api#documentation": "<p>The report context.</p>",
 "smithy.api#required": {}
 }
},
"ReportFrequency": {
 "target": "com.amazonaws.licensemanager#ReportFrequency",
 "traits": {
 "smithy.api#documentation": "<p>Frequency by which reports are generated.</p>",
 "smithy.api#required": {}
 }
},
"ClientToken": {
 "target": "com.amazonaws.licensemanager#ClientRequestToken",
 "traits": {
 "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",

```

```

"smithy.api#required": {}
 }
},
"Description": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Description of the report generator.</p>"
 }
},
"traits": {
 "smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse": {
 "type": "structure",
 "members": {},
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest"

```

```

 },
 "output": {
 "target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidResourceStateException"
 },
 {
 "target": "com.amazonaws.licensemanager#LicenseUsageException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 }
],
 "traits":
 {
 "smithy.api#documentation": "<p>Adds or removes the specified license configurations for the specified Amazon Web Services resource.</p>\n <p>You can update the license specifications of AMIs, instances, and hosts.\n You cannot update the license specifications for launch templates and CloudFormation templates, \n as they send license configurations to the operation that creates the resource.</p>"
 }
},
"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest": {
 "type": "structure",
 "members": {
 "ResourceArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the Amazon Web Services resource.</p>",
 "smithy.api#required": {}
 }
 }
 },
 "AddLicenseSpecifications":

```

```

{
 "target": "com.amazonaws.licensemanager#LicenseSpecifications",
 "traits": {
 "smithy.api#documentation": "<p>ARNs of the license configurations to add.</p>"
 }
},
"RemoveLicenseSpecifications": {
 "target": "com.amazonaws.licensemanager#LicenseSpecifications",
 "traits": {
 "smithy.api#documentation": "<p>ARNs of the license configurations to remove.</p>"
 }
}
},
"traits": {
 "smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse": {
 "type": "structure",
 "members": {},
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#UpdateServiceSettings": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#UpdateServiceSettingsRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#UpdateServiceSettingsResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 }
]
}

```



```

 }
],
 "traits": {
 "smithy.api#documentation": "<p>Updates
License Manager settings for the current Region.</p>"
 }
},
"com.amazonaws.licensemanager#UpdateServiceSettingsRequest": {
 "type": "structure",
 "members": {
 "S3BucketArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the Amazon S3 bucket where
the License Manager information is stored.</p>"
 }
 },
 "SnsTopicArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the Amazon SNS topic used
for License Manager alerts.</p>"
 }
 },
 "OrganizationConfiguration": {
 "target": "com.amazonaws.licensemanager#OrganizationConfiguration",
 "traits": {
 "smithy.api#documentation": "<p>Enables integration with Organizations for cross-account
discovery.</p>"
 }
 },
 "EnableCrossAccountsDiscovery": {
 "target": "com.amazonaws.licensemanager#BoxBoolean",
 "traits": {
 "smithy.api#documentation": "<p>Activates cross-account discovery.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
},
"com.amazonaws.licensemanager#UpdateServiceSettingsResponse": {
 "type": "structure",
 "members": {},
 "traits": {
 "smithy.api#output": {}
 }
}

```

```
 },
 "com.amazonaws.licensemanager#UsageOperation": {
 "type": "string",
 "traits": {
 "smithy.api#length": {
 "min":
0,
 "max": 50
 }
 }
 },
 "com.amazonaws.licensemanager#ValidationException": {
 "type": "structure",
 "members": {
 "Message": {
 "target": "com.amazonaws.licensemanager#Message"
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>The provided input is not valid. Try your request again.</p>",
 "smithy.api#error": "client",
 "smithy.api#httpError": 400
 }
 }
}
```

```
// Code generated by smithy-go-codegen DO NOT EDIT.
```

```
package grafana
```

```
import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)
```

```
// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
```

```
// Enterprise incurs additional fees. For more information, see Upgrade a
```

```
// workspace to Grafana Enterprise (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html)
```

```
// .
```

```
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
```

```
(*AssociateLicenseOutput, error) {
```

```
 if params == nil {
```

```
 params = &AssociateLicenseInput{}
```

```

}

result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
if err != nil {
 return nil, err
}

out
:= result.(*AssociateLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type AssociateLicenseInput struct {

// The type of license to associate with the workspace.
//
// This member is required.
LicenseType types.LicenseType

// The ID of the workspace to associate the license with.
//
// This member is required.
WorkspaceId *string

noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

// A structure containing data about the workspace.
//
// This member is required.
Workspace *types.WorkspaceDescription

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{ }, middleware.After)
if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{ }, middleware.After)

```

```

if
err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
err != nil {
 return err
}
if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
 return err
}
}

```

```

if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "grafana",
 OperationName: "AssociateLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

```

```
package licensemanager
```

```

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

```

```
// Deletes the specified license.
```

```

func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
 params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
 return nil, err
 }
}

```

```

}

out := result.(*DeleteLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version of the
 license.
 //
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

 // Date when the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
}

```

```

}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack,
options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack);
err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}

```

```

}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "DeleteLicense",
}
}

```

## 1.629 [github.com/aws/aws-sdk-go-v2/credentials](https://github.com/aws/aws-sdk-go-v2/credentials) 1.6.1

### 1.629.1 Available under license :

// Code generated by smithy-go-codegen DO NOT EDIT.

```

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
 params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {

```



```

 return nil, err
}

out := result.(*ListLicensesOutput)
out.ResultMetadata = metadata
return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 // - Beneficiary
 // - ProductSKU
 // - Fingerprint
 //
 // - Status
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListLicensesOutput struct {

 // License details.
 Licenses []types.License

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{ }, middleware.After)
 if err != nil {
 return err
 }
}

```

```

}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{ }, middleware.After)
if err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}

```

```

}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "ListLicenses",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
 params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CheckoutBorrowLicenseOutput)

```

```

out.ResultMetadata = metadata
return out, nil
}

type CheckoutBorrowLicenseInput struct {

// Unique, case-sensitive identifier that you
// provide to ensure the idempotency of
// the request.
//
// This member is required.
ClientToken *string

// Digital signature method. The possible value is JSON Web Signature (JWS)
// algorithm PS384. For more information, see RFC 7518 Digital Signature with
// RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5) .
//
// This member is required.
DigitalSignatureMethod types.DigitalSignatureMethod

// License entitlements. Partial checkouts are not supported.
//
// This member is required.
Entitlements []types.EntitlementData

// Amazon Resource Name (ARN) of the license. The license must use the borrow
// consumption configuration.
//
// This member is required.
LicenseArn *string

// Information about constraints.
CheckoutMetadata []types.Metadata

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

// Information about constraints.
CheckoutMetadata []types.Metadata

// Allowed license entitlements.
EntitlementsAllowed

```

```

[]types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
}

```

```

}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
 return err
}
if
err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region: region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "CheckoutBorrowLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
"context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
if params == nil {
params = &CreateLicenseInput{}
}

result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
if err != nil {
return nil, err
}

out := result.(*CreateLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type CreateLicenseInput struct {

// License beneficiary.
//
// This member is required.
Beneficiary *string

// Unique, case-sensitive identifier that you provide to ensure

```

```
the idempotency of
// the request.
//
// This member is required.
ClientToken *string

// Configuration for consumption of the license. Choose a provisional
// configuration for workloads running with continuous connectivity. Choose a
// borrow configuration for workloads with offline usage.
//
// This member is required.
ConsumptionConfiguration *types.ConsumptionConfiguration

// License entitlements.
//
// This member is required.
Entitlements []types.Entitlement

// Home Region for the license.
//
// This member is required.
HomeRegion *string

// License issuer.
//
// This member is required.
Issuer *types.Issuer

// License name.
//
// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange
```



```

//
Information about the license.
LicenseMetadata []types.Metadata

noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License status.
Status types.LicenseStatus

// License version.
Version *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack);
err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}

```

```

}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil
{
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,

```

```
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "CreateLicense",
}
}
```

AWS SDK for Go

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name: License Scan

on: [pull\_request]

jobs:

licensescan:

name: License Scan

runs-on: ubuntu-latest

strategy:

matrix:

python-version: [3.9]

steps:

```
- name: Checkout target
 uses: actions/checkout@v2
 with:
 path: sdkbase
 ref: ${{ github.base_ref }}
- name: Checkout this ref
 uses: actions/checkout@v2
 with:
 path: new-ref
 fetch-depth: 0
- name: Get Diff
 run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}
${{ github.sha }} > refDiffFiles.txt
- name: Get Target Files
 run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
- name: Checkout scancode
 uses: actions/checkout@v2
 with:
 repository: nexB/scancode-toolkit
 path: scancode-toolkit
 fetch-depth: 1
- name: Set up Python ${{ matrix.python-version }}
 uses: actions/setup-python@v2
 with:
 python-version: ${{ matrix.python-version }}
ScanCode
- name: Self-configure scancode
```

```

working-directory: ./scancode-toolkit
run: ./scancode --help
- name: Run Scan code on target
 run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
- name: Run Scan code on pr ref
 run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
compare
- name: License test
 run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

```

```
package licensemanager
```

```

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
 params = &ListReceivedLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListReceivedLicensesInput struct {

// Filters to scope the results. The following filters are supported:
//

```

```

- ProductSKU
// - Status
// - Fingerprint
// - IssuerName
// - Beneficiary
Filters []types.Filter

// Amazon Resource Names (ARNs) of the licenses.
LicenseArns []string

// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string

noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

// Received license details.
Licenses []types.GrantedLicense

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{ }, middleware.After)
if err != nil {
return err
}
if
err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {

```

```

return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack, options); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil
{
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}

```

```

 }
 return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "ListReceivedLicenses",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license. If the account that created the license is
// the same that is performing the check out, you must specify the account as the
// beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
 params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type

```

```

CheckoutLicenseInput struct {

 // Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Key fingerprint identifying the license.
 //
 // This member is required.
 KeyFingerprint *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // License beneficiary.
 Beneficiary *string

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

```

```

type CheckoutLicenseOutput struct {

 // Checkout type.
 CheckoutType types.CheckoutType

 // Allowed license entitlements.
 EntitlementsAllowed []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string
}

```



```

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name
(ARN) of the checkout license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return
 }
 err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {

```

```

return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack, options); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
return err
}
if err
= addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
return &awsmiddleware.RegisterServiceMetadata{
Region: region,
ServiceID: ServiceID,
}
}

```

```

 SigningName: "license-manager",
 OperationName: "CheckoutLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
 params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary
 *string

 noSmithyDocumentSerde
}

```

```

type CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack,
options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {

```

```

return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack);
err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
return &awsmiddleware.RegisterServiceMetadata{
Region: region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "CheckInLicense",
}
}
{
"smithy": "2.0",
"shapes": {
"com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger": {
"type": "integer"
},
"com.amazonaws.licensemanagerlinuxsubscriptions#BoxLong": {
"type": "long"
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Filter": {
"type": "structure",

```

```

"members": {
 "Name": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The type of name to filter by.</p>"
 }
 },
 "Values": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
 "traits": {
 "smithy.api#documentation": "<p>One or more values for the name to filter by.</p>"
 }
 },
 "Operator": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Operator",
 "traits": {
 "smithy.api#documentation": "<p>An operator for filtering results.</p>"
 }
 }
},
"traits": {
 "smithy.api#documentation": "<p>A filter object that is used to return more specific results from a describe operation.\n Filters can be used to match a set of resources by specific criteria.</p>"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#FilterList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Filter"
 }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettings": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerErrorException"
 },
 {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
 }
]
}

```

```

 "target": "com.amazonaws.licenseanagerlinuxsubscriptions#ValidationException"
 }
],
"traits": {
 "smithy.api#documentation": "<p>Lists the Linux subscriptions service settings.</p>",
 "smithy.api#http": {
 "code": 200,
 "method": "POST",
 "uri": "/subscription/GetServiceSettings"
 },
 "smithy.api#idempotent": {}
}
},
"com.amazonaws.licenseanagerlinuxsubscriptions#GetServiceSettingsRequest":
{
 "type": "structure",
 "members": {}
},
"com.amazonaws.licenseanagerlinuxsubscriptions#GetServiceSettingsResponse": {
 "type": "structure",
 "members": {
 "LinuxSubscriptionsDiscovery": {
 "target": "com.amazonaws.licenseanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
 "traits": {
 "smithy.api#documentation": "<p>Lists if discovery has been enabled for Linux subscriptions.</p>"
 }
 },
 "LinuxSubscriptionsDiscoverySettings": {
 "target": "com.amazonaws.licenseanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
 "traits": {
 "smithy.api#documentation": "<p>Lists the settings defined for Linux subscriptions discovery. The
settings include if\n Organizations integration has been enabled, and
which Regions data will be aggregated from.</p>"
 }
 },
 "Status": {
 "target": "com.amazonaws.licenseanagerlinuxsubscriptions#Status",
 "traits": {
 "smithy.api#documentation": "<p>Indicates the status of Linux subscriptions settings being
applied.</p>"
 }
 },
 "StatusMessage": {
 "target": "com.amazonaws.licenseanagerlinuxsubscriptions#StringMap",
 "traits": {
 "smithy.api#documentation": "<p>A message which details the Linux subscriptions service settings
current status.</p>"
 }
 }
 }
}

```

```

 },
 "HomeRegions": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
 "traits": {
 "smithy.api#documentation": "<p>The Region in which License Manager displays
the aggregated data for Linux\n subscriptions.</p>"
 }
 }
 },
 "com.amazonaws.licensemanagerlinuxsubscriptions#Instance": {
 "type": "structure",
 "members": {
 "AmiId": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The AMI ID used to launch the instance.</p>"
 }
 },
 "InstanceID": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The instance ID of the resource.</p>"
 }
 },
 "InstanceType": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The instance type of the resource.</p>"
 }
 }
 }
 },
 "AccountID": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The account ID which owns the instance.</p>"
 }
 },
 "Status": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The status of the instance.</p>"
 }
 },
 "Region": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The Region the instance is running in.</p>"
 }
 }
}

```



```

 }
 },
 "UsageOperation": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The usage operation of the instance. For more information, see For
more information, see\n <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/linux-
subscriptions-usage-operation.html\">Usage\n operation values in the <i>License Manager User
Guide</i>.</p>"
 }
 },
 "ProductCode": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ProductCodeList",
 "traits": {
 "smithy.api#documentation": "<p>The product code for the instance. For more information, see <a
href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/linux-subscriptions-usage-
operation.html\">Usage\n operation values in the <i>License Manager User Guide</i> .</p>"
 }
 },
 "LastUpdatedTime": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The time in which the last discovery
updated the instance details.</p>"
 }
 },
 "SubscriptionName": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The name of the subscription being used by the instance.</p>"
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>Details discovered information about a running instance using Linux
subscriptions.</p>"
 }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#InstanceList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Instance"
 }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerError": {
 "type": "structure",
 "members": {
 "message": {

```

```

 "target": "smithy.api#String"
 }
},
"traits": {
 "smithy.api#documentation": "<p>An exception occurred with the service.</p>",
 "smithy.api#error": "server"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#LicenseManagerLinuxSubscriptions": {
 "type": "service",
 "version": "2018-05-10",
 "operations": [
 {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettings"
 },
 {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstances"
 },
 {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptions"
 },
 {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettings"
 }
],
 "traits": {
 "aws.api#service": {
 "sdkId": "License Manager Linux Subscriptions",
 "arnNamespace": "license-manager-linux-subscriptions",
 "cloudTrailEventSource": "license-manager-linux-subscriptions.amazonaws.com"
 },
 "aws.auth#sigv4": {
 "name": "license-manager-linux-subscriptions"
 },
 "aws.protocols#restJson1": {},
 "smithy.api#cors": {
 "additionalAllowedHeaders": [
 "*",
 "content-type",
 "x-amz-content-sha256",
 "x-amz-user-agent",
 "x-amzn-platform-id",
 "x-amzn-trace-id",
 "content-length",
 "x-api-key",
 "authorization",
 "x-amz-date",
]
 }
 }
}

```

```

"x-amz-security-token",
 "Access-Control-Allow-Headers",
 "Access-Control-Allow-Methods",
 "Access-Control-Allow-Origin"
],
"additionalExposedHeaders": [
 "x-amzn-errortype",
 "x-amzn-requestid",
 "x-amzn-trace-id"
]
},
"smithy.api#documentation": "<p>With License Manager, you can discover and track your commercial
Linux subscriptions on running Amazon EC2 instances.</p>",
"smithy.api#title": "AWS License Manager Linux Subscriptions",
"smithy.rules#endpointRuleSet": {
 "version": "1.0",
 "parameters": {
 "Region": {
 "builtIn": "AWS::Region",
 "required": false,
 "documentation": "The
AWS region used to dispatch the request.",
 "type": "String"
 },
 "UseDualStack": {
 "builtIn": "AWS::UseDualStack",
 "required": true,
 "default": false,
 "documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not
support dual-stack, dispatching the request MAY return an error.",
 "type": "Boolean"
 },
 "UseFIPS": {
 "builtIn": "AWS::UseFIPS",
 "required": true,
 "default": false,
 "documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the
configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
 "type": "Boolean"
 },
 "Endpoint": {
 "builtIn": "SDK::Endpoint",
 "required": false,
 "documentation": "Override the endpoint used to send this request",
 "type": "String"
 }
 }
}

```

```

},
"rules": [
 {
 "conditions": [
 {
 "fn": "isSet",
 "argv": [
 {
 "ref": "Endpoint"
 }
]
 }
]
 },
 {
 "type": "tree",
 "rules": [
 {
 "conditions": [
 {
 "fn": "booleanEquals",
 "argv": [
 {
 "ref": "UseFIPS"
 },
 true
]
 }
],
 "error": "Invalid Configuration: FIPS and custom endpoint are not supported",
 "type": "error"
 },
 {
 "conditions": [],
 "type": "tree",
 "rules": [
 {
 "conditions": [
 {
 "fn": "booleanEquals",
 "argv": [
 {
 "ref": "UseDualStack"
 },
 true
]
 }
],
 }
],
 }
]
 }
]

```

```

 "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
 "type": "error"
 },
 {
 "conditions": [],

"endpoint": {
 "url": {
 "ref": "Endpoint"
 },
 "properties": {},
 "headers": {}
 },
 "type": "endpoint"
 }
]
},
{
 "conditions": [],
 "type": "tree",
 "rules": [
 {
 "conditions": [
 {
 "fn": "isSet",

"argv": [
 {
 "ref": "Region"
 }
]
 }
 },
 "type": "tree",
 "rules": [
 {
 "conditions": [
 {
 "fn": "aws.partition",
 "argv": [
 {
 "ref": "Region"
 }
]
 }
],

```

```

"assign": "PartitionResult"
 }
],
 "type": "tree",
 "rules": [
 {
 "conditions": [
 {
 "fn": "booleanEquals",
 "argv": [
 {
 "ref": "UseFIPS"
 },
 true
]
 },
 {
 "fn": "booleanEquals",
 "argv": [
 {
 "ref": "UseDualStack"
 },
 true
]
 }
],
 "type": "tree",
 "rules": [
 {
 "conditions": [
 {
 "fn": "booleanEquals",
 "argv": [
 true,
 {
 "fn": "getAttr",
 "argv": [
 {
 "ref": "PartitionResult"
 },
 "supportsFIPS"
]
 }
]
 }
]
 }
]
 }
]
},

```

```

 {
 "fn": "booleanEquals",
 "argv": [
 true,
 {
 "fn": "getAttr",
 "argv": [
 {
 "ref": "PartitionResult"
 }
]
 }
]
 }
],
 "type": "tree",
 "rules": [
 {
 "conditions": [],
 "type": "tree",
 "rules": [
 {
 "conditions": [],
 "endpoint": {
 "url": "https://license-manager-linux-subscriptions-
fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
 "properties": {},
 "headers": {}
 },
 "type": "endpoint"
 }
]
 }
]
},
{
 "conditions": [],
 "error": "FIPS and DualStack are enabled, but this partition does not support
one or both",
 "type": "error"
}
]
},
{

```

```

 "conditions": [
 {
 "fn": "booleanEquals",
 "argv": [
 {
 "ref": "UseFIPS"
 },
 true
]
 }
],
 "type": "tree",
 "rules": [
 {
 "conditions": [
 {
 "fn": "booleanEquals",
 "argv": [
 true,
 {
 "fn": "getAttr",
 "argv": [
 {
 "ref": "PartitionResult"
 },
 "supportsFIPS"
]
 }
]
 }
]
 }
],
 "type": "tree",
 "rules": [
 {
 "conditions": [],
 "type": "tree",
 "rules": [
 {
 "conditions": [],
 "endpoint": {
 "url": "https://license-manager-linux-subscriptions-
fips.{Region}.{PartitionResult#dnsSuffix}",
 "properties": {},
 "headers": {}
 }
 }
]
 }
]
 }
}

```



```

 },
 "type": "endpoint"
 }
]
}
],
{
 "conditions": [],
 "error": "FIPS is enabled but this partition does not support FIPS",
 "type": "error"
}
]
},
{
 "conditions": [
 {
 "fn": "booleanEquals",
 "argv": [
 {
 "ref": "UseDualStack"
 },
 true
]
 }
],
 "type": "tree",
 "rules": [
 {
 "conditions": [
 {
 "fn": "booleanEquals",
 "argv": [
 true,
 {
 "fn": "getAttr",
 "argv": [
 {
 "ref": "PartitionResult"
 },
 "supportsDualStack"
]
 }
]
 }
]
 }
],
}
],

```

```

 "type": "tree",
 "rules": [
 {
 "conditions": [],
 "type": "tree",
 "rules": [
 {
 "conditions": [],

 "endpoint": {
 "url": "https://license-manager-linux-
subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
 "properties": {},
 "headers": {}
 },
 "type": "endpoint"
 }
]
 }
]
 },
 {
 "conditions": [],
 "error": "DualStack is enabled but this partition does not support DualStack",
 "type": "error"
 }
],
{
 "conditions": [],
 "type": "tree",
 "rules": [
 {
 "conditions": [],
 "endpoint": {
 "url":
"https://license-manager-linux-subscriptions.{Region}.{PartitionResult#dnsSuffix}",
 "properties": {},
 "headers": {}
 },
 "type": "endpoint"
 }
]
}
]
}
]

```

```

 },
 {
 "conditions": [],
 "error": "Invalid Configuration: Missing Region",
 "type": "error"
 }
]
}
]
},
"smithy.rules#endpointTests": {
 "testCases": [
 {
 "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-linux-subscriptions-fips.us-gov-east-1.api.aws"
 }
 },
 "params": {
 "UseDualStack": true,
 "UseFIPS": true,
 "Region": "us-gov-east-1"
 }
 },
 {
 "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-linux-subscriptions-fips.us-gov-east-1.amazonaws.com"
 }
 },
 "params": {
 "UseDualStack": false,
 "UseFIPS": true,
 "Region": "us-gov-east-1"
 }
 },
 {
 "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack enabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-linux-subscriptions.us-gov-east-1.api.aws"
 }
 },
 "params": {
 "UseDualStack": true,

```

```

 "UseFIPS": false,
 "Region": "us-gov-east-1"
 }
 },
 {
 "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-linux-subscriptions.us-gov-east-1.amazonaws.com"
 }
 },
 "params": {
 "UseDualStack": false,
 "UseFIPS": false,
 "Region": "us-gov-east-1"
 }
 },
 {
 "documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-linux-subscriptions-fips.cn-north-
1.api.amazonwebservices.com.cn"
 }
 },
 "params": {
 "UseDualStack": true,
 "UseFIPS": true,
 "Region": "cn-north-1"
 }
 },
 {
 "documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-linux-subscriptions-fips.cn-north-1.amazonaws.com.cn"
 }
 },
 "params": {
 "UseDualStack": false,

 "UseFIPS": true,
 "Region": "cn-north-1"
 }
 },
 {

```

```

 "documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-linux-subscriptions.cn-north-1.api.amazonwebservices.com.cn"
 }
 },
 "params": {
 "UseDualStack": true,
 "UseFIPS": false,
 "Region": "cn-north-1"
 }
 },
 {
 "documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-linux-subscriptions.cn-north-1.amazonaws.com.cn"
 }
 },
 "params": {
 "UseDualStack": false,
 "UseFIPS": false,
 "Region": "cn-north-1"
 }
 },
 {
 "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
 "expect": {
 "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
 },
 "params": {
 "UseDualStack": true,
 "UseFIPS": true,
 "Region": "us-iso-east-1"
 }
 },
 {
 "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-linux-subscriptions-fips.us-iso-east-1.c2s.ic.gov"
 }
 },
 "params": {
 "UseDualStack": false,
 "UseFIPS": true,

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```

 "Region": "us-iso-east-1"
 }
},
{
 "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
 "expect": {
 "error": "DualStack is enabled but
this partition does not support DualStack"
 },
 "params": {
 "UseDualStack": true,
 "UseFIPS": false,
 "Region": "us-iso-east-1"
 }
},
{
 "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-linux-subscriptions.us-iso-east-1.c2s.ic.gov"
 }
 },
 "params": {
 "UseDualStack": false,
 "UseFIPS": false,
 "Region": "us-iso-east-1"
 }
},
{
 "documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-linux-subscriptions-fips.us-east-1.api.aws"
 }
 },
 "params": {
 "UseDualStack": true,
 "UseFIPS": true,
 "Region": "us-east-1"
 }
},
{
 "documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-linux-subscriptions-fips.us-east-1.amazonaws.com"
 }
 }
}

```

```

 }
 },
 "params": {
 "UseDualStack": false,
 "UseFIPS": true,
 "Region": "us-east-1"
 }
},
{
 "documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-linux-subscriptions.us-east-1.api.aws"
 }
 },
 "params": {
 "UseDualStack": true,
 "UseFIPS": false,
 "Region": "us-east-1"
 }
},
{
 "documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-linux-subscriptions.us-east-1.amazonaws.com"
 }
 },
 "params": {
 "UseDualStack": false,
 "UseFIPS": false,
 "Region": "us-east-1"
 }
},
{
 "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
 "expect": {
 "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
 },
 "params": {
 "UseDualStack": true,
 "UseFIPS": true,
 "Region": "us-isob-east-1"
 }
},
{

```

```

 "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-linux-subscriptions-fips.us-isob-east-1.sc2s.sgov.gov"
 }
 },
 "params": {
 "UseDualStack": false,
 "UseFIPS": true,
 "Region": "us-isob-east-1"
 }
 },
 {
 "documentation": "For region us-isob-east-1 with FIPS disabled
and DualStack enabled",
 "expect": {
 "error": "DualStack is enabled but this partition does not support DualStack"
 },
 "params": {
 "UseDualStack": true,
 "UseFIPS": false,
 "Region": "us-isob-east-1"
 }
 },
 {
 "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-linux-subscriptions.us-isob-east-1.sc2s.sgov.gov"
 }
 },
 "params": {
 "UseDualStack": false,
 "UseFIPS": false,
 "Region": "us-isob-east-1"
 }
 },
 {
 "documentation": "For custom endpoint with fips disabled and dualstack disabled",
 "expect": {
 "endpoint": {
 "url": "https://example.com"
 }
 },
 "params": {
 "UseDualStack": false,
 "UseFIPS": false,

```



```

 "Region": "us-east-1",
 "Endpoint": "https://example.com"
 }
},
{
 "documentation": "For custom endpoint with fips enabled and dualstack disabled",
 "expect": {
 "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
 },
 "params": {
 "UseDualStack": false,
 "UseFIPS": true,
 "Region": "us-east-1",
 "Endpoint": "https://example.com"
 }
},
{
 "documentation": "For custom endpoint with fips disabled and dualstack enabled",
 "expect": {
 "error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
 },
 "params": {
 "UseDualStack": true,
 "UseFIPS": false,
 "Region": "us-east-1",
 "Endpoint": "https://example.com"
 }
},
],
 "version": "1.0"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery": {
 "type": "string",
 "traits": {
 "smithy.api#enum": [
 {
 "name": "Enabled",
 "value": "Enabled",
 "documentation": "Enabled LinuxSubscriptionsDiscovery"
 },
 {
 "name": "Disabled",
 "value": "Disabled",
 "documentation": "Disabled LinuxSubscriptionsDiscovery"
 }
]
 }
}
}
}

```

```

 }
]
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings": {
 "type": "structure",
 "members": {
 "SourceRegions": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
 "traits": {
 "smithy.api#documentation": "<p>The Regions in which to discover data for Linux
subscriptions.</p>",
 "smithy.api#required": {}
 }
 },
 "OrganizationIntegration": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#OrganizationIntegration",
 "traits": {
 "smithy.api#documentation": "<p>Details if you have enabled resource discovery across your
accounts in Organizations.</p>",
 "smithy.api#required": {}
 }
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>Lists the settings defined for discovering Linux subscriptions.</p>"
 }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstances":
{
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerErrorException"
 },
 {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
 },
 {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
 }
]
}

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],
 "traits": {
 "smithy.api#documentation": "<p>Lists the running Amazon EC2 instances that were discovered with
commercial Linux\n
subscriptions.</p>",
 "smithy.api#http": {
 "code": 200,
 "method": "POST",
 "uri": "/subscription/ListLinuxSubscriptionInstances"
 },
 "smithy.api#idempotent": {},
 "smithy.api#paginated": {
 "inputToken": "NextToken",
 "outputToken": "NextToken",
 "pageSize": "MaxResults",
 "items": "Instances"
 }
 }
 },
 "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesRequest": {
 "type": "structure",
 "members": {
 "Filters": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList",
 "traits": {
 "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those
that match one or\n
more sets of key-value pairs that you specify. For example, you can filter by the name of\n
<code>AmiID</code> with an optional operator to see subscriptions that match, partially\n match, or don't match
a certain Amazon Machine Image (AMI) ID.</p>\n <p>The valid names for this filter are:</p>\n \n \n <p>\n <code>AmiID</code>\n </p>\n \n \n <p>\n <code>InstanceID</code>\n </p>\n \n \n <p>\n <code>AccountID</code>\n </p>\n \n \n <p>\n <code>Status</code>\n </p>\n \n \n <p>\n <code>Region</code>\n </p>\n \n \n <p>\n <code>UsageOperation</code>\n </p>\n \n \n <p>\n <code>ProductCode</code>\n </p>\n \n \n <p>\n <code>InstanceType</code>\n </p>\n \n \n <p>The valid Operators for this filter are:</p>\n \n \n <p>\n <code>contains</code>\n </p>\n \n \n <p>\n <code>equals</code>\n </p>\n \n \n <p>\n <code>Notequal</code>\n </p>\n \n "
 }
 },
 "MaxResults": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger",
 "traits": {
 "smithy.api#documentation":

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 "<p>Maximum number of results to return in a single call.</p>"
 },
 "NextToken": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>",
 "smithy.api#length": {
 "min": 1,
 "max": 16384
 }
 }
 },
 "traits": {
 "smithy.api#documentation": "NextToken length limit is half of ddb accepted limit.\nIncrease this limit if parameters in request increases."
 }
 },
 "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesResponse": {
 "type": "structure",
 "members": {
 "Instances": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InstanceList",
 "traits": {
 "smithy.api#documentation": "<p>An array that contains instance objects.</p>"
 }
 },
 "NextToken": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 }
 }
 },
 "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptions": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerError"
 }
]
 }
}

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 },
 {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
 },
 {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Lists the Linux subscriptions that have been discovered. If you have linked your\n organization, the returned results will include data aggregated across your accounts in\n Organizations.</p>",
 "smithy.api#http": {
 "code": 200,
 "method": "POST",
 "uri": "/subscription/ListLinuxSubscriptions"
 },
 "smithy.api#idempotent": {},
 "smithy.api#paginated": {
 "inputToken": "NextToken",
 "outputToken": "NextToken",
 "pageSize": "MaxResults",
 "items": "Subscriptions"
 }
 }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsRequest": {
 "type": "structure",
 "members": {
 "Filters": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList",
 "traits": {
 "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those that match one or\n more sets of key-value pairs that you specify. For example, you can filter by the name of\n <code>Subscription</code> with an optional operator to see subscriptions that match,\n partially match, or don't match a certain subscription's name.</p>\n <p>The valid names for this filter are:</p>\n \n \n <p>\n <code>Subscription</code>\n </p>\n \n \n <p>The valid Operators for this filter are:</p>\n \n \n <p>\n <code>contains</code>\n </p>\n \n \n <p>\n <code>equals</code>\n </p>\n \n \n <p>\n <code>NotEqual</code>\n </p>\n \n "
 }
 },
 "MaxResults": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger",
 "traits": {
 "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
 }
 }
 }
}

```

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 },
 "NextToken": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the
next set of results.</p>",
 "smithy.api#length": {
 "min": 1,
 "max": 16384
 }
 }
 }
 },
 "traits": {
 "smithy.api#documentation": "NextToken length limit is half of ddb accepted limit.\nIncrease this limit if
parameters in request increases."
 }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsResponse": {
 "type": "structure",
 "members": {
 "Subscriptions": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionList",
 "traits": {
 "smithy.api#documentation": "<p>An array that contains subscription objects.</p>"
 }
 },
 "NextToken": {
 "target": "smithy.api#String",

"traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Operator": {
 "type": "string",
 "traits": {
 "smithy.api#enum": [
 {
 "name": "EQUAL",
 "value": "Equal",
 "documentation": "Equal operator"
 },
 {
 "name": "NOT_EQUAL",
 "value": "NotEqual",

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 "documentation": "Not equal operator"
 },
 {
 "name": "CONTAINS",
 "value": "Contains",
 "documentation": "Contains operator"
 }
],
"smithy.api#length": {
 "min": 1,
 "max": 20
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#OrganizationIntegration": {
 "type": "string",
 "traits": {
 "smithy.api#enum": [
 {
 "name": "Enabled",
 "value": "Enabled",
 "documentation": "Enabled OrganizationIntegration"
 },
 {
 "name": "Disabled",
 "value": "Disabled",
 "documentation": "Disabled OrganizationIntegration"
 }
]
 }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ProductCodeList": {
 "type": "list",
 "member": {
 "target": "smithy.api#String"
 }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Status": {
 "type": "string",
 "traits": {
 "smithy.api#enum": [
 {
 "name": "InProgress",
 "value": "InProgress",
 "documentation": "InProgress status"
 },
 {
 "name": "Completed",

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 "value": "Completed",
 "documentation": "Completed status"
 },
 {
 "name": "Successful",
 "value": "Successful",
 "documentation": "Successful status"
 },
 {
 "name": "Failed",
 "value": "Failed",
 "documentation": "Failed status"
 }
]
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#StringList": {
 "type": "list",
 "member":
{
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#length": {
 "min": 1,
 "max": 100
 }
 }
},
"traits": {
 "smithy.api#length": {
 "min": 1,
 "max": 100
 },
 "smithy.api#uniqueItems": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#StringMap": {
 "type": "map",
 "key": {
 "target": "smithy.api#String"
 },
 "value": {
 "target": "smithy.api#String"
 }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Subscription": {
 "type": "structure",
 "members": {

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 "Name": {
 "target": "smithy.api#String",
 "traits": {

"smithy.api#documentation": "<p>The name of the subscription.</p>"
 }
 },
 "Type": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The type of subscription. The type can be subscription-included
with Amazon EC2, Bring Your Own\n Subscription model (BYOS), or from the Amazon Web Services
Marketplace. Certain subscriptions may use licensing from the\n Amazon Web Services Marketplace as well as
OS licensing from Amazon EC2 or BYOS.</p>"
 }
 },
 "InstanceCount": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxLong",
 "traits": {
 "smithy.api#documentation": "<p>The total amount of running instances using this subscription.</p>"
 }
 }
 },
 "traits": {

"smithy.api#documentation": "<p>An object which details a discovered Linux subscription.</p>"
 }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Subscription"
 }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException": {
 "type": "structure",
 "members": {
 "message": {
 "target": "smithy.api#String"
 }
 }
},
"traits": {
 "smithy.api#documentation": "<p>The request was denied due to request throttling.</p>",
 "smithy.api#error": "client"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettings": {
 "type": "operation",

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"input": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsRequest"
},
"output": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsResponse"
},
"errors": [
 {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerErrorException"
 },
 {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
 },
 {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
 }
],
"traits": {
 "smithy.api#documentation": "<p>Updates the service settings for Linux subscriptions.</p>",
 "smithy.api#http": {
 "code": 200,
 "method": "POST",
 "uri": "/subscription/UpdateServiceSettings"
 },

"smithy.api#idempotent": {}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsRequest": {
 "type": "structure",
 "members": {
 "LinuxSubscriptionsDiscovery": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
 "traits": {
 "smithy.api#documentation": "<p>Describes if the discovery of Linux subscriptions is enabled.</p>",
 "smithy.api#required": {}
 }
 },
 "LinuxSubscriptionsDiscoverySettings": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
 "traits": {
 "smithy.api#documentation": "<p>The settings defined for Linux subscriptions discovery. The settings include if Organizations\n integration has been enabled, and which Regions data will be aggregated from.</p>",
 "smithy.api#required": {}
 }
 },
 "AllowUpdate": {

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 "target": "smithy.api#Boolean",
 "traits": {
 "smithy.api#documentation": "<p>Describes if updates are allowed to the service settings for Linux
subscriptions. If you\n allow updates, you can aggregate Linux subscription data in more than one home
Region.</p>"
 }
 }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsResponse": {
 "type": "structure",
 "members": {
 "LinuxSubscriptionsDiscovery": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
 "traits": {
 "smithy.api#documentation": "<p>Lists if discovery has been enabled
for Linux subscriptions.</p>"
 }
 },
 "LinuxSubscriptionsDiscoverySettings": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
 "traits": {
 "smithy.api#documentation": "<p>The settings defined for Linux subscriptions discovery. The
settings include if Organizations\n integration has been enabled, and which Regions data will be aggregated
from.</p>"
 }
 },
 "Status": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Status",
 "traits": {
 "smithy.api#documentation": "<p>Indicates the status of Linux subscriptions settings being
applied.</p>"
 }
 },
 "StatusMessage": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap",
 "traits": {
 "smithy.api#documentation": "<p>A message which details the Linux subscriptions service settings
current status.</p>"
 }
 },
 "HomeRegions": {
 "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
 "traits": {
 "smithy.api#documentation": "<p>The Region in which License Manager displays the aggregated
data for Linux\n subscriptions.</p>"
 }
 }
 }
}

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 }
 },
 "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException": {
 "type": "structure",
 "members": {
 "message": {
 "target": "smithy.api#String"
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>The provided input is not valid. Try your request again.</p>",
 "smithy.api#error":
"client"
 }
 }
}
}
{
 "smithy": "2.0",
 "shapes": {
 "com.amazonaws.licensemanageruserssubscriptions#AccessDeniedException": {
 "type": "structure",
 "members": {
 "message": {
 "target": "smithy.api#String"
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>You don't have sufficient access to perform this action.</p>",
 "smithy.api#error": "client"
 }
 },
 "com.amazonaws.licensemanageruserssubscriptions#ActiveDirectoryIdentityProvider": {
 "type": "structure",
 "members": {
 "DirectoryId": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The directory ID for an Active Directory identity provider.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#documentation":
"<p>Details about an Active Directory identity provider.</p>"
 }
 },
 "com.amazonaws.licensemanageruserssubscriptions#AssociateUser": {

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"type": "operation",
"input": {
 "target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUserRequest"
},
"output": {
 "target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUserResponse"
},
"errors": [
 {
 "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
 },
 {
 "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerErrorException"
 },
 {
 "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
 },
 {
 "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
 },
 {
 "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
 },
 {
 "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
 }
],
"traits": {
 "smithy.api#documentation": "<p>Associates the user to an EC2 instance to utilize user-based
subscriptions.</p>\n <note>\n <p>Your estimated bill for charges on the number of users and related
costs will take 48\n hours to appear for billing periods that haven't closed (marked as Pending billing
status) in Amazon Web Services Billing. For more information, see Viewing your\n
monthly charges in the <i>Amazon Web Services Billing User Guide</i>.</p>\n </note>",
 "smithy.api#http": {
 "code": 200,
 "method": "POST",
 "uri": "/user/AssociateUser"
 },
 "smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#AssociateUserRequest": {
 "type": "structure",
 "members": {

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"Username": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
 "smithy.api#required": {}
 }
},
"InstanceId": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The ID of the
EC2 instance, which provides user-based subscriptions.</p>",
 "smithy.api#required": {}
 }
},
"IdentityProvider": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#IdentityProvider",
 "traits": {
 "smithy.api#documentation": "<p>The identity provider of the user.</p>",
 "smithy.api#required": {}
 }
},
"Domain": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The domain name of the user.</p>"
 }
}
},
"com.amazonaws.licenseanagerusersubscriptions#AssociateUserResponse": {
 "type": "structure",
 "members": {
 "InstanceUserSummary": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#InstanceUserSummary",
 "traits": {
 "smithy.api#documentation": "<p>Metadata that describes the associate user operation.</p>",
 "smithy.api#required": {}
 }
 }
 }
},
"com.amazonaws.licenseanagerusersubscriptions#BoxInteger": {
 "type": "integer"
},
"com.amazonaws.licenseanagerusersubscriptions#ConflictException": {
 "type": "structure",
 "members": {

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 "message": {
 "target": "smithy.api#String"
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>The request couldn't be completed because it conflicted with the current
state of the\n resource.</p>",
 "smithy.api#error": "server"
 }
},
"com.amazonaws.licenseanagerusersubscriptions#DeregisterIdentityProvider":
{
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#DeregisterIdentityProviderRequest"
 },
 "output": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#DeregisterIdentityProviderResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ConflictException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#InternalServerErrorException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ResourceNotFoundException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ServiceQuotaExceededException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ThrottlingException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Deregisters the identity provider from providing user-based
subscriptions.</p>",
 "smithy.api#http": {
 "code": 200,
 "method": "POST",

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 "uri": "/identity-provider/DeregisterIdentityProvider"
 },
 "smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderRequest": {
 "type": "structure",
 "members": {
 "IdentityProvider": {
 "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
 "traits": {
 "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
 "smithy.api#required": {}
 }
 },
 "Product": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
 "smithy.api#required": {}
 }
 }
 }
},
"com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderResponse": {
 "type": "structure",
 "members": {
 "IdentityProviderSummary": {
 "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
 "traits": {
 "smithy.api#documentation":
 "<p>Metadata that describes the results of an identity provider operation.</p>",
 "smithy.api#required": {}
 }
 }
 }
},
"com.amazonaws.licensemanagerusersubscriptions#DisassociateUser": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
 }
]
}

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 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ConflictException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#InternalServerErrorException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ResourceNotFoundException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ServiceQuotaExceededException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ThrottlingException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Disassociates the user from an EC2 instance providing user-based
subscriptions.</p>",
 "smithy.api#http": {
 "code": 200,
 "method": "POST",
 "uri": "/user/DisassociateUser"
 },
 "smithy.api#idempotent": {}
 }
},
"com.amazonaws.licenseanagerusersubscriptions#DisassociateUserRequest": {
 "type": "structure",
 "members": {
 "Username": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
 "smithy.api#required": {}
 }
 },
 "InstanceId": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
 "smithy.api#required": {}
 }
 }
 }
}

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```

 }
 },
 "IdentityProvider": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#IdentityProvider",
 "traits": {
 "smithy.api#documentation":
"<p>An object that specifies details for the identity provider.</p>",
 "smithy.api#required": {}
 }
 },
 "Domain": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The domain name of the user.</p>"
 }
 }
},
"com.amazonaws.licenseanagerusersubscriptions#DisassociateUserResponse": {
 "type": "structure",
 "members": {
 "InstanceUserSummary": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#InstanceUserSummary",
 "traits": {
 "smithy.api#documentation": "<p>Metadata that describes the associate user operation.</p>",
 "smithy.api#required": {}
 }
 }
 }
},
"com.amazonaws.licenseanagerusersubscriptions#Filter": {
 "type": "structure",
 "members": {
 "Attribute": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The name of an attribute to use as a filter.</p>"
 }
 },
 "Operation": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The type of search (For example, eq, geq, leq)</p>"
 }
 },
 "Value": {
 "target": "smithy.api#String",

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```

 "traits": {
 "smithy.api#documentation": "<p>Value of the filter.</p>"
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>A filter name and value pair that is used
to return more specific results from a describe\n operation. Filters can be used to match a set of resources by
specific criteria, such as tags,\n attributes, or IDs.</p>"
 }
},
"com.amazonaws.licensemanagerusersubscriptions#FilterList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanagerusersubscriptions#Filter"
 }
},
"com.amazonaws.licensemanagerusersubscriptions#IdentityProvider": {
 "type": "union",
 "members": {
 "ActiveDirectoryIdentityProvider": {
 "target": "com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryIdentityProvider",
 "traits": {
 "smithy.api#documentation": "<p>An object that details an Active Directory identity provider.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#documentation":
"<p>Details about an identity provider.</p>"
 }
},
"com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary": {
 "type": "structure",
 "members": {
 "IdentityProvider": {
 "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
 "traits": {
 "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
 "smithy.api#required": {}
 }
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 },
 "Settings": {
 "target": "com.amazonaws.licensemanagerusersubscriptions#Settings",
 "traits": {
 "smithy.api#documentation": "<p>An object that details the registered identity providers product
related configuration\n settings such as the subnets to provision VPC endpoints.</p>",
 "smithy.api#required":

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{}
 }
},
"Product": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
 "smithy.api#required": {}
 }
},
"Status": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The status of an identity provider.</p>",
 "smithy.api#required": {}
 }
},
"FailureMessage": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The failure message associated with an identity provider.</p>"
 }
},
"traits": {
 "smithy.api#documentation":
"<p>Describes an identity provider.</p>"
}
},
"com.amazonaws.licenseanagerusersubscriptions#IdentityProviderSummaryList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#IdentityProviderSummary"
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},
"com.amazonaws.licenseanagerusersubscriptions#InstanceSummary": {
 "type": "structure",
 "members": {
 "InstanceId": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
 "smithy.api#required": {}
 }
 }
 }
},
"Status": {
 "target": "smithy.api#String",

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 "traits": {
 "smithy.api#documentation": "<p>The status
of an EC2 instance resource.</p>",
 "smithy.api#required": {}
 }
 },
 "Products": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#StringList",
 "traits": {
 "smithy.api#documentation": "<p>A list of provided user-based subscription products.</p>",
 "smithy.api#required": {}
 }
 },
 "LastStatusCheckDate": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The date of the last status check.</p>"
 }
 },
 "StatusMessage": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The status message for an EC2 instance.</p>"
 }
 }
}
},
"traits": {
 "smithy.api#documentation": "<p>Describes an EC2 instance providing user-based subscriptions.</p>"
}
},
"com.amazonaws.licenseanagerusersubscriptions#InstanceSummaryList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#InstanceSummary"
 }
},
"com.amazonaws.licenseanagerusersubscriptions#InstanceUserSummary": {
 "type": "structure",
 "members": {
 "Username": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
 "smithy.api#required": {}
 }
 }
 },
 "InstanceId": {

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 "target": "smithy.api#String",
 "traits":
 {
 "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
 "smithy.api#required": {}
 }
},
"IdentityProvider": {
 "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
 "traits": {
 "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
 "smithy.api#required": {}
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"Status": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The status of a user associated with an EC2 instance.</p>",
 "smithy.api#required": {}
 }
},
"StatusMessage": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The status message for users of an EC2 instance.</p>"
 }
},
"Domain": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The domain name of the user.</p>"
 }
},
"AssociationDate": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The date a user was associated with an EC2 instance.</p>"
 }
},
"DisassociationDate": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The date a user was disassociated from an EC2 instance.</p>"
 }
}
}

```

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},
 "traits": {
 "smithy.api#documentation": "<p>Describes users of an EC2 instance providing user-based
subscriptions.</p>"
 }
},
"com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummaryList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary"
 }
},
"com.amazonaws.licensemanagerusersubscriptions#InternalServerError": {
 "type": "structure",
 "members": {
 "message": {
 "target": "smithy.api#String"
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>An exception occurred with the service.</p>",
 "smithy.api#error": "server"
 }
},
"com.amazonaws.licensemanagerusersubscriptions#LicenseManagerUserSubscriptions": {
 "type": "service",

"version": "2018-05-10",
"operations": [
 {
 "target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUser"
 },
 {
 "target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProvider"
 },
 {
 "target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUser"
 },
 {
 "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProviders"
 },
 {
 "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstances"
 },
 {
 "target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptions"
 },
 {

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```

 "target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociations"
 },
 {
 "target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProvider"
 },
 {
 "target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscription"
 },
 {
 "target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscription"
 },
 {
 "target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettings"
 }
],
"traits": {
 "aws.api#service": {
 "sdkId": "License Manager User Subscriptions",
 "arnNamespace": "license-manager-user-subscriptions",
 "cloudTrailEventSource": "license-manager-user-subscriptions.amazonaws.com"
 },
 "aws.auth#sigv4": {
 "name": "license-manager-user-subscriptions"
 },
 "aws.protocols#restJson1": {},
 "smithy.api#cors": {
 "additionalAllowedHeaders": [
 "*",
 "content-type",
 "x-amz-content-sha256",
 "x-amz-user-agent",
 "x-amzn-platform-id",
 "x-amzn-trace-id",
 "content-length",
 "x-api-key",
 "authorization",
 "x-amz-date",
 "x-amz-security-token",
 "Access-Control-Allow-Headers",
 "Access-Control-Allow-Methods",
 "Access-Control-Allow-Origin"
],
 "additionalExposedHeaders": [
 "x-amzn-errortype",
 "x-amzn-requestid",
 "x-amzn-trace-id"
]
 }
}

```



```

]
 },
 "smithy.api#documentation": "<p>With License Manager, you can create user-based subscriptions to
utilize licensed software with a per user subscription fee on Amazon EC2 instances.</p>",
 "smithy.api#title": "AWS License Manager User Subscriptions",
 "smithy.rules#endpointRuleSet": {
 "version": "1.0",
 "parameters": {
 "Region": {
 "builtIn": "AWS::Region",
 "required": false,
 "documentation": "The AWS region used to dispatch the request.",
 "type": "String"
 },
 "UseDualStack": {
 "builtIn": "AWS::UseDualStack",
 "required": true,
 "default": false,
 "documentation": "When true, use the dual-stack
endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
 "type": "Boolean"
 },
 "UseFIPS": {
 "builtIn": "AWS::UseFIPS",
 "required": true,
 "default": false,
 "documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the
configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
 "type": "Boolean"
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 "Endpoint": {
 "builtIn": "SDK::Endpoint",
 "required": false,
 "documentation": "Override the endpoint used to send this request",
 "type": "String"
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 "argv": [
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 "ref": "Endpoint"
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```

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 "rules": [
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 "conditions": [
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 "fn": "booleanEquals",
 "argv": [
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 "ref": "UseDualStack"
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],
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 "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
 "type": "error"
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 "conditions": [],
 "endpoint": {
 "url": {
 "ref": "Endpoint"
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 "properties": {},
 "headers": {}
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 "conditions": [
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 "argv": [
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 "ref": "Region"
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 "argv": [
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 "ref": "Region"
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 "assign": "PartitionResult"
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 "type": "tree",
 "rules": [
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 "conditions": [
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 "fn": "booleanEquals",
 "argv": [
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 "ref": "UseFIPS"
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]
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]
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]
}

```

```

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 "ref": "UseDualStack"
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 "argv": [
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 "supportsFIPS"
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 "argv": [
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 "fn": "getAttr",
 "argv": [
 {
 "ref": "PartitionResult"
 },
 "supportsDualStack"
]
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 }
]

```

```

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 "rules": [
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 "conditions": [],
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 "url": "https://license-manager-user-subscriptions-
fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
 "properties": {},
 "headers": {}
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 "type": "endpoint"
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]
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 "error": "FIPS and DualStack are enabled, but this partition does not support
one or both",
 "type": "error"
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 "conditions": [
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 "fn": "booleanEquals",
 "argv": [
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 "ref": "UseFIPS"
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"type": "tree",
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 "argv": [
 {
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 }
],
 "supportsFIPS"
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]
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 "rules": [
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fips.{Region}.{PartitionResult#dnsSuffix}",
 "properties": {},
 "headers": {}
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 "type": "endpoint"
 }
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 }
]
 },
 {
 "conditions": [],
 "error": "FIPS is enabled but this partition does not support FIPS",
 "type": "error"
 }
]
}

```

```

]
 },
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 "argv": [
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 "ref": "UseDualStack"
 },
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 "conditions": [
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 "argv": [
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 "fn": "getAttr",
 "argv": [
 {
 "ref": "PartitionResult"
 },
 "supportsDualStack"
]
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 }
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 "rules": [
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 "conditions": [],
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 "rules": [
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 "conditions": [],
 "endpoint": {
 "url": "https://license-manager-user-
subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",

```

```

 "properties": {},

 "headers": {}
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 "type": "endpoint"
}
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}
],
{
 "conditions": [],
 "error": "DualStack is enabled but this partition does not support DualStack",
 "type": "error"
}
]
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 "conditions": [],
 "type": "tree",
 "rules": [
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 "conditions": [],
 "endpoint": {
 "url": "https://license-manager-user-
subscriptions.{Region}.{PartitionResult#dnsSuffix}",
 "properties": {},
 "headers": {}
 },
 "type": "endpoint"
 }
]
}
]
},
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 "conditions": [],
 "error": "Invalid Configuration: Missing Region",
 "type": "error"
}
]
}
]
},
"smithy.rules#endpointTests": {

```



```

"testCases": [
 {
 "documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
 "expect": {
 "endpoint": {

"url": "https://license-manager-user-subscriptions-fips.us-east-1.api.aws"
 }
 },
 "params": {
 "Region": "us-east-1",
 "UseDualStack": true,
 "UseFIPS": true
 }
 },
 {
 "documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-user-subscriptions-fips.us-east-1.amazonaws.com"
 }
 },
 "params": {
 "Region": "us-east-1",
 "UseDualStack": false,
 "UseFIPS":
true
 }
 },
 {
 "documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-user-subscriptions.us-east-1.api.aws"
 }
 },
 "params": {
 "Region": "us-east-1",
 "UseDualStack": true,
 "UseFIPS": false
 }
 },
 {
 "documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-user-subscriptions.us-east-1.amazonaws.com"
 }
 }
 }
]

```

```

 }
 },
 "params": {
 "Region": "us-east-1",
 "UseDualStack": false,
 "UseFIPS": false
 }
},
{
 "documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-user-subscriptions-fips.cn-north-
1.api.amazonwebservices.com.cn"
 }
 },
 "params": {
 "Region": "cn-north-1",
 "UseDualStack": true,
 "UseFIPS": true
 }
},
{
 "documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-user-subscriptions-fips.cn-north-1.amazonaws.com.cn"
 }
 },
 "params": {
 "Region": "cn-north-1",
 "UseDualStack": false,
 "UseFIPS": true
 }
},
{
 "documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-user-subscriptions.cn-north-1.api.amazonwebservices.com.cn"
 }
 },
 "params": {
 "Region": "cn-north-1",
 "UseDualStack": true,
 "UseFIPS": false
 }
}

```

```

},
{
 "documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-user-subscriptions.cn-north-1.amazonaws.com.cn"
 }
 },
 "params": {
 "Region": "cn-north-1",
 "UseDualStack": false,
 "UseFIPS": false
 }
},
{
 "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-user-subscriptions-fips.us-gov-east-1.api.aws"
 }
 },
 "params": {
 "Region": "us-gov-east-1",
 "UseDualStack": true,
 "UseFIPS": true
 }
},
{
 "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-user-subscriptions-fips.us-gov-east-1.amazonaws.com"
 }
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 "Region": "us-gov-east-1",
 "UseDualStack": false,
 "UseFIPS": true
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},
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 "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack enabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-user-subscriptions.us-gov-east-1.api.aws"
 }
 },

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 "params": {
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 "UseFIPS": false
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 "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
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 "url": "https://license-manager-user-subscriptions.us-gov-east-1.amazonaws.com"
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 "params": {
 "Region": "us-gov-east-1",
 "UseDualStack": false,
 "UseFIPS": false
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 "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-user-subscriptions-fips.us-iso-east-1.c2s.ic.gov"
 }
 },
 "params": {
 "Region": "us-iso-east-1",
 "UseDualStack": false,
 "UseFIPS": true
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 },
 {
 "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-user-subscriptions.us-iso-east-1.c2s.ic.gov"
 }
 },
 "params": {
 "Region": "us-iso-east-1",
 "UseDualStack": false,
 "UseFIPS": false
 }
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```

"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
"expect": {
 "endpoint": {
 "url": "https://license-manager-user-subscriptions-fips.us-isob-east-1.sc2s.sgov.gov"
 }
},
"params": {
 "Region": "us-isob-east-1",
 "UseDualStack": false,
 "UseFIPS": true
}
},
{
"documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
"expect": {
 "endpoint": {
 "url": "https://license-manager-user-subscriptions.us-isob-east-1.sc2s.sgov.gov"
 }
},
"params": {
 "Region": "us-isob-east-1",
 "UseDualStack": false,
 "UseFIPS": false
}
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{
"documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
"expect": {
 "endpoint": {
 "url": "https://example.com"
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},
"params": {
 "Region": "us-east-1",
 "UseDualStack": false,
 "UseFIPS": false,
 "Endpoint":
"https://example.com"
}
},
{
"documentation": "For custom endpoint with region not set and fips disabled and dualstack
disabled",
"expect": {
 "endpoint": {
 "url": "https://example.com"
 }
},

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```

 "params": {
 "UseDualStack": false,
 "UseFIPS": false,
 "Endpoint": "https://example.com"
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 "documentation": "For custom endpoint with fips enabled and dualstack disabled",
 "expect": {
 "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
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 "params": {
 "Region": "us-east-1",
 "UseDualStack": false,
 "UseFIPS": true,
 "Endpoint": "https://example.com"
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 "documentation": "For custom endpoint with fips disabled and dualstack enabled",
 "expect": {
 "error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
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 "params": {
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 "UseDualStack": true,
 "UseFIPS": false,
 "Endpoint": "https://example.com"
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],
 "version": "1.0"
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListIdentityProviders": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
 }
],
}

```

```

 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ConflictException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#InternalServerErrorException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ResourceNotFoundException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ServiceQuotaExceededException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ThrottlingException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Lists the identity providers for user-based subscriptions.</p>",
 "smithy.api#http": {
 "code": 200,
 "method": "POST",
 "uri": "/identity-provider/ListIdentityProviders"
 },
 "smithy.api#paginated": {
 "inputToken": "NextToken",
 "outputToken": "NextToken",
 "pageSize":
"MaxResults",
 "items": "IdentityProviderSummaries"
 }
 },
 "com.amazonaws.licenseanagerusersubscriptions#ListIdentityProvidersRequest": {
 "type": "structure",
 "members": {
 "MaxResults": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#BoxInteger",
 "traits": {
 "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
 }
 },
 "NextToken": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 }
 }
 }
}

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```

 }
 }
},
"com.amazonaws.licenseanagerusersubscriptions#ListIdentityProvidersResponse": {
 "type": "structure",
 "members": {

 "IdentityProviderSummaries": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#IdentityProviderSummaryList",
 "traits": {
 "smithy.api#documentation": "<p>Metadata that describes the list identity providers operation.</p>",
 "smithy.api#required": {}
 }
 },
 "NextToken": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 }
 }
},
"com.amazonaws.licenseanagerusersubscriptions#ListInstances": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ListInstancesRequest"
 },
 "output": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ListInstancesResponse"
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 "target": "com.amazonaws.licenseanagerusersubscriptions#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ConflictException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#InternalServerErrorException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ResourceNotFoundException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ServiceQuotaExceededException"
 },
 {

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 "target": "com.amazonaws.licenseanagerusersubscriptions#ThrottlingException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ValidationException"
 }
],
"traits": {
 "smithy.api#documentation": "<p>Lists the EC2 instances providing user-based subscriptions.</p>",
 "smithy.api#http": {
 "code": 200,
 "method": "POST",
 "uri": "/instance/ListInstances"
 },
 "smithy.api#paginated": {
 "inputToken": "NextToken",
 "outputToken": "NextToken",
 "pageSize": "MaxResults",
 "items": "InstanceSummaries"
 }
}
},
"com.amazonaws.licenseanagerusersubscriptions#ListInstancesRequest": {
 "type": "structure",
 "members": {
 "MaxResults": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#BoxInteger",
 "traits": {
 "smithy.api#documentation": "<p>Maximum number
of results to return in a single call.</p>"
 }
 },
 "NextToken": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 },
 "Filters": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#FilterList",
 "traits": {
 "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those
that match one or\n more sets of key-value pairs that you specify.</p>"
 }
 }
 }
},
"com.amazonaws.licenseanagerusersubscriptions#ListInstancesResponse": {
 "type": "structure",

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"members": {
 "InstanceSummaries": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#InstanceSummaryList",
 "traits": {
 "smithy.api#documentation": "<p>Metadata that describes the list instances operation.</p>"
 }
 },
 "NextToken": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 }
},
"com.amazonaws.licenseanagerusersubscriptions#ListProductSubscriptions": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ListProductSubscriptionsRequest"
 },
 "output": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ListProductSubscriptionsResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ConflictException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#InternalServerErrorException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ResourceNotFoundException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ServiceQuotaExceededException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ThrottlingException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Lists the user-based

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subscription products available from an identity provider.</p>

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"smithy.api#http": {
 "code": 200,
 "method": "POST",
 "uri": "/user/ListProductSubscriptions"
},
"smithy.api#paginated": {
 "inputToken": "NextToken",
 "outputToken": "NextToken",
 "pageSize": "MaxResults",
 "items": "ProductUserSummaries"
}
},
"com.amazonaws.licenseanagerusersubscriptions#ListProductSubscriptionsRequest": {
 "type": "structure",
 "members": {
 "Product": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
 "smithy.api#required": {}
 }
 },
 "IdentityProvider": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#IdentityProvider",
 "traits": {
 "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
 "smithy.api#required": {}
 }
 },
 "MaxResults": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#BoxInteger",
 "traits": {
 "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
 }
 },
 "Filters": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#FilterList",
 "traits": {
 "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those
that match one or\n more sets
of key-value pairs that you specify.</p>"
 }
 },
 "NextToken": {
 "target": "smithy.api#String",
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 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 },
 "com.amazonaws.licenseanagerusersubscriptions#ListProductSubscriptionsResponse": {
 "type": "structure",
 "members": {
 "ProductUserSummaries": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ProductUserSummaryList",
 "traits": {
 "smithy.api#documentation": "<p>Metadata that describes the list product subscriptions
operation.</p>"
 }
 },
 "NextToken": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation":
"<p>Token for the next set of results.</p>"
 }
 }
 }
 },
 "com.amazonaws.licenseanagerusersubscriptions#ListUserAssociations": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ListUserAssociationsRequest"
 },
 "output": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ListUserAssociationsResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ConflictException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#InternalServerErrorException"
 },
 {
 "target":
"com.amazonaws.licenseanagerusersubscriptions#ResourceNotFoundException"
 }
]
 }
}

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 "target": "com.amazonaws.licenseanagerusersubscriptions#ServiceQuotaExceededException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ThrottlingException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ValidationException"
 }
],
"traits": {
 "smithy.api#documentation": "<p>Lists user associations for an identity provider.</p>",
 "smithy.api#http": {
 "code": 200,
 "method": "POST",
 "uri": "/user/ListUserAssociations"
 },
 "smithy.api#paginated": {
 "inputToken": "NextToken",
 "outputToken": "NextToken",
 "pageSize":
"MaxResults",
 "items": "InstanceUserSummaries"
 }
},
"com.amazonaws.licenseanagerusersubscriptions#ListUserAssociationsRequest": {
 "type": "structure",
 "members": {
 "InstanceId": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
 "smithy.api#required": {}
 }
 },
 "IdentityProvider": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#IdentityProvider",
 "traits": {
 "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
 "smithy.api#required": {}
 }
 }
 },
 "MaxResults":
{
 "target": "com.amazonaws.licenseanagerusersubscriptions#BoxInteger",
 "traits": {
 "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
 }
 }
}

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 }
 },
 "Filters": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#FilterList",
 "traits": {
 "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those
that match one or\n more sets of key-value pairs that you specify.</p>"
 }
 },
 "NextToken": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 }
},
"com.amazonaws.licenseanagerusersubscriptions#ListUserAssociationsResponse":
{
 "type": "structure",
 "members": {
 "InstanceUserSummaries": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#InstanceUserSummaryList",
 "traits": {
 "smithy.api#documentation": "<p>Metadata that describes the list user association operation.</p>"
 }
 },
 "NextToken": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 }
 }
},
"com.amazonaws.licenseanagerusersubscriptions#ProductUserSummary": {
 "type": "structure",
 "members": {
 "Username": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation":
"<p>The user name from the identity provider of the user.</p>",
 "smithy.api#required": {}
 }
 },
 "Product": {
 "target": "smithy.api#String",

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 "traits": {
 "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
 "smithy.api#required": {}
 }
 },
 "IdentityProvider": {
 "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
 "traits": {
 "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
 "smithy.api#required": {}
 }
 },
 "Status": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The status of a product for a user.</p>",
 "smithy.api#required": {}
 }
 },
 "StatusMessage": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The status message for a product for a user.</p>"
 }
 },
 "Domain": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The domain name of the user.</p>"
 }
 },
 "SubscriptionStartDate": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The start date of a subscription.</p>"
 }
 },
 "SubscriptionEndDate": {
 "target":
"smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The end date of a subscription.</p>"
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>The summary of the user-based subscription products for a user.</p>"
 }

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 }
 },
 "com.amazonaws.licenseanagerusersubscriptions#ProductUserSummaryList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ProductUserSummary"
 }
 },
 "com.amazonaws.licenseanagerusersubscriptions#RegisterIdentityProvider": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#RegisterIdentityProviderRequest"
 },
 "output": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#RegisterIdentityProviderResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ConflictException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#InternalServerErrorException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ResourceNotFoundException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ServiceQuotaExceededException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ThrottlingException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ValidationException"
 }
]
 },
 "traits": {
 "smithy.api#documentation": "<p>Registers an identity provider for user-based subscriptions.</p>",
 "smithy.api#http": {
 "code": 200,
 "method": "POST",
 "uri": "/identity-provider/RegisterIdentityProvider"
 },
 "smithy.api#idempotent": {}
 }
}

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 },
 "com.amazonaws.licenseanagerusersubscriptions#RegisterIdentityProviderRequest": {
 "type": "structure",
 "members": {
 "IdentityProvider": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#IdentityProvider",
 "traits": {
 "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
 "smithy.api#required": {}
 }
 },
 "Product": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
 "smithy.api#required": {}
 }
 },
 "Settings": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#Settings",
 "traits": {
 "smithy.api#documentation": "<p>The registered identity providers product related configuration settings such as the\n subnets to provision VPC endpoints.</p>"
 }
 }
 }
 },
 "com.amazonaws.licenseanagerusersubscriptions#RegisterIdentityProviderResponse": {
 "type": "structure",
 "members": {
 "IdentityProviderSummary": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#IdentityProviderSummary",
 "traits": {
 "smithy.api#documentation": "<p>Metadata that describes the results of an identity provider operation.</p>",
 "smithy.api#required": {}
 }
 }
 }
 },
 "com.amazonaws.licenseanagerusersubscriptions#ResourceNotFoundException": {
 "type": "structure",
 "members": {
 "message": {
 "target": "smithy.api#String"
 }
 }
 }
 }

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 },
 "traits": {
 "smithy.api#documentation": "<p>The resource couldn't be found.</p>",
 "smithy.api#error": "client",
 "smithy.api#httpError": 404
 }
 },
 "com.amazonaws.licenseanagerusersubscriptions#SecurityGroup": {
 "type": "string",
 "traits": {
 "smithy.api#length": {
 "min": 5,
 "max": 200
 },
 "smithy.api#pattern": "^sg-(([0-9a-z]{8})([0-9a-z]{17}))$"
 }
 },
 "com.amazonaws.licenseanagerusersubscriptions#ServiceQuotaExceededException": {
 "type": "structure",
 "members": {
 "message": {
 "target": "smithy.api#String"
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>The request failed because a service quota is exceeded.</p>",
 "smithy.api#error": "client"
 }
 },
 "com.amazonaws.licenseanagerusersubscriptions#Settings": {
 "type": "structure",
 "members": {
 "Subnets": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#Subnets",
 "traits": {
 "smithy.api#documentation": "<p>The subnets defined for the registered identity provider.</p>",
 "smithy.api#length": {
 "min": 1
 },
 "smithy.api#required": {}
 }
 },
 "SecurityGroupId": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#SecurityGroup",
 "traits": {
 "smithy.api#documentation": "<p>A security group ID that allows inbound TCP port 1688 communication between resources in\n your VPC and the VPC endpoint for activation servers.</p>",

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 "smithy.api#required": {}
 }
},
"traits": {
 "smithy.api#documentation": "<p>The registered identity providers product related configuration settings
such as the\n subnets to provision VPC endpoints, and the security group ID that is associated with the VPC\n
endpoints. The security group should permit inbound TCP port 1688 communication from resources\n
in the VPC.</p>"
}
},
"com.amazonaws.licenseanagerusersubscriptions#StartProductSubscription": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#StartProductSubscriptionRequest"
 },
 "output": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#StartProductSubscriptionResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ConflictException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#InternalServerErrorException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ResourceNotFoundException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ServiceQuotaExceededException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ThrottlingException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Starts a product subscription for a user with the specified identity
provider.</p>\n <note>\n <p>Your estimated bill for charges on the number of users and related costs
will take 48\n hours to appear for billing periods that haven't closed (marked as Pending billing status)
in Amazon Web Services Billing. For more information, see Viewing your\n

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monthly charges in the <i>Amazon Web Services Billing User Guide</i>.</p>\n </note>",
 "smithy.api#http": {
 "code": 200,
 "method": "POST",
 "uri": "/user/StartProductSubscription"
 }
 }
},
"com.amazonaws.licenseanagerusersubscriptions#StartProductSubscriptionRequest": {
 "type": "structure",
 "members": {
 "Username": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The user name from the identity provider of the user.</p>",
 "smithy.api#required": {}
 }
 },
 "IdentityProvider": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#IdentityProvider",
 "traits": {
 "smithy.api#documentation": "<p>An
object that specifies details for the identity provider.</p>",
 "smithy.api#required": {}
 }
 },
 "Product": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
 "smithy.api#required": {}
 }
 },
 "Domain": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The domain name of the user.</p>"
 }
 }
 }
},
"com.amazonaws.licenseanagerusersubscriptions#StartProductSubscriptionResponse": {
 "type": "structure",
 "members": {
 "ProductUserSummary": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ProductUserSummary",
 "traits": {
 "smithy.api#documentation": "<p>Metadata that describes the start product subscription

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operation.</p>",
 "smithy.api#required": {}
 }
}
},
"com.amazonaws.licenseanagerusersubscriptions#StopProductSubscription": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#StopProductSubscriptionRequest"
 },
 "output": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#StopProductSubscriptionResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ConflictException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#InternalServerError"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ResourceNotFoundException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ServiceQuotaExceededException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ThrottlingException"
 },
 {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Stops a product subscription for a user with the specified identity
provider.</p>",
 "smithy.api#http": {
 "code": 200,
 "method": "POST",
 "uri":
"/user/StopProductSubscription"
 }
 }
},

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"com.amazonaws.licenseanagerusersubscriptions#StopProductSubscriptionRequest": {
 "type": "structure",
 "members": {
 "Username": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
 "smithy.api#required": {}
 }
 },
 "IdentityProvider": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#IdentityProvider",
 "traits": {
 "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
 "smithy.api#required": {}
 }
 },
 "Product": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
 "smithy.api#required": {}
 }
 },
 "Domain": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The domain name of the user.</p>"
 }
 }
 }
},
"com.amazonaws.licenseanagerusersubscriptions#StopProductSubscriptionResponse": {
 "type": "structure",
 "members": {
 "ProductUserSummary": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#ProductUserSummary",
 "traits": {
 "smithy.api#documentation": "<p>Metadata that describes the start product subscription operation.</p>",
 "smithy.api#required": {}
 }
 }
 }
},
"com.amazonaws.licenseanagerusersubscriptions#StringList": {
 "type": "list",
 "member": {

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 "target": "smithy.api#String"
 }
},
"com.amazonaws.licensemanagerusersubscriptions#Subnet": {
 "type": "string",
 "traits": {
 "smithy.api#pattern": "subnet-[a-z0-9]{8,17}"
 }
},
"com.amazonaws.licensemanagerusersubscriptions#Subnets": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanagerusersubscriptions#Subnet"
 }
},
"com.amazonaws.licensemanagerusersubscriptions#ThrottlingException": {
 "type": "structure",
 "members": {
 "message": {
 "target": "smithy.api#String"
 }
 },
 "traits": {
 "smithy.api#documentation":
"<p>The request was denied because of request throttling. Retry the request.</p>",
 "smithy.api#error": "client"
 }
},
"com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettings": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerErrorException"
 },
 {
 "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
 },
 {
 "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
 }
]
}

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 }
],
 "traits": {
 "smithy.api#documentation": "<p>Updates additional product configuration settings for the registered
identity\n provider.</p>",
 "smithy.api#http": {
 "code": 200,
 "method": "POST",
 "uri": "/identity-provider/UpdateIdentityProviderSettings"
 },
 "smithy.api#idempotent": {}
 }
},
"com.amazonaws.licenseanagerusersubscriptions#UpdateIdentityProviderSettingsRequest": {
 "type": "structure",
 "members": {
 "IdentityProvider": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#IdentityProvider",
 "traits": {
 "smithy.api#required": {}
 }
 }
 },
 "Product": {
 "target": "smithy.api#String",
 "traits": {
 "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
 "smithy.api#required": {}
 }
 },
 "UpdateSettings": {
 "target": "com.amazonaws.licenseanagerusersubscriptions#UpdateSettings",
 "traits": {
 "smithy.api#documentation": "<p>Updates the registered identity providers product related
configuration settings. You can\n update any combination of settings in a single operation such as the:</p>\n
\n \n <p>Subnets which you want to add to provision VPC endpoints.</p>\n \n
\n <p>Subnets which you want to remove the VPC endpoints from.</p>\n \n
\n <p>Security group ID which permits traffic to the VPC endpoints.</p>\n \n ",
 "smithy.api#required": {}
 }
 }
},
"com.amazonaws.licenseanagerusersubscriptions#UpdateIdentityProviderSettingsResponse": {
 "type": "structure",
 "members": {
 "IdentityProviderSummary": {

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 "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
 "traits": {
 "smithy.api#required": {}
 }
 },
 "com.amazonaws.licensemanagerusersubscriptions#UpdateSettings": {
 "type": "structure",
 "members": {
 "AddSubnets": {
 "target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
 "traits": {
 "smithy.api#documentation":
"

The ID of one or more subnets in which License Manager will create a VPC endpoint for products that\n
require connectivity to activation servers.</p>",
 "smithy.api#required": {}
 }
 },
 "RemoveSubnets": {
 "target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
 "traits": {
 "smithy.api#documentation": "<p>The ID of one or more subnets to remove.</p>",
 "smithy.api#required": {}
 }
 },
 "SecurityGroupId": {
 "target": "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup",
 "traits": {
 "smithy.api#documentation": "<p>A security group ID that allows inbound TCP port 1688\n
communication between resources in\n your VPC and the VPC endpoints for activation servers.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>Updates the registered identity providers product related configuration\n
settings such as\n the subnets to provision VPC endpoints.</p>"
 }
 },
 "com.amazonaws.licensemanagerusersubscriptions#ValidationException": {
 "type": "structure",
 "members": {
 "message": {
 "target": "smithy.api#String"
 }
 },
 "traits": {


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 "smithy.api#documentation": "<p>A parameter is not valid.</p>",
 "smithy.api#error": "client"
 }
}
}
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
 params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version
 *string

```

```

noSmithyDocumentSerde
}

type GetLicenseOutput struct {

// License details.
License *types.License

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if
err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
}

```

```

if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack);
err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "GetLicense",
 }
}

```

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// Code generated by smithy-go-codegen DO NOT EDIT.

```
package grafana
```

```
import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)
```

```
// Removes the Grafana Enterprise license from a workspace.
```

```
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
 if params == nil {
 params = &DisassociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
 return nil, err
 }
}
```

```

out := result.(*DisassociateLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

```

```

type DisassociateLicenseInput struct {

```

```

// The type of license to remove from the workspace.

```

```

//

```

```

// This

```

```

member is required.

```

```

LicenseType types.LicenseType

```

```

// The ID of the workspace to remove the Grafana Enterprise license from.

```

```

//

```

```

// This member is required.

```

```

WorkspaceId *string

```

```

noSmithyDocumentSerde

```

```

}

```

```

type DisassociateLicenseOutput struct {

```

```

// A structure containing information about the workspace.

```

```

//

```

```

// This member is required.

```

```

Workspace *types.WorkspaceDescription

```

```

// Metadata pertaining to the operation's result.

```

```

ResultMetadata middleware.Metadata

```

```

noSmithyDocumentSerde

```

```

}

```

```

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {

```

```

err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{ }, middleware.After)

```

```

if err != nil {

```

```

return err

```

```

}

```

```

err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{ }, middleware.After)

```

```

if err != nil {

```

```

return err

```

```

}

```

```

if err = addSetLoggerMiddleware(stack, options); err != nil {

```

```

return err

```

```

}

```

```

if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {

```

```

return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region: region,
ServiceID: ServiceID,
SigningName: "grafana",
OperationName: "DisassociateLicense",
}
}
}

```

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```
{
 "smithy": "2.0",
 "metadata": {
 "suppressions": [
 {
 "id": "HttpMethodSemantics",
 "namespace": "*"
 },
 {
 "id": "HttpStatusCodeSemantics",
 "namespace": "*"
 }
]
 }
}
```

```

 "id": "PaginatedTrait",
 "namespace": "*"
 },
 {
 "id": "HTTPHeaderTrait",
 "namespace": "*"
 },
 {
 "id": "HttpUriConflict",
 "namespace": "*"
 },
 {
 "id": "Service",
 "namespace": "*"
 }
]
},
"shapes": {
 "com.amazonaws.licensemanager#AWSLicenseManager": {
 "type": "service",
 "version": "2018-08-01",
 "operations": [
 {
 "target": "com.amazonaws.licensemanager#AcceptGrant"
 },
 {
 "target": "com.amazonaws.licensemanager#CheckInLicense"
 },
 {
 "target": "com.amazonaws.licensemanager#CheckoutBorrowLicense"
 },
 {
 "target": "com.amazonaws.licensemanager#CheckoutLicense"
 },
 {
 "target": "com.amazonaws.licensemanager#CreateGrant"
 },
 {
 "target": "com.amazonaws.licensemanager#CreateGrantVersion"
 },
 {
 "target": "com.amazonaws.licensemanager#CreateLicense"
 },
 {
 "target": "com.amazonaws.licensemanager#CreateLicenseConfiguration"
 },
 {

```

```

 "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource"
 },
 {
 "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator"
 },
 {
 "target": "com.amazonaws.licensemanager#CreateLicenseVersion"
 },
 {
 "target": "com.amazonaws.licensemanager#CreateToken"
 },
 {
 "target": "com.amazonaws.licensemanager#DeleteGrant"
 },
 {
 "target": "com.amazonaws.licensemanager#DeleteLicense"
 },
 {
 "target": "com.amazonaws.licensemanager#DeleteLicenseConfiguration"
 },
 {
 "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator"
 },
 {
 "target": "com.amazonaws.licensemanager#DeleteToken"
 },
 {
 "target": "com.amazonaws.licensemanager#ExtendLicenseConsumption"
 },
},
{
 "target": "com.amazonaws.licensemanager#GetAccessToken"
},
{
 "target": "com.amazonaws.licensemanager#GetGrant"
},
{
 "target": "com.amazonaws.licensemanager#GetLicense"
},
{
 "target": "com.amazonaws.licensemanager#GetLicenseConfiguration"
},
{
 "target": "com.amazonaws.licensemanager#GetLicenseConversionTask"
},
{
 "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGenerator"
},

```

```

{
 "target": "com.amazonaws.licensemanager#GetLicenseUsage"
},
{
 "target": "com.amazonaws.licensemanager#GetServiceSettings"
},
{
 "target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration"
},
{
 "target": "com.amazonaws.licensemanager#ListDistributedGrants"
},
{
 "target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations"
},
{
 "target": "com.amazonaws.licensemanager#ListLicenseConfigurations"
},
{
 "target": "com.amazonaws.licensemanager#ListLicenseConversionTasks"
},
{
 "target": "com.amazonaws.licensemanager#ListLicenseManagerReportGenerators"
},
{
 "target": "com.amazonaws.licensemanager#ListLicenses"
},
{
 "target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResource"
},
{
 "target": "com.amazonaws.licensemanager#ListLicenseVersions"
},
{
 "target": "com.amazonaws.licensemanager#ListReceivedGrants"
},
{
 "target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganization"
},
{
 "target": "com.amazonaws.licensemanager#ListReceivedLicenses"
},
{
 "target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganization"
},
{
 "target": "com.amazonaws.licensemanager#ListResourceInventory"
}

```

```

 },
 {
 "target": "com.amazonaws.licensemanager#ListTagsForResource"
 },
 {
 "target": "com.amazonaws.licensemanager#ListTokens"
 },
 {
 "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfiguration"
 },
 {
 "target": "com.amazonaws.licensemanager#RejectGrant"
 },
 {
 "target": "com.amazonaws.licensemanager#TagResource"
 },
 {
 "target": "com.amazonaws.licensemanager#UntagResource"
 },
 {
 "target": "com.amazonaws.licensemanager#UpdateLicenseConfiguration"
 },
 {
 "target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator"
 },
 {
 "target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource"
 },
 {
 "target": "com.amazonaws.licensemanager#UpdateServiceSettings"
 }
],
 "traits": {
 "aws.api#service": {
 "sdkId": "License Manager",
 "arnNamespace": "license-manager",
 "cloudFormationName": "LicenseManager",
 "cloudTrailEventSource": "licensemanager.amazonaws.com",
 "endpointPrefix": "license-manager"
 },
 "aws.auth#sigv4": {
 "name": "license-manager"
 },
 "aws.protocols#awsJson1_1": {},
 "smithy.api#documentation": "<p>License Manager makes it easier to manage licenses from software vendors across multiple \n Amazon Web Services accounts and on-premises servers.</p>",
 "smithy.api#title": "AWS License Manager",
 "smithy.api#xmlNamespace": {

```



```

 "uri": "https://license-manager.amazonaws.com/doc/2018_08_01"
 },
 "smithy.rules#endpointRuleSet": {
 "version": "1.0",
 "parameters": {
 "Region": {
 "builtIn": "AWS::Region",
 "required": false,
 "documentation": "The AWS region used to dispatch the request.",
 "type": "String"
 },
 "UseDualStack": {
 "builtIn": "AWS::UseDualStack",
 "required": true,
 "default": false,
 "documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
 "type": "Boolean"
 },
 "UseFIPS": {
 "builtIn": "AWS::UseFIPS",
 "required": true,
 "default": false,
 "documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
 "type": "Boolean"
 },
 "Endpoint": {
 "builtIn": "SDK::Endpoint",
 "required": false,
 "documentation": "Override the endpoint used to send this request",
 "type": "String"
 }
 }
 },
 "rules": [
 {
 "conditions": [
 {
 "fn": "isSet",
 "argv": [
 {
 "ref": "Endpoint"
 }
]
 }
]
 }
],

```

```

"type": "tree",
"rules": [
 {
 "conditions": [
 {
 "fn": "booleanEquals",
 "argv": [
 {
 "ref": "UseFIPS"
 },
 true
]
 }
],
 "error": "Invalid Configuration: FIPS and custom endpoint are not supported",
 "type": "error"
 },
 {
 "conditions": [],
 "type": "tree",
 "rules": [
 {
 "conditions": [
 {
 "fn": "booleanEquals",
 "argv": [
 {
 "ref": "UseDualStack"
 },
 true
]
 }
],
 "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
 "type": "error"
 },
 {
 "conditions": [],
 "endpoint": {
 "url": {
 "ref": "Endpoint"
 },
 "properties": {},
 "headers": {}
 },
 "type": "endpoint"
 }
]
 }
]

```

```

 }
]
}
],
{
 "conditions": [],
 "type": "tree",
 "rules": [
 {
 "conditions": [
 {
 "fn": "isSet",
 "argv": [
 {
 "ref": "Region"
 }
]
 }
],
 "type": "tree",
 "rules": [
 {
 "conditions": [
 {
 "fn": "aws.partition",
 "argv": [
 {
 "ref": "Region"
 }
]
 }
],
 "assign": "PartitionResult"
 }
],
 "type": "tree",
 "rules": [
 {
 "conditions": [
 {
 "fn": "booleanEquals",
 "argv": [
 {
 "ref": "UseFIPS"
 }
]
 }
]
 }
]
 }
]
}

```

```

true
]
 },
 {
 "fn": "booleanEquals",
 "argv": [
 {
 "ref": "UseDualStack"
 },
 true
]
 }
],
"type": "tree",
"rules": [

{
 "conditions": [
 {
 "fn": "booleanEquals",
 "argv": [
 true,
 {
 "fn": "getAttr",
 "argv": [
 {
 "ref": "PartitionResult"
 }
],
 }
]
 }
],
 "supportsFIPS"
]
 }
],
{
 "fn": "booleanEquals",
 "argv": [
 true,
 {
 "fn": "getAttr",
 "argv": [
 {
 "ref": "PartitionResult"
 },
 "supportsDualStack"
]
 }
]
}

```

```

]
 }
],
"type": "tree",
"rules": [
 {
 "conditions": [],
 "type": "tree",
 "rules": [
 {
 "conditions": [],
 "endpoint": {
 "url": "https://license-manager-
fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
 "properties": {},
 "headers": {}
 },
 "type": "endpoint"
 }
]
 }
]
},
{
 "conditions": [],
 "error": "FIPS and DualStack are enabled, but this partition does not support
one or both",
 "type": "error"
}
],
{
 "conditions": [
 {
 "fn": "booleanEquals",

 "argv": [
 {
 "ref": "UseFIPS"
 },
 true
]
 }
],
 "type": "tree",
 "rules": [
 {

```

```

"conditions": [
 {
 "fn": "booleanEquals",

"argv": [
 true,
 {
 "fn": "getAttr",
 "argv": [
 {
 "ref": "PartitionResult"
 },
 "supportsFIPS"
]
 }
]
}

],
"type": "tree",
"rules": [
 {
 "conditions": [],
 "type": "tree",
 "rules": [
 {
 "conditions": [],
 "endpoint": {
 "url": "https://license-manager-
fips.{Region}.*{PartitionResult#dnsSuffix}",

 "properties": {},

 "headers": {}
 },
 "type": "endpoint"
 }
]
 }
],
{
 "conditions": [],
 "error": "FIPS is enabled but this partition does not support FIPS",
 "type": "error"
}
]
},

```

```

{
 "conditions": [
 {
 "fn": "booleanEquals",
 "argv": [
 {
 "ref": "UseDualStack"
 },
 true
]
 }
],
 "type":
"tree",

 "rules": [
 {
 "conditions": [
 {
 "fn": "booleanEquals",
 "argv": [
 true,
 {
 "fn": "getAttr",
 "argv": [
 {
 "ref": "PartitionResult"
 }
]
 }
]
 }
],
 "type": "tree",
 "rules": [
 {
 "conditions": [],
 "type": "tree",
 "rules": [
 {
 "conditions": [],
 "endpoint": {
 "url": "https://license-
manager.{Region}.{PartitionResult#dualStackDnsSuffix}",
 "properties": {},
 "headers": {}
 }
 }
]
 }
]
 }
]
}

```

```

 },
 "type": "endpoint"
 }
]
}

],
{
 "conditions": [],
 "error": "DualStack is enabled but this partition does not support DualStack",
 "type": "error"
}
]
},
{
 "conditions": [],
 "type": "tree",
 "rules": [
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 "conditions": [],
 "endpoint": {
 "url": "https://license-manager.{Region}.{PartitionResult#dnsSuffix}",
 "properties": {},
 "headers": {}
 },
 "type": "endpoint"
 }
]
}
]
}
]
},
{
 "conditions": [],
 "error": "Invalid Configuration: Missing Region",
 "type": "error"
}
]
}
]
},
"smithy.rules#endpointTests": {
 "testCases": [
 {

```



```

 "documentation": "For region af-south-1 with FIPS disabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager.af-south-1.amazonaws.com"
 }
 },
 "params": {
 "UseFIPS": false,
 "UseDualStack": false,
 "Region": "af-south-1"
 }
 },
 {
 "documentation": "For region ap-east-1 with FIPS disabled
and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager.ap-east-1.amazonaws.com"
 }
 },
 "params": {
 "UseFIPS": false,
 "UseDualStack": false,
 "Region": "ap-east-1"
 }
 },
 {
 "documentation": "For region ap-northeast-1 with FIPS disabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager.ap-northeast-1.amazonaws.com"
 }
 },
 "params": {
 "UseFIPS":
false,
 "UseDualStack": false,
 "Region": "ap-northeast-1"
 }
 },
 {
 "documentation": "For region ap-northeast-2 with FIPS disabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager.ap-northeast-2.amazonaws.com"
 }
 },
 "params": {

```

```

 "UseFIPS": false,
 "UseDualStack": false,
 "Region": "ap-northeast-2"
 }
},
{
 "documentation": "For region ap-northeast-3 with FIPS disabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager.ap-northeast-3.amazonaws.com"
 }
 },
 "params": {
 "UseFIPS": false,
 "UseDualStack": false,
 "Region": "ap-northeast-3"
 }
},
{
 "documentation": "For region ap-south-1 with FIPS disabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager.ap-south-1.amazonaws.com"
 }
 },
 "params": {
 "UseFIPS": false,
 "UseDualStack":
false,
 "Region": "ap-south-1"
 }
},
{
 "documentation": "For region ap-southeast-1 with FIPS disabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager.ap-southeast-1.amazonaws.com"
 }
 },
 "params": {
 "UseFIPS": false,
 "UseDualStack": false,
 "Region": "ap-southeast-1"
 }
},
{
 "documentation": "For region ap-southeast-2 with FIPS disabled and DualStack disabled",

```

```

 "expect": {
 "endpoint":
 {
 "url": "https://license-manager.ap-southeast-2.amazonaws.com"
 }
 },
 "params": {
 "UseFIPS": false,
 "UseDualStack": false,
 "Region": "ap-southeast-2"
 }
 },
 {
 "documentation": "For region ap-southeast-3 with FIPS disabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager.ap-southeast-3.amazonaws.com"
 }
 },
 "params": {
 "UseFIPS": false,
 "UseDualStack": false,
 "Region":
"ap-southeast-3"
 }
 },
 {
 "documentation": "For region ca-central-1 with FIPS disabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager.ca-central-1.amazonaws.com"
 }
 },
 "params": {
 "UseFIPS": false,
 "UseDualStack": false,
 "Region": "ca-central-1"
 }
 },
 {
 "documentation": "For region eu-central-1 with FIPS disabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager.eu-central-1.amazonaws.com"
 }
 },
 "params": {
 "UseFIPS": false,

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 "UseDualStack": false,
 "Region": "eu-central-1"
 }
},
{
 "documentation": "For region eu-north-1 with FIPS disabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager.eu-north-1.amazonaws.com"
 }
 },
 "params": {
 "UseFIPS": false,
 "UseDualStack": false,
 "Region": "eu-north-1"
 }
},
{
 "documentation": "For region eu-south-1 with FIPS disabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager.eu-south-1.amazonaws.com"
 }
 },
 "params": {
 "UseFIPS": false,
 "UseDualStack": false,
 "Region": "eu-south-1"
 }
},
{
 "documentation": "For region eu-west-1 with FIPS disabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager.eu-west-1.amazonaws.com"
 }
 }
},
{
 "params": {
 "UseFIPS": false,
 "UseDualStack": false,
 "Region": "eu-west-1"
 }
},
{
 "documentation": "For region eu-west-2 with FIPS disabled and DualStack disabled",
 "expect": {

```

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 "endpoint": {
 "url": "https://license-manager.eu-west-2.amazonaws.com"
 }
 },
 "params": {
 "UseFIPS": false,
 "UseDualStack": false,
 "Region": "eu-west-2"
 }
},
{
 "documentation": "For
region eu-west-3 with FIPS disabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager.eu-west-3.amazonaws.com"
 }
 },
 "params": {
 "UseFIPS": false,
 "UseDualStack": false,
 "Region": "eu-west-3"
 }
},
{
 "documentation": "For region me-south-1 with FIPS disabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager.me-south-1.amazonaws.com"
 }
 },
 "params": {
 "UseFIPS": false,
 "UseDualStack": false,
 "Region": "me-south-1"
 }
},
{
 "documentation": "For region sa-east-1 with FIPS disabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager.sa-east-1.amazonaws.com"
 }
 },
 "params": {
 "UseFIPS": false,
 "UseDualStack": false,

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 "Region": "sa-east-1"
 }
},
{
 "documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager.us-east-1.amazonaws.com"
 }
 },
 "params": {
 "UseFIPS": false,
 "UseDualStack": false,
 "Region": "us-east-1"
 }
},
{
 "documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-fips.us-east-1.amazonaws.com"
 }
 },
 "params": {
 "UseFIPS": true,
 "UseDualStack":
false,
 "Region": "us-east-1"
 }
},
{
 "documentation": "For region us-east-2 with FIPS disabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager.us-east-2.amazonaws.com"
 }
 },
 "params": {
 "UseFIPS": false,
 "UseDualStack": false,
 "Region": "us-east-2"
 }
},
{
 "documentation": "For region us-east-2 with FIPS enabled and DualStack disabled",
 "expect": {
 "endpoint": {

```

```

"url": "https://license-manager-fips.us-east-2.amazonaws.com"
 }
},
"params": {
 "UseFIPS": true,
 "UseDualStack": false,
 "Region": "us-east-2"
}
},
{
 "documentation": "For region us-west-1 with FIPS disabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager.us-west-1.amazonaws.com"
 }
 },
 "params": {
 "UseFIPS": false,
 "UseDualStack": false,
 "Region": "us-west-1"
 }
}
},
{
 "documentation": "For region us-west-1 with FIPS enabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-fips.us-west-1.amazonaws.com"
 }
 },
 "params": {
 "UseFIPS": true,
 "UseDualStack": false,
 "Region": "us-west-1"
 }
},
{
 "documentation": "For region us-west-2 with FIPS disabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager.us-west-2.amazonaws.com"
 }
 }
},
"params": {
 "UseFIPS": false,
 "UseDualStack": false,

```

```

 "Region": "us-west-2"
 }
},
{
 "documentation": "For region us-west-2 with FIPS enabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-fips.us-west-2.amazonaws.com"
 }
 },
 "params": {
 "UseFIPS": true,
 "UseDualStack": false,
 "Region": "us-west-2"
 }
},
{
 "documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-fips.us-east-1.api.aws"
 }
 },
 "params": {
 "UseFIPS": true,
 "UseDualStack": true,
 "Region": "us-east-1"
 }
},
{
 "documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager.us-east-1.api.aws"
 }
 },
 "params": {
 "UseFIPS": false,
 "UseDualStack": true,
 "Region": "us-east-1"
 }
},
{
 "documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
 "expect": {
 "endpoint": {

```



```

 "url": "https://license-manager.cn-north-1.amazonaws.com.cn"
 }
},
"params": {
 "UseFIPS": false,
 "UseDualStack": false,
 "Region": "cn-north-1"
}
},
{
 "documentation": "For region cn-northwest-1 with FIPS disabled and DualStack disabled",

 "expect": {
 "endpoint": {
 "url": "https://license-manager.cn-northwest-1.amazonaws.com.cn"
 }
 },
 "params": {
 "UseFIPS": false,
 "UseDualStack": false,
 "Region": "cn-northwest-1"
 }
},
{
 "documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-fips.cn-north-1.api.amazonwebservices.com.cn"
 }
 },
 "params": {
 "UseFIPS": true,
 "UseDualStack": true,
 "Region": "cn-north-1"
 }
},
{
 "documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-fips.cn-north-1.amazonaws.com.cn"
 }
 },
 "params": {
 "UseFIPS": true,
 "UseDualStack": false,
 "Region": "cn-north-1"
 }
}

```

```

},
{
 "documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager.cn-north-1.api.amazonwebservices.com.cn"
 }
 },
 "params": {
 "UseFIPS": false,
 "UseDualStack": true,
 "Region": "cn-north-1"
 }
},
{
 "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager.us-gov-east-1.amazonaws.com"
 }
 },
 "params": {
 "UseFIPS": false,
 "UseDualStack": false,
 "Region": "us-gov-east-1"
 }
},
{
 "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-fips.us-gov-east-1.amazonaws.com"
 }
 },
 "params": {
 "UseFIPS": true,
 "UseDualStack": false,
 "Region": "us-gov-east-1"
 }
},
{
 "documentation": "For region us-gov-west-1 with FIPS disabled and DualStack disabled",
 "expect": {
 "endpoint": {

```

```

 "url": "https://license-manager.us-gov-west-1.amazonaws.com"
 }
},
"params": {
 "UseFIPS": false,
 "UseDualStack": false,
 "Region": "us-gov-west-1"
}
},
{
 "documentation": "For region us-gov-west-1 with FIPS enabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-fips.us-gov-west-1.amazonaws.com"
 }
 },
 "params": {
 "UseFIPS": true,
 "UseDualStack": false,
 "Region": "us-gov-west-1"
 }
},
{
 "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-fips.us-gov-east-1.api.aws"
 }
 },
 "params": {
 "UseFIPS": true,
 "UseDualStack": true,
 "Region": "us-gov-east-1"
 }
},
{
 "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack enabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager.us-gov-east-1.api.aws"
 }
 },
 "params": {
 "UseFIPS": false,
 "UseDualStack": true,
 "Region": "us-gov-east-1"
 }
},

```

```

 {
 "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager.us-iso-east-1.c2s.ic.gov"
 }
 },
 "params": {
 "UseFIPS": false,
 "UseDualStack": false,
 "Region": "us-iso-east-1"
 }
 },

 {
 "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
 "expect": {
 "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
 },
 "params": {
 "UseFIPS": true,
 "UseDualStack": true,
 "Region": "us-iso-east-1"
 }
 },

 {
 "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-fips.us-iso-east-1.c2s.ic.gov"
 }
 },

 "params": {
 "UseFIPS": true,
 "UseDualStack": false,
 "Region": "us-iso-east-1"
 }
 },

 {
 "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
 "expect": {
 "error": "DualStack is enabled but this partition does not support DualStack"
 },
 "params": {
 "UseFIPS": false,
 "UseDualStack": true,
 "Region": "us-iso-east-1"
 }
 }

```

```

 }
 },
 {
 "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager.us-isob-east-1.sc2s.sgov.gov"
 }
 },
 "params": {
 "UseFIPS": false,
 "UseDualStack": false,
 "Region": "us-isob-east-1"
 }
 },
 {
 "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
 "expect": {
 "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
 },
 "params": {
 "UseFIPS": true,
 "UseDualStack": true,
 "Region": "us-isob-east-1"
 }
 },
 {
 "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-fips.us-isob-east-1.sc2s.sgov.gov"
 }
 },
 "params": {
 "UseFIPS": true,
 "UseDualStack": false,
 "Region": "us-isob-east-1"
 }
 },
 {
 "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
 "expect": {
 "error": "DualStack is enabled but this partition does not support DualStack"
 },
 "params": {
 "UseFIPS": false,
 "UseDualStack": true,
 "Region": "us-isob-east-1"
 }
 }
}

```

```

 }
 },
 {
 "documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
 "expect": {
 "endpoint": {
 "url": "https://example.com"
 }
 },
 "params": {
 "UseFIPS": false,
 "UseDualStack": false,
 "Region": "us-east-1",
 "Endpoint": "https://example.com"
 }
 },
 {
 "documentation": "For custom endpoint with region not set and fips disabled and dualstack
disabled",
 "expect": {
 "endpoint": {
 "url": "https://example.com"
 }
 },
 "params": {
 "UseFIPS": false,
 "UseDualStack": false,
 "Endpoint": "https://example.com"
 }
 },
 {
 "documentation": "For custom endpoint with fips enabled and dualstack disabled",
 "expect": {
 "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
 },
 "params": {
 "UseFIPS": true,
 "UseDualStack": false,
 "Region": "us-east-1",
 "Endpoint": "https://example.com"
 }
 },
 {
 "documentation": "For custom endpoint with fips disabled and dualstack enabled",
 "expect": {
 "error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
 }
 }
}

```

```

 },
 "params": {
 "UseFIPS": false,
 "UseDualStack": true,
 "Region": "us-east-1",
 "Endpoint": "https://example.com"
 }
 },
 {
 "documentation": "Missing region",

 "expect": {
 "error": "Invalid Configuration: Missing Region"
 }
 }
],
"version": "1.0"
}
},
"com.amazonaws.licensemanager#AcceptGrant": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#AcceptGrantRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#AcceptGrantResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
]
}

```

```

 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Accepts the specified grant.</p>"
 }
},
"com.amazonaws.licensemanager#AcceptGrantRequest": {
 "type": "structure",
 "members": {
 "GrantArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
 }
 }
 }
},
"smithy.api#required": {}
},
"traits": {
 "smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#AcceptGrantResponse": {
 "type": "structure",
 "members": {
 "GrantArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>Grant ARN.</p>"
 }
 },
 "Status": {
 "target": "com.amazonaws.licensemanager#GrantStatus",
 "traits": {
 "smithy.api#documentation": "<p>Grant status.</p>"
 }
 }
 },
 "Version": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Grant version.</p>"
 }
 }
}
},
"traits": {

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 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#AccessDeniedException": {
 "type": "structure",
 "members": {
 "Message": {
 "target": "com.amazonaws.licensemanager#Message"
 }
 },
 "traits": {
 "aws.protocols#awsQueryError": {
 "code": "ServiceAccessDenied",
 "httpResponseCode": 401
 },
 "smithy.api#documentation": "<p>Access to resource denied.</p>",
 "smithy.api#error": "client",
 "smithy.api#httpError": 401
 }
},
"com.amazonaws.licensemanager#ActivationOverrideBehavior": {
 "type": "enum",
 "members": {
 "DISTRIBUTED_GRANTS_ONLY": {
 "target": "smithy.api#Unit",
 }
 },
 "traits": {
 "smithy.api#enumValue": "DISTRIBUTED_GRANTS_ONLY"
 }
},
"ALL_GRANTS_PERMITTED_BY_ISSUER": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "ALL_GRANTS_PERMITTED_BY_ISSUER"
 }
}
},
"com.amazonaws.licensemanager#AllowedOperation": {
 "type": "enum",
 "members": {
 "CREATE_GRANT": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "CreateGrant"
 }
 }
 },
 "CHECKOUT_LICENSE": {

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 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "CheckoutLicense"
 }
 },
 "CHECKOUT_BORROW_LICENSE": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "CheckoutBorrowLicense"
 }
 },
 "CHECK_IN_LICENSE": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "CheckInLicense"
 }
 },
 "EXTEND_CONSUMPTION_LICENSE": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "ExtendConsumptionLicense"
 }
 },
 "LIST_PURCHASED_LICENSES": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "ListPurchasedLicenses"
 }
 },
 "CREATE_TOKEN": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "CreateToken"
 }
 }
},
"com.amazonaws.licensemanager#AllowedOperationList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#AllowedOperation"
 },
 "traits": {
 "smithy.api#length": {
 "min": 1,
 "max": 7
 }
 }
}

```

```

 }
 },
 "com.amazonaws.licensemanager#Arn": {
 "type": "string",
 "traits": {
 "smithy.api#length": {
 "min": 0,
 "max": 2048
 },
 "smithy.api#pattern": "^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:/_+=, @.-]{0,1023}$"
 }
 },
 "com.amazonaws.licensemanager#ArnList":
 {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#Arn"
 }
 },
 "com.amazonaws.licensemanager#AuthorizationException": {
 "type": "structure",
 "members": {
 "Message": {
 "target": "com.amazonaws.licensemanager#Message"
 }
 },
 "traits": {
 "aws.protocols#awsQueryError": {
 "code": "AuthorizationFailure",
 "httpResponseCode": 403
 },
 "smithy.api#documentation": "<p>The Amazon Web Services user account does not have permission to perform the action. Check the IAM\n policy associated with this account.</p>",
 "smithy.api#error": "client",
 "smithy.api#httpError": 403
 }
 },
 "com.amazonaws.licensemanager#AutomatedDiscoveryInformation": {
 "type":
 "structure",
 "members": {
 "LastRunTime": {
 "target": "com.amazonaws.licensemanager#DateTime",
 "traits": {
 "smithy.api#documentation": "<p>Time that automated discovery last ran.</p>"
 }
 }
 }
 }
}

```

```

 }
 },
 "traits": {
 "smithy.api#documentation": "<p>Describes automated discovery.</p>"
 }
},
"com.amazonaws.licensemanager#Boolean": {
 "type": "boolean",
 "traits": {
 "smithy.api#default": false
 }
},
"com.amazonaws.licensemanager#BorrowConfiguration": {
 "type": "structure",
 "members": {
 "AllowEarlyCheckIn": {
 "target": "com.amazonaws.licensemanager#BoxBoolean",
 "traits": {
 "smithy.api#documentation": "<p>Indicates whether early check-ins are
allowed.</p>",
 "smithy.api#required": {}
 }
 },
 "MaxTimeToLiveInMinutes": {
 "target": "com.amazonaws.licensemanager#BoxInteger",
 "traits": {
 "smithy.api#documentation": "<p>Maximum time for the borrow configuration, in minutes.</p>",
 "smithy.api#required": {}
 }
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>Details about a borrow configuration.</p>"
 }
},
"com.amazonaws.licensemanager#BoxBoolean": {
 "type": "boolean"
},
"com.amazonaws.licensemanager#BoxInteger": {
 "type": "integer"
},
"com.amazonaws.licensemanager#BoxLong": {
 "type": "long"
},
"com.amazonaws.licensemanager#CheckInLicense": {
 "type": "operation",
 "input":

```

```

{
 "target": "com.amazonaws.licensemanager#CheckInLicenseRequest"
},
"output": {
 "target": "com.amazonaws.licensemanager#CheckInLicenseResponse"
},
"errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#ConflictException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
"traits": {
 "smithy.api#documentation": "<p>Checks in the specified license. Check in a license when it is no longer
in use.</p>"
}
},
"com.amazonaws.licensemanager#CheckInLicenseRequest": {
 "type": "structure",
 "members": {
 "LicenseConsumptionToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>License consumption token.</p>",
 "smithy.api#required": {}
 }
 }
 },
}

```

```

"Beneficiary": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {

 "smithy.api#documentation": "<p>License beneficiary.</p>"
 }
},
"traits": {
 "smithy.api#input": {}
},
"com.amazonaws.licensemanager#CheckInLicenseResponse": {
 "type": "structure",
 "members": {},
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#CheckoutBorrowLicense": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#EntitlementNotAllowedException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#RedirectException"
 }
]
}

```

```

 },
 {
 "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Checks out the specified license for offline use.</p>"
 }
},
"com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest": {
 "type": "structure",
 "members": {
 "LicenseArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license. The license must use the borrow consumption configuration.</p>",
 "smithy.api#required": {}
 }
 },
 "Entitlements": {
 "target": "com.amazonaws.licensemanager#EntitlementDataList",
 "traits": {
 "smithy.api#documentation": "<p>License entitlements. Partial checkouts are not supported.</p>",
 "smithy.api#required": {}
 }
 },
 "DigitalSignatureMethod": {
 "target": "com.amazonaws.licensemanager#DigitalSignatureMethod",
 "traits": {
 "smithy.api#documentation": "<p>Digital signature method. The possible value is JSON Web Signature (JWS) algorithm PS384.\n For more information, see RFC 7518 Digital Signature with RSASSA-PSS.</p>",
 "smithy.api#required": {}
 }
 }
 },
 "NodeId": {
 "target": "com.amazonaws.licensemanager#String",

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 "traits": {
 "smithy.api#documentation": "<p>Node ID.</p>"
 }
 },
 "CheckoutMetadata": {
 "target": "com.amazonaws.licensemanager#MetadataList",
 "traits": {
 "smithy.api#documentation": "<p>Information about constraints.</p>"
 }
 },
 "ClientToken": {
 "target": "com.amazonaws.licensemanager#ClientToken",
 "traits": {
 "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",
 "smithy.api#required": {}
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
},
"com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse": {
 "type": "structure",
 "members": {
 "LicenseArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
 }
 },
 "LicenseConsumptionToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>License consumption token.</p>"
 }
 },
 "EntitlementsAllowed": {
 "target": "com.amazonaws.licensemanager#EntitlementDataList",
 "traits": {
 "smithy.api#documentation": "<p>Allowed license entitlements.</p>"
 }
 },
 "NodeId": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {

```



```

 "smithy.api#documentation": "<p>Node ID.</p>"
 }
},
"SignedToken":
{
 "target": "com.amazonaws.licensemanager#SignedToken",
 "traits": {
 "smithy.api#documentation": "<p>Signed token.</p>"
 }
},
"IssuedAt": {
 "target": "com.amazonaws.licensemanager#ISO8601DateTime",
 "traits": {
 "smithy.api#documentation": "<p>Date and time at which the license checkout is issued.</p>"
 }
},
"Expiration": {
 "target": "com.amazonaws.licensemanager#ISO8601DateTime",
 "traits": {
 "smithy.api#documentation": "<p>Date and time at which the license checkout expires.</p>"
 }
},
"CheckoutMetadata": {
 "target": "com.amazonaws.licensemanager#MetadataList",
 "traits": {
 "smithy.api#documentation":
"<p>Information about constraints.</p>"
 }
},
"traits": {
 "smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CheckoutLicense": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#CheckoutLicenseRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#CheckoutLicenseResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 }
]
}

```

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 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#RedirectException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Checks out the specified license.</p>\n <note>\n <p>If the
account that created the license
is the same that is performing the check out, you must\n specify the account as the beneficiary.</p>\n
</note>"
 }
},
"com.amazonaws.licensemanager#CheckoutLicenseRequest": {
 "type": "structure",
 "members": {
 "ProductSKU": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Product SKU.</p>",
 "smithy.api#required": {}
 }
 },
 "CheckoutType": {
 "target": "com.amazonaws.licensemanager#CheckoutType",
 "traits": {
 "smithy.api#documentation": "<p>Checkout type.</p>",
 "smithy.api#required": {}
 }
 }
 }
}

```

```

 }
 },
 "KeyFingerprint": {
 "target": "com.amazonaws.licensemanager#String",

 "traits": {
 "smithy.api#documentation": "<p>Key fingerprint identifying the license.</p>",
 "smithy.api#required": {}
 }
 },
 "Entitlements": {
 "target": "com.amazonaws.licensemanager#EntitlementDataList",
 "traits": {
 "smithy.api#documentation": "<p>License entitlements.</p>",
 "smithy.api#required": {}
 }
 },
 "ClientToken": {
 "target": "com.amazonaws.licensemanager#ClientToken",
 "traits": {
 "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
 "smithy.api#required": {}
 }
 },
 "Beneficiary": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>License beneficiary.</p>"
 }
 },
 "NodeId": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Node ID.</p>"
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
},
"com.amazonaws.licensemanager#CheckoutLicenseResponse": {
 "type": "structure",
 "members": {
 "CheckoutType": {
 "target": "com.amazonaws.licensemanager#CheckoutType",
 "traits": {

```

```

 "smithy.api#documentation": "<p>Checkout type.</p>"
 }
},
"LicenseConsumptionToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>License consumption token.</p>"
 }
},
"EntitlementsAllowed": {
 "target": "com.amazonaws.licensemanager#EntitlementDataList",
 "traits": {
 "smithy.api#documentation": "<p>Allowed license entitlements.</p>"
 }
},
"SignedToken": {
 "target": "com.amazonaws.licensemanager#SignedToken",
 "traits": {
 "smithy.api#documentation": "<p>Signed token.</p>"
 }
},
"NodeId": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Node ID.</p>"
 }
},
"IssuedAt": {
 "target": "com.amazonaws.licensemanager#ISO8601DateTime",
 "traits": {
 "smithy.api#documentation": "<p>Date and time at which the license checkout is issued.</p>"
 }
},
"Expiration": {
 "target": "com.amazonaws.licensemanager#ISO8601DateTime",
 "traits": {
 "smithy.api#documentation": "<p>Date and time at which the license checkout expires.</p>"
 }
},
"LicenseArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the checkout license.</p>"
 }
}
},
"traits": {
 "smithy.api#output": {}
}

```

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 }
 },
 "com.amazonaws.licensemanager#CheckoutType":
{
 "type": "enum",
 "members": {
 "PROVISIONAL": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "PROVISIONAL"
 }
 },
 "PERPETUAL": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "PERPETUAL"
 }
 }
 }
},
 "com.amazonaws.licensemanager#ClientRequestToken": {
 "type": "string",
 "traits": {
 "smithy.api#length": {
 "min": 1,
 "max": 36
 }
 }
 },
 "com.amazonaws.licensemanager#ClientToken": {
 "type": "string",
 "traits": {
 "smithy.api#length": {
 "min": 0,
 "max": 2048
 },
 "smithy.api#pattern": "^\\S+$"
 }
 },
 "com.amazonaws.licensemanager#ConflictException": {
 "type": "structure",
 "members": {
 "Message": {
 "target": "com.amazonaws.licensemanager#Message"
 }
 },
 "traits": {
 "aws.protocols#awsQueryError": {

```

```

 "code": "ConflictException",
 "httpResponseCode": 409
 },
 "smithy.api#documentation": "<p>There was a conflict processing the request. Try your request
again.</p>",
 "smithy.api#error": "client",
 "smithy.api#httpError": 409
}
},
"com.amazonaws.licensemanager#ConsumedLicenseSummary": {
 "type": "structure",
 "members": {
 "ResourceType": {
 "target": "com.amazonaws.licensemanager#ResourceType",
 "traits":
{
 "smithy.api#documentation": "<p>Resource type of the resource consuming a license.</p>"
 }
 },
 "ConsumedLicenses": {
 "target": "com.amazonaws.licensemanager#BoxLong",
 "traits": {
 "smithy.api#documentation": "<p>Number of licenses consumed by the resource.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>Details about license consumption.</p>"
 }
},
"com.amazonaws.licensemanager#ConsumedLicenseSummaryList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#ConsumedLicenseSummary"
 }
},
"com.amazonaws.licensemanager#ConsumptionConfiguration": {
 "type": "structure",
 "members": {
 "RenewType": {
 "target": "com.amazonaws.licensemanager#RenewType",
 "traits": {
 "smithy.api#documentation": "<p>Renewal frequency.</p>"
 }
 },
 "ProvisionalConfiguration": {
 "target": "com.amazonaws.licensemanager#ProvisionalConfiguration",

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 "traits": {
 "smithy.api#documentation": "<p>Details about a provisional configuration.</p>"
 }
 },
 "BorrowConfiguration": {
 "target": "com.amazonaws.licensemanager#BorrowConfiguration",
 "traits": {
 "smithy.api#documentation": "<p>Details about a borrow configuration.</p>"
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>Details about a consumption configuration.</p>"
 },
 "com.amazonaws.licensemanager#CreateGrant":
{
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#CreateGrantRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#CreateGrantResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
 "traits": {

```

"smithy.api#documentation": "<p>Creates a grant for the specified license. A grant shares the use of license entitlements with a specific Amazon Web Services account, an organization, or an organizational unit (OU). For more information, see <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/granted-licenses.html\">Granted licenses in License Manager</a> in the <i>License Manager User Guide</i>.</p>"

```

 }
 },
 "com.amazonaws.licensemanager#CreateGrantRequest": {
 "type": "structure",
 "members": {
 "ClientToken": {
 "target": "com.amazonaws.licensemanager#ClientToken",
 "traits": {
 "smithy.api#documentation":
 "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
 "smithy.api#required": {}
 }
 },
 "GrantName": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Grant name.</p>",
 "smithy.api#required": {}
 }
 },
 "LicenseArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
 "smithy.api#required": {}
 }
 },
 "Principals": {
 "target": "com.amazonaws.licensemanager#PrincipalArnList",
 "traits": {
 "smithy.api#documentation":
 "<p>The grant principals. You can specify one of the following as an Amazon Resource Name (ARN):</p>

 <p>An Amazon Web Services account, which includes only the account specified.</p>
 <p>An organizational unit (OU), which includes all accounts in the OU.</p>
 <p>An organization, which will include all accounts across your organization.</p>
 ",
 "smithy.api#required": {}
 }
 },
 "HomeRegion": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Home Region of the grant.</p>",

```



```

 "smithy.api#required": {}
 }
},
"AllowedOperations": {
 "target": "com.amazonaws.licensemanager#AllowedOperationList",
 "traits": {
 "smithy.api#documentation": "<p>Allowed operations for the grant.</p>",
 "smithy.api#required": {}
 }
},
"traits": {
 "smithy.api#input": {}
},
"com.amazonaws.licensemanager#CreateGrantResponse": {
 "type": "structure",
 "members": {
 "GrantArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>Grant ARN.</p>"
 }
 },
 "Status": {
 "target": "com.amazonaws.licensemanager#GrantStatus",
 "traits": {
 "smithy.api#documentation":
"<p>Grant status.</p>"
 }
 },
 "Version": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Grant version.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#CreateGrantVersion": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#CreateGrantVersionRequest"
 },

```

```

"output": {
 "target": "com.amazonaws.licensemanager#CreateGrantVersionResponse"
},
"errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
"traits": {
 "smithy.api#documentation": "<p>Creates a new version of the specified grant. For more information, see\n Granted licenses in License Manager in the <i>License Manager User Guide</i>.</p>"
}
},
"com.amazonaws.licensemanager#CreateGrantVersionRequest": {
 "type": "structure",
 "members": {
 "ClientToken": {
 "target": "com.amazonaws.licensemanager#ClientToken",
 "traits": {
 "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
 "smithy.api#required": {}
 }
 },
 "GrantArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
 "smithy.api#required": {}
 }
 }
 }
}

```

```

 }
 },
 "GrantName": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Grant name.</p>"
 }
 },
 "AllowedOperations": {
 "target": "com.amazonaws.licensemanager#AllowedOperationList",
 "traits": {
 "smithy.api#documentation": "<p>Allowed operations for the grant.</p>"
 }
 },
 "Status": {
 "target": "com.amazonaws.licensemanager#GrantStatus",
 "traits": {
 "smithy.api#documentation": "<p>Grant status.</p>"
 }
 },
 "StatusReason": {
 "target": "com.amazonaws.licensemanager#StatusReasonMessage",
 "traits": {
 "smithy.api#documentation": "<p>Grant status reason.</p>"
 }
 },
 "SourceVersion": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Current version of the grant.</p>"
 }
 },
 "Options": {
 "target": "com.amazonaws.licensemanager#Options",
 "traits": {
 "smithy.api#documentation": "<p>The options specified for the grant.</p>"
 }
 }
},
"traits": {
 "smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateGrantVersionResponse": {
 "type": "structure",
 "members": {
 "GrantArn": {

```

```

 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>Grant ARN.</p>"
 }
 },
 "Status": {
 "target": "com.amazonaws.licensemanager#GrantStatus",
 "traits": {
 "smithy.api#documentation": "<p>Grant status.</p>"
 }
 },
 "Version": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>New version of the grant.</p>"
 }
 }
},
"traits": {
 "smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CreateLicense": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#CreateLicenseRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#CreateLicenseResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#RedirectException"
 }
]
}

```

```

 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
"traits": {
 "smithy.api#documentation": "<p>Creates a license.</p>"
}
},
"com.amazonaws.licensemanager#CreateLicenseConfiguration": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#CreateLicenseConfigurationRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#CreateLicenseConfigurationResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 }
]
},
"traits": {
 "smithy.api#documentation": "<p>Creates a license configuration.</p>\n <p>A license configuration is an abstraction of a customer license agreement that can be\n consumed and enforced by License Manager. Components include specifications for the license\n type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n Dedicated Instance, Dedicated Host, or all of these), license affinity to host (how long a \n license must be associated with a host), and the number of licenses purchased and used.</p>"
}
},

```

```

"com.amazonaws.licensemanager#CreateLicenseConfigurationRequest": {
 "type": "structure",
 "members": {
 "Name": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Name of the license configuration.</p>",
 "smithy.api#required": {}
 }
 },
 "Description": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Description of the license configuration.</p>"
 }
 },
 "LicenseCountingType": {
 "target": "com.amazonaws.licensemanager#LicenseCountingType",
 "traits": {
 "smithy.api#documentation": "<p>Dimension used to track the license inventory.</p>",
 "smithy.api#required": {}
 }
 },
 "LicenseCount": {
 "target": "com.amazonaws.licensemanager#BoxLong",
 "traits": {
 "smithy.api#documentation": "<p>Number of licenses managed by the license configuration.</p>"
 }
 },
 "LicenseCountHardLimit": {
 "target": "com.amazonaws.licensemanager#BoxBoolean",
 "traits": {
 "smithy.api#documentation": "<p>Indicates whether hard or soft license enforcement is used. Exceeding a hard limit\n blocks the launch of new instances.</p>"
 }
 },
 "LicenseRules": {
 "target": "com.amazonaws.licensemanager#StringList",
 "traits": {
 "smithy.api#documentation": "<p>License rules. The syntax is #name=value (for example, #allowedTenancy=EC2-DedicatedHost). The available rules\n vary by dimension, as follows.</p>\n
\n \n <p>\n <code>Cores</code> dimension: <code>allowedTenancy</code> |\n <code>licenseAffinityToHost</code> |\n <code>maximumCores</code> |\n <code>minimumCores</code>\n </p>\n \n \n <p>\n <code>Instances</code> dimension:\n <code>allowedTenancy</code> | \n <code>maximumCores</code> | <code>minimumCores</code> |\n <code>maximumSockets</code> | <code>minimumSockets</code> |\n

```

```

<code>maximumVcpus</code> | <code>minimumVcpus</code>\n </p>\n \n \n <p>\n <code>Sockets</code> dimension: <code>allowedTenancy</code> | \n
<code>licenseAffinityToHost</code> | \n <code>maximumSockets</code> |
<code>minimumSockets</code>\n </p>\n \n \n <p>\n <code>vCPUs</code> dimension: <code>allowedTenancy</code> | \n
<code>honorVcpuOptimization</code> | \n <code>maximumVcpus</code> |
<code>minimumVcpus</code>\n </p>\n \n \n <p>The unit for <code>licenseAffinityToHost</code> is days and the range is 1 to 180.
The possible \n values for <code>allowedTenancy</code> are <code>EC2-Default</code>, <code>EC2-
DedicatedHost</code>, and \n <code>EC2-DedicatedInstance</code>. The possible values for
<code>honorVcpuOptimization</code> are \n <code>True</code> and <code>False</code>.</p>"

```

```

 }
 },
 "Tags": {
 "target": "com.amazonaws.licensemanager#TagList",
 "traits": {
 "smithy.api#documentation": "<p>Tags to add to the license configuration.</p>"
 }
 },
 "DisassociateWhenNotFound": {
 "target": "com.amazonaws.licensemanager#BoxBoolean",
 "traits": {
 "smithy.api#documentation": "<p>When true, disassociates a resource when software is
uninstalled.</p>"
 }
 },
 "ProductInformationList": {
 "target": "com.amazonaws.licensemanager#ProductInformationList",
 "traits": {
 "smithy.api#documentation": "<p>Product information.</p>"
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
},
"com.amazonaws.licensemanager#CreateLicenseConfigurationResponse": {
 "type": "structure",
 "members": {
 "LicenseConfigurationArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
 }
 }
 },
 "traits": {

```

```

 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource":
{
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Creates a new license conversion task.</p>"
 }
},
"com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest": {
 "type": "structure",
 "members": {
 "ResourceArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource you are converting the license type for.</p>",
 "smithy.api#required": {}
 }
 },
 "SourceLicenseContext": {

```



```

 "target": "com.amazonaws.licensemanager#LicenseConversionContext",
 "traits": {
 "smithy.api#documentation":
 "<p>Information that identifies the license type you are converting from. \n\n For the structure of the source
 license, see <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/conversion-
 procedures.html#conversion-cli\">Convert a license type using the CLI in the <i>License Manager User
 Guide</i>.</p>",
 "smithy.api#required": {}
 }
 },
 "DestinationLicenseContext": {
 "target": "com.amazonaws.licensemanager#LicenseConversionContext",
 "traits": {
 "smithy.api#documentation": "<p>Information that identifies the license type you are converting to.
 For the structure of the destination license, see <a href=\"https://docs.aws.amazon.com/license-
 manager/latest/userguide/conversion-procedures.html#conversion-cli\">Convert a license type using the CLI in
 the <i>License Manager User Guide</i>.</p>",
 "smithy.api#required": {}
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
},
"com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse": {
 "type": "structure",
 "members": {
 "LicenseConversionTaskId": {
 "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
 "traits": {
 "smithy.api#documentation": "<p>The ID of the created license type conversion task.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse"
 }
},

```

```

"errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
"traits": {
 "smithy.api#documentation": "<p>Creates a report generator.</p>"
}
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest": {
 "type": "structure",
 "members": {
 "ReportGeneratorName": {
 "target": "com.amazonaws.licensemanager#ReportGeneratorName",
 "traits": {
 "smithy.api#documentation": "<p>Name of the report generator.</p>",
 "smithy.api#required": {}
 }
 },
 "Type": {
 "target": "com.amazonaws.licensemanager#ReportTypeList",
 "traits": {
 "smithy.api#documentation": "<p>Type of reports to generate. The following report types an be generated:</p>\n
 \n
 \n
 <p>License configuration report - Reports the number and details of consumed licenses for a license configuration.</p>\n
 \n
 \n
 <p>Resource report - Reports the tracked licenses and resource consumption for a license configuration.</p>\n
 \n
 ",

```

```

 "smithy.api#required": {}
 },
 "ReportContext": {
 "target": "com.amazonaws.licensemanager#ReportContext",
 "traits": {
 "smithy.api#documentation": "<p>Defines the type of license configuration the report generator
tracks.</p>",
 "smithy.api#required": {}
 }
 },
 "ReportFrequency": {
 "target": "com.amazonaws.licensemanager#ReportFrequency",

 "traits": {
 "smithy.api#documentation": "<p>Frequency by which reports are generated. Reports can be
generated daily, monthly, or weekly.</p>",
 "smithy.api#required": {}
 }
 },
 "ClientToken": {
 "target": "com.amazonaws.licensemanager#ClientRequestToken",
 "traits": {
 "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",
 "smithy.api#required": {}
 }
 },
 "Description": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Description of the report generator.</p>"
 }
 },
 "Tags": {
 "target": "com.amazonaws.licensemanager#TagList",
 "traits": {
 "smithy.api#documentation": "<p>Tags to add to the report generator.</p>"
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse": {
 "type": "structure",
 "members": {

```

```

 "LicenseManagerReportGeneratorArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the new report
generator.</p>"
 }
 },
 "traits": {
 "smithy.api#output": {}
 },
 "com.amazonaws.licensemanager#CreateLicenseRequest": {
 "type": "structure",
 "members": {

"LicenseName": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>License name.</p>",
 "smithy.api#required": {}
 }
},
"ProductName": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Product name.</p>",
 "smithy.api#required": {}
 }
},
"ProductSKU": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Product SKU.</p>",
 "smithy.api#required": {}
 }
},
"Issuer": {
 "target": "com.amazonaws.licensemanager#Issuer",

"traits": {
 "smithy.api#documentation": "<p>License issuer.</p>",
 "smithy.api#required": {}
}
},
"HomeRegion": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {

```

```

 "smithy.api#documentation": "<p>Home Region for the license.</p>",
 "smithy.api#required": {}
 }
},
"Validity": {
 "target": "com.amazonaws.licensemanager#DatetimeRange",
 "traits": {
 "smithy.api#documentation": "<p>Date and time range during which the license is valid, in ISO8601-
UTC format.</p>",
 "smithy.api#required": {}
 }
},
"Entitlements": {
 "target": "com.amazonaws.licensemanager#EntitlementList",
 "traits":
{
 "smithy.api#documentation": "<p>License entitlements.</p>",
 "smithy.api#required": {}
 }
},
"Beneficiary": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>License beneficiary.</p>",
 "smithy.api#required": {}
 }
},
"ConsumptionConfiguration": {
 "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
 "traits": {
 "smithy.api#documentation": "<p>Configuration for consumption of the license. Choose a provisional
configuration for workloads\n running with continuous connectivity. Choose a borrow configuration for
workloads with offline\n usage.</p>",
 "smithy.api#required": {}
 }
},
"LicenseMetadata": {
 "target": "com.amazonaws.licensemanager#MetadataList",
 "traits": {
 "smithy.api#documentation": "<p>Information about the license.</p>"
 }
},
"ClientToken": {
 "target": "com.amazonaws.licensemanager#ClientToken",
 "traits": {
 "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",

```

```

 "smithy.api#required": {}
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
 },
 "com.amazonaws.licensemanager#CreateLicenseResponse": {
 "type": "structure",
 "members": {
 "LicenseArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
 }
 },
 "Status": {
 "target": "com.amazonaws.licensemanager#LicenseStatus",
 "traits": {
 "smithy.api#documentation": "<p>License status.</p>"
 }
 },
 "Version": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>License version.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
 },
 "com.amazonaws.licensemanager#CreateLicenseVersion": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#CreateLicenseVersionRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#CreateLicenseVersionResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 }
]
 }
}

```

```

 },
 {
 "target": "com.amazonaws.licensemanager#ConflictException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#RedirectException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 }
],
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
"traits": {
 "smithy.api#documentation": "<p>Creates a new version of the specified license.</p>"
}
},
"com.amazonaws.licensemanager#CreateLicenseVersionRequest": {
 "type": "structure",
 "members": {
 "LicenseArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
 "smithy.api#required": {}
 }
 },
 "LicenseName": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>License name.</p>",
 "smithy.api#required":
 }
 }
 }
},
"ProductName": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Product name.</p>",
 "smithy.api#required": {}
 }
}

```

```

 }
 },
 "Issuer": {
 "target": "com.amazonaws.licensemanager#Issuer",
 "traits": {
 "smithy.api#documentation": "<p>License issuer.</p>",
 "smithy.api#required": {}
 }
 },
 "HomeRegion": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Home Region of the license.</p>",
 "smithy.api#required": {}
 }
 },
 "Validity": {
 "target": "com.amazonaws.licensemanager#DatetimeRange",
 "traits": {
 "smithy.api#documentation": "<p>Date and time range during which the license is valid, in ISO8601-
UTC format.</p>",
 "smithy.api#required": {}
 }
 },
 "LicenseMetadata": {
 "target": "com.amazonaws.licensemanager#MetadataList",
 "traits": {
 "smithy.api#documentation": "<p>Information about the license.</p>"
 }
 },
 "Entitlements": {
 "target": "com.amazonaws.licensemanager#EntitlementList",
 "traits": {
 "smithy.api#documentation": "<p>License entitlements.</p>",
 "smithy.api#required": {}
 }
 },
 "ConsumptionConfiguration": {
 "target":
"com.amazonaws.licensemanager#ConsumptionConfiguration",
 "traits": {
 "smithy.api#documentation": "<p>Configuration for consumption of the license. Choose a provisional
configuration for workloads\n running with continuous connectivity. Choose a borrow configuration for
workloads with offline\n usage.</p>",
 "smithy.api#required": {}
 }
 },

```



```

"Status": {
 "target": "com.amazonaws.licensemanager#LicenseStatus",
 "traits": {
 "smithy.api#documentation": "<p>License status.</p>",
 "smithy.api#required": {}
 }
},
"ClientToken": {
 "target": "com.amazonaws.licensemanager#ClientToken",
 "traits": {
 "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you
provide to ensure the idempotency of the request.</p>",
 "smithy.api#required": {}
 }
},
"SourceVersion": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Current version of the license.</p>"
 }
},
"traits": {
 "smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseVersionResponse": {
 "type": "structure",
 "members": {
 "LicenseArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>License ARN.</p>"
 }
 },
 "Version": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>New version of the license.</p>"
 }
 }
 },
 "Status": {
 "target": "com.amazonaws.licensemanager#LicenseStatus",
 "traits": {
 "smithy.api#documentation": "<p>License status.</p>"
 }
 }
}

```

```

 },
 "traits": {
 "smithy.api#output": {}
 }
 },
 "com.amazonaws.licensemanager#CreateToken": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#CreateTokenRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#CreateTokenResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#RedirectException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Creates a long-lived token.</p>\n <p>A refresh token is a JWT token used to get an access token. With an access token,\n you can call AssumeRoleWithWebIdentity to get role credentials that you can use to \n call License Manager to manage the specified license.</p>"
 }
 },
 "com.amazonaws.licensemanager#CreateTokenRequest": {

```

```

 "type": "structure",
 "members": {
 "LicenseArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license. The ARN is mapped to the aud claim of the\n JWT token.</p>",
 "smithy.api#required": {}
 }
 },
 "RoleArns": {
 "target": "com.amazonaws.licensemanager#ArnList",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the IAM roles to embed in the token. \n License Manager does not check whether the roles are in use.</p>"
 }
 },
 "ExpirationInDays": {
 "target": "com.amazonaws.licensemanager#Integer",
 "traits": {
 "smithy.api#documentation": "<p>Token expiration, in days, counted from token creation. The default is 365 days.</p>"
 }
 },
 "TokenProperties": {
 "target": "com.amazonaws.licensemanager#MaxSize3StringList",
 "traits": {
 "smithy.api#documentation": "<p>Data specified by the caller to be included in the JWT token. The data is mapped\n to the amr claim of the JWT token.</p>"
 }
 },
 "ClientToken": {
 "target": "com.amazonaws.licensemanager#ClientToken",
 "traits": {
 "smithy.api#documentation":
 "<p>Idempotency token, valid for 10 minutes.</p>",
 "smithy.api#required": {}
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
 },
 "com.amazonaws.licensemanager#CreateTokenResponse": {
 "type": "structure",
 "members": {

```

```

"TokenId": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token ID.</p>"
 }
},
"TokenType": {
 "target": "com.amazonaws.licensemanager#TokenType",
 "traits": {
 "smithy.api#documentation": "<p>Token type.</p>"
 }
},
"Token": {
 "target": "com.amazonaws.licensemanager#TokenString",
 "traits": {
 "smithy.api#documentation": "<p>Refresh token, encoded as a JWT token.</p>"
 }
},
"traits": {
 "smithy.api#output": {}
},
"com.amazonaws.licensemanager#DateTime": {
 "type": "timestamp"
},
"com.amazonaws.licensemanager#DatetimeRange": {
 "type": "structure",
 "members": {
 "Begin": {
 "target": "com.amazonaws.licensemanager#ISO8601DateTime",
 "traits": {
 "smithy.api#documentation": "<p>Start of the time range.</p>",
 "smithy.api#required": {}
 }
 },
 "End": {
 "target": "com.amazonaws.licensemanager#ISO8601DateTime",
 "traits": {
 "smithy.api#documentation": "<p>End of the time range.</p>"
 }
 }
 }
},
"traits": {
 "smithy.api#documentation": "<p>Describes a time range, in ISO8601-UTC format.</p>"
}

```

```

},
"com.amazonaws.licensemanager#DeleteGrant": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#DeleteGrantRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#DeleteGrantResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Deletes the specified grant.</p>"
 }
},
"com.amazonaws.licensemanager#DeleteGrantRequest": {
 "type": "structure",
 "members": {
 "GrantArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
 "smithy.api#required": {}
 }
 },
 "StatusReason":

```

```

{
 "target": "com.amazonaws.licensemanager#StatusReasonMessage",
 "traits": {
 "smithy.api#documentation": "<p>The Status reason for the delete request.</p>"
 }
},
"Version": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Current version of the grant.</p>",
 "smithy.api#required": {}
 }
},
"traits": {
 "smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#DeleteGrantResponse": {
 "type": "structure",
 "members": {
 "GrantArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>Grant ARN.</p>"
 }
 },
 "Status": {
 "target": "com.amazonaws.licensemanager#GrantStatus",
 "traits": {
 "smithy.api#documentation": "<p>Grant status.</p>"
 }
 },
 "Version": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Grant version.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#DeleteLicense": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#DeleteLicenseRequest"
 }
}

```

```

 },
 "output": {
 "target": "com.amazonaws.licensemanager#DeleteLicenseResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#ConflictException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#RedirectException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Deletes the specified license.</p>"
 }
 },
 "com.amazonaws.licensemanager#DeleteLicenseConfiguration": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },

```

```

 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
],
 "traits": {
 "smithy.api#documentation": "<p>Deletes the specified license configuration.</p>\n <p>You cannot delete a license configuration that is in use.</p>"
 },
 "com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest": {
 "type": "structure",
 "members": {
 "LicenseConfigurationArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>ID of the license configuration.</p>",
 "smithy.api#required": {}
 }
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
 },
 "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse": {
 "type": "structure",
 "members": {},
 "traits": {
 "smithy.api#output": {}
 }
 },
 "com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest"
 },
 "output": {

```



```

 "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Deletes the specified report generator.</p>\n <p>This action deletes the report generator, which stops it from generating future reports.\n The action cannot be reversed. It has no effect on the previous reports from this generator.</p>"
 }
},
"com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest": {
 "type": "structure",
 "members": {
 "LicenseManagerReportGeneratorArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator to be deleted.</p>",
 "smithy.api#required": {}
 }
 }
 },
 "traits": {

```

```

 "smithy.api#input": {}
 }
},
"com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse": {
 "type": "structure",
 "members": {},
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#DeleteLicenseRequest": {
 "type": "structure",
 "members": {
 "LicenseArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits":
{
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
 "smithy.api#required": {}
 }
 },
 "SourceVersion": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Current version of the license.</p>",
 "smithy.api#required": {}
 }
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
},
"com.amazonaws.licensemanager#DeleteLicenseResponse": {
 "type": "structure",
 "members": {
 "Status": {
 "target": "com.amazonaws.licensemanager#LicenseDeletionStatus",
 "traits": {
 "smithy.api#documentation": "<p>License status.</p>"
 }
 }
 },
 "DeletionDate": {
 "target": "com.amazonaws.licensemanager#ISO8601DateTime",
 "traits": {
 "smithy.api#documentation": "<p>Date when the license is deleted.</p>"
 }
 }
}

```

```

 }
 },
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#DeleteToken": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#DeleteTokenRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#DeleteTokenResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#RedirectException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Deletes the specified token. Must be called in the license home
Region.</p>"
 }
},
"com.amazonaws.licensemanager#DeleteTokenRequest": {
 "type": "structure",
 "members": {
 "TokenId": {
 "target": "com.amazonaws.licensemanager#String",

```

```

"traits": {
 "smithy.api#documentation": "<p>Token ID.</p>",
 "smithy.api#required": {}
}
},
"traits": {
 "smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#DeleteTokenResponse": {
 "type": "structure",
 "members": {},
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#DigitalSignatureMethod": {
 "type": "enum",
 "members": {
 "JWT_PS384": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "JWT_PS384"
 }
 }
 }
},
"com.amazonaws.licensemanager#Entitlement": {
 "type": "structure",
 "members": {
 "Name": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Entitlement name.</p>",
 "smithy.api#required": {}
 }
 },
 "Value": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Entitlement resource. Use only if the unit is None.</p>"
 }
 },
 "MaxCount": {
 "target": "com.amazonaws.licensemanager#Long",

```

```

 "traits": {
 "smithy.api#documentation": "<p>Maximum entitlement count. Use if the unit is not None.</p>"
 }
 },
 "Overage": {
 "target": "com.amazonaws.licensemanager#BoxBoolean",
 "traits": {
 "smithy.api#documentation":
"<p>Indicates whether overages are allowed.</p>"
 }
 },
 "Unit": {
 "target": "com.amazonaws.licensemanager#EntitlementUnit",
 "traits": {
 "smithy.api#documentation": "<p>Entitlement unit.</p>",
 "smithy.api#required": {}
 }
 },
 "AllowCheckIn": {
 "target": "com.amazonaws.licensemanager#BoxBoolean",
 "traits": {
 "smithy.api#documentation": "<p>Indicates whether check-ins are allowed.</p>"
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>Describes a resource entitled for use with a license.</p>"
 }
},
"com.amazonaws.licensemanager#EntitlementData": {
 "type": "structure",
 "members": {
 "Name":
{
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Entitlement data name.</p>",
 "smithy.api#required": {}
 }
 },
 "Value": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Entitlement data value.</p>"
 }
 }
 },
 "Unit": {
 "target": "com.amazonaws.licensemanager#EntitlementDataUnit",

```

```

 "traits": {
 "smithy.api#documentation": "<p>Entitlement data unit.</p>",
 "smithy.api#required": {}
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>Data associated with an entitlement resource.</p>"
 }
},
"com.amazonaws.licensemanager#EntitlementDataList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#EntitlementData"
 }
},
"com.amazonaws.licensemanager#EntitlementDataUnit": {
 "type": "enum",
 "members": {
 "COUNT": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Count"
 }
 },
 "NONE": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "None"
 }
 },
 "SECONDS": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Seconds"
 }
 },
 "MICROSECONDS": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Microseconds"
 }
 },
 "MILLISECONDS": {
 "target": "smithy.api#Unit",
 "traits": {

```

```

 "smithy.api#enumValue": "Milliseconds"
 }
},
"BYTES": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Bytes"
 }
},
"KILOBYTES": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Kilobytes"
 }
},
"MEGABYTES": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Megabytes"
 }
}
},
"GIGABYTES": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Gigabytes"
 }
},
"TERABYTES": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Terabytes"
 }
},
"BITS": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Bits"
 }
},
"KILOBITS": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Kilobits"
 }
},
"MEGABITS": {
 "target": "smithy.api#Unit",

```

```

 "traits": {
"smithy.api#enumValue": "Megabits"
 }
 },
 "GIGABITS": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Gigabits"
 }
 },
 "TERABITS": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Terabits"
 }
 },
 "PERCENT": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Percent"
 }
 },
 "BYTES_PER_SECOND": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Bytes/Second"
 }
 },
 "KILOBYTES_PER_SECOND": {
 "target":
"smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Kilobytes/Second"
 }
 },
 "MEGABYTES_PER_SECOND": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Megabytes/Second"
 }
 },
 "GIGABYTES_PER_SECOND": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Gigabytes/Second"
 }
 },
 },

```



```

"TERABYTES_PER_SECOND": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Terabytes/Second"
 }
},
"BITS_PER_SECOND": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue":
"Bits/Second"
 }
},
"KILOBITS_PER_SECOND": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Kilobits/Second"
 }
},
"MEGABITS_PER_SECOND": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Megabits/Second"
 }
},
"GIGABITS_PER_SECOND": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Gigabits/Second"
 }
},
"TERABITS_PER_SECOND": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Terabits/Second"
 }
},

"COUNT_PER_SECOND": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Count/Second"
 }
}
},
"com.amazonaws.licensemanager#EntitlementList": {
 "type": "list",

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```

 "member": {
 "target": "com.amazonaws.licensemanager#Entitlement"
 }
 },
 "com.amazonaws.licensemanager#EntitlementNotAllowedException": {
 "type": "structure",
 "members": {
 "Message": {
 "target": "com.amazonaws.licensemanager#Message"
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>The entitlement is not allowed.</p>",
 "smithy.api#error": "client",
 "smithy.api#httpError": 400
 }
 },
 "com.amazonaws.licensemanager#EntitlementUnit": {
 "type": "enum",
 "members": {
 "COUNT": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Count"
 }
 },
 "NONE": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "None"
 }
 },
 "SECONDS": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Seconds"
 }
 },
 "MICROSECONDS": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Microseconds"
 }
 },
 "MILLISECONDS": {
 "target": "smithy.api#Unit",
 "traits": {

```

```

 "smithy.api#enumValue": "Milliseconds"
 }
},
"BYTES": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Bytes"
 }
},
"KILOBYTES": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Kilobytes"
 }
},
"MEGABYTES": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Megabytes"
 }
},
"GIGABYTES": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Gigabytes"
 }
},
"TERABYTES": {
 "target":
"smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Terabytes"
 }
},
"BITS": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Bits"
 }
},
"KILOBITS": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Kilobits"
 }
},
"MEGABITS": {

```

```

 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Megabits"
 }
 },
 "GIGABITS": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Gigabits"
 }
 },
 "TERABITS": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Terabits"
 }
 },
 "PERCENT": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Percent"
 }
 },
 "BYTES_PER_SECOND": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Bytes/Second"
 }
 },
 "KILOBYTES_PER_SECOND": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Kilobytes/Second"
 }
 },
 "MEGABYTES_PER_SECOND": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Megabytes/Second"
 }
 },
 "GIGABYTES_PER_SECOND": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Gigabytes/Second"
 }
 }
}

```

```

 },
 "TERABYTES_PER_SECOND": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Terabytes/Second"
 }
 },
 "BITS_PER_SECOND": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Bits/Second"
 }
 },
 "KILOBITS_PER_SECOND": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Kilobits/Second"
 }
 }
 },
 "MEGABITS_PER_SECOND": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Megabits/Second"
 }
 },
 "GIGABITS_PER_SECOND": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Gigabits/Second"
 }
 },
 "TERABITS_PER_SECOND": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Terabits/Second"
 }
 },
 "COUNT_PER_SECOND": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Count/Second"
 }
 }
}
},
"com.amazonaws.licensemanager#EntitlementUsage": {

```

```

"type": "structure",
"members": {
 "Name": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Entitlement usage name.</p>",
 "smithy.api#required": {}
 }
 },
 "ConsumedValue": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Resource usage consumed.</p>",
 "smithy.api#required": {}
 }
 },
 "MaxCount": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Maximum entitlement usage count.</p>"
 }
 },
 "Unit": {
 "target": "com.amazonaws.licensemanager#EntitlementDataUnit",
 "traits": {
 "smithy.api#documentation": "<p>Entitlement usage unit.</p>",
 "smithy.api#required": {}
 }
 }
},
"traits": {
 "smithy.api#documentation": "<p>Usage associated with an entitlement resource.</p>"
},
"com.amazonaws.licensemanager#EntitlementUsageList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#EntitlementUsage"
 }
},
"com.amazonaws.licensemanager#ExtendLicenseConsumption": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse"
 }
},

```

```

"errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
"traits": {
 "smithy.api#documentation": "<p>Extends the expiration date for license
consumption.</p>"
}
},
"com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest": {
 "type": "structure",
 "members": {
 "LicenseConsumptionToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>License consumption token.</p>",
 "smithy.api#required": {}
 }
 },
 "DryRun": {
 "target": "com.amazonaws.licensemanager#Boolean",
 "traits": {
 "smithy.api#default": false,
 "smithy.api#documentation": "<p>Checks whether you have the required permissions for the action,
without actually making the request. Provides an error response if you do not have the required permissions.</p>"
 }
 }
 }
},

```

```

 "traits": {
 "smithy.api#input": {}
 }
 },
 "com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse": {
 "type": "structure",
 "members": {
 "LicenseConsumptionToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>License consumption token.</p>"
 }
 },
 "Expiration": {
 "target": "com.amazonaws.licensemanager#ISO8601DateTime",
 "traits": {
 "smithy.api#documentation": "<p>Date and time at which the license consumption expires.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
 },
 "com.amazonaws.licensemanager#FailedDependencyException": {
 "type": "structure",
 "members": {
 "Message": {
 "target": "com.amazonaws.licensemanager#Message"
 },
 "ErrorCode": {
 "target": "com.amazonaws.licensemanager#String"
 }
 },
 "traits": {
 "aws.protocols#awsQueryError": {
 "code": "FailedDependency",
 "httpResponseCode": 424
 },
 "smithy.api#documentation": "<p>A dependency required to run the API is missing.</p>",
 "smithy.api#error": "client",
 "smithy.api#httpError": 424
 }
 },
 "com.amazonaws.licensemanager#Filter": {
 "type": "structure",
 "members": {
 "Name": {

```



```

 "target": "com.amazonaws.licensemanager#FilterName",
 "traits": {
 "smithy.api#documentation": "<p>Name of the filter. Filter names are case-sensitive.</p>"
 }
 },
 "Values": {
 "target": "com.amazonaws.licensemanager#FilterValues",
 "traits": {
 "smithy.api#documentation": "<p>The value of the filter, which is case-sensitive. You can only
specify one value for the filter.</p>"
 }
 }
},
"traits": {
 "smithy.api#documentation": "<p>A filter name and value pair that is used to return more specific results
from a\n describe operation. Filters can be used to match a set of resources by specific criteria,\n such as
tags, attributes, or IDs.</p>"
}
},
"com.amazonaws.licensemanager#FilterLimitExceededException": {
 "type": "structure",
 "members": {
 "Message": {
 "target": "com.amazonaws.licensemanager#Message"
 }
 },
 "traits":
{
 "aws.protocols#awsQueryError": {
 "code": "FilterLimitExceeded",
 "httpResponseCode": 400
 },
 "smithy.api#documentation": "<p>The request uses too many filters or too many filter values.</p>",
 "smithy.api#error": "client",
 "smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#FilterList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#Filter"
 }
},
"com.amazonaws.licensemanager#FilterName": {
 "type": "string"
},
"com.amazonaws.licensemanager#FilterValue": {
 "type": "string"
}

```

```

 },
 "com.amazonaws.licensemanager#FilterValues": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#FilterValue",
 "traits": {

"smithy.api#xmlName": "item"
 }
 }
 },
 "com.amazonaws.licensemanager#Filters": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#Filter",
 "traits": {
 "smithy.api#xmlName": "item"
 }
 }
 },
 "com.amazonaws.licensemanager#GetAccessToken": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#GetAccessTokenRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#GetAccessTokenResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target":
"com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Gets a temporary access token to use with

```

AssumeRoleWithWebIdentity. Access tokens\n are valid for one hour.</p>

```
 }
 },
 "com.amazonaws.licensemanager#GetAccessTokenRequest": {
 "type": "structure",
 "members": {
 "Token": {
 "target": "com.amazonaws.licensemanager#TokenString",
 "traits": {
 "smithy.api#documentation": "<p>Refresh token, encoded as a JWT token.</p>",
 "smithy.api#required": {}
 }
 }
 },
 "TokenProperties": {
 "target": "com.amazonaws.licensemanager#MaxSize3StringList",
 "traits": {
 "smithy.api#documentation": "<p>Token properties to validate against those present in the JWT
token.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
},
"com.amazonaws.licensemanager#GetAccessTokenResponse": {
 "type": "structure",
 "members": {
 "AccessToken": {
 "target": "com.amazonaws.licensemanager#TokenString",
 "traits": {
 "smithy.api#documentation": "<p>Temporary access token.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#GetGrant": {
 "type": "operation",

 "input": {
 "target": "com.amazonaws.licensemanager#GetGrantRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#GetGrantResponse"
 },
}
```

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"errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
"traits": {
 "smithy.api#documentation": "<p>Gets detailed information about the specified grant.</p>"
},
"com.amazonaws.licensemanager#GetGrantRequest": {
 "type": "structure",
 "members": {
 "GrantArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
 "smithy.api#required": {}
 }
 },
 "Version": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Grant version.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
}

```

```

 },
 "com.amazonaws.licensemanager#GetGrantResponse": {
 "type": "structure",
 "members": {
 "Grant": {
 "target": "com.amazonaws.licensemanager#Grant",
 "traits": {
 "smithy.api#documentation": "<p>Grant details.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
 },
 "com.amazonaws.licensemanager#GetLicense": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#GetLicenseRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#GetLicenseResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Gets detailed information about the specified license.</p>"
 }
 },
 },

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```

"com.amazonaws.licensemanager#GetLicenseConfiguration": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#GetLicenseConfigurationRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#GetLicenseConfigurationResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Gets detailed information about the specified license configuration.</p>"
 }
},
"com.amazonaws.licensemanager#GetLicenseConfigurationRequest":
{
 "type": "structure",
 "members": {
 "LicenseConfigurationArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>",
 "smithy.api#required": {}
 }
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
},

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```

"com.amazonaws.licensemanager#GetLicenseConfigurationResponse": {
 "type": "structure",
 "members": {
 "LicenseConfigurationId": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Unique ID for the license configuration.</p>"
 }
 },
 "LicenseConfigurationArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
 }
 },
 "Name": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Name of the license configuration.</p>"
 }
 },
 "Description": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Description of the license configuration.</p>"
 }
 },
 "LicenseCountingType": {
 "target": "com.amazonaws.licensemanager#LicenseCountingType",
 "traits": {
 "smithy.api#documentation":
"<p>Dimension for which the licenses are counted.</p>"
 }
 },
 "LicenseRules": {
 "target": "com.amazonaws.licensemanager#StringList",
 "traits": {
 "smithy.api#documentation": "<p>License rules.</p>"
 }
 },
 "LicenseCount": {
 "target": "com.amazonaws.licensemanager#BoxLong",
 "traits": {
 "smithy.api#documentation": "<p>Number of available licenses.</p>"
 }
 },
 "LicenseCountHardLimit": {

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 "target": "com.amazonaws.licensemanager#BoxBoolean",
 "traits": {
 "smithy.api#documentation": "<p>Sets the number of available licenses as a hard limit.</p>"
 }
 },
 "ConsumedLicenses": {
 "target":
"com.amazonaws.licensemanager#BoxLong",
 "traits": {
 "smithy.api#documentation": "<p>Number of licenses assigned to resources.</p>"
 }
 },
 "Status": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>License configuration status.</p>"
 }
 },
 "OwnerAccountId": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Account ID of the owner of the license configuration.</p>"
 }
 },
 "ConsumedLicenseSummaryList": {
 "target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",
 "traits": {
 "smithy.api#documentation": "<p>Summaries
of the licenses consumed by resources.</p>"
 }
 },
 "ManagedResourceSummaryList": {
 "target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
 "traits": {
 "smithy.api#documentation": "<p>Summaries of the managed resources.</p>"
 }
 },
 "Tags": {
 "target": "com.amazonaws.licensemanager#TagList",
 "traits": {
 "smithy.api#documentation": "<p>Tags for the license configuration.</p>"
 }
 },
 "ProductInformationList": {
 "target": "com.amazonaws.licensemanager#ProductInformationList",
 "traits": {
 "smithy.api#documentation": "<p>Product information.</p>"
 }
 }

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 },
 "AutomatedDiscoveryInformation":
 {
 "target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
 "traits": {
 "smithy.api#documentation": "<p>Automated discovery information.</p>"
 }
 },
 "DisassociateWhenNotFound": {
 "target": "com.amazonaws.licensemanager#BoxBoolean",
 "traits": {
 "smithy.api#documentation": "<p>When true, disassociates a resource when software is
uninstalled.</p>"
 }
 }
},
"traits": {
 "smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTask": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#GetLicenseConversionTaskRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#GetLicenseConversionTaskResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Gets information about the specified license type conversion task.</p>"
 }
}

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 },
 "com.amazonaws.licensemanager#GetLicenseConversionTaskRequest": {
 "type": "structure",
 "members": {
 "LicenseConversionTaskId": {
 "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
 "traits": {
 "smithy.api#documentation": "<p>ID of the license type conversion task to retrieve information on.</p>",
 "smithy.api#required": {}
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
 }
 },
 "com.amazonaws.licensemanager#GetLicenseConversionTaskResponse": {
 "type": "structure",
 "members": {
 "LicenseConversionTaskId": {
 "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
 "traits": {
 "smithy.api#documentation": "<p>ID of the license type conversion task.</p>"
 }
 },
 "ResourceArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Names (ARN) of the resources the license conversion task is associated with.</p>"
 }
 },
 "SourceLicenseContext": {
 "target": "com.amazonaws.licensemanager#LicenseConversionContext",
 "traits": {
 "smithy.api#documentation": "<p>Information about the license type converted from.</p>"
 }
 },
 "DestinationLicenseContext": {
 "target": "com.amazonaws.licensemanager#LicenseConversionContext",
 "traits": {
 "smithy.api#documentation": "<p>Information about the license type converted to.</p>"
 }
 },
 "StatusMessage": {
 "target": "com.amazonaws.licensemanager#String",

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"traits": {
 "smithy.api#documentation": "<p>The status message for the conversion task.</p>"
},
"Status": {
 "target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
 "traits": {
 "smithy.api#documentation": "<p>Status of the license type conversion task.</p>"
 }
},
"StartTime": {
 "target": "com.amazonaws.licensemanager#DateTime",
 "traits": {
 "smithy.api#documentation": "<p>Time at which the license type conversion task was started .</p>"
 }
},
"LicenseConversionTime": {
 "target": "com.amazonaws.licensemanager#DateTime",
 "traits": {
 "smithy.api#documentation": "<p>Amount of time to complete the license type
conversion.</p>"
 }
},
"EndTime": {
 "target": "com.amazonaws.licensemanager#DateTime",
 "traits": {
 "smithy.api#documentation": "<p>Time at which the license type conversion task was
completed.</p>"
 }
},
"traits": {
 "smithy.api#output": {}
},
"com.amazonaws.licensemanager#GetLicenseManagerReportGenerator": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 }
]
}

```

```

{
 "target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
 "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
 "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
 "target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
 "target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
 "smithy.api#documentation": "<p>Gets information about the specified report generator.</p>"
}
},
"com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest": {
 "type": "structure",
 "members": {
 "LicenseManagerReportGeneratorArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator.</p>",
 "smithy.api#required": {}
 }
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
},
"com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse": {
 "type": "structure",
 "members": {
 "ReportGenerator": {
 "target": "com.amazonaws.licensemanager#ReportGenerator",
 "traits": {

```

```

 "smithy.api#documentation": "<p>A report generator that creates
periodic reports about your license configurations.</p>"
 }
}
},
"traits": {
 "smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#GetLicenseRequest": {
 "type": "structure",
 "members": {
 "LicenseArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
 "smithy.api#required": {}
 }
 },
 "Version": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>License version.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
},
"com.amazonaws.licensemanager#GetLicenseResponse": {
 "type": "structure",
 "members": {
 "License": {
 "target": "com.amazonaws.licensemanager#License",
 "traits": {
 "smithy.api#documentation": "<p>License details.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#GetLicenseUsage": {
 "type": "operation",
 "input": {

```

```

 "target": "com.amazonaws.licensemanager#GetLicenseUsageRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#GetLicenseUsageResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Gets detailed information about the usage of the specified license.</p>"
 }
},
"com.amazonaws.licensemanager#GetLicenseUsageRequest": {
 "type": "structure",
 "members": {
 "LicenseArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
 "smithy.api#required": {}
 }
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
},
"com.amazonaws.licensemanager#GetLicenseUsageResponse": {
 "type": "structure",
 "members": {

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```

 "LicenseUsage": {
 "target": "com.amazonaws.licensemanager#LicenseUsage",
 "traits": {
 "smithy.api#documentation": "<p>License usage details.</p>"
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
 },
 "com.amazonaws.licensemanager#GetServiceSettings": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#GetServiceSettingsRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#GetServiceSettingsResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Gets the License Manager settings for the current Region.</p>"
 }
 },
 "com.amazonaws.licensemanager#GetServiceSettingsRequest": {
 "type": "structure",
 "members": {},
 "traits": {
 "smithy.api#input": {}
 }
 },
 "com.amazonaws.licensemanager#GetServiceSettingsResponse": {
 "type": "structure",
 "members": {
 "S3BucketArn": {

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 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Regional S3 bucket path for storing reports, license trail event data,
discovery data,\n and so on.</p>"
 }
 },
 "SnsTopicArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>SNS topic configured to receive notifications from License
Manager.</p>"
 }
 },
 "OrganizationConfiguration": {
 "target": "com.amazonaws.licensemanager#OrganizationConfiguration",
 "traits": {
 "smithy.api#documentation":
"<p>Indicates whether Organizations is integrated with License Manager for\n cross-account discovery.</p>"
 }
 },
 "EnableCrossAccountsDiscovery": {
 "target": "com.amazonaws.licensemanager#BoxBoolean",
 "traits": {
 "smithy.api#documentation": "<p>Indicates whether cross-account discovery is enabled.</p>"
 }
 },
 "LicenseManagerResourceShareArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource share. The License
Manager management account \n provides member accounts with access to this share.</p>"
 }
 }
},
"traits": {
 "smithy.api#output": {}
}
},

"com.amazonaws.licensemanager#Grant": {
 "type": "structure",
 "members": {
 "GrantArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
 "smithy.api#required": {}
 }
 }
 }
}

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 },
 "GrantName": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Grant name.</p>",
 "smithy.api#required": {}
 }
 }
 },
 "ParentArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>Parent ARN.</p>",
 "smithy.api#required": {}
 }
 }
},
"LicenseArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>License ARN.</p>",
 "smithy.api#required": {}
 }
},
"GranteePrincipalArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>The grantee principal ARN.</p>",
 "smithy.api#required": {}
 }
},
"HomeRegion": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Home Region of the grant.</p>",
 "smithy.api#required": {}
 }
},
"GrantStatus": {
 "target":
"com.amazonaws.licensemanager#GrantStatus",
 "traits": {
 "smithy.api#documentation": "<p>Grant status.</p>",
 "smithy.api#required": {}
 }
},
"StatusReason": {
 "target": "com.amazonaws.licensemanager#StatusReasonMessage",
 "traits": {

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 "smithy.api#documentation": "<p>Grant status reason.</p>"
 }
},
"Version": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Grant version.</p>",
 "smithy.api#required": {}
 }
},
"GrantedOperations": {
 "target": "com.amazonaws.licensemanager#AllowedOperationList",
 "traits": {
 "smithy.api#documentation":
"<p>Granted operations.</p>",
 "smithy.api#required": {}
 }
},
"Options": {
 "target": "com.amazonaws.licensemanager#Options",
 "traits": {
 "smithy.api#documentation": "<p>The options specified for the grant.</p>"
 }
}
},
"traits": {
 "smithy.api#documentation": "<p>Describes a grant.</p>"
}
},
"com.amazonaws.licensemanager#GrantList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#Grant"
 }
},
"com.amazonaws.licensemanager#GrantStatus": {
 "type": "enum",
 "members": {
 "PENDING_WORKFLOW": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue":
"PENDING_WORKFLOW"
 }
 },
 "PENDING_ACCEPT": {
 "target": "smithy.api#Unit",
 "traits": {

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 "smithy.api#enumValue": "PENDING_ACCEPT"
 }
},
"REJECTED": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "REJECTED"
 }
},
"ACTIVE": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "ACTIVE"
 }
},
"FAILED_WORKFLOW": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "FAILED_WORKFLOW"
 }
},
"DELETED": {
 "target":
"smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "DELETED"
 }
},
"PENDING_DELETE": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "PENDING_DELETE"
 }
},
"DISABLED": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "DISABLED"
 }
},
"WORKFLOW_COMPLETED": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "WORKFLOW_COMPLETED"
 }
}
}
},

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```

"com.amazonaws.licensemanager#GrantedLicense": {
 "type": "structure",
 "members": {
 "LicenseArn": {

"target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
 }
 },
 "LicenseName": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>License name.</p>"
 }
 },
 "ProductName": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Product name.</p>"
 }
 },
 "ProductSKU": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Product SKU.</p>"
 }
 },
 "Issuer":
{
 "target": "com.amazonaws.licensemanager#IssuerDetails",
 "traits": {
 "smithy.api#documentation": "<p>Granted license issuer.</p>"
 }
 },
 "HomeRegion": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Home Region of the granted license.</p>"
 }
 },
 "Status": {
 "target": "com.amazonaws.licensemanager#LicenseStatus",
 "traits": {
 "smithy.api#documentation": "<p>Granted license status.</p>"
 }
 },
 "Validity": {

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```

 "target": "com.amazonaws.licensemanager#DatetimeRange",
 "traits": {
 "smithy.api#documentation": "<p>Date and time range during which the
granted license is valid, in ISO8601-UTC format.</p>"
 }
 },
 "Beneficiary": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Granted license beneficiary.</p>"
 }
 },
 "Entitlements": {
 "target": "com.amazonaws.licensemanager#EntitlementList",
 "traits": {
 "smithy.api#documentation": "<p>License entitlements.</p>"
 }
 },
 "ConsumptionConfiguration": {
 "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
 "traits": {
 "smithy.api#documentation": "<p>Configuration for consumption of the license.</p>"
 }
 },
 "LicenseMetadata": {
 "target": "com.amazonaws.licensemanager#MetadataList",
 "traits": {
 "smithy.api#documentation": "<p>Granted license metadata.</p>"
 }
 },
 "CreateTime": {
 "target": "com.amazonaws.licensemanager#ISO8601DateTime",
 "traits": {
 "smithy.api#documentation": "<p>Creation time of the granted license.</p>"
 }
 },
 "Version": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Version of the granted license.</p>"
 }
 },
 "ReceivedMetadata": {
 "target": "com.amazonaws.licensemanager#ReceivedMetadata",
 "traits": {
 "smithy.api#documentation": "<p>Granted license received metadata.</p>"
 }
 }
}

```

```

 }
 },
 "traits": {
 "smithy.api#documentation": "<p>Describes a license that is granted to a grantee.</p>"
 }
},
"com.amazonaws.licensemanager#GrantedLicenseList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#GrantedLicense"
 }
},
"com.amazonaws.licensemanager#ISO8601DateTime": {
 "type": "string",
 "traits": {
 "smithy.api#length": {
 "min": 0,
 "max": 50
 },
 "smithy.api#pattern": "^(-?(?:[1-9][0-9]*)?[0-9]{4})-(1[0-2]|0[1-9])-(3[0-1]|0[1-9]|[1-2][0-9])T(2[0-3]|[0-1][0-9]):([0-5][0-9]):([0-5][0-9])(\\.([0-9]+)?(?:Z|[-+](?:2[0-3]|[0-1][0-9]):[0-5][0-9])+$)"
 }
},
"com.amazonaws.licensemanager#Integer": {
 "type": "integer"
},
"com.amazonaws.licensemanager#InvalidParameterValueException":
{
 "type": "structure",
 "members": {
 "Message": {
 "target": "com.amazonaws.licensemanager#Message"
 }
 },
 "traits": {
 "aws.protocols#awsQueryError": {
 "code": "InvalidParameterValueProvided",
 "httpResponseCode": 400
 },
 "smithy.api#documentation": "<p>One or more parameter values are not valid.</p>",
 "smithy.api#error": "client",
 "smithy.api#httpError": 400
 }
},
"com.amazonaws.licensemanager#InvalidResourceStateException": {
 "type": "structure",
 "members": {

```

```

 "Message": {
 "target": "com.amazonaws.licensemanager#Message"
 }
 },
 "traits": {
 "aws.protocols#awsQueryError": {

 "code": "InvalidResourceState",
 "httpResponseCode": 400
 },
 "smithy.api#documentation": "<p>License Manager cannot allocate a license to a resource because of its
state. </p>\n <p>For example, you cannot allocate a license to an instance in the process of shutting\n
down.</p>",
 "smithy.api#error": "client",
 "smithy.api#httpError": 400
 }
},
"com.amazonaws.licensemanager#InventoryFilter": {
 "type": "structure",
 "members": {
 "Name": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Name of the filter.</p>",
 "smithy.api#required": {}
 }
 },
 "Condition": {
 "target": "com.amazonaws.licensemanager#InventoryFilterCondition",
 "traits": {
 "smithy.api#documentation": "<p>Condition of the filter.</p>",
 "smithy.api#required": {}
 }
 },
 "Value": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Value of the filter.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>An inventory filter.</p>"
 }
},
"com.amazonaws.licensemanager#InventoryFilterCondition": {
 "type": "enum",
 "members": {

```

```

"EQUALS": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "EQUALS"
 }
},
"NOT_EQUALS": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "NOT_EQUALS"
 }
},
"BEGINS_WITH": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "BEGINS_WITH"
 }
},
"CONTAINS": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "CONTAINS"
 }
}
},
"com.amazonaws.licensemanager#InventoryFilterList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#InventoryFilter"
 }
},
"com.amazonaws.licensemanager#Issuer": {
 "type": "structure",
 "members": {
 "Name": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Issuer name.</p>",
 "smithy.api#required": {}
 }
 }
 },
 "SignKey": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Asymmetric KMS key from Key Management Service. The KMS key must have a key usage of sign and verify, \n and support the RSASSA-PSS SHA-256 signing algorithm.</p>"
 }
 }
}

```



```

 }
 },
 "traits": {
 "smithy.api#documentation": "<p>Details about the issuer of a license.</p>"
 }
},
"com.amazonaws.licensemanager#IssuerDetails": {
 "type": "structure",
 "members": {
 "Name": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 {
 "smithy.api#documentation": "<p>Issuer name.</p>"
 }
 },
 "SignKey": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Asymmetric KMS key from Key Management Service. The KMS
key must have a key usage of sign and verify, \n and support the RSASSA-PSS SHA-256 signing
algorithm.</p>"
 }
 },
 "KeyFingerprint": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Issuer key fingerprint.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>Details associated with the issuer of a license.</p>"
 }
 },
 "com.amazonaws.licensemanager#License": {
 "type": "structure",
 "members": {
 "LicenseArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
 }
 },
 "LicenseName": {
 "target": "com.amazonaws.licensemanager#String",

```

```

 "traits": {
 "smithy.api#documentation": "<p>License name.</p>"
 }
 },
 "ProductName": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Product name.</p>"
 }
 },
 "ProductSKU": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation":
"<p>Product SKU.</p>"
 }
 },
 "Issuer": {
 "target": "com.amazonaws.licensemanager#IssuerDetails",
 "traits": {
 "smithy.api#documentation": "<p>License issuer.</p>"
 }
 },
 "HomeRegion": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Home Region of the license.</p>"
 }
 },
 "Status": {
 "target": "com.amazonaws.licensemanager#LicenseStatus",
 "traits": {
 "smithy.api#documentation": "<p>License status.</p>"
 }
 },
 "Validity": {
 "target": "com.amazonaws.licensemanager#DatetimeRange",
 "traits": {
 "smithy.api#documentation": "<p>Date and time range during which the license is valid, in ISO8601-UTC
format.</p>"
 }
 },
 "Beneficiary": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>License beneficiary.</p>"
 }
 }

```

```

 },
 "Entitlements": {
 "target": "com.amazonaws.licensemanager#EntitlementList",
 "traits": {
 "smithy.api#documentation": "<p>License entitlements.</p>"
 }
 },
 "ConsumptionConfiguration": {
 "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
 "traits": {
 "smithy.api#documentation": "<p>Configuration for consumption of the license.</p>"
 }
 }
 },
 "LicenseMetadata": {
 "target": "com.amazonaws.licensemanager#MetadataList",
 "traits": {
 "smithy.api#documentation": "<p>License metadata.</p>"
 }
 },
 "CreateTime": {
 "target": "com.amazonaws.licensemanager#ISO8601DateTime",
 "traits": {
 "smithy.api#documentation": "<p>License creation time.</p>"
 }
 },
 "Version": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>License version.</p>"
 }
 }
},
"traits": {
 "smithy.api#documentation": "<p>Software license that is managed in License Manager.</p>"
}
},
"com.amazonaws.licensemanager#LicenseConfiguration":
{
 "type": "structure",
 "members": {
 "LicenseConfigurationId": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Unique ID of the license configuration.</p>"
 }
 },
 "LicenseConfigurationArn": {

```

```

 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
 }
 },
 "Name": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Name of the license configuration.</p>"
 }
 },
 "Description": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Description of the license configuration.</p>"
 }
 },
 "LicenseCountingType": {
 "target": "com.amazonaws.licensemanager#LicenseCountingType",
 "traits": {
 "smithy.api#documentation": "<p>Dimension to use to track the license inventory.</p>"
 }
 },
 "LicenseRules": {
 "target": "com.amazonaws.licensemanager#StringList",
 "traits": {
 "smithy.api#documentation": "<p>License rules.</p>"
 }
 },
 "LicenseCount": {
 "target": "com.amazonaws.licensemanager#BoxLong",
 "traits": {
 "smithy.api#documentation": "<p>Number of licenses managed by the license
configuration.</p>"
 }
 },
 "LicenseCountHardLimit": {
 "target": "com.amazonaws.licensemanager#BoxBoolean",
 "traits": {
 "smithy.api#documentation": "<p>Number of available licenses as a hard limit.</p>"
 }
 },
 "DisassociateWhenNotFound": {
 "target": "com.amazonaws.licensemanager#BoxBoolean",
 "traits": {
 "smithy.api#documentation": "<p>When true, disassociates a resource when software is
uninstalled.</p>"
 }
 }

```

```

 },
 "ConsumedLicenses": {
 "target": "com.amazonaws.licensemanager#BoxLong",
 "traits": {
 "smithy.api#documentation": "<p>Number of licenses consumed. </p>"
 }
 },
 "Status": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Status of the license configuration.</p>"
 }
 },
 "OwnerAccountId": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Account ID of the license configuration's owner.</p>"
 }
 },
 "ConsumedLicenseSummaryList": {
 "target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",
 "traits": {
 "smithy.api#documentation": "<p>Summaries for licenses consumed by various resources.</p>"
 }
 },
 "ManagedResourceSummaryList": {
 "target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
 "traits": {
 "smithy.api#documentation": "<p>Summaries for managed resources.</p>"
 }
 },
 "ProductInformationList": {
 "target": "com.amazonaws.licensemanager#ProductInformationList",
 "traits": {
 "smithy.api#documentation": "<p>Product information.</p>"
 }
 },
 "AutomatedDiscoveryInformation": {
 "target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
 "traits": {
 "smithy.api#documentation": "<p>Automated discovery information.</p>"
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>A license configuration is an abstraction of a customer license

```

agreement that can be consumed and enforced by License Manager. Components include specifications for the license

type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, Dedicated Instance, Dedicated Host, or all of these), host affinity (how long a VM must be associated with a host), and the number of licenses purchased and used.

```
 }
 },
 "com.amazonaws.licensemanager#LicenseConfigurationAssociation": {
 "type": "structure",
 "members": {
 "ResourceArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
 }
 },
 "ResourceType": {
 "target": "com.amazonaws.licensemanager#ResourceType",
 "traits": {
 "smithy.api#documentation": "<p>Type of server resource.</p>"
 }
 },
 "ResourceOwnerId": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>ID of the Amazon Web Services account that owns the resource consuming licenses.</p>"
 }
 },
 "AssociationTime": {
 "target": "com.amazonaws.licensemanager#DateTime",
 "traits": {
 "smithy.api#documentation": "<p>Time when the license configuration was associated with the resource.</p>"
 }
 },
 "AmiAssociationScope": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Scope of AMI associations. The possible value is <code>cross-account</code>.</p>"
 }
 }
 },
 "traits": {
```

```

"smithy.api#documentation": "<p>Describes an association with a license configuration.</p>"
 }
},
"com.amazonaws.licensemanager#LicenseConfigurationAssociations": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#LicenseConfigurationAssociation"
 }
},
"com.amazonaws.licensemanager#LicenseConfigurationStatus": {
 "type": "enum",
 "members": {
 "AVAILABLE": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "AVAILABLE"
 }
 },
 "DISABLED": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "DISABLED"
 }
 }
 }
},
"com.amazonaws.licensemanager#LicenseConfigurationUsage": {

 "type": "structure",
 "members": {
 "ResourceArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
 }
 },
 "ResourceType": {
 "target": "com.amazonaws.licensemanager#ResourceType",
 "traits": {
 "smithy.api#documentation": "<p>Type of resource.</p>"
 }
 },
 "ResourceStatus": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Status of the resource.</p>"
 }
 }
 },

```

```

"ResourceOwnerId": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>ID of the account that owns the resource.</p>"
 }
},
"AssociationTime": {
 "target": "com.amazonaws.licensemanager#DateTime",
 "traits": {
 "smithy.api#documentation": "<p>Time when the license configuration was initially associated with
the resource.</p>"
 }
},
"ConsumedLicenses": {
 "target": "com.amazonaws.licensemanager#BoxLong",
 "traits": {
 "smithy.api#documentation": "<p>Number of licenses consumed by the resource.</p>"
 }
},
"traits": {
 "smithy.api#documentation": "<p>Details about the usage of a resource associated with a license
configuration.</p>"
}
},
"com.amazonaws.licensemanager#LicenseConfigurationUsageList":
{
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#LicenseConfigurationUsage"
 }
},
"com.amazonaws.licensemanager#LicenseConfigurations": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#LicenseConfiguration"
 }
},
"com.amazonaws.licensemanager#LicenseConversionContext": {
 "type": "structure",
 "members": {
 "UsageOperation": {
 "target": "com.amazonaws.licensemanager#UsageOperation",
 "traits": {
 "smithy.api#documentation": "<p>The Usage operation value that corresponds to the license type you
are converting your resource from. For more information about which platforms correspond to which usage
operation values see <a href='\"https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/billing-info-

```



```

fields.html#billing-info">Sample
data: usage operation by platform\n \n </p>"
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>Information about a license type conversion task.</p>"
 }
},
"com.amazonaws.licensemanager#LicenseConversionTask": {
 "type": "structure",
 "members": {
 "LicenseConversionTaskId": {
 "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
 "traits": {
 "smithy.api#documentation": "<p>The ID of the license type conversion task.</p>"
 }
 },
 "ResourceArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the resource associated
with the license type\n
conversion task.</p>"
 }
 },
 "SourceLicenseContext": {
 "target": "com.amazonaws.licensemanager#LicenseConversionContext",
 "traits": {
 "smithy.api#documentation": "<p>Information about the license type this conversion task converted
from.</p>"
 }
 },
 "DestinationLicenseContext": {
 "target": "com.amazonaws.licensemanager#LicenseConversionContext",
 "traits": {
 "smithy.api#documentation": "<p>Information about the license type this conversion task converted
to.</p>"
 }
 },
 "Status": {
 "target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
 "traits": {
 "smithy.api#documentation": "<p>The status of the conversion task.</p>"
 }
 }
 },
 "StatusMessage": {

```

```

 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>The status message for the conversion task.</p>"
 }
 },
 "StartTime": {
 "target": "com.amazonaws.licensemanager#DateTime",
 "traits": {
 "smithy.api#documentation": "<p>The time the conversion task was started at.</p>"
 }
 },
 "LicenseConversionTime": {
 "target": "com.amazonaws.licensemanager#DateTime",
 "traits": {
 "smithy.api#documentation": "<p>The time the usage operation value of the resource was
changed.</p>"
 }
 },
 "EndTime": {
 "target": "com.amazonaws.licensemanager#DateTime",
 "traits": {
 "smithy.api#documentation": "<p>The time the conversion task was completed.</p>"
 }
 }
},
"traits": {
 "smithy.api#documentation": "<p>Information about a license type conversion task.</p>"
}
},
"com.amazonaws.licensemanager#LicenseConversionTaskId": {
 "type": "string",
 "traits": {
 "smithy.api#length": {
 "min": 0,
 "max": 50
 },
 "smithy.api#pattern": "^\\ct-[a-zA-Z0-9]*$"
 }
},
"com.amazonaws.licensemanager#LicenseConversionTaskStatus": {
 "type": "enum",
 "members": {
 "IN_PROGRESS": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "IN_PROGRESS"
 }
 }
 }
}

```

```

 },
 "SUCCEEDED": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "SUCCEEDED"
 }
 },
 "FAILED": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "FAILED"
 }
 }
 }
},
"com.amazonaws.licensemanager#LicenseConversionTasks": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#LicenseConversionTask"
 }
},
"com.amazonaws.licensemanager#LicenseCountingType": {
 "type": "enum",
 "members": {
 "VCPU": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "vCPU"
 }
 }
 }
},

"INSTANCE": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Instance"
 }
},
"CORE": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Core"
 }
},
"SOCKET": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Socket"
 }
}

```

```

 }
 }
},
"com.amazonaws.licensemanager#LicenseDeletionStatus": {
 "type": "enum",
 "members": {
 "PENDING_DELETE": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "PENDING_DELETE"
 }
 },
 "DELETED": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "DELETED"
 }
 }
 }
},
"com.amazonaws.licensemanager#LicenseList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#License"
 }
},
"com.amazonaws.licensemanager#LicenseOperationFailure": {
 "type": "structure",
 "members": {
 "ResourceArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
 }
 },
 "ResourceType": {
 "target": "com.amazonaws.licensemanager#ResourceType",
 "traits": {
 "smithy.api#documentation":
"<p>Resource type.</p>"
 }
 },
 "ErrorMessage": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Error message.</p>"
 }
 }
 }
}

```

```

 },
 "FailureTime": {
 "target": "com.amazonaws.licensemanager#DateTime",
 "traits": {
 "smithy.api#documentation": "<p>Failure time.</p>"
 }
 },
 "OperationName": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Name of the operation.</p>"
 }
 },
 "ResourceOwnerId": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation":
"<p>ID of the Amazon Web Services account that owns the resource.</p>"
 }
 },
 "OperationRequestedBy": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>The requester is \"License Manager Automated Discovery\".</p>"
 }
 },
 "MetadataList": {
 "target": "com.amazonaws.licensemanager#MetadataList",
 "traits": {
 "smithy.api#documentation": "<p>Reserved.</p>"
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>Describes the failure of a license operation.</p>"
 },
 "com.amazonaws.licensemanager#LicenseOperationFailureList": {
 "type": "list",
 "member": {
 "target":
"com.amazonaws.licensemanager#LicenseOperationFailure"
 }
 },
 "com.amazonaws.licensemanager#LicenseSpecification": {
 "type": "structure",
 "members": {
 "LicenseConfigurationArn": {

```

```

 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
 "smithy.api#required": {}
 }
 },
 "AmiAssociationScope": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Scope of AMI associations. The possible value is <code>cross-
account</code>.</p>"
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>Details for associating a license configuration
with a resource.</p>"
 }
},
"com.amazonaws.licensemanager#LicenseSpecifications": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#LicenseSpecification"
 }
},
"com.amazonaws.licensemanager#LicenseStatus": {
 "type": "enum",
 "members": {
 "AVAILABLE": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "AVAILABLE"
 }
 },
 "PENDING_AVAILABLE": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "PENDING_AVAILABLE"
 }
 },
 "DEACTIVATED": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "DEACTIVATED"
 }
 },
 "SUSPENDED": {

```

```

 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "SUSPENDED"
 }
 },
 "EXPIRED": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "EXPIRED"
 }
 },
 "PENDING_DELETE": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "PENDING_DELETE"
 }
 },
 "DELETED": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "DELETED"
 }
 }
},
"com.amazonaws.licensemanager#LicenseUsage": {
 "type":
"structure",
 "members": {
 "EntitlementUsages": {
 "target": "com.amazonaws.licensemanager#EntitlementUsageList",
 "traits": {
 "smithy.api#documentation": "<p>License entitlement usages.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>Describes the entitlement usage associated with a license.</p>"
 }
},
"com.amazonaws.licensemanager#LicenseUsageException": {
 "type": "structure",
 "members": {
 "Message": {
 "target": "com.amazonaws.licensemanager#Message"
 }
 },
 "traits": {

```

```

 "aws.protocols#awsQueryError": {
 "code": "LicenseUsageFailure",
 "httpResponseCode": 412
 },
 "smithy.api#documentation": "<p>You do not have
enough licenses available to support a new resource launch.</p>",
 "smithy.api#error": "client",
 "smithy.api#httpError": 412
 }
},
"com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Lists the resource associations for the specified license
configuration.</p>\n <p>Resource associations need not consume licenses from a license configuration. \n
For example, an AMI or a stopped instance might not consume a license (depending on \n the license
rules).</p>"
 }
},
"com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest": {
 "type": "structure",

```



```

"members": {
 "LicenseConfigurationArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of a license configuration.</p>",
 "smithy.api#required": {}
 }
 },
 "MaxResults": {
 "target": "com.amazonaws.licensemanager#BoxInteger",
 "traits": {
 "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
},
"com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse":
{
 "type": "structure",
 "members": {
 "LicenseConfigurationAssociations": {
 "target": "com.amazonaws.licensemanager#LicenseConfigurationAssociations",
 "traits": {
 "smithy.api#documentation": "<p>Information about the associations for the license
configuration.</p>"
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#ListDistributedGrants": {

```

```

"type": "operation",
"input": {
 "target": "com.amazonaws.licensemanager#ListDistributedGrantsRequest"
},
"output": {
 "target": "com.amazonaws.licensemanager#ListDistributedGrantsResponse"
},
"errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
"traits": {
 "smithy.api#documentation": "<p>Lists the grants distributed for the specified license.</p>"
}
},
"com.amazonaws.licensemanager#ListDistributedGrantsRequest": {
 "type": "structure",
 "members": {
 "GrantArns": {
 "target": "com.amazonaws.licensemanager#ArnList",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the grants.</p>"
 }
 },
 "Filters": {
 "target": "com.amazonaws.licensemanager#FilterList",
 "traits": {
 "smithy.api#documentation": "<p>Filters to scope the results. The following filters are supported:</p>\n
 \n
 \n
 <p>\n
 <code>LicenseArn</code>\n
 \n
 \n
 </p>\n

```

```

 \n \n <p>\n <code>GrantStatus</code>\n </p>\n \n \n <p>\n <code>GranteePrincipalARN</code>\n </p>\n \n \n <p>\n <code>ProductSKU</code>\n </p>\n \n \n <p>\n <code>LicenseIssuerName</code>\n </p>\n \n"
 }
},
"NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
},
"MaxResults": {
 "target": "com.amazonaws.licensemanager#MaxSize100",
 "traits": {
 "smithy.api#documentation":
"<p>Maximum number of results to return in a single call.</p>"
 }
},
"traits": {
 "smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListDistributedGrantsResponse": {
 "type": "structure",
 "members": {
 "Grants": {
 "target": "com.amazonaws.licensemanager#GrantList",
 "traits": {
 "smithy.api#documentation": "<p>Distributed grant details.</p>"
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations": {
 "type": "operation",

```

```



```

```

 }
 },
 "traits": {
 "smithy.api#input": {}
 }
},
"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse": {
 "type": "structure",
 "members": {
 "LicenseOperationFailureList": {
 "target": "com.amazonaws.licensemanager#LicenseOperationFailureList",
 "traits": {
 "smithy.api#documentation": "<p>License configuration operations that failed.</p>"
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#ListLicenseConfigurations": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#ListLicenseConfigurationsResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
 }
]
}

```

```

{
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
 "target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
 "smithy.api#documentation": "<p>Lists the license configurations for your account.</p>"
}
},
"com.amazonaws.licensemanager#ListLicenseConfigurationsRequest": {
 "type": "structure",
 "members": {
 "LicenseConfigurationArns": {
 "target": "com.amazonaws.licensemanager#StringList",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Names (ARN) of the license configurations.</p>"
 }
 },
 "MaxResults":
 {
 "target": "com.amazonaws.licensemanager#BoxInteger",
 "traits": {
 "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 },
 "Filters": {
 "target": "com.amazonaws.licensemanager#Filters",
 "traits": {
 "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical operators\n are supported:</p>\n \n \n <p>\n <code>licenseCountingType</code> - The dimension for which licenses are counted.\n Possible values are <code>vCPU</code> | <code>Instance</code> | <code>Core</code> | <code>Socket</code>.\n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n \n \n <p>\n <code>enforceLicenseCount</code> - A Boolean value that indicates whether hard license enforcement is used. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n \n \n <p>\n
```

`usagelimitExceeded` - A Boolean value that indicates whether the available licenses have been exceeded. \n Logical operators are `EQUALS` | `NOT_EQUALS`.

</li>\n </ul>"

```
 }
 }
},
"traits": {
 "smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListLicenseConfigurationsResponse": {
 "type": "structure",
 "members": {
 "LicenseConfigurations": {
 "target": "com.amazonaws.licensemanager#LicenseConfigurations",
 "traits": {
 "smithy.api#documentation": "<p>Information about the license configurations.</p>"
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#ListLicenseConversionTasks": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#ListLicenseConversionTasksRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#ListLicenseConversionTasksResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 }
]
}
```

```

 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Lists the license type conversion tasks for your account.</p>"
 }
},
"com.amazonaws.licensemanager#ListLicenseConversionTasksRequest": {

"type": "structure",
"members": {
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 },
 "MaxResults": {
 "target": "com.amazonaws.licensemanager#BoxInteger",
 "traits": {
 "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
 }
 },
 "Filters": {
 "target": "com.amazonaws.licensemanager#Filters",
 "traits": {
 "smithy.api#documentation": "<p>\n Filters to scope the results. Valid filters are
<code>ResourceArns</code> and <code>Status</code>.\n </p>"
 }
 }
},
"traits": {
 "smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListLicenseConversionTasksResponse": {
 "type": "structure",
 "members": {
 "LicenseConversionTasks": {
 "target": "com.amazonaws.licensemanager#LicenseConversionTasks",
 "traits": {
 "smithy.api#documentation": "<p>Information about the license configuration tasks for your
account.</p>"

```



```

 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 }
},
"traits": {
 "smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListLicenseManagerReportGenerators": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
 "traits": {

```

```

 "smithy.api#documentation": "<p>Lists the report generators for your account.</p>"
 }
},
"com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest": {
 "type": "structure",
 "members": {
 "Filters": {
 "target": "com.amazonaws.licensemanager#FilterList",
 "traits": {
 "smithy.api#documentation": "<p>Filters to scope the results. The following filters are supported:
</p>\n \n \n <p>\n <code>LicenseConfigurationArn</code>\n </p>\n \n "
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 },
 "MaxResults": {
 "target": "com.amazonaws.licensemanager#MaxSize100",
 "traits": {
 "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
},
"com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse": {
 "type": "structure",
 "members": {
 "ReportGenerators": {
 "target": "com.amazonaws.licensemanager#ReportGeneratorList",
 "traits": {
 "smithy.api#documentation": "<p>A report generator that creates periodic reports about your license
configurations.</p>"
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 }
 }
}

```

```

 },
 "traits": {
 "smithy.api#output": {}
 }
 },
 "com.amazonaws.licensemanager#ListLicenseSpecificationsForResource": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse"
 },
 "errors":
 [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Describes the license configurations for the specified resource.</p>"
 }
},
"com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest": {
 "type": "structure",
 "members": {
 "ResourceArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of a resource that has an associated license configuration.</p>",
 "smithy.api#required": {}
 }
 },
 "MaxResults": {

```

```

 "target": "com.amazonaws.licensemanager#BoxInteger",
 "traits": {
 "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 }
},
"traits": {
 "smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse":
{
 "type": "structure",
 "members": {
 "LicenseSpecifications": {
 "target": "com.amazonaws.licensemanager#LicenseSpecifications",
 "traits": {
 "smithy.api#documentation": "<p>License configurations associated with a resource.</p>"
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#ListLicenseVersions": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#ListLicenseVersionsRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#ListLicenseVersionsResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 }
]
}

```

```

 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Lists all versions of the specified license.</p>"
 }
},
"com.amazonaws.licensemanager#ListLicenseVersionsRequest":
{
 "type": "structure",
 "members": {
 "LicenseArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
 "smithy.api#required": {}
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 },
 "MaxResults": {
 "target": "com.amazonaws.licensemanager#MaxSize100",
 "traits": {
 "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
 }
 }
 },
 "traits":
{
 "smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListLicenseVersionsResponse": {

```

```

"type": "structure",
"members": {
 "Licenses": {
 "target": "com.amazonaws.licensemanager#LicenseList",
 "traits": {
 "smithy.api#documentation": "<p>License details.</p>"
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 }
},
"traits": {
 "smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListLicenses": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#ListLicensesRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#ListLicensesResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
 "traits": {

```

```

 "smithy.api#documentation": "<p>Lists
the licenses for your account.</p>"
 }
},
"com.amazonaws.licensemanager#ListLicensesRequest": {
 "type": "structure",
 "members": {
 "LicenseArns": {
 "target": "com.amazonaws.licensemanager#ArnList",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the licenses.</p>"
 }
 },
 "Filters": {
 "target": "com.amazonaws.licensemanager#FilterList",
 "traits": {
 "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n \n \n <p>\n <code>Beneficiary</code>\n </p>\n \n \n <p>\n <code>ProductSKU</code>\n </p>\n \n \n <p>\n <code>Fingerprint</code>\n </p>\n \n \n <p>\n <code>Status</code>\n </p>\n \n "
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 },
 "MaxResults": {
 "target": "com.amazonaws.licensemanager#MaxSize100",
 "traits": {
 "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
},
"com.amazonaws.licensemanager#ListLicensesResponse":
{
 "type": "structure",
 "members": {
 "Licenses": {
 "target": "com.amazonaws.licensemanager#LicenseList",
 "traits": {

```

```

 "smithy.api#documentation": "<p>License details.</p>"
 }
},
"NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
}
},
"traits": {
 "smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListReceivedGrants": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#ListReceivedGrantsRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#ListReceivedGrantsResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation":

```



"<p>Lists grants that are received. Received grants are grants created while specifying the\n recipient as this Amazon Web Services account, your organization, or an organizational unit\n (OU) to which this member account belongs.</p>"

```
 }
 },
 "com.amazonaws.licensemanager#ListReceivedGrantsForOrganization": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Lists the grants received for all accounts in the organization.</p>"
 }
 },
 "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationRequest": {
 "type": "structure",
 "members": {
 "LicenseArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the received license.</p>",

```

```

 "smithy.api#required": {}
 },
 "Filters": {
 "target": "com.amazonaws.licensemanager#FilterList",
 "traits": {
 "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n \n \n <p>\n <code>ParentArn</code>\n </p>\n \n \n <p>\n <code>GranteePrincipalArn</code>\n </p>\n \n "
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next
set of results.</p>"
 }
 },
 "MaxResults": {
 "target": "com.amazonaws.licensemanager#MaxSize100",
 "traits": {
 "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
},
"com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationResponse": {
 "type": "structure",
 "members": {
 "Grants": {
 "target": "com.amazonaws.licensemanager#GrantList",
 "traits": {
 "smithy.api#documentation": "<p>Lists the grants the organization has received.</p>"
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 }
 },
 "traits": {

```

```

 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#ListReceivedGrantsRequest": {
 "type": "structure",
 "members": {
 "GrantArns": {
 "target": "com.amazonaws.licensemanager#ArnList",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the grants.</p>"
 }
 },
 "Filters": {
 "target": "com.amazonaws.licensemanager#FilterList",
 "traits": {
 "smithy.api#documentation": "<p>Filters to scope the results. The following filters are supported:</p>\n
 \n
 \n
 <p>\n
 <code>ProductSKU</code>\n
 </p>\n
 \n
 \n
 <p>\n
 <code>LicenseIssuerName</code>\n
 </p>\n
 \n
 \n
 <p>\n
 <code>LicenseArn</code>\n
 </p>\n
 \n
 \n
 <p>\n
 <code>GrantStatus</code>\n
 </p>\n
 \n
 \n
 <p>\n
 <code>GranterAccountId</code>\n
 </p>\n
 \n
 "
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 },
 "MaxResults": {
 "target": "com.amazonaws.licensemanager#MaxSize100",
 "traits": {
 "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
},
"com.amazonaws.licensemanager#ListReceivedGrantsResponse": {
 "type": "structure",
 "members": {
 "Grants": {
 "target": "com.amazonaws.licensemanager#GrantList",
 "traits": {
 "smithy.api#documentation": "<p>Received grant details.</p>"
 }
 }
 }
}

```

```

 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 }
},
"traits": {
 "smithy.api#output":
{}
}
},
"com.amazonaws.licensemanager#ListReceivedLicenses": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#ListReceivedLicensesRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#ListReceivedLicensesResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Lists received licenses.</p>"
 }
}

```

```

 },
 "com.amazonaws.licensemanager#ListReceivedLicensesForOrganization": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Lists the licenses received for all accounts in the organization.</p>"
 }
 },
 "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationRequest": {
 "type": "structure",
 "members": {
 "Filters": {
 "target": "com.amazonaws.licensemanager#FilterList",
 "traits": {
 "smithy.api#documentation": "<p>Filters to scope the results. The following filters are supported:</p>\n
 \n
 \n
 <p>\n
 <code>Beneficiary</code>\n
 \n
 \n
 <p>\n
 <code>ProductSKU</code>\n
 \n
 "
 }
 }
 }
 }
 }

```

```

 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 },
 "MaxResults": {
 "target": "com.amazonaws.licensemanager#MaxSize100",
 "traits": {
 "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
 },
 "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationResponse": {
 "type": "structure",
 "members": {
 "Licenses": {
 "target": "com.amazonaws.licensemanager#GrantedLicenseList",
 "traits": {
 "smithy.api#documentation": "<p>Lists the licenses the organization has received.</p>"
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
 },
 "com.amazonaws.licensemanager#ListReceivedLicensesRequest": {
 "type": "structure",
 "members": {
 "LicenseArns": {
 "target": "com.amazonaws.licensemanager#ArnList",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the licenses.</p>"
 }
 }
 }
 }
}

```

```

 },
 "Filters": {
 "target": "com.amazonaws.licensemanager#FilterList",
 "traits": {
 "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n \n \n <p>\n <code>ProductSKU</code>\n </p>\n \n \n <p>\n <code>Status</code>\n </p>\n \n \n <p>\n <code>Fingerprint</code>\n </p>\n \n \n <p>\n <code>IssuerName</code>\n </p>\n \n \n <p>\n <code>Beneficiary</code>\n </p>\n \n "
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 },
 "MaxResults": {
 "target": "com.amazonaws.licensemanager#MaxSize100",
 "traits": {
 "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
},
"com.amazonaws.licensemanager#ListReceivedLicensesResponse": {
 "type": "structure",
 "members": {
 "Licenses": {
 "target": "com.amazonaws.licensemanager#GrantedLicenseList",
 "traits": {
 "smithy.api#documentation": "<p>Received license details.</p>"
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 }
 }
},
"traits": {

```

```

 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#ListResourceInventory": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#ListResourceInventoryRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#ListResourceInventoryResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#FailedDependencyException"
 },
 {
 "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target":
"com.amazonaws.licensemanager#ServerInternalException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Lists resources managed using Systems Manager inventory.</p>"
 }
},
"com.amazonaws.licensemanager#ListResourceInventoryRequest": {
 "type": "structure",
 "members": {
 "MaxResults": {
 "target": "com.amazonaws.licensemanager#BoxInteger",
 "traits": {
 "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
 }
 },
 },

```



```

 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 },
 "Filters": {
 "target":
"com.amazonaws.licensemanager#InventoryFilterList",
 "traits": {
 "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical
operators\n are supported:</p>\n \n \n <p>\n <code>account_id</code>
- The ID of the Amazon Web Services account that owns the resource.\n Logical operators are
<code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n \n \n <p>\n <code>application_name</code> - The name of the application. \n Logical operators are
<code>EQUALS</code> | <code>BEGINS_WITH</code>.</p>\n \n \n <p>\n <code>license_included</code> - The type of license included. \n Logical operators are
<code>EQUALS</code> | <code>NOT_EQUALS</code>.\n Possible values are <code>sql-server-
enterprise</code>
| \n <code>sql-server-standard</code> | \n <code>sql-server-web</code> | \n
<code>windows-server-datacenter</code>.</p>\n \n \n <p>\n <code>platform</code> - The platform of the resource.\n Logical operators are <code>EQUALS</code> |
<code>BEGINS_WITH</code>.</p>\n \n \n <p>\n <code>resource_id</code> - The ID of the resource. \n Logical operators are <code>EQUALS</code> |
<code>NOT_EQUALS</code>.</p>\n \n \n <p>\n <code>tag:<key></code> - The key/value combination of a tag assigned \n to the resource. Logical
operators are <code>EQUALS</code> (single account) or\n <code>EQUALS</code> |
<code>NOT_EQUALS</code> (cross account).</p>\n \n "
 }
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
},
"com.amazonaws.licensemanager#ListResourceInventoryResponse": {
 "type": "structure",
 "members": {
 "ResourceInventoryList": {
 "target": "com.amazonaws.licensemanager#ResourceInventoryList",
 "traits": {
 "smithy.api#documentation": "<p>Information about the resources.</p>"
 }
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {

```

```

 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
}
},
"traits": {
 "smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListTagsForResource": {
 "type":
"operation",
 "input": {
 "target": "com.amazonaws.licensemanager#ListTagsForResourceRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#ListTagsForResourceResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Lists the
tags for the specified license configuration.</p>"
 }
},
"com.amazonaws.licensemanager#ListTagsForResourceRequest": {
 "type": "structure",
 "members": {
 "ResourceArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
 "smithy.api#required": {}

```

```

 }
 },
 "traits": {
 "smithy.api#input": {}
 }
},
"com.amazonaws.licensemanager#ListTagsForResourceResponse": {
 "type": "structure",
 "members": {
 "Tags": {
 "target": "com.amazonaws.licensemanager#TagList",
 "traits": {
 "smithy.api#documentation": "<p>Information about the tags.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#ListTokens": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#ListTokensRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#ListTokensResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],

```

```

 "traits": {
 "smithy.api#documentation": "<p>Lists your tokens.</p>"
 }
 },
 "com.amazonaws.licensemanager#ListTokensRequest": {
 "type": "structure",
 "members": {
 "TokenIds": {
 "target": "com.amazonaws.licensemanager#StringList",
 "traits": {
 "smithy.api#documentation": "<p>Token IDs.</p>"
 }
 },
 "Filters": {
 "target": "com.amazonaws.licensemanager#FilterList",
 "traits": {
 "smithy.api#documentation": "<p>Filters to scope the results. The following filter is supported:</p>\n
\n \n <p>\n <code>LicenseArns</code>\n </p>\n \n "
 }
 }
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 },
 "MaxResults": {
 "target": "com.amazonaws.licensemanager#MaxSize100",
 "traits": {
 "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
 }
 }
},
"traits": {
 "smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListTokensResponse": {
 "type": "structure",
 "members": {
 "Tokens": {
 "target": "com.amazonaws.licensemanager#TokenList",
 "traits": {
 "smithy.api#documentation":
"<p>Received token details.</p>"
 }
 }
 }
}

```

```

 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#ListUsageForLicenseConfiguration": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Lists all license usage records for a license configuration, displaying license\n consumption details by resource at a selected point in time. Use this action to audit the\n current license consumption for any license inventory and configuration.</p>"
 }
},
"com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest":

```

```

{
 "type": "structure",
 "members": {
 "LicenseConfigurationArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
 "smithy.api#required": {}
 }
 },
 "MaxResults": {
 "target": "com.amazonaws.licensemanager#BoxInteger",
 "traits": {
 "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
 }
 },
 "NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
 },
 "Filters": {
 "target": "com.amazonaws.licensemanager#Filters",
 "traits": {
 "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical
operators\n are supported:</p>\n \n \n <p>\n
<code>resourceArn</code> - The ARN of the license configuration resource.\n Logical operators are
<code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n \n \n <p>\n
<code>resourceType</code> - The resource type (<code>EC2_INSTANCE</code> |
<code>EC2_HOST</code> | <code>EC2_AMI</code> |
<code>SYSTEMS_MANAGER_MANAGED_INSTANCE</code>).\n Logical operators are
<code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n \n \n <p>\n
<code>resourceAccount</code>
- The ID of the account that owns the resource. \n Logical operators are <code>EQUALS</code> |
<code>NOT_EQUALS</code>.</p>\n \n "
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
 },
 "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse": {
 "type": "structure",
 "members": {

```

```

"LicenseConfigurationUsageList": {
 "target": "com.amazonaws.licensemanager#LicenseConfigurationUsageList",
 "traits": {
 "smithy.api#documentation": "<p>Information about the license configurations.</p>"
 }
},
"NextToken": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
 }
}
},
"traits": {
 "smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#Location": {
 "type": "string"
},
"com.amazonaws.licensemanager#Long": {
 "type": "long"
},
"com.amazonaws.licensemanager#ManagedResourceSummary": {
 "type": "structure",
 "members": {
 "ResourceType": {
 "target": "com.amazonaws.licensemanager#ResourceType",
 "traits": {
 "smithy.api#documentation": "<p>Type of resource associated with a license.</p>"
 }
 },
 "AssociationCount": {
 "target": "com.amazonaws.licensemanager#BoxLong",
 "traits": {
 "smithy.api#documentation": "<p>Number of resources associated with licenses.</p>"
 }
 }
 }
},
"traits": {
 "smithy.api#documentation": "<p>Summary information about a managed resource.</p>"
}
},
"com.amazonaws.licensemanager#ManagedResourceSummaryList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#ManagedResourceSummary"
 }
}

```

```

 }
 },
 "com.amazonaws.licensemanager#MaxSize100": {
 "type": "integer",
 "traits": {
 "smithy.api#range": {
 "min": 1,
 "max": 100
 }
 }
 },
 "com.amazonaws.licensemanager#MaxSize3StringList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#String"
 },
 "traits": {
 "smithy.api#length": {
 "min": 0,
 "max": 3
 }
 }
 }
},
"com.amazonaws.licensemanager#Message": {
 "type": "string"
},
"com.amazonaws.licensemanager#Metadata": {
 "type": "structure",
 "members": {
 "Name": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>The key name.</p>"
 }
 },
 "Value": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>The value.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>Describes key/value pairs.</p>"
 }
},
"com.amazonaws.licensemanager#MetadataList": {

```



```

 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#Metadata"
 }
 },
 "com.amazonaws.licensemanager#NoEntitlementsAllowedException": {
 "type": "structure",
 "members": {
 "Message": {
 "target": "com.amazonaws.licensemanager#Message"
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>There are no entitlements found for this license, or the entitlement
maximum count is reached.</p>",
 "smithy.api#error": "client",
 "smithy.api#httpError": 400
 }
 },
 "com.amazonaws.licensemanager#Options": {
 "type": "structure",
 "members": {
 "ActivationOverrideBehavior": {
 "target": "com.amazonaws.licensemanager#ActivationOverrideBehavior",
 "traits": {
 "smithy.api#documentation": "<p>An activation option for your grant that determines the behavior of
activating
a grant.\n Activation options can only be used with granted licenses sourced from the Amazon Web Services
Marketplace. Additionally, the operation must specify the value of <code>ACTIVE</code> for the\n
<code>Status</code> parameter.</p>\n \n \n <p>As a license administrator, you can
optionally specify an\n <code>ActivationOverrideBehavior</code> when activating a grant.</p>\n
\n \n <p>As a grantor, you can optionally specify an\n
<code>ActivationOverrideBehavior</code> when you activate a grant for a grantee\n account in your
organization.</p>\n \n \n <p>As a grantee, if the grantor creating the distributed
grant doesnt specify an\n <code>ActivationOverrideBehavior</code>, you can optionally specify one
when you\n are activating the grant.</p>\n \n <dl>\n <dt>DISTRIBUTED_GRANTS_ONLY</dt>\n <dd>\n
<p>Use this value to activate a grant without replacing any member accounts\n active grants for the same
product.</p>\n </dd>\n <dt>ALL_GRANTS_PERMITTED_BY_ISSUER</dt>\n <dd>\n
<p>Use this value to activate a grant and disable other active grants in any\n member accounts for the
same product. This action will also replace their\n previously activated grants with this activated
grant.</p>\n </dd>\n </dl>"
 }
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>The options you can specify when you create a new version of a grant,
such as activation\n override behavior. For more information, see <a

```

```

href="https://docs.aws.amazon.com/license-manager/latest/userguide/granted-licenses.html">Granted
licenses in License Manager in the <i>License Manager User Guide</i>.</p>"
 }
 },
 "com.amazonaws.licensemanager#OrganizationConfiguration": {
 "type": "structure",
 "members": {
 "EnableIntegration": {
 "target": "com.amazonaws.licensemanager#Boolean",
 "traits": {
 "smithy.api#default": false,
 "smithy.api#documentation": "<p>Enables Organizations integration.</p>",
 "smithy.api#required": {}
 }
 }
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>Configuration information for Organizations.</p>"
 }
},
"com.amazonaws.licensemanager#PrincipalArnList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#Arn"
 },
 "traits":
{
 "smithy.api#length": {
 "min": 1,
 "max": 1
 }
}
},
"com.amazonaws.licensemanager#ProductInformation": {
 "type": "structure",
 "members": {
 "ResourceType": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Resource type. The possible values are
<code>SSM_MANAGED</code> | <code>RDS</code>.</p>",
 "smithy.api#required": {}
 }
 }
 },
 "ProductInformationFilterList": {
 "target": "com.amazonaws.licensemanager#ProductInformationFilterList",
 "traits": {
 "smithy.api#documentation": "<p>A Product information filter consists of a

```

`ProductInformationFilterComparator` which is a logical operator, a `ProductInformationFilterName` which specifies the type of filter being declared, and a `ProductInformationFilterValue` that specifies the value to filter on. Accepted values for `ProductInformationFilterName` are listed here along with descriptions and valid options for `ProductInformationFilterComparator`.

The following filters and logical operators are supported when the resource type is `SSM_MANAGED`:

- `ApplicationName` - The name of the application. Logical operator is `EQUALS`.
- `ApplicationPublisher` - The publisher of the application. Logical operator is `EQUALS`.
- `ApplicationVersion` - The version of the application. Logical operator is `EQUALS`.
- `Platform Name` - The name of the platform. Logical operator is `EQUALS`.
- `Platform Type` - The platform type. Logical operator is `EQUALS`.
- `Tag:key` - The key of a tag attached to an Amazon Web Services resource you wish to exclude from automated discovery. Logical operator is `NOT_EQUALS`. The key for your tag must be appended to `Tag:` following the example: `Tag:name-of-your-key`. `ProductInformationFilterValue` is optional if you are not using values for the key.
- `AccountId` - The 12-digit ID of an Amazon Web Services account you wish to exclude from automated discovery. Logical operator is `NOT_EQUALS`.
- `License Included` - The type of license included. Logical operators are `EQUALS` and `NOT_EQUALS`. Possible values are: `sql-server-enterprise` | `sql-server-standard` | `sql-server-web` | `windows-server-datacenter`.

The following filters and logical operators are supported when the resource type is `RDS`:

- `Engine Edition` - The edition of the database engine. Logical operator is `EQUALS`. Possible values are: `oracle-ee` | `oracle-se` | `oracle-se1` | `oracle-se2`.
- `License Pack` - The license pack. Logical operator is `EQUALS`. Possible values are: `data guard` | `diagnostic pack sqlt` | `tuning pack sqlt` | `ols` | `olap`.

```

 "smithy.api#required": {}
 }
},
"traits": {
 "smithy.api#documentation": "<p>Describes product information for a license configuration.</p>"
}
},
"com.amazonaws.licensemanager#ProductInformationFilter": {
 "type": "structure",
 "members": {
 "ProductInformationFilterName": {
 "target": "com.amazonaws.licensemanager#String",

```

```

 "traits": {
 "smithy.api#documentation": "<p>Filter name.</p>",
 "smithy.api#required": {}
 }
 },
 "ProductInformationFilterValue": {
 "target": "com.amazonaws.licensemanager#StringList",
 "traits": {
 "smithy.api#documentation": "<p>Filter value.</p>"
 }
 },
 "ProductInformationFilterComparator": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Logical operator.</p>",
 "smithy.api#required": {}
 }
 }
},
"traits": {
 "smithy.api#documentation":
"<p>Describes product information filters.</p>"
}
},
"com.amazonaws.licensemanager#ProductInformationFilterList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#ProductInformationFilter"
 }
},
"com.amazonaws.licensemanager#ProductInformationList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#ProductInformation"
 }
},
"com.amazonaws.licensemanager#ProvisionalConfiguration": {
 "type": "structure",
 "members": {
 "MaxTimeToLiveInMinutes": {
 "target": "com.amazonaws.licensemanager#BoxInteger",
 "traits": {
 "smithy.api#documentation": "<p>Maximum time for the provisional configuration, in minutes.</p>",
 "smithy.api#required": {}
 }
 }
 }
},

```

```

 "traits": {
 "smithy.api#documentation": "<p>Details about a provisional configuration.</p>"
 }
 },
 "com.amazonaws.licensemanager#RateLimitExceededException": {
 "type": "structure",
 "members": {
 "Message": {
 "target": "com.amazonaws.licensemanager#Message"
 }
 },
 "traits": {
 "aws.protocols#awsQueryError": {
 "code": "RateLimitExceeded",
 "httpResponseCode": 429
 },
 "smithy.api#documentation": "<p>Too many requests have been submitted. Try again after a brief
wait.</p>",
 "smithy.api#error": "client",
 "smithy.api#httpError": 429
 }
 },
 "com.amazonaws.licensemanager#ReceivedMetadata": {
 "type": "structure",
 "members": {

"ReceivedStatus": {
 "target": "com.amazonaws.licensemanager#ReceivedStatus",
 "traits": {
 "smithy.api#documentation": "<p>Received status.</p>"
 }
 },
 "ReceivedStatusReason": {
 "target": "com.amazonaws.licensemanager#StatusReasonMessage",
 "traits": {
 "smithy.api#documentation": "<p>Received status reason.</p>"
 }
 },
 "AllowedOperations": {
 "target": "com.amazonaws.licensemanager#AllowedOperationList",
 "traits": {
 "smithy.api#documentation": "<p>Allowed operations.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>Metadata associated with received licenses and grants.</p>"
 }
}

```

```

 },
 "com.amazonaws.licensemanager#ReceivedStatus":
 {
 "type": "enum",
 "members": {
 "PENDING_WORKFLOW": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "PENDING_WORKFLOW"
 }
 },
 "PENDING_ACCEPT": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "PENDING_ACCEPT"
 }
 },
 "REJECTED": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "REJECTED"
 }
 },
 "ACTIVE": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "ACTIVE"
 }
 },
 "FAILED_WORKFLOW": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "FAILED_WORKFLOW"
 }
 },
 "DELETED": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "DELETED"
 }
 },
 "DISABLED": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "DISABLED"
 }
 },
 }
 },

```

```

 "WORKFLOW_COMPLETED": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "WORKFLOW_COMPLETED"
 }
 }
 },
 "com.amazonaws.licensemanager#RedirectException": {
 "type": "structure",
 "members": {
 "Location": {
 "target": "com.amazonaws.licensemanager#Location",
 "traits": {
 "smithy.api#httpHeader": "Location"
 }
 },
 "Message": {
 "target": "com.amazonaws.licensemanager#Message"
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>This is not the correct Region for the resource. Try again.</p>",
 "smithy.api#error": "client",
 "smithy.api#httpError": 308
 }
 },
 "com.amazonaws.licensemanager#RejectGrant": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#RejectGrantRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#RejectGrantResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 }
]
 }
}

```

```

 },
 {
 "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Rejects the specified grant.</p>"
 }
},
"com.amazonaws.licensemanager#RejectGrantRequest":
{
 "type": "structure",
 "members": {
 "GrantArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
 "smithy.api#required": {}
 }
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
},
"com.amazonaws.licensemanager#RejectGrantResponse": {
 "type": "structure",
 "members": {
 "GrantArn": {
 "target": "com.amazonaws.licensemanager#Arn",
 "traits": {
 "smithy.api#documentation": "<p>Grant ARN.</p>"
 }
 },
 "Status": {
 "target": "com.amazonaws.licensemanager#GrantStatus",
 "traits": {
 "smithy.api#documentation": "<p>Grant status.</p>"
 }
 }
 },
 "Version": {

```



```

 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Grant version.</p>"
 }
 },
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#RenewType": {
 "type": "enum",
 "members": {
 "NONE": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "None"
 }
 },
 "WEEKLY": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Weekly"
 }
 },
 "MONTHLY": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "Monthly"
 }
 }
 }
},
"com.amazonaws.licensemanager#ReportContext": {
 "type": "structure",
 "members": {
 "licenseConfigurationArns": {
 "target": "com.amazonaws.licensemanager#ArnList",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration that
this generator reports on.</p>",
 "smithy.api#required": {}
 }
 }
 }
},
"traits": {
 "smithy.api#documentation": "<p>Details of the license configuration that this generator reports on.</p>"
}

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```

 }
 },
 "com.amazonaws.licensemanager#ReportFrequency": {
 "type": "structure",
 "members": {
 {
 "value": {
 "target": "com.amazonaws.licensemanager#Integer",
 "traits": {
 "smithy.api#documentation": "<p>Number of times within the frequency period that a report is
generated. \n The only supported value is <code>1</code>.</p>"
 }
 },
 "period": {
 "target": "com.amazonaws.licensemanager#ReportFrequencyType",
 "traits": {
 "smithy.api#documentation": "<p>Time period between each report. The period can be daily, weekly,
or monthly.</p>"
 }
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>Details about how frequently reports are generated.</p>"
 }
 },
 "com.amazonaws.licensemanager#ReportFrequencyType": {
 "type": "enum",
 "members": {
 "DAY": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "DAY"
 }
 },
 "WEEK": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "WEEK"
 }
 },
 "MONTH": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "MONTH"
 }
 }
 }
 }
 }
}

```

```

 },
 "com.amazonaws.licensemanager#ReportGenerator": {
 "type": "structure",
 "members": {
 "ReportGeneratorName": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Name of the report generator.</p>"
 }
 },
 "ReportType": {
 "target": "com.amazonaws.licensemanager#ReportTypeList",
 "traits": {
 "smithy.api#documentation": "<p>Type of reports that are generated.</p>"
 }
 },
 "ReportContext": {
 "target": "com.amazonaws.licensemanager#ReportContext",
 "traits": {
 "smithy.api#documentation": "<p>License configuration type for this generator.</p>"
 }
 },
 "ReportFrequency": {
 "target": "com.amazonaws.licensemanager#ReportFrequency",
 "traits": {
 "smithy.api#documentation": "<p>Details about how frequently reports are generated.</p>"
 }
 },
 "LicenseManagerReportGeneratorArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator.</p>"
 }
 },
 "LastRunStatus": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Status of the last report generation attempt.</p>"
 }
 },
 "LastRunFailureReason": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Failure message for the last report generation attempt.</p>"
 }
 }
 }
 }
 },

```

```

 "LastReportGenerationTime": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Time the last report was generated at.</p>"
 }
 },
 "ReportCreatorAccount": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>The Amazon Web Services account ID used to create the report
generator.</p>"
 }
 },
 "Description": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Description of the report generator.</p>"
 }
 },
 "S3Location": {
 "target": "com.amazonaws.licensemanager#S3Location",
 "traits": {
 "smithy.api#documentation": "<p>Details of the S3 bucket that report generator reports are published
to.</p>"
 }
 },
 "CreateTime": {
 "target":
"com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Time the report was created.</p>"
 }
 },
 "Tags": {
 "target": "com.amazonaws.licensemanager#TagList",
 "traits": {
 "smithy.api#documentation": "<p>Tags associated with the report generator.</p>"
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>Describe the details of a report generator.</p>"
 },
 "com.amazonaws.licensemanager#ReportGeneratorList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#ReportGenerator"
 }
 }
 }
}

```

```

 }
 },
 "com.amazonaws.licensemanager#ReportGeneratorName": {
 "type": "string",
 "traits": {
 "smithy.api#length":
 {
 "min": 1,
 "max": 100
 }
 }
},
"com.amazonaws.licensemanager#ReportType": {
 "type": "enum",
 "members": {
 "LICENSE_CONFIGURATION_SUMMARY_REPORT": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "LicenseConfigurationSummaryReport"
 }
 },
 "LICENSE_CONFIGURATION_USAGE_REPORT": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "LicenseConfigurationUsageReport"
 }
 }
 }
},
"com.amazonaws.licensemanager#ReportTypeList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#ReportType"
 }
},
"com.amazonaws.licensemanager#ResourceInventory":
{
 "type": "structure",
 "members": {
 "ResourceId": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>ID of the resource.</p>"
 }
 },
 "ResourceType": {
 "target": "com.amazonaws.licensemanager#ResourceType",
 "traits": {

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```

 "smithy.api#documentation": "<p>Type of resource.</p>"
 }
},
"ResourceArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
 }
},
"Platform": {
 "target": "com.amazonaws.licensemanager#String",

"traits": {
 "smithy.api#documentation": "<p>Platform of the resource.</p>"
 }
},
"PlatformVersion": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Platform version of the resource in the inventory.</p>"
 }
},
"ResourceOwningAccountId": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>ID of the account that owns the resource.</p>"
 }
},
"traits": {
 "smithy.api#documentation": "<p>Details about a resource.</p>"
}
},
"com.amazonaws.licensemanager#ResourceInventoryList": {
 "type": "list",
 "member": {
 "target":
"com.amazonaws.licensemanager#ResourceInventory"
 }
},
"com.amazonaws.licensemanager#ResourceLimitExceededException": {
 "type": "structure",
 "members": {
 "Message": {
 "target": "com.amazonaws.licensemanager#Message"
 }
 }
},
"traits": {

```

```

 "aws.protocols#awsQueryError": {
 "code": "ResourceLimitExceeded",
 "httpResponseCode": 400
 },
 "smithy.api#documentation": "<p>Your resource limits have been exceeded.</p>",
 "smithy.api#error": "client",
 "smithy.api#httpError": 400
 }
},
"com.amazonaws.licensemanager#ResourceNotFoundException": {
 "type": "structure",
 "members": {
 "Message": {
 "target": "com.amazonaws.licensemanager#Message"
 }
 },
 "traits": {
 "aws.protocols#awsQueryError": {
 "code": "InvalidResource.NotFound",
 "httpResponseCode": 400
 },
 "smithy.api#documentation": "<p>The resource cannot be found.</p>",
 "smithy.api#error": "client",
 "smithy.api#httpError": 400
 }
},
"com.amazonaws.licensemanager#ResourceType": {
 "type": "enum",
 "members": {
 "EC2_INSTANCE": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "EC2_INSTANCE"
 }
 },
 "EC2_HOST": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "EC2_HOST"
 }
 },
 "EC2_AMI": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "EC2_AMI"
 }
 },
 "RDS": {

```

```

 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "RDS"
 }
 },
 "SYSTEMS_MANAGER_MANAGED_INSTANCE": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "SYSTEMS_MANAGER_MANAGED_INSTANCE"
 }
 }
},
"com.amazonaws.licensemanager#S3Location": {
 "type": "structure",
 "members": {
 "bucket": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Name of the S3 bucket reports are published to.</p>"
 }
 }
 },
 "keyPrefix": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Prefix of the S3 bucket reports are published to.</p>"
 }
 }
},
"traits": {
 "smithy.api#documentation": "<p>Details of the S3 bucket that report generator reports are published to.</p>"
}
},
"com.amazonaws.licensemanager#ServerInternalException": {
 "type": "structure",
 "members": {
 "Message": {
 "target": "com.amazonaws.licensemanager#Message"
 }
 },
 "traits": {
 "aws.protocols#awsQueryError": {
 "code": "InternalServerError",
 "httpResponseCode": 500
 },
 "smithy.api#documentation": "<p>The server experienced an internal

```



```

error. Try again.</p>",
 "smithy.api#error": "server",
 "smithy.api#httpError": 500
}
},
"com.amazonaws.licensemanager#SignedToken": {
 "type": "string",
 "traits": {
 "smithy.api#length": {
 "min": 4096
 }
 }
},
"com.amazonaws.licensemanager#StatusReasonMessage": {
 "type": "string",
 "traits": {
 "smithy.api#length": {
 "min": 0,
 "max": 400
 },
 "smithy.api#pattern": "^[\s\S]+$"
 }
},
"com.amazonaws.licensemanager#String": {
 "type": "string"
},
"com.amazonaws.licensemanager#StringList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#String"
 }
},
"com.amazonaws.licensemanager#Tag":
{
 "type": "structure",
 "members": {
 "Key": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Tag key.</p>"
 }
 },
 "Value": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Tag value.</p>"
 }
 }
 }
}

```

```

 },
 "traits": {
 "smithy.api#documentation": "<p>Details about a tag for a license configuration.</p>"
 }
 },
 "com.amazonaws.licensemanager#TagKeyList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#String"
 }
 },
 "com.amazonaws.licensemanager#TagList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#Tag"
 }
 },
 "com.amazonaws.licensemanager#TagResource": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#TagResourceRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#TagResourceResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Adds the specified tags to the specified license configuration.</p>"
 }
 },
 "com.amazonaws.licensemanager#TagResourceRequest": {

```

```

"type": "structure",
"members": {
 "ResourceArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
 "smithy.api#required": {}
 }
 },
 "Tags": {
 "target": "com.amazonaws.licensemanager#TagList",
 "traits": {
 "smithy.api#documentation": "<p>One or more tags.</p>",
 "smithy.api#required": {}
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
},
"com.amazonaws.licensemanager#TagResourceResponse": {
 "type": "structure",
 "members": {},
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#TokenData": {
 "type": "structure",
 "members": {
 "TokenId": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token ID.</p>"
 }
 },
 "TokenType": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Type of token generated. The supported value is
<code>REFRESH_TOKEN</code>.</p>"
 }
 },
 "LicenseArn": {

```

```

"target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
 }
},
"ExpirationTime": {
 "target": "com.amazonaws.licensemanager#ISO8601DateTime",
 "traits": {
 "smithy.api#documentation": "<p>Token expiration time, in ISO8601-UTC format.</p>"
 }
},
"TokenProperties": {
 "target": "com.amazonaws.licensemanager#MaxSize3StringList",
 "traits": {
 "smithy.api#documentation": "<p>Data specified by the caller.</p>"
 }
},
"RoleArns": {
 "target": "com.amazonaws.licensemanager#ArnList",
 "traits": {
 "smithy.api#documentation":
"<p>Amazon Resource Names (ARN) of the roles included in the token.</p>"
 }
},
"Status": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Token status. The possible values are
<code>AVAILABLE</code> and <code>DELETED</code>.</p>"
 }
},
"traits": {
 "smithy.api#documentation": "<p>Describes a token.</p>"
},
"com.amazonaws.licensemanager#TokenList": {
 "type": "list",
 "member": {
 "target": "com.amazonaws.licensemanager#TokenData"
 }
},
"com.amazonaws.licensemanager#TokenString": {
 "type": "string",
 "traits": {
 "smithy.api#length": {
 "min": 0,
 "max": 4096
 }
 }
}

```

```

 },

 "smithy.api#pattern": "^\\S+$"
 }
},
"com.amazonaws.licensemanager#TokenType": {
 "type": "enum",
 "members": {
 "REFRESH_TOKEN": {
 "target": "smithy.api#Unit",
 "traits": {
 "smithy.api#enumValue": "REFRESH_TOKEN"
 }
 }
 }
},
"com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException": {
 "type": "structure",
 "members": {
 "Message": {
 "target": "com.amazonaws.licensemanager#Message"
 }
 },
 "traits": {
 "smithy.api#documentation": "<p>The digital signature method is unsupported. Try your request again.</p>",
 "smithy.api#error": "client",
 "smithy.api#httpError": 400
 }
},
"com.amazonaws.licensemanager#UntagResource":
{
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#UntagResourceRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#UntagResourceResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 }
]
}

```

```

 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Removes
the specified tags from the specified license configuration.</p>"
 }
},
"com.amazonaws.licensemanager#UntagResourceRequest": {
 "type": "structure",
 "members": {
 "ResourceArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
 "smithy.api#required": {}
 }
 },
 "TagKeys": {
 "target": "com.amazonaws.licensemanager#TagKeyList",
 "traits": {
 "smithy.api#documentation": "<p>Keys identifying the tags to remove.</p>",
 "smithy.api#required": {}
 }
 }
 },
 "traits": {
 "smithy.api#input": {}
 }
},
"com.amazonaws.licensemanager#UntagResourceResponse":
{
 "type": "structure",
 "members": {},
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#UpdateLicenseConfiguration": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest"
 }
}

```

```

 },
 "output": {
 "target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target":
"com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Modifies the attributes of an existing license configuration.</p>"
 }
 },
 "com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest": {
 "type": "structure",
 "members": {
 "LicenseConfigurationArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
 "smithy.api#required": {}
 }
 }
 },
 "LicenseConfigurationStatus": {
 "target": "com.amazonaws.licensemanager#LicenseConfigurationStatus",
 "traits": {
 "smithy.api#documentation": "<p>New status of the license configuration.</p>"
 }
 },
 "LicenseRules": {

```

```

 "target": "com.amazonaws.licensemanager#StringList",
 "traits": {
 "smithy.api#documentation": "<p>New license rule. The only rule that you can add after you create a
license\n configuration is licenseAffinityToHost.</p>"
 }
 },
 "LicenseCount": {
 "target": "com.amazonaws.licensemanager#BoxLong",
 "traits": {
 "smithy.api#documentation": "<p>New number of licenses managed by the license
configuration.</p>"
 }
 },
 "LicenseCountHardLimit":
{
 "target": "com.amazonaws.licensemanager#BoxBoolean",
 "traits": {
 "smithy.api#documentation": "<p>New hard limit of the number of available licenses.</p>"
 }
},
 "Name": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>New name of the license configuration.</p>"
 }
 },
 "Description": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>New description of the license configuration.</p>"
 }
 },
 "ProductInformationList": {
 "target": "com.amazonaws.licensemanager#ProductInformationList",
 "traits": {
 "smithy.api#documentation": "<p>New product information.</p>"
 }
 },
 "DisassociateWhenNotFound": {
 "target": "com.amazonaws.licensemanager#BoxBoolean",
 "traits": {
 "smithy.api#documentation": "<p>When true, disassociates a resource when software is
uninstalled.</p>"
 }
 }
},
 "traits": {

```



```

 "smithy.api#input": {}
 }
},
"com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse": {
 "type": "structure",
 "members": {},
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 },
 {
 "target": "com.amazonaws.licensemanager#ValidationException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Updates a report generator.</p>\n <p>After you make changes to a report generator, it starts generating new reports within 60 minutes of being updated.</p>"
 }
}

```

```

 },
 "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest": {
 "type": "structure",
 "members": {
 "LicenseManagerReportGeneratorArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator to
update.</p>",
 "smithy.api#required": {}
 }
 },
 "ReportGeneratorName": {
 "target": "com.amazonaws.licensemanager#ReportGeneratorName",
 "traits": {
 "smithy.api#documentation": "<p>Name of the report generator.</p>",
 "smithy.api#required": {}
 }
 },
 "Type": {
 "target": "com.amazonaws.licensemanager#ReportTypeList",
 "traits": {
 "smithy.api#documentation": "<p>Type of reports to generate. The following report types are
supported:</p>\n \n \n <p>License configuration report - Reports the number and
details of consumed licenses for a license configuration.</p>\n \n \n <p>Resource
report - Reports the tracked licenses and resource consumption for a license configuration.</p>\n \n ",
 "smithy.api#required": {}
 }
 },
 "ReportContext": {
 "target": "com.amazonaws.licensemanager#ReportContext",
 "traits": {
 "smithy.api#documentation": "<p>The report context.</p>",
 "smithy.api#required": {}
 }
 },
 "ReportFrequency": {
 "target": "com.amazonaws.licensemanager#ReportFrequency",
 "traits": {
 "smithy.api#documentation": "<p>Frequency by which reports are generated.</p>",
 "smithy.api#required": {}
 }
 },
 "ClientToken": {
 "target": "com.amazonaws.licensemanager#ClientRequestToken",
 "traits": {
 "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the

```

idempotency of the request.</p>",

```
"smithy.api#required": {}
 }
},
"Description": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Description of the report generator.</p>"
 }
},
"traits": {
 "smithy.api#input": {}
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse": {
 "type": "structure",
 "members": {},
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidResourceStateException"
 },
 {
 "target": "com.amazonaws.licensemanager#LicenseUsageException"
 },
 {
```

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 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 }
],
"traits":
{
 "smithy.api#documentation": "<p>Adds or removes the specified license configurations for the specified Amazon Web Services resource.</p>\n <p>You can update the license specifications of AMIs, instances, and hosts.\n You cannot update the license specifications for launch templates and CloudFormation templates, \n as they send license configurations to the operation that creates the resource.</p>"
}
},
"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest": {
 "type": "structure",
 "members": {
 "ResourceArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the Amazon Web Services resource.</p>",
 "smithy.api#required": {}
 }
 }
 },
 "AddLicenseSpecifications":
{
 "target": "com.amazonaws.licensemanager#LicenseSpecifications",
 "traits": {
 "smithy.api#documentation": "<p>ARNs of the license configurations to add.</p>"
 }
},
"RemoveLicenseSpecifications": {
 "target": "com.amazonaws.licensemanager#LicenseSpecifications",
 "traits": {
 "smithy.api#documentation": "<p>ARNs of the license configurations to remove.</p>"
 }
}
},
"traits": {
 "smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse": {
 "type": "structure",
 "members": {},
 "traits": {
 "smithy.api#output": {}
 }
}
}

```

```

 }
 },
 "com.amazonaws.licensemanager#UpdateServiceSettings": {
 "type": "operation",
 "input": {
 "target": "com.amazonaws.licensemanager#UpdateServiceSettingsRequest"
 },
 "output": {
 "target": "com.amazonaws.licensemanager#UpdateServiceSettingsResponse"
 },
 "errors": [
 {
 "target": "com.amazonaws.licensemanager#AccessDeniedException"
 },
 {
 "target": "com.amazonaws.licensemanager#AuthorizationException"
 },
 {
 "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
 },
 {
 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
 },
 {
 "target": "com.amazonaws.licensemanager#ServerInternalException"
 }
],
 "traits": {
 "smithy.api#documentation": "<p>Updates License Manager settings for the current Region.</p>"
 }
 },
 "com.amazonaws.licensemanager#UpdateServiceSettingsRequest": {
 "type": "structure",
 "members": {
 "S3BucketArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the Amazon S3 bucket where the License Manager information is stored.</p>"
 }
 },
 "SnsTopicArn": {
 "target": "com.amazonaws.licensemanager#String",
 "traits": {
 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the Amazon SNS topic used for License Manager alerts.</p>"
 }
 }
 }
 }
}

```

```

 }
 },
 "OrganizationConfiguration": {
 "target": "com.amazonaws.licensemanager#OrganizationConfiguration",
 "traits": {
 "smithy.api#documentation": "<p>Enables integration with Organizations for cross-account
discovery.</p>"
 }
 },
 "EnableCrossAccountsDiscovery": {
 "target": "com.amazonaws.licensemanager#BoxBoolean",
 "traits": {
 "smithy.api#documentation": "<p>Activates cross-account discovery.</p>"
 }
 }
},
"traits": {
 "smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UpdateServiceSettingsResponse": {
 "type": "structure",
 "members": {},
 "traits": {
 "smithy.api#output": {}
 }
},
"com.amazonaws.licensemanager#UsageOperation": {
 "type": "string",
 "traits": {
 "smithy.api#length": {
 "min":
0,
 "max": 50
 }
 }
},
"com.amazonaws.licensemanager#ValidationException": {
 "type": "structure",
 "members": {
 "Message": {
 "target": "com.amazonaws.licensemanager#Message"
 }
 }
},
"traits": {
 "smithy.api#documentation": "<p>The provided input is not valid. Try your request again.</p>",
 "smithy.api#error": "client",
 "smithy.api#httpError": 400
}
}

```

```

 }
 }
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a
// workspace to Grafana Enterprise (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html)
// .
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
 if params == nil {
 params = &AssociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out
 := result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.

```

```

//
// This member is required.
WorkspaceId *string

noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

// A structure containing data about the workspace.
//
// This member is required.
Workspace *types.WorkspaceDescription

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{ }, middleware.After)
if
err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
}

```



```

if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
err != nil {
 return err
}
if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "grafana",
 OperationName: "AssociateLicense",
}
}

```

```

}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
 params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version of the
 license.
 //
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde
}

```

```

type DeleteLicenseOutput struct {

 // Date when the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack,
options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
}

```

```

}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack);
err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "DeleteLicense",
}
}

```

# 1.630 k8s-io-api 0.20.5

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# See the OWNERS docs at <https://go.k8s.io/owners>

approvers:

- sig-contributor-experience-leads

reviewers:

- MadhavJivrajani

- Priyankasaggu11929

- cblecker

- jberkus

- kaslin

- mrbobbytables

- nikhita

- palnabarun

emeritus\_approvers:

- paris Pittman

labels:

- sig/contributor-experience

groups:

#

# Mailing lists

#

# Each group here represents a mailing list for the SIG or its subprojects,

# and is not intended to govern access to infrastructure

#

- email-id: community@kubernetes.io

name: community

description: |-

settings:

WhoCanPostMessage: "ANYONE\_CAN\_POST"

MembersCanPostAsTheGroup: "true"

ReconcileMembers: "true"

owners:

- ihor@cncf.io

- killen.bob@gmail.com

managers:

- ameukam@gmail.com

- pal.nabarun95@gmail.com

- rajula96reddy@gmail.com

members:

- balves@linuxfoundation.org

- chris@chrisshort.net

- dgiles@linuxfoundation.org

- harshitasao@gmail.com

- jberkus@redhat.com

- puja@giantswarm.io

- rajaskakodkar16@gmail.com

- samudralavamshi@gmail.com

- email-id: dev@kubernetes.io

name: dev

description: |-

Mailing list for upstream Kubernetes contributors. This includes process changes, release info, contributor events, and more.

Try #kubernetes-users on slack or discuss.k8s.io for end user troubleshooting and discussion.

settings:

WhoCanJoin: "ANYONE\_CAN\_JOIN"

WhoCanViewGroup: "ANYONE\_CAN\_VIEW"

WhoCanDiscoverGroup: "ANYONE\_CAN\_DISCOVER"

WhoCanPostMessage: "ANYONE\_CAN\_POST"

MessageModerationLevel: "MODERATE\_NON\_MEMBERS"

WhoCanViewMembership: "ALL\_MANAGERS\_CAN\_VIEW"

WhoCanModerateMembers: "OWNERS\_AND\_MANAGERS"

WhoCanModerateContent: "OWNERS\_AND\_MANAGERS"

MembersCanPostAsTheGroup: "false"

ReconcileMembers: "false"

owners:

- contributors@kubernetes.io

- spiffxp@gmail.com

- killen.bob@gmail.com

- davanum@gmail.com

managers:

- nikitaraaghunath@gmail.com
- jdumars@gmail.com
- d.panigrahi.nitrkl@gmail.com
- ihor.dvoretzkyi@gmail.com
- atharvashinde179@gmail.com
- ctadeu@gmail.com
- pal.nabarun95@gmail.com

- email-id: github@kubernetes.io

name: github

description:

|-

    Kubernetes GitHub Admins

settings:

    WhoCanPostMessage: "ANYONE\_CAN\_POST"

    ReconcileMembers: "true"

owners:

- cblecker@gmail.com

managers:

- killen.bob@gmail.com
- madhav.jiv@gmail.com
- nikitaraaghunath@gmail.com
- pal.nabarun95@gmail.com
- priyankasaggu11929@gmail.com

- email-id: lwkd@kubernetes.io

name: lwkd

description: |-

    alias for Last Week In Kubernetes editors

settings:

    WhoCanPostMessage: "ANYONE\_CAN\_POST"

    MembersCanPostAsTheGroup: "true"

    ReconcileMembers: "true"

owners:

- jberkus@redhat.com
- noah@coderanger.net

- email-id: moderators@kubernetes.io

name: moderators

description: |-

    Moderators for various Community properties

settings:

    WhoCanPostMessage: "ANYONE\_CAN\_POST"

    ReconcileMembers: "true"

owners:

- contributors@kubernetes.io

- cblecker@gmail.com

managers:

- alarcj137@gmail.com
- dylan.graham@gmail.com
- idealthack@gmail.com
- ihor@cncf.io
- jdumars@gmail.com
- jeef111x@gmail.com
- jorgec@vmware.com
- ktbry@google.com
- noah@coderanger.net
- killen.bob@gmail.com

members:

- guslees@gmail.com
- james@munnelly.eu
- jspeed@redhat.com
- krajakavitha@gmail.com
- lenferinkroy@gmail.com
- manjunath.cse@gmail.com
- nikitaraughunath@gmail.com
- puja@giantswarm.io
- ramamoorthypanthiyaraja@gmail.com
- spiffxp@google.com
- jberkus@redhat.com
- marky.r.jackson@gmail.com

- email-id: sig-contribex@kubernetes.io

name: sig-contribex

description: |

Group dedicated to improving the Kubernetes contributor experience.

owners:

- cblecker@gmail.com
- jberkus@redhat.com
- kaslin.fields@gmail.com
- killen.bob@gmail.com
- madhav.jiv@gmail.com
- nikitaraughunath@gmail.com
- pal.nabarun95@gmail.com
- priyankasaggu11929@gmail.com

settings:

WhoCanJoin: "ANYONE\_CAN\_JOIN"

WhoCanViewGroup: "ANYONE\_CAN\_VIEW"

WhoCanDiscoverGroup: "ANYONE\_CAN\_DISCOVER"

WhoCanPostMessage: "ANYONE\_CAN\_POST"

MessageModerationLevel: "MODERATE\_NON\_MEMBERS"

WhoCanViewMembership: "ALL\_MANAGERS\_CAN\_VIEW"

WhoCanModerateMembers: "OWNERS\_AND\_MANAGERS"

WhoCanModerateContent: "OWNERS\_AND\_MANAGERS"

MembersCanPostAsTheGroup: "false"

ReconcileMembers: "false"

- email-id: sig-contribex-leads@kubernetes.io

name: sig-contribex-leads

description: SIG ContribEx Leads

owners:

- cblecker@gmail.com

- jberkus@redhat.com

- kaslin.fields@gmail.com

- killen.bob@gmail.com

- madhav.jiv@gmail.com

- nikitaraughunath@gmail.com

- pal.nabarun95@gmail.com

- priyankasaggu11929@gmail.com

settings:

AllowWebPosting: "true"

ReconcileMembers: "true"

WhoCanPostMessage: "ANYONE\_CAN\_POST"

WhoCanViewGroup:

"ALL\_MEMBERS\_CAN\_VIEW"

- email-id: summit-team@kubernetes.io

name: summit-team

description: |-

Staff for the upcoming Kubernetes Contributor Summit

settings:

WhoCanPostMessage: "ANYONE\_CAN\_POST"

MembersCanPostAsTheGroup: "true"

ReconcileMembers: "true"

owners:

- killen.bob@gmail.com

managers:

- pnigelbrown@gmail.com

- jberkus@redhat.com

- noah.r.abrahams@gmail.com

members:

- balves@linuxfoundation.org

- mars.toktonaliev@gmail.com

- joseph.r.sandoval@gmail.com

- cailyn.s.e@protonmail.com

- avineshtrpathi1@gmail.com

- justnitish06@gmail.com

- chenchen.hcc@gmail.com

- natalivlatko@gmail.com

- laura@nimbinatus.com

- wangzefeng@huawei.com

- paco.xu@daocloud.io

```
- mengjiao.liu@daocloud.io

#
k8s-staging write access for SIG-owned subprojects
#
Each group here represents privileged access to a staging project,
allowing the members
to directly write to GCS and GCR within the
project, as well as trigger Cloud Build within the project. Ideally
this level access is used solely for troubleshooting purposes.
#
Membership should correspond roughly to subproject owners for the set of
subproject artifacts being stored in a given staging project
#

- email-id: k8s-infra-staging-slack-infra@kubernetes.io
name: k8s-infra-staging-slack-infra
description: |-
 ACL for staging Slack Infra
settings:
 ReconcileMembers: "true"
members:
 - ameukam@gmail.com
 - ctadeu@gmail.com
 - jeef111x@gmail.com
 - killen.bob@gmail.com
 - ktbry@google.com
 - james@munnelly.eu
 - nikitaraughunath@gmail.com
 - rajula96reddy@gmail.com

#
k8s-infra owners for sig-owned subprojects
#
Each group here represents highly privileged access to kubernetes project
infrastructure owned or managed by this SIG. A high level of trust is
required for membership
in these groups.
#

RBAC groups:
- grant access to the `namespace-user` role for a single namespace on the `aaa` cluster
- must have WhoCanViewMemberShip: "ALL_MEMBERS_CAN_VIEW"
- must be members of gke-security-groups@kubernetes.io

- email-id: k8s-infra-rbac-elekto@kubernetes.io
name: k8s-infra-rbac-elekto
description: |-
```

Grants access to the `namespace-user` role in the `elekto` namespace on the `aaa` cluster

settings:

ReconcileMembers: "true"

WhoCanViewMembership: "ALL\_MEMBERS\_CAN\_VIEW" # required

members:

- election@kubernetes.io

- email-id: k8s-infra-rbac-slack-infra@kubernetes.io

name: k8s-infra-rbac-slack-infra

description: |-

Grants access to the `namespace-user` role in the `slack-infra` namespace on the `aaa` cluster

settings:

ReconcileMembers: "true"

WhoCanViewMembership: "ALL\_MEMBERS\_CAN\_VIEW" # required

members:

- ameukam@gmail.com

- cblecker@gmail.com

- ctadeu@gmail.com

- davanum@gmail.com

- jeef111x@gmail.com

- killen.bob@gmail.com

- ktbry@google.com

- nikitaraaghunath@gmail.com

- rajula96reddy@gmail.com

- spiffxp@gmail.com

- thockin@google.com

# 1.631 k8s-io-client-go 0.20.5

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# 1.632 common 0.20.0

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# 1.633 [github.com/influxdata/kapacitor](https://github.com/influxdata/kapacitor) 0.0.0-20230412210028-79897085a480

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=====

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# 1.634 flux 0.171.0

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## 1.635 [github.com/uber/athenadriver](https://github.com/uber/athenadriver) 1.1.13

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# 1.636 [github.com/zeebo/mwc](https://github.com/zeebo/mwc) 0.0.4

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## 1.637 googlecloudgo 0.82.0

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```

```
// Code generated by protoc-gen-go_gapic. DO NOT EDIT.
```

```
package compute
```

```
import (
 "bytes"
 "context"
 "fmt"
 "io"
 "math"
 "net/http"
 "net/url"
 "time"

 computepb "cloud.google.com/go/compute/apiv1/computepb"
 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"
 "google.golang.org/grpc"
 "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{
gax.WithTimeout(600000 * time.Millisecond),
},
Get: []gax.CallOption{
gax.WithTimeout(600000 * time.Millisecond),
gax.WithRetry(func() gax.Retryer {
return gax.OnHTTPCodes(gax.Backoff{
Initial: 100 * time.Millisecond,
Max: 60000 * time.Millisecond,
Multiplier: 1.30,
}),
http.StatusGatewayTimeout,
http.StatusServiceUnavailable)
}),
},
GetIamPolicy:
[]gax.CallOption{
gax.WithTimeout(600000 * time.Millisecond),
gax.WithRetry(func() gax.Retryer {
return gax.OnHTTPCodes(gax.Backoff{
Initial: 100 * time.Millisecond,
Max: 60000 * time.Millisecond,
Multiplier: 1.30,
}),
http.StatusGatewayTimeout,
http.StatusServiceUnavailable)
}),
},
Insert: []gax.CallOption{
gax.WithTimeout(600000 * time.Millisecond),
},
List: []gax.CallOption{
gax.WithTimeout(600000 * time.Millisecond),
gax.WithRetry(func() gax.Retryer {
return gax.OnHTTPCodes(gax.Backoff{
Initial: 100 * time.Millisecond,
Max: 60000 * time.Millisecond,
Multiplier: 1.30,
}),
http.StatusGatewayTimeout,
http.StatusServiceUnavailable)
}),
},
}

```



```

SetIamPolicy: []gax.CallOption{
 gax.WithTimeout(600000 * time.Millisecond),
},
TestIamPermissions: []gax.CallOption{
 gax.WithTimeout(600000
* time.Millisecond),
},
}
}

// 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: Connections are now pooled so this method does not always
// return the same resource.
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-* headers to be sent with each request.
```

```
xGoogHeaders []string
```

```
// 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", gax.GoVersion}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogHeaders = []string{"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: This method always returns
nil.
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.
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense()))}

hds = append(c.xGoogHeaders, hds...)
hds
= append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{ }
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
if settings.Path != "" {

```

```

 baseUrl.Path = settings.Path
}
httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
if err != nil {
 return err
}
httpReq = httpReq.WithContext(ctx)
httpReq.Header = headers

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
 return err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
 return err
}

buf, err := io.ReadAll(httpRsp.Body)
if err != nil {
 return err
}

if err := unmarshal(buf, resp); err != nil {
 return 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.
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx,
hds...)
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 := io.ReadAll(httpRsp.Body)
 if err != nil {
 return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
 return 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.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
 url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds
 = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
 append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
 opts...)
 unmarshalOptions := 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 := io.ReadAll(httpRsp.Body)
if err != nil {
 return err
}

if err := unmarshal(buf, resp); err != nil {
 return 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 *compute.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.
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v",
"project", url.QueryEscape(req.GetProject()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
unm := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true }
resp := &compute.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 := io.ReadAll(httpRsp.Body)
 if err != nil {
 return
 }
 err

 if err := unm.Unmarshal(buf, resp); err != nil {
 return 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)
 unmarshalOptions := 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.
hds := append(c.xGoogHeaders, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
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 := io.ReadAll(httpRsp.Body)
 if err != nil {
 return
 }
err
}

if err := unm.Unmarshal(buf, resp); err != nil {
 return 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.
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

```

```

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")

```

```

headers := gax.BuildHeaders(ctx, hds...)
opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
opts...)
unm := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Policy{}
e
:= gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
if settings.Path != "" {
baseUrl.Path = settings.Path
}
httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
if err != nil {
return err
}
httpReq = httpReq.WithContext(ctx)
httpReq.Header = headers

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
return err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
return err
}

buf, err := io.ReadAll(httpRsp.Body)
if err != nil {
return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
return err
}

return nil
}, opts...)
if e != nil {
return nil, e
}
return resp, nil
}

```

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```
func (c *licensesRESTClient) TestIamPermissions(ctx
```

```

context.Context, req *computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
 m := protojson.MarshalOptions{ AllowPartial: true }
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
 return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
 return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 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 := io.ReadAll(httpRsp.Body)
if err != nil {
 return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
 return err
}

return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}
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// WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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// limitations under the License.

// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (
 "bytes"
 "context"
 "fmt"
 "io"
 "net/http"
 "net/url"
 "time"

 computepb "cloud.google.com/go/compute/apiv1/computepb"
 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"
"google.golang.org/grpc"
"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{
 gax.WithTimeout(600000 * time.Millisecond),
 gax.WithRetry(func() gax.Retryer {
 return gax.OnHTTPCodes(gax.Backoff{
 Initial: 100 * time.Millisecond,
 Max: 60000 * time.Millisecond,
 Multiplier: 1.30,
 }),
 http.StatusGatewayTimeout,
 http.StatusServiceUnavailable)
 }),
 },
 TestIamPermissions: []gax.CallOption{
 gax.WithTimeout(600000 * time.Millisecond),
 },
 }
}

// 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: Connections are now pooled so this method does not always
// return the same resource.
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-* headers to be sent with each request.
 xGoogHeaders []string

 // 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", gax.GoVersion}, keyval...)
 kv = append(kv, "gopic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogHeaders = []string{"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: This method always returns nil.
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.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license_code", url.QueryEscape(req.GetLicenseCode()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)

```

```

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 := io.ReadAll(httpRsp.Body)
 if err != nil {
 return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
 return 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.
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)],
opts...)
unm := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true }
resp := &computepb.TestPermissionsResponse{ }
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
 baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
 return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
 return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
 return err
 }
}

```

```
buf, err := io.ReadAll(httpRsp.Body)
if err != nil {
 return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
 return err
}

return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}
```

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// Code generated by protoc-gen-go\_gapic. DO NOT EDIT.

```
package compute_test
```

```
import (
 "context"
```

```

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
 "google.golang.org/api/iterator"
)
```

```
func ExampleNewLicensesRESTClient() {
```

```
 ctx := context.Background()
```

```
 // This snippet has been automatically generated and should be regarded as a code template only.
```

```
 // It will
```

```
 require modifications to work:
```

```
 // - It may require correct/in-range values for request initialization.
```

```
 // - It may require specifying regional endpoints when creating the service client as shown in:
```

```
 // https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
```

```

c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

// TODO: Use client.
_ = c
}

func ExampleLicensesClient_Delete() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 // https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
 // TODO: Handle error.
 }
 defer c.Close()

 req := &compute.DeleteLicenseRequest{
 //
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#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()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 // https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 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/cloud.google.com/go/compute/apiv1/compute#GetLicenseRequest.
}
resp,
err := c.Get(ctx, req)
if err != nil {
// TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
ctx := context.Background()
// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
// https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
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/cloud.google.com/go/compute/apiv1/compute#GetIamPolicyLicenseRequest.
}
resp, err := c.GetIamPolicy(ctx, req)
if err != nil {
// TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_Insert()
{
ctx := context.Background()
// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.

```

```

// - It may require specifying regional endpoints when creating the service client as shown in:
// https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
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/cloud.google.com/go/compute/apiv1/computepb#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()
 // This snippet has been automatically generated and should be regarded as a code template
 // only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 // https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
 // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.ListLicensesRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#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()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range
 values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 // https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
 // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.SetIamPolicyLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#SetIamPolicyLicenseRequest.
 }
 resp, err := c.SetIamPolicy(ctx, req)
 if err != nil {
 // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown
 in:
 // https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 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/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseRequest.
}
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"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleNewLicenseCodesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 //
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 // https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
// TODO: Handle error.
}
 defer c.Close()
}

```

```

// TODO: Use client.
_ = c
}

func ExampleLicenseCodesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 // https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 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/cloud.google.com/go/compute/apiv1/compute#GetLicenseCodeRequest.
 }
 resp, err := c.Get(ctx, req)
 if err != nil {
 // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 // https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 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/cloud.google.com/go/compute/apiv1/compute#TestIamPermissionsLicenseCodeRequest.
 }

```

```
resp,
err := c.TestIamPermissions(ctx, req)
if err != nil {
 // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}
```

## 1.638 influxdb 2.0.1-

# alpha.10.0.20210507184756-dc72dc3f0c07

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## 1.639 zeebo-mwc 0.0.4

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## 1.640 google-cloud-go 0.82.0

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```

```

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package compute

import (
 "bytes"
 "context"
 "fmt"
 "io"
 "math"
 "net/http"
 "net/url"
 "time"

 computepb "cloud.google.com/go/compute/apiv1/computepb"
 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"
 "google.golang.org/grpc"
 "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{
 gax.WithTimeout(600000 * time.Millisecond),
 },
 Get: []gax.CallOption{

```

```

gax.WithTimeout(600000 * time.Millisecond),
gax.WithRetry(func() gax.Retryer {
return gax.OnHTTPCodes(gax.Backoff{
Initial: 100 * time.Millisecond,
Max: 60000 * time.Millisecond,
Multiplier: 1.30,
}),
http.StatusGatewayTimeout,
http.StatusServiceUnavailable)
}),
},
GetIamPolicy:
[]gax.CallOption{
gax.WithTimeout(600000 * time.Millisecond),
gax.WithRetry(func() gax.Retryer {
return gax.OnHTTPCodes(gax.Backoff{
Initial: 100 * time.Millisecond,
Max: 60000 * time.Millisecond,
Multiplier: 1.30,
}),
http.StatusGatewayTimeout,
http.StatusServiceUnavailable)
}),
},
Insert: []gax.CallOption{
gax.WithTimeout(600000 * time.Millisecond),
},
List: []gax.CallOption{
gax.WithTimeout(600000 * time.Millisecond),
gax.WithRetry(func() gax.Retryer {
return gax.OnHTTPCodes(gax.Backoff{
Initial: 100 * time.Millisecond,
Max: 60000 * time.Millisecond,
Multiplier: 1.30,
}),
http.StatusGatewayTimeout,
http.StatusServiceUnavailable)
}),
},
SetIamPolicy: []gax.CallOption{
gax.WithTimeout(600000 * time.Millisecond),
},
TestIamPermissions: []gax.CallOption{
gax.WithTimeout(600000
* time.Millisecond),
},
}
}

```



```

// 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: Connections are now pooled so this method does not always
// return the same resource.
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-* headers to be sent with each request.
 xGoogHeaders []string

 // 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", gax.GoVersion}, keyval...)
 kv = append(kv, "gopic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogHeaders = []string{"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: This method always returns
nil.
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.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense()))}

 hds = append(c.xGoogHeaders, hds...)
 hds
 = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 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

 httpResp, 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 := io.ReadAll(httpRsp.Body)
if err != nil {
 return err
}

if err := unmarshal(buf, resp); err != nil {
 return 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.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
 url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense()))}

```

```

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx,
hds...)
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 := io.ReadAll(httpRsp.Body)
if err != nil {
return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
return 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.
 hds := []string{"x-goog-request-params", fmt.Sprintf("s=%v&s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds
 = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)
 unmarshalOptions := 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 := io.ReadAll(httpRsp.Body)
 if err != nil {
 return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
 return 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.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v",
"project", url.QueryEscape(req.GetProject()))}

```

```

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
 baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
 return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
 return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
 return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
 return
 }
 err
}

if err := unm.Unmarshal(buf, resp); err != nil {
 return 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.
hds := append(c.xGoogHeaders, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
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 := io.ReadAll(httpRsp.Body)
 if err != nil {
 return
 }
 err

 if err := unmarshal(buf, resp); err != nil {
 return 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.
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
opts...)
unm := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true }
resp := &computepb.Policy{}
e
:= gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
if settings.Path != "" {
baseUrl.Path = settings.Path

```

```

 }
 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
 return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
 return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
 return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
 return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
 return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}

```

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```

func (c *licensesRESTClient) TestIamPermissions(ctx
context.Context, req *computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
 return nil, err
 }
}

```

```

baseUrl, err := url.Parse(c.endpoint)

```

```

if err != nil {
 return nil, err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

// Build HTTP headers from client and context metadata.
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)],
opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.TestPermissionsResponse{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
 baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
 return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
 return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
 return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
 return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
 return err
 }
}

```

```

 return nil
 }, opts...)
 if e != nil {
 return nil, e
 }
 return resp, nil
}
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package compute

import (
 "bytes"
 "context"
 "fmt"
 "io"
 "net/http"
 "net/url"
 "time"

 computepb "cloud.google.com/go/compute/apiv1/computepb"
 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"
 "google.golang.org/grpc"
 "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{
 gax.WithTimeout(600000 * time.Millisecond),
 gax.WithRetry(func() gax.Retryer {
 return gax.OnHTTPCodes(gax.Backoff{
 Initial: 100 * time.Millisecond,
 Max: 60000 * time.Millisecond,
 Multiplier: 1.30,
 }),
 http.StatusGatewayTimeout,
 http.StatusServiceUnavailable)
 }),
 },
 TestIamPermissions: []gax.CallOption{
 gax.WithTimeout(600000 * time.Millisecond),
 },
 }
}

// 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: Connections are now pooled so this method does not always
// return the same resource.
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-* headers to be sent with each request.
xGoogHeaders []string

// 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", gax.GoVersion}, keyval...)

```

```

kv = append(kv, "gopic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
c.xGoogHeaders = []string{"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: This method always returns nil.
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.
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license_code", url.QueryEscape(req.GetLicenseCode()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
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 := io.ReadAll(httpRsp.Body)
if err != nil {
 return err
}

if err := unmarshal(buf, resp); err != nil {
 return 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.
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)],
opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.TestPermissionsResponse{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
if settings.Path != "" {
baseUrl.Path = settings.Path
}
httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
if err != nil {
return err
}
httpReq = httpReq.WithContext(ctx)
httpReq.Header = headers

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
return err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
return err
}

buf, err := io.ReadAll(httpRsp.Body)
if err != nil {
return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
return err
}

return nil

```

```
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}
```

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// Code generated by protoc-gen-go\_gapic. DO NOT EDIT.

```
package compute_test
```

```
import (
```

```
 "context"
```

```
 compute "cloud.google.com/go/compute/apiv1"
```

```
 computepb "cloud.google.com/go/compute/apiv1/computepb"
```

```
 "google.golang.org/api/iterator"
```

```
)
```

```
func ExampleNewLicensesRESTClient() {
```

```
 ctx := context.Background()
```

```
 // This snippet has been automatically generated and should be regarded as a code template only.
```

```
 // It will
```

```
 require modifications to work:
```

```
 // - It may require correct/in-range values for request initialization.
```

```
 // - It may require specifying regional endpoints when creating the service client as shown in:
```

```
 // https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
```

```
 c, err := compute.NewLicensesRESTClient(ctx)
```

```
 if err != nil {
```

```
 // TODO: Handle error.
```

```
 }
```

```
 defer c.Close()
```

```
 // TODO: Use client.
```

```
 _ = c
```

```
}
```

```

func ExampleLicensesClient_Delete() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 // https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 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/cloud.google.com/go/compute/apiv1/computepb#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()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 // https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 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/cloud.google.com/go/compute/apiv1/computepb#GetLicenseRequest.
 }
 resp,

```

```

err := c.Get(ctx, req)
if err != nil {
 // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 // https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 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/cloud.google.com/go/compute/apiv1/compute#GetIamPolicyLicenseRequest.
 }
 resp, err := c.GetIamPolicy(ctx, req)
 if err != nil {
 // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_Insert()
{
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 // https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 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/cloud.google.com/go/compute/apiv1/compute#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()
// This snippet has been automatically generated and should be regarded as a code template
// only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
// https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
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/cloud.google.com/go/compute/apiv1/compute#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()

```

```

// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range
values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
// https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.SetIamPolicyLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#SetIamPolicyLicenseRequest.
}
resp, err := c.SetIamPolicy(ctx, req)
if err != nil {
 // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown
in:
 // https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 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/cloud.google.com/go/compute/apiv1/compute#TestIamPermissionsLicenseRequest.
 }
 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"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleNewLicenseCodesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 //
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 // https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
 // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicenseCodesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:

```

```

// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
// https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
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/cloud.google.com/go/compute/apiv1/compute#GetLicenseCodeRequest.
}
resp, err := c.Get(ctx, req)
if err != nil {
 // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 // https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 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/cloud.google.com/go/compute/apiv1/compute#TestIamPermissionsLicenseCodeRequest.
 }
 resp,
 err := c.TestIamPermissions(ctx, req)
 if err != nil {
 // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

```

# 1.641 influxdata-flux 0.171.0

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## 1.642 sarama 1.34.0

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## 1.646 geoffgarside-ber 0.0.0-20170306085127-854377f11dfb

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## 1.647 uber-athenadrivers 1.1.13

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

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any

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# 1.651 procps 4.0.4-r0

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```

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it
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Because of this blurred distinction, using the ordinary General

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<signature of Ty Coon>, 1 April 1990

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## 1.652 libcurl 7.88.1-r1

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## 1.653 python-setuptools 68.2.2

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#### A. HISTORY OF THE SOFTWARE

=====

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

| Release | Derived | Year | Owner | GPL-            |
|---------|---------|------|-------|-----------------|
|         | from    |      |       | compatible? (1) |



|                |           |           |            |         |
|----------------|-----------|-----------|------------|---------|
| 0.9.0 thru 1.2 |           | 1991-1995 | CWI        | yes     |
| 1.3 thru 1.5.2 | 1.2       | 1995-1999 | CNRI       | yes     |
| 1.6            | 1.5.2     | 2000      | CNRI       | no      |
| 2.0            | 1.6       | 2000      | BeOpen.com | no      |
| 1.6.1          | 1.6       | 2001      | CNRI       | yes (2) |
| 2.1            | 2.0+1.6.1 | 2001      | PSF        | no      |
| 2.0.1          | 2.0+1.6.1 | 2001      | PSF        | yes     |
| 2.1.1          | 2.1+2.0.1 | 2001      | PSF        | yes     |
| 2.1.2          | 2.1.1     | 2002      | PSF        | yes     |
| 2.1.3          | 2.1.2     | 2002      | PSF        | yes     |
| 2.2 and above  |           |           |            |         |
| 2.1.1          | 2001-now  | PSF       |            | yes     |

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# 1.658 google-golang-org-genproto-googleapis-api 0.0.0-20230913181813-007df8e322eb

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# 1.662 python3-pycache-pyc0 3.11.6-r0

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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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|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 |              | 1991-1995 | CWI        | yes                 |
| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                 |
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
| 2.1.2          | 2.1.1        | 2002      | PSF        | yes                 |
| 2.1.3          | 2.1.2        | 2002      | PSF        | yes                 |
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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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| Release        | Derived from | Year      | Owner      | GPL-compatible? (1) |
|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 |              | 1991-1995 | CWI        | yes                 |
| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                 |
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
| 2.1.2          | 2.1.1        | 2002      | PSF        | yes                 |
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## 1.667

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## 1.669 spew 1.1.1

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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.

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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                 |
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| 2.1.3          | 2.1.2        | 2002      | PSF        | yes                 |
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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.

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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  |              |           |            |                     |
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# 1.685 python-pip 23.2.1

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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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#### 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 <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.

All

Python releases are Open Source (see <https://opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

| Release        | Derived from | Year      | Owner      | GPL-compatible? (1) |
|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 |              | 1991-1995 | CWI        | yes                 |
| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                 |
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
| 2.1.2          | 2.1.1        | 2002      | PSF        | yes                 |
| 2.1.3          | 2.1.2        | 2002      | PSF        | yes                 |
| 2.2 and above  | 2.1.1        | 2001-now  |            |                     |
| PSF            | yes          |           |            |                     |

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

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#### A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

| Release        | Derived from | Year      | Owner      | GPL-compatible? (1) |
|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 |              | 1991-1995 | CWI        | yes                 |
| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                 |
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
| 2.2            | 2.1.1        | 2001      | PSF        | yes                 |

|       |       |           |     |     |
|-------|-------|-----------|-----|-----|
| 2.1.2 | 2.1.1 | 2002      | PSF | yes |
| 2.1.3 |       |           |     |     |
| 2.1.2 | 2002  | PSF       | yes |     |
| 2.2.1 | 2.2   | 2002      | PSF | yes |
| 2.2.2 | 2.2.1 | 2002      | PSF | yes |
| 2.2.3 | 2.2.2 | 2003      | PSF | yes |
| 2.3   | 2.2.2 | 2002-2003 | PSF | yes |
| 2.3.1 | 2.3   | 2002-2003 | PSF | yes |
| 2.3.2 | 2.3.1 | 2002-2003 | PSF | yes |
| 2.3.3 | 2.3.2 | 2002-2003 | PSF | yes |
| 2.3.4 | 2.3.3 | 2004      | PSF | yes |
| 2.3.5 | 2.3.4 | 2005      | PSF | yes |
| 2.4   | 2.3   | 2004      | PSF | yes |
| 2.4.1 | 2.4   | 2005      | PSF | yes |
| 2.4.2 | 2.4.1 | 2005      | PSF | yes |
| 2.4.3 | 2.4.2 | 2006      | PSF | yes |
| 2.4.4 | 2.4.3 | 2006      | PSF | yes |
| 2.5   | 2.4   | 2006      | PSF | yes |
| 2.5.1 | 2.5   | 2007      | PSF | yes |
| 2.5.2 | 2.5.1 | 2008      | PSF | yes |
| 2.5.3 | 2.5.2 | 2008      | PSF | yes |
| 2.6   | 2.5   | 2008      | PSF | yes |
| 2.6.1 | 2.6   | 2008      | PSF | yes |
| 2.6.2 | 2.6.1 | 2009      | PSF | yes |
| 2.6.3 | 2.6.2 | 2009      | PSF | yes |
| 2.6.4 | 2.6.3 | 2009      | PSF | yes |
| 2.6.5 | 2.6.4 | 2010      | PSF | yes |
| 3.0   | 2.6   | 2008      | PSF | yes |
| 3.0.1 | 3.0   | 2009      | PSF | yes |
| 3.1   | 3.0.1 | 2009      | PSF | yes |
| 3.1.1 | 3.1   | 2009      | PSF | yes |
| 3.1.2 | 3.1   | 2010      | PSF | yes |
| 3.2   | 3.1   | 2010      | PSF | yes |

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# 1.686 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

\$ \$Revision: 1.80 \$ \$Date: 2011/11/03 15:11:58 \$

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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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|----------------|--------------|-----------|------------|---------------------|
| 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                 |
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| 2.3.4          | 2.3.3        | 2004      | PSF        | yes                 |
| 2.3.5          | 2.3.4        | 2005      | PSF        | yes                 |
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| 2.4.4          | 2.4.3        | 2006      | PSF        | yes                 |
| 2.5            | 2.4          | 2006      | PSF        | yes                 |
| 2.5.1          | 2.5          | 2007      | PSF        | yes                 |
| 2.5.2          | 2.5.1        | 2008      | PSF        | yes                 |
| 2.5.3          | 2.5.2        | 2008      | PSF        | yes                 |
| 2.6            | 2.5          | 2008      | PSF        | yes                 |
| 2.6.1          | 2.6          | 2008      | PSF        | yes                 |
| 2.6.2          | 2.6.1        | 2009      | PSF        | yes                 |
| 2.6.3          | 2.6.2        | 2009      | PSF        | yes                 |
| 2.6.4          | 2.6.3        | 2009      | PSF        | yes                 |
| 2.6.5          | 2.6.4        | 2010      | PSF        | yes                 |
| 3.0            | 2.6          | 2008      | PSF        | yes                 |
| 3.0.1          | 3.0          | 2009      | PSF        | yes                 |
| 3.1            | 3.0.1        | 2009      | PSF        | yes                 |
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| 3.1.2          | 3.1          | 2010      | PSF        | yes                 |

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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     |
| 2.1.2         | 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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# 1.687 python-certifi 2023.05.07

## 1.687.1 Available under license :

This package contains a modified version of ca-bundle.crt:

ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#

This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:

<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

\$ \$Revision: 1.80 \$ \$Date: 2011/11/03 15:11:58 \$

## 1.688 python-certifi 2022.12.07

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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:

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It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php\_curl, or with an Apache+mod\_ssl webserver for SSL client authentication.

Just configure this file as the SSLCACertificateFile.#

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\$ \$Revision: 1.80 \$ \$Date: 2011/11/03 15:11:58 \$

## 1.689 sh 1.14.3

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## 1.690 supervisor 4.2.4

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## 1.701 ssl-client 1.36.1-r5

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## 1.702 x-text 0.14.0

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## 1.711 go-autorest 0.11.18

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# 1.715

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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.

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| 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     |
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## 1.717 go-uuid 1.4.0

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## 1.724 gopkg.in-yaml 2.4.0

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## 1.725 golang-lru 0.5.4

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# 1.761 gopkgin 0.9.1

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## 1.762 gopkg-in-alecthomas-kingpin-v2 2.2.6

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# 1.763 intern 1.0.0

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## 1.764 jwt-go 3.2.5+incompatible

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## 1.765 spaolacci-murmur3 1.1.0

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