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1.8 githubcomghodssyaml v1.0.1-0.20190212211648-25d852aebe32

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1.10 golang-protobuf-extensions v1.0.2-0.20181231171920-c182affec369

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1.11 goautoneg v0.0.0-20191010083416a7dc8b61c822

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1.14 gopkg-in-yaml-v2 v2.4.0

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1.16 bridgeutils 1.7.1

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1.28 prometheus-procfs 0.0.2

1.28.1 Available under license :

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

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1.34 goautoneg 0.0.0-20191010083416a7dc8b61c822

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1.35 spf13-pflag 1.0.5

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1.38 go-test-deep 1.0.7

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1.39 kelseyhightower-envconfig 1.4.0

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1.45 busybox 1.34.1

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1.52 valyala-histogram 1.2.0

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1.53 valyala-fastrand 1.1.0

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1.54 ghodss-yaml 1.0.1-0.20190212211648-25d852aebe32

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1.55 evanphx-json-patch 5.6.0

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1.56 x-sys 0.0.0-20190621062556bf70e4678053

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1.57 sigs-k8s-io-yaml v1.3.0

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1.58 go-uber-org-zap v1.21.0

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1.61 jsonpatch v5.6.0+incompatible

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1.63 zap 1.21.0

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1.64 goprotobuf 1.3.1

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1.65 protobuf v1.28.0

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1.66 fsnotify 1.5.4

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1.67 groupcache 0.0.0-20210331224755-41bb18bfe9da

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1.68 golang-protobuf-extensions 1.0.2-0.20181231171920-c182affec369

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1.76 go-kit-log 0.2.1

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1.77 libc-utils 0.7.2-r3

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1.79 go-logr-zapr 1.2.3

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1.85 prometheus-operator (devel)

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1.89 jsonpatch v5.6.0

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1.90 google-go-cmp 0.5.9

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1.91 go-openapi-swag 0.22.3 1.91.1 Available under license :

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1.92 google-go-cmp v0.5.9

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1.93 structured-merge-diff v4.2.3

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1.95 zlib 1.2.13-r0

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1.96 apk-tools 2.12.10-r1

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1.100 musl 1.2.3-r4

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1.101 alpine-baselayout-data 3.4.0-r0

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_builddir="\$srcdir/\$_pkgreal-\$pkgver"

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

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

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

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pkgname=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="5f489eaac5089e82081b7cf51d62638750e443751b49415407354da96b17771819b5e6e85529faa41ddd
85743363750157943c7f7700276cce2bd40a429fa430_BSD-Resource-1.2909.tar.gz"
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```
see http://www.sqlite.org/copyright.html
/*
* 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 Version 2, June 1991

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Maintainer: Natanael Copa <ncopa@alpinelinux.org>
pkgname=libart-lgpl
pkgver=2.3.21
pkgrel=5

```
pkgdesc="A library for high-performance 2D graphics"
url="http://www.levien.com/libart/"
arch="all"
license="LGPL"
depends=
makedepends=
subpackages="$pkgname-dev"
source="http://ftp.gnome.org/pub/GNOME/sources/libart_lgpl/2.3/libart_lgpl-$pkgver.tar.bz2
"
```

```
_builddir="$srcdir"/libart_lgpl-$pkgver
```

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

```
cd "$_builddir"
make DESTDIR="$pkgdir" install || return 1
}
```

md5sums="08559ff3c67fd95d57b0c5e91a6b4302 libart_lgpl-2.3.21.tar.bz2"

1.102 busybox 1.35.0-r29

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1.103 ssl-client 1.35.0-r29

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1.104 alpine-baselayout 3.4.0-r0

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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"
```

```
_builddir="$srcdir/$_pkgreal-$pkgver"
```

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

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

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

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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="5f489eaac5089e82081b7cf51d62638750e443751b49415407354da96b17771819b5e6e85529faa41ddd
85743363750157943c7f7700276cce2bd40a429fa430_BSD-Resource-1.2909.tar.gz"
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see http://www.sqlite.org/copyright.html # 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"
mini_sendmail - accept email on behalf of real sendmail
```

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```
# Maintainer: Natanael Copa <ncopa@alpinelinux.org>
pkgname=libart-lgpl
pkgver=2.3.21
pkgrel=5
pkgdesc="A library for high-performance 2D graphics"
url="http://www.levien.com/libart/"
arch="all"
license="LGPL"
depends=
makedepends=
subpackages="$pkgname-dev"
source="http://ftp.gnome.org/pub/GNOME/sources/libart_lgpl/2.3/libart_lgpl-$pkgver.tar.bz2
```

```
"
```

```
_builddir="$srcdir"/libart_lgpl-$pkgver
```

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

```
make DESTDIR="$pkgdir" install || return 1
```

```
}
```

md5sums="08559ff3c67fd95d57b0c5e91a6b4302 libart_lgpl-2.3.21.tar.bz2"

1.105 go-restful 3.10.0 1.105.1 Available under license :

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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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1.108 utils 0.0.0-20221108210102-8e77b1f39fe2

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1.114 ca-certificates 20220614-r4

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/* c_rehash.c - Create hash symlinks for certificates

 \ast C implementation based on the original Perl and shell versions

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*/opt/cola/permits/1527795472_1674094687.5907822/0/ca-certificates-20220614-tar-bz2/ca-certificates-20220614/c rehash.c

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1.116 x-net v0.0.0-20181114220301adae6a3d119a

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1.117 github.com/google/gnostic v0.6.9 1.117.1 Available under license :

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1.118 githubcomfsnotifyfsnotify v1.6.0

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1.119 fasttemplate v1.2.2

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1.120 x-time v0.3.0

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1.122 scanelf 1.3.5-r1

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1.123 ca-certificates-bundle 20220614-r4

1.123.1 Available under license :

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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/mk-ca-bundle.pl No license file was found, but licenses were detected in source scan.

#

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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) CK_CERTIFICATE_TYPE CKC_X_509 # CKA_CERTIFICATE_TYPE

```
# CKA_SUBJECT
                       DER+base64
                                      (varies)
# CKA_ID
                    byte array
                                (varies)
#
CKA_ISSUER
                     DER+base64
                                    (varies)
                            DER+base64
# CKA_SERIAL_NUMBER
                                           (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):

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

 $\label{eq:123} 151 147 156 040 156 166 055 163 141 061 020 060 016 006 003$

\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

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

\002\013\004\000\000\000\000\001\025\113\132\303\224 END

CKA_VALUE MULTILINE_OCTAL

\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 \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\132\060\127\061\013\060\011\006\003\125\004\006\023\002\102 $\label{eq:105} $$ 105 061 031 060 027 006 003 125 004 012 023 020 107 154 157 142 $$$ \141\154\123\151\147\156\040\156\166\055\163\141\061\020\060\016 $\label{eq:2.1} \end{tabular} \end{tabular}$ \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 $\label{eq:115} $$ 115 305 247 124 270 154 211 314 233 371 074 312 345 375 211 365 $$$ \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 \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 $\label{eq:215} $$ \frac{215}{277} \frac{354}{272} \frac{242}{276} \frac{64}{305} \frac{50}{062} \frac{265}{174} \frac{374}{154} \frac{234}{054} \frac{154}{234} \frac{154}{234}$ \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_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA NSS EMAIL DISTRUST 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:04:00:00:00:00:01:15:4b: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 $\label{eq:261} $$ $$ 261\274\226\213\324\364\235\142\052\250\232\201\362\025\001\122 $$$ \244\035\202\234 END CKA_CERT_MD5_HASH MULTILINE_OCTAL $\label{eq:2.1} $$ 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

#

- # 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
- \122\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
- $\label{eq: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\040\055\040\107\063
- END

CKA_ID

UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

 $\label{eq:145}040\157\156\154\171\061\105\060\103\006\003\125\004\003\023\074\126\145\162\151\123\151\147\156\040\103\154\141\163\163\040\061\040\120\165\142\151\143\040\120\162\151\145\1155\141\162\171\040\103\145\162\151\145\1164\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171\040\055\040\107\063$

\002\021\000\213\133\165\126\204\124\205\013\000\317\257\070\110

END

END

\316\261\244

CKA_SERIAL_NUMBER MULTILINE OCTAL

CKA_VALUE MULTILINE_OCTAL \060\202\004\032\060\202\003\002\002\021\000\213\133\165\126\204 $\label{eq:205} $$ 124\205\013\000\317\257\070\110\316\261\244\060\015\006\011\052 $$$ \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 $\label{eq:125} $$ 125\004\012\023\016\126\145\162\151\123\151\147\156\054\040\111$ \156\143\056\061\037\060\035\006\003\125\004\013\023\026\126\145 $\label{eq:162} $$ 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 \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 \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 $\label{eq:151} $$ 151\147\156\040\124\162\165\163\164\040\116\145\164\167\157\162\$ \153\061\072\060\070\006\003\125\004\013\023\061\050\143\051\040 \061\071\071\071\040\126\145\162\151\123\151\147\156\054\040\111 \156\143\056\040\055\040\106\157\162\040\141\165\164\150\157\162 $\label{eq:151112} 145 144 040 165 163 145 040 157 156 154 171 061 105 060$ $\label{eq:103} \\ 006 \\ 003 \\ 125 \\ 004 \\ 003 \\ 023 \\ 074 \\ 126 \\ 145 \\ 162 \\ 151 \\ 123 \\ 151 \\ 147 \\ 156 \\ 162 \\ 151 \\ 123 \\ 151 \\ 147 \\ 156 \\ 162 \\ 151 \\ 123 \\ 151 \\ 147 \\ 156 \\ 162 \\ 151 \\ 123 \\ 151 \\ 147 \\ 156 \\ 162 \\ 151 \\ 123 \\ 151 \\ 147 \\ 156 \\ 162 \\ 151 \\ 123 \\ 151 \\ 147 \\ 156 \\ 162 \\ 151 \\ 123 \\ 151 \\ 147 \\ 156 \\ 162 \\ 151 \\ 123 \\ 151 \\ 147 \\ 156 \\ 162 \\ 151 \\ 123 \\ 151 \\ 147 \\ 156 \\ 162 \\ 151 \\ 123 \\ 151 \\ 147 \\ 156 \\ 162 \\ 151 \\ 123 \\ 151 \\ 147 \\ 156 \\ 162 \\ 151 \\ 123 \\ 151 \\ 147 \\ 156 \\ 162 \\ 151 \\ 123 \\ 151 \\ 147 \\ 156 \\ 162 \\ 151 \\ 123 \\ 151 \\ 147 \\ 156 \\ 162 \\ 151 \\ 123 \\ 151 \\ 147 \\ 156 \\ 162 \\ 151 \\ 123 \\ 151 \\ 147 \\ 156 \\ 162 \\ 151 \\ 123 \\ 151 \\ 147 \\ 156 \\ 162 \\ 151 \\ 123 \\ 151 \\ 147 \\ 156 \\ 162 \\ 151 \\ 123 \\ 151 \\ 147 \\ 156 \\ 162 \\ 151 \\ 123 \\ 151 \\$ $\label{eq:103} \\ 103 \\ 154 \\ 141 \\ 163 \\ 163 \\ 040 \\ 061 \\ 040 \\ 120 \\ 165 \\ 142 \\ 154 \\ 151 \\ 143 \\ 040 \\ 061 \\ 040 \\ 120 \\ 165 \\ 142 \\ 154 \\ 151 \\ 143 \\ 040 \\ 120 \\ 165 \\ 142 \\ 154 \\ 151 \\ 143 \\ 040 \\ 120 \\ 165 \\ 142 \\ 154 \\ 151 \\ 143 \\ 104 \\ 104 \\ 120 \\ 120 \\ 165 \\ 142 \\ 154 \\ 151 \\ 143 \\ 104 \\ 104 \\ 120 \\ 120 \\ 165 \\ 142 \\ 154 \\ 151 \\ 143 \\ 104 \\ 104 \\ 120 \\ 120 \\ 165 \\ 142 \\ 154 \\ 151 \\ 143 \\ 104 \\ 104 \\ 120 \\ 120 \\ 165 \\ 142 \\ 154 \\ 151 \\ 143 \\ 104 \\ 104 \\ 120 \\ 120 \\ 165 \\ 142 \\ 154 \\ 151 \\ 143 \\ 104 \\$ $\label{eq:120} $$ 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 \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 $\label{eq:236} \end{aligned} \end{aligned}$ \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 \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_DISTRUST_AFTER CK_BBOOL CK_FALSE

For Email Distrust After: Wed Aug 31 00:00:00 2022

CKA_NSS_EMAIL_DISTRUST_AFTER MULTILINE_OCTAL

 $\label{eq:2.1} $$ 062\060\070\063\061\060\060\060\060\060\132 $$$

```
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 \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 $\label{eq:103} \\ 145 \\ 162 \\ 164 \\ 151 \\ 146 \\ 151 \\ 143 \\ 141 \\ 164 \\ 151 \\ 157 \\ 156 \\ 040 \\ 101 \\$ $\label{eq:165} $$ 164\150\157\162\151\164\171\040\055\040\107\063 $$$ **END** CKA_SERIAL_NUMBER MULTILINE_OCTAL $\label{eq:2.1} \\ 002 \\ 021 \\ 000 \\ 213 \\ 133 \\ 165 \\ 126 \\ 204 \\ 124 \\ 205 \\ 013 \\ 000 \\ 317 \\ 257 \\ 070 \\ 110 \\ 100 \\$ \316\261\244 **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
\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
\label{eq:2.16} \end{tabular} \end{tabular
\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
\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
\062\040\120\165\142\154\151\143\040\120\162\151\155\141\162\171
\label{eq:1040} \\ 103 \\ 145 \\ 162 \\ 164 \\ 151 \\ 146 \\ 151 \\ 143 \\ 141 \\ 164 \\ 151 \\ 157 \\ 156 \\ 040 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 101 \\ 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
\label{eq: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
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\020\141\160\313\111\214\137\230\105\051\347\260\246\331\120
\133\172
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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 \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 \105\060\103\006\003\125\004\003\023\074\126\145\162\151\123\151 \143\040\120\162\151\155\141\162\171\040\103\145\162\164\151\146 \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 \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 \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 \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

END

\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 $\label{eq:200} \end{tabular} \end{tabular}$ \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 \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 \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_DISTRUST_AFTER CK_BBOOL CK_FALSE # 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 "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

 $\label{eq:141} $$ 141\357\103\327\177\312\324\141\121\274\230\340\303\131\022\257\$

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
\label{eq:163164040116145164167157162153061072060070006003} \\
\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
\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
\label{eq:1062} \end{tabular} \end{tabular
\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
\label{eq:2020} \end{tabular} \end{tabular
\133\172
END
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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_VALUE MULTILINE_OCTAL \060\202\004\052\060\202\003\022\240\003\002\001\002\002\004\070 \143\336\370\060\015\006\011\052\206\110\206\367\015\001\001\005 \005\000\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 \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\023\052\105

\002\004\070\143\336\370 END

MULTILINE_OCTAL

CKA_SERIAL_NUMBER

END

CKA_ID UTF8 "0" CKA ISSUER MULTILINE OCTAL

END

\040\050\062\060\064\070\051

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

UTF8 "Entrust.net Premium 2048 Secure Server CA" CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_LABEL

\156\164\162\165\163\164\056\156\145\164\040\103\145\162\164\151 $\label{eq:146} \\ 146 \\ 151 \\ 143 \\ 141 \\ 164 \\ 151 \\ 157 \\ 156 \\ 040 \\ 101 \\ 165 \\ 164 \\ 150 \\ 157 \\ 162 \\ 151 \\ 162 \\$ \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 \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 $\label{eq:143} $$ 143 051 040 061 071 071 071 040 105 156 164 162 165 163 164 056 $$$ \156\145\164\040\114\151\155\151\164\145\144\061\063\060\061\006 $\label{eq:2.105} \\ 003 \\ 125 \\ 004 \\ 003 \\ 023 \\ 052 \\ 105 \\ 156 \\ 164 \\ 162 \\ 165 \\ 163 \\ 164 \\ 056 \\ 156 \\ 145 \\ 145 \\ 145 \\ 164 \\ 162 \\ 164 \\ 162 \\ 164 \\ 162 \\ 164 \\ 162 \\ 164 \\ 162 \\ 164 \\ 162 \\ 164 \\ 162 \\ 164 \\ 162 \\ 164 \\ 164 \\ 162 \\ 164$ \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 $\label{eq:245} $$ 053 113 321 277 013 112 115 216 355 200 166 245 147 267 170 100 $$$ \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 $\label{eq:261} $$ $$ 261 $$ 21 $$ 175 $$ 270 $$ 14 $$ 13 $$ 003 $$ 61 $$ 002 $$ 14 $$ 34 $$ 253 $$ 245 $$ 165 $$$ 165 $$ 165 $$ 165 $$ 165 $$ 165 $$ 165 $$ \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\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 $\label{eq:2.1} \end{tabular} \end{tabular}$ \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 $\label{eq:174} $$ 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_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA_NSS_EMAIL_DISTRUST_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 \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

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\145\144\061\063\060\061\006\003\125\004\003\023\052\105\156\164
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\162\165\163\164\056\156\145\164\040\103\145\162\164\151\146\151 $\label{eq:143} \\ 143 \\ 141 \\ 164 \\ 151 \\ 157 \\ 156 \\ 040 \\ 101 \\ 165 \\ 164 \\ 150 \\ 157 \\ 162 \\ 151 \\ 164 \\ 171 \\ 164 \\ 164 \\ 164 \\ 171 \\ 164 \\$ \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 (0x2000b9) # 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 145162124162165163164040122157157164**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 145162124162165163164040122157157164

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 $\label{eq:171} $$ 171\142\145\162\124\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\063\065\071\060\060\132\060\132 \061\013\060\011\006\003\125\004\006\023\002\111\105\061\022\060 $\label{eq:20} \end{tabular} \end{tabular}$ \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 \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

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 $\label{eq:1013} \\ 023 \\ 060 \\ 167 \\ 167 \\ 056 \\ 145 \\ 156 \\ 164 \\ 162 \\ 165 \\ 163 \\ 164 \\ 056 \\ 156 \\ 156 \\ 164 \\ 162 \\ 165 \\ 163 \\ 164 \\ 056 \\ 156 \\ 156 \\ 164 \\ 162 \\ 165 \\ 164 \\ 165 \\ 164 \\ 165 \\ 164 \\ 165 \\ 164 \\ 165 \\ 164 \\ 165 \\ 164 \\ 165 \\ 164 \\ 165 \\ 164 \\ 165 \\ 164 \\ 165 \\ 164 \\ 165 \\ 164 \\ 165$ \145\164\057\103\120\123\040\151\163\040\151\156\143\157\162\160 \156\143\145\061\037\060\035\006\003\125\004\013\023\026\050\143 \051\040\062\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 $\label{eq:151} $$ 151\143\141\164\151\157\156\040\101\165\164\150\157\162 $$ \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

\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 $\label{eq:125} 004 013 023 060 167 167 056 145 156 164 162 165 163 164$ \056\156\145\164\057\103\120\123\040\151\163\040\151\156\143\157 \162\145\156\143\145\061\037\060\035\006\003\125\004\013\023\026 \050\143\051\040\062\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 \013\023\026\050\143\051\040\062\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 \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 $\label{eq:155} $$ 157 110 337 224 114 071 127 005 356 303 171 021 101 150 $$$ \066\355\354\376\232\001\217\241\070\050\374\367\020\106\146\056

MULTILINE_OCTAL

CKA VALUE

END

\002\004\105\153\120\124

CKA_SERIAL_NUMBER MULTILINE_OCTAL

END

\151\164\171

\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 $\label{eq:2.131} $$ 043 $$ 25 $$ 027 $$ 105 $$ 236 $$ 037 $$ 156 $$ 103 $$ 171 $$ 014 $$ 134 $$ 105 $$ 103 $$ 171 $$ 155 $$ 014 $$ 134 $$ 105 $$$ 105 $$ 105 $$ 105 $$ 105 $$$ 105 $$ 105 $$ 105 $$ 105 $$ 105 $$$ \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 $\label{eq: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\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 $\label{eq:244} $$ 344 147 244 246 123 200 307 206 146 244 361 367 113 103 373 204 $$$ \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 $\label{eq:120} $$ 120\154\364\137\024\342\223\164\300\023\236\060\072\120\343\264\$ \140\305\034\360\042\104\215\161\107\254\310\032\311\351\233\232 \000\140\023\377\160\176\137\021\115\111\033\263\025\122\173\311 \124\332\277\235\225\257\153\232\330\236\351\361\344\103\215\342 \021\104\072\277\257\275\203\102\163\122\213\252\273\247\051\317 \365\144\034\012\115\321\274\252\254\237\052\320\377\177\177\332 \175\352\261\355\060\045\301\204\332\064\322\133\170\203\126\354 \234\066\303\046\342\021\366\147\111\035\222\253\214\373\353\377 \073\363\132\264\264\173\256\332\013\220\070\165\357\201\035\146 $\label{eq:22} $$ 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_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA_NSS_EMAIL_DISTRUST_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

 $\label{eq:263} \\ (263) \\ (261) \\ (267) \\ (100) \\ (343) \\ (154) \\ (204) \\ (002) \\ (332) \\ (334) \\ (067) \\ (324) \\ (115) \\ (365) \\ (366) \\ (365) \\ (366) \\ (36$

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

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):

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

 $\label{eq:157} $$ 157\040\123\160\056\040\172\040\157\056\157\056\061\022\060\020 $$$

 $\label{eq:2.10} \end{tabular} \end{tabular$

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

\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 $\label{eq:232} \end{tabular} 1074 \end{tabular} 156 \end{tabular} 132 \end{tabular} 220 \end{tabular} 16064 \end{tabular} 1666 \end{tabular} 232 \end{tabular} 132 \end{tabular} 220 \end{tabular} 16064 \end{tabular} 1666 \end{tabular} 232 \end{tabular} 172 \end{tabular} 1666 \end{tabular} 172 \end{$ \120\267\155\226\102\011\363\327\225\203\015\101\113\260\152\153 $\label{eq:2.1} \label{eq:2.2} \lab$ \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 $\label{eq:26} \end{tabular} 156 367 351 146 251 046 330 177 225$ \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 $\label{eq:114} $$ 14\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 $\label{eq:223} \\ 012 \\ 072 \\ 223 \\ 023 \\ 233 \\ 073 \\ 024 \\ 043 \\ 023 \\ 143 \\ 234 \\ 077 \\ 321 \\ 207 \\ 047 \\ 171 \\$ \345\114\121\343\001\255\205\135\032\073\261\325\163\020\244\323 $\label{eq:26} \end{tabular} \end{tabular}$ \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_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA_NSS_EMAIL_DISTRUST_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

 $\label{eq:142} $$ 142\122\34\100\367\021\103\242\057\336\236\367\064\216\006\102 $$$

 $121\201\030$

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

 $\label{eq:starter} $$ $ 1060 076 061 013 060 011 006 003 125 004 006 023 002 120 114 061 033 060 031 006 003 125 004 012 023 022 125 156 151 172 145 164 157 040 123 160 056 040 172 040 157 056 157 056 061 022 060 020 006 003 125 004 003 023 011 103 145 162 164 165 155 040 103 101 006 003 023 011 006 000 000 006 000$

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_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 \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 $\label{eq:125}004 012 014 021 103 157 155 157 144 157 040 103 101 040 114$ \151\155\151\164\145\144\061\041\060\037\006\003\125\004\003\014 \040\123\145\162\166\151\143\145\163\060\202\001\042\060\015\006

\002\001\001

MULTILINE_OCTAL

CKA SERIAL NUMBER

END

END

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

CKA_ID

END

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509 CKA_SUBJECT MULTILINE_OCTAL

\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 $\label{eq:123} $$ 123 352 313 114 044 300 274 162 116 352 361 025 256 364 124 232 $$$ \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 $\label{eq:20} \end{tabular} \end{tabular}$ \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 $\label{eq:101101101103145162164151146151143141164145123145} \\$ \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 $\label{eq:157} $$ 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_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA_NSS_EMAIL_DISTRUST_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 $\label{eq:143} \\ 143 \\ 141 \\ 164 \\ 145 \\ 040 \\ 123 \\ 145 \\ 162 \\ 166 \\ 151 \\ 143 \\ 145 \\ 163 \\ 163 \\ 164 \\$ 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

#

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 $\label{eq:20} \end{tabular} \end{tabular}$ \144\061\033\060\031\006\003\125\004\003\023\022\121\165\157\126

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 157164040103101040062END CKA ID UTF8 "0"

CK FALSE CKA LABEL UTF8 "QuoVadis Root CA 2" CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

\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

CKA_MODIFIABLE CK_BBOOL

CKA ISSUER MULTILINE OCTAL

CKA SERIAL NUMBER MULTILINE OCTAL

157164040103101040062

END

END

\002\002\005\011

CKA PRIVATE CK BBOOL CK FALSE

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

Fingerprint (SHA1): CA:3A:FB:CF:12:40:36:4B:44:B2:16:20:88:80:48:39:19:93:7C:F7

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 (SHA-256):

Not Valid After : Mon Nov 24 18:23:33 2031

Not Valid Before: Fri Nov 24 18:27:00 2006

Subject: CN=QuoVadis Root CA 2,O=QuoVadis Limited,C=BM

Serial Number: 1289 (0x509)

Issuer: CN=QuoVadis Root CA 2,O=QuoVadis Limited,C=BM

#

Certificate "QuoVadis Root CA 2"

\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 $\label{eq:217} $$ 067\217\10\161\143\042\354\027\145\007\225\212\113\337\217\306\$ $\label{eq:132} $$ 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\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 $\label{eq:2.121} $$ 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\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 $\label{eq:203} 370 215 374 007 270 332 137 115 056 147 262 204 375 331 104$ \374\167\120\201\346\174\264\311\015\013\162\123\370\166\007\007 $\label{eq:101107226014373340202046223125214376042037140145}$ \174\137\347\046\263\367\062\220\230\120\324\067\161\125\366\222 $\label{eq:246} \end{tabular} \end{tabular}$ $\label{eq:170} $$ 122\020\130\256\077\141\216\362\152\261\357\030\176\112 $$$ $\label{eq:131} 143 312 215 242 126 325 247 057 274 126 037 317 071 301 342$ \373\012\250\025\054\175\115\172\143\306\154\227\104\074\322\157 $\label{eq:20} \end{tabular} \end{tabular}$ \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 \204\273\042\157\320\370\344\306\071\351\004\210\074\303\272\353 $\label{eq:125} $$ 125 172 155 200 231 044 365 154 001 373 370 227 260 224 133 353 $$$ \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 $\label{eq:2.1} \end{tabular} \label{eq:2.1} \end{tabular} \end{tabular} \label{eq:2.1} \end{tabular} \end{tabular} \label{eq:2.1} \end{tabular} \end{tabul$ \020\005\145\325\202\020\352\302\061\315\056 **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 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 \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

 $\label{eq:2.105} $$ 060\101\006\003\125\004\006\023\002\102\105\061\$

\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 \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 $\label{eq:20} \end{tabular} \end{tabular}$ \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 $\label{eq:276} $$ $$ 276 01 242 131 317 161 346 017 051 166 377 261 126 171 105 053 $$$ $\label{eq:236} \end{tabular} \end{tabular}$ \357\033\277\343\217\020\250\162\253\130\127\347\124\206\310\311 \363\133\332\054\332\135\216\156\074\243\076\332\373\202\345\335 $\label{eq:2.134} $$ 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

END CKA_VALUE MULTILINE_OCTAL

002002005306

CKA_SERIAL_NUMBER MULTILINE_OCTAL

END

157 164 040 103 101 040 063

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

CKA_ID UTF8 "0"

END

\157\164\040\103\101\040\063

\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

Open Source Used In vmoperator Crafton-3.0 582

\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 $\label{eq:21} $$ 117\221\016\023\274\336\225\244\337\213\231\276\254\233\063\210 $$$ \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 \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 $\label{eq:163} $$ 154\200\270\350\013\144\223\240\234\214\031\377\263\322 $$$ \014\354\221\046\207\212\263\242\341\160\217\054\012\345\315\155 $\label{eq:150121} $$ 132 077 005 177 213 062 346 023 134 153 376 137 100 $$$ \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 $\label{eq:151} 164 165 164 145 163 040 141 143 143 145 160 164 141 156 143$ $\label{eq:145}040\157\146\040\164\150\145\040\121\165\157\126\141\144\151$ \163\040\122\157\157\164\040\103\101\040\063\040\103\145\162\164 $\label{eq:103} \\ 145 \\ 162 \\ 164 \\ 151 \\ 146 \\ 151 \\ 143 \\ 141 \\ 164 \\ 151 \\ 157 \\ 156 \\ 040 \\ 120 \\$ $\label{eq:162141143164151143145040123164141164145155145156} \\$ \164\056\060\055\006\010\053\006\001\005\005\007\002\001\026\041 $\label{eq:150} $$ 150\164\164\160\072\057\167\167\167\056\161\165\157\166\141 $$$ \163\060\013\006\003\125\035\017\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 \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\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 $\label{eq:162} $$ 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 $\label{eq:2.16} \end{tabular} \end{tabular$ \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 $\label{eq:223} 301 344 311 151 032 075 300 153 116 042 155 356 253 130 115$ \306\320\101\301\053\352\117\022\207\136\353\105\330\154\365\230 $\label{eq:23} \end{tabular} \end{tabular}$ \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_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA_NSS_EMAIL_DISTRUST_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 \155\165\156\151\143\141\164\151\157\156\040\122\157\157\164\103

END

002 001 000

CKA_SERIAL_NUMBER MULTILINE_OCTAL

END

101061

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

\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\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 $\label{eq:227} $$ 145\227\224\062\311\263\237\076\072\142\130\305\111\255\142\016\$ $\label{eq:161} $$ 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 \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

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

```
\label{eq:starter} $$ $ 1060 177 061 013 060 011 006 003 125 004 006 023 002 105 125 061 047 060 045 006 003 125 004 012 023 036 101 103 040 103 141 155 145 162 146 151 162 155 141 040 123 101 040 103 111 106 040 101 070 062 067 064 063 062 070 067 061 043 060 041 006 003 125 004 013 023 032 150 164 164 160 072 057 057 167 167 167 056 143 150 141 155 142 145 162 163 151 147 156 056 157 162 147 061 042 060 $$
```

\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 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 \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 \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 \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

\002\001\000 END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

\164 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\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\145\162\143\145\040\122\157\157

CKA_ID UTF8 "0"

\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 $\label{eq:132} $$ 12\100\067\147\014\124\041\125\167\332\012\014\314\227\$ \256\200\334\224\066\112\364\076\316\066\023\036\123\344\254\116 \072\005\354\333\256\162\234\070\213\320\071\073\211\012\076\167 \376\165\002\001\003\243\202\001\104\060\202\001\100\060\022\006 \003\125\035\023\001\001\377\004\010\060\006\001\001\377\002\001 \014\060\074\006\003\125\035\037\004\065\060\063\060\061\240\057 \240\055\206\053\150\164\164\160\072\057\057\143\162\154\056\143 $\label{eq:150} $$ 141\155\142\145\162\163\151\147\156\056\157\162\147\057\143 $$$ $\label{eq:150} $$ 141\155\142\145\162\163\162\157\157\164\056\143\162\154\060 $$$ \035\006\003\125\035\016\004\026\004\024\343\224\365\261\115\351 \333\241\051\133\127\213\115\166\006\166\341\321\242\212\060\016 \006\003\125\035\017\001\001\377\004\004\003\002\001\006\060\021 \006\011\140\206\110\001\206\370\102\001\001\004\004\003\002\000 \007\060\047\006\003\125\035\021\004\040\060\036\201\034\143\150 \145\162\163\151\147\156\056\157\162\147\060\047\006\003\125\035 \022\004\040\060\036\201\034\143\150\141\155\142\145\162\163\162 $\label{eq:157} $$ 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 $\label{eq:151147156056157162147057143160163057143150141155}$ \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 $\label{eq:2.1} \end{tabular} \end{tabular}$ \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 $\label{eq:2.1} \end{tabular} \end{tabular}$ $\label{eq:134} $$ 134\054\375\172\116\264\001\305\005\127\271\347\074\252\005\311\$ \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 \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_DISTRUST_AFTER CK_BBOOL CK_FALSE # For Email Distrust After: Mon Mar 01 00:00:00 2021 CKA_NSS_EMAIL_DISTRUST_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

A82/4328/,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

 $\label{eq:156} $$ 156\072\125\244\031\014\031\134\223\204\074\300\333\162\056\061\$

060141360261

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
```

002001000

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

 $\label{eq:starter} $$ 1.5 \$

END

CKA_ID

UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

 $\label{eq:starter} $$ $ 150^{15}_{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}_{145}_{162}_{151}_{162}_{155}_{141}_{040}_{123}_{101}_{040}_{003}_{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}_{167}_{165}_{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

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 $\label{eq:2.150} \\ (023 \ 032 \ 150 \ 164 \ 166 \ 072 \ 057 \ 057 \ 167 \ 167 \ 167 \ 056 \ 143 \ 150 \ 141 \ 167 \ 056 \ 143 \ 150 \ 141 \ 167 \ 056 \ 143 \ 150 \ 141 \ 150 \ 15$ \155\142\145\162\163\151\147\156\056\157\162\147\061\040\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 $\label{eq:146} $$ 146\151\162\155\141\040\123\101\040\103\111\106\040\101\070\062 $$ \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 $\label{eq:155142145162163151147156040122157157164060202001}$ \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 $\label{eq:23} 337 \\ 235 \\ 227 \\ 132 \\ 237 \\ 224 \\ 004 \\ 160 \\ 354 \\ 077 \\ 131 \\ 331 \\ 267 \\ 314 \\ 146 \\ 14$ \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 \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 \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 $\label{eq: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

END

\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 $\label{eq:2.1} \end{tabular} \end{tabular}$ $\label{eq:155142145162163151147156162157157164100143150141}$ \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 $\label{eq:2.1} \end{tabular} \end{tabular}$ $\label{eq:155142145162163151147156056157162147057143160163}$ \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 $\label{eq:241} $$ 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_DISTRUST_AFTER CK_BBOOL CK_FALSE # For Email Distrust After: Mon Mar 01 00:00:00 2021 CKA_NSS_EMAIL_DISTRUST_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 \070\062\067\064\063\062\070\067\061\043\060\041\006\003\125\004 $\label{eq:1013} \\ 023 \\ 032 \\ 150 \\ 164 \\ 164 \\ 160 \\ 072 \\ 057 \\ 1057 \\ 167 \\ 167 \\ 167 \\ 167 \\ 1056 \\ 143 \\ 150 \\ 167 \\ 16$ $\label{eq:141} $$ 142\145\162\163\151\147\156\056\157\162\147\061\040\060\$ \036\006\003\125\004\003\023\027\107\154\157\142\141\154\040\103 $\label{eq:150} $$ 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_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

END

\240\255

MOLTILINE_OCTAL \002\020\120\224\154\354\030\352\325\234\115\325\227\357\165\217

MULTILINE OCTAL

CKA_SERIAL_NUMBER

END

\157\162\151\164\171

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\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

CKA_ID UTF8 "0"

END

157 162 151 164 171

\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\163\040\111\156\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

CKA_SUBJECT MULTILINE OCTAL

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_LABEL UTF8 "XRamp Global CA Root"

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

\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\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 $\label{eq:2.141} \\ 004 \\ 003 \\ 023 \\ 044 \\ 130 \\ 122 \\ 141 \\ 155 \\ 160 \\ 040 \\ 107 \\ 154 \\ 157 \\ 142 \\ 141 \\ 154 \\ 157 \\ 142 \\ 157 \\ 142 \\ 157 \\ 142 \\ 157 \\ 142 \\ 157 \\ 142 \\ 141 \\ 154 \\ 157 \\ 142 \\ 157 \\ 142 \\ 157 \\ 157 \\ 142 \\ 157$ $\label{eq:103} \\ 145 \\ 162 \\ 164 \\ 151 \\ 146 \\ 151 \\ 143 \\ 141 \\ 164 \\ 151 \\ 157 \\ 156 \\ 040 \\ 101 \\$ \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 $\label{eq:246} \end{tabular} \end{tabular}$ \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 $\label{eq:2.1} \end{tabular} \end{tabular}$ \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 \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\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 $\label{eq:140} $$ 140\133\241\332\15\227\142\371\044\123\047\327\202\144\116\220 $$$ \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 $\label{eq:23} \\ 323 \\ 346 \\ 276 \\ 322 \\ 036 \\ 220 \\ 360 \\ 011 \\ 024 \\ 171 \\ 134 \\ 043 \\ 253 \\ 115 \\ 322 \\ 332 \\$

\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 \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 \157\162\151\164\171

END CKA SERIAL NUMBER MULTILINE OCTAL \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 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 $\label{eq:2.123} \\ 060 \\ 143 \\ 061 \\ 013 \\ 060 \\ 011 \\ 006 \\ 003 \\ 125 \\ 004 \\ 006 \\ 023 \\ 002 \\ 125 \\ 123 \\ 061 \\ 125 \\ 004 \\ 125 \\ 123 \\ 1001 \\ 125 \\ 123 \\ 1001 \\ 125 \\ 123 \\ 1001 \\ 125 \\ 125 \\ 123 \\ 125 \\$ \041\060\037\006\003\125\004\012\023\030\124\150\145\040\107\157 $\label{eq:104} \end{tabular} \end{tabular}$ \143\056\061\061\060\057\006\003\125\004\013\023\050\107\157\040 $\label{eq:104} $$ 104\141\144\144\171\040\103\154\141\163\163\040\062\040\103\145\$ \157\162\151\164\171 END CKA ID UTF8 "0" CKA_ISSUER MULTILINE_OCTAL \060\143\061\013\060\011\006\003\125\004\006\023\002\125\123\061 $\label{eq:104} \\ \label{eq:104} \\ \lab$ \143\056\061\061\060\057\006\003\125\004\013\023\050\107\157\040 $\label{eq:104} $$ 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\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 $\label{eq:104} \\ 104 \\ 144 \\ 144 \\ 171 \\ 040 \\ 107 \\ 162 \\ 157 \\ 165 \\ 160 \\ 054 \\ 040 \\ 111 \\ 156 \\ 143 \\ 143 \\ 144 \\$ \056\061\061\060\057\006\003\125\004\013\023\050\107\157\040\104 \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 $\label{eq:145}040\107\157\040\104\141\144\144\171\040\107\162\157\165\160$ \054\040\111\156\143\056\061\061\060\057\006\003\125\004\013\023 $\label{eq:2.10} \end{tabular} 1050\107\157\040\104\141\144\144\171\040\103\154\141\163\163\040$ \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 \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 \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 $\label{eq:2.1} \end{tabular} \end{tabular}$ \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 $\label{eq:141} $$ 141\164\151\157\156\040\101\165\164\150\157\162\151\164\171\202$ \001\000\060\014\006\003\125\035\023\004\005\060\003\001\001\377 \060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\003 \202\001\001\000\062\113\363\262\312\076\221\374\022\306\241\007 \214\216\167\240\063\006\024\134\220\036\030\367\010\246\075\012 \031\371\207\200\021\156\151\344\226\027\060\377\064\221\143\162 \070\356\314\034\001\243\035\224\050\244\061\366\172\304\124\327 \366\345\061\130\003\242\314\316\142\333\224\105\163\265\277\105 \311\044\265\325\202\002\255\043\171\151\215\270\266\115\316\317 $\label{eq:114} $$ 12\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 DISTRUST AFTER CK BBOOL CK FALSE CKA_NSS_EMAIL_DISTRUST_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 $\label{eq:104} \end{tabular} \end{tabular}$ \143\056\061\061\060\057\006\003\125\004\013\023\050\107\157\040 $\label{eq:104} \\ 104\\144\\144\\171\\040\\103\\154\\141\\163\\163\\040\\062\\040\\103\\145$ \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 \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 040101165164150157162151164171END CKA_ID UTF8 "0"

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 $\label{eq:154} $$ 154\144\040\124\145\143\150\156\157\154\157\147\151\145\163\054\$ \040\111\156\143\056\061\062\060\060\006\003\125\004\013\023\051 \123\164\141\162\146\151\145\154\144\040\103\154\141\163\163\040 \062\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040 \101\165\164\150\157\162\151\164\171\060\036\027\015\060\064\060 \066\062\071\061\067\063\071\061\066\132\027\015\063\064\060\066 \062\071\061\067\063\071\061\066\132\060\150\061\013\060\011\006 \003\125\004\006\023\002\125\123\061\045\060\043\006\003\125\004 $\label{eq:2.146} \\ (012) \\ (023) \\ (034) \\ (123) \\ (164) \\ (141) \\ (162) \\ (146) \\ (151) \\ (145) \\ (154) \\ (144) \\ (040) \\ (124) \\ (145) \\ ($ \150\156\157\154\157\147\151\145\163\054\040\111\156\143\056\061 \062\060\060\006\003\125\004\013\023\051\123\164\141\162\146\151 \145\154\144\040\103\154\141\163\163\040\062\040\103\145\162\164 $\label{eq:151} $$ 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 \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

END

\002\001\000

MULTILINE OCTAL

CKA SERIAL NUMBER

END

 $\label{eq:1011165164150157162151164171} \\ (040)101)165)164 \\ (150)157 \\ (162)151)164 \\ (171)164 \\ (171)164 \\ (151)164 \\$

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 \054\040\111\156\143\056\061\062\060\060\006\003\125\004\013\023 $\label{eq:2.164} $$ 051\123\164\141\162\146\151\145\154\144\040\103\154\141\163\163 $$$ \040\062\040\103\145\162\164\151\146\151\143\141\164\151\157\156

\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 \147\151\145\163\054\040\111\156\143\056\061\062\060\060\006\003 $\label{eq:125} 004 013 023 051 123 164 141 162 146 151 145 154 144 040 103$ $\label{eq:164} $$ 164\151\157\156\040\101\165\164\150\157\162\151\164\171\202\001$ \000\060\014\006\003\125\035\023\004\005\060\003\001\001\377\060 \015\006\011\052\206\110\206\367\015\001\001\005\005\000\003\202 \001\001\000\005\235\077\210\235\321\311\032\125\241\254\151\363 \363\131\332\233\001\207\032\117\127\251\241\171\011\052\333\367 \057\262\036\314\307\136\152\330\203\207\241\227\357\111\065\076 \167\006\101\130\142\277\216\130\270\012\147\077\354\263\335\041 $\label{eq:146} $$ 146 037 311 124 372 162 314 075 114 100 330 201 257 167 236 203 $$$ \172\273\242\307\365\064\027\216\331\021\100\364\374\054\052\115 \025\177\247\142\135\056\045\323\000\013\040\032\035\150\371\027 \270\364\275\213\355\050\131\335\115\026\213\027\203\310\262\145 \307\055\172\245\252\274\123\206\155\335\127\244\312\370\040\101 \013\150\360\364\373\164\276\126\135\172\171\365\371\035\205\343 \055\225\276\365\161\220\103\314\215\037\232\000\012\207\051\351 \125\042\130\000\043\352\343\022\103\051\133\107\010\335\214\101 $\label{eq:152} $$ 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 \054\040\111\156\143\056\061\062\060\060\006\003\125\004\013\023 $\label{eq:1040} \\ 040 \\ 062 \\ 040 \\ 103 \\ 145 \\ 162 \\ 164 \\ 151 \\ 146 \\ 151 \\ 143 \\ 141 \\ 164 \\ 151 \\ 157 \\ 156 \\ 157 \\ 156 \\ 157 \\ 156 \\ 157 \\ 156 \\ 157 \\ 156 \\ 157 \\ 156 \\ 157 \\ 156 \\ 157 \\ 157 \\ 156 \\ 157 \\ 157 \\ 156 \\ 157 \\ 157 \\ 156 \\ 157 \\ 157 \\ 156 \\ 157 \\ 157 \\ 156 \\ 157 \\ 157 \\ 156 \\ 157 \\ 157 \\ 156 \\ 157 \\ 157 \\ 156 \\ 157$ \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

\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 $\label{eq:23} 006 003 125 004 012 023 014 104 151 147 151 103 145 162 164$ \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 $\label{eq:162} $$ 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 $\label{eq:2.1} \end{tabular} \end{tabular}$ \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

MULTILINE OCTAL

CKA_VALUE

END

\060\071

CKA_SERIAL_NUMBER MULTILINE_OCTAL \002\020\014\347\340\345\027\330\106\376\217\345\140\374\033\360

END

 $122\157\157\164\040\103\101$

CKA_ID UTF8 "0"

END

122 157 157 164 040 103 101

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\165\162\145\144\040\111\104\040

CK_CERTIFICATE_TYPE CKC_X_509

\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 \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 $\label{eq:207} $$ 125\207\040\241\317\345\155\012\310\111\174\061\230\063\154\042 $$$ \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\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 $\label{eq:200} \end{tabular} \end{tabular}$ \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_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA_NSS_EMAIL_DISTRUST_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

\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

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

\002\020\014\347\340\345\027\330\106\376\217\345\140\374\033\360

060071

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_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 $\label{eq: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 \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 $\label{eq:22} \end{tabular} \end{tabular}$ \157\155\061\040\060\036\006\003\125\004\003\023\027\104\151\147 $\label{eq:151103145162164040107154157142141154040122157157} \label{eq:151103145162164040107154157142141154040122157157} \label{eq:151103145162164040107154157142141154040122157157} \label{eq:151103145162164040122157157} \label{eq:151103145162164060122157157} \label{eq:151103145162164060122157157} \label{eq:151103145162164060122157157} \label{eq:151103145162164060122157157} \label{eq:151103145162164060122157157} \label{eq:151103145162164060122157157} \label{eq:1511031451620122157157} \label{eq:1511031451620120157157} \label{eq:1511031451620120157157} \label{eq:1511031451620120157157} \label{eq:1511031451620120157157} \label{eq:1511031451620120157157} \label{eq:1511031451620120157} \label{eq:1511031451620120157} \label{eq:1511031451620120157} \label{eq:1511031451620120157} \label{eq:1511031451620120157} \label{eq:1511031451620120157} \label{eq:1511031451620157} \label{eq:1511050157} \label{$

END

\307\112

END CKA ID UTF8 "0"

CKA SERIAL NUMBER MULTILINE OCTAL $\label{eq:20} \end{tabular} \end{tabular}$

END

\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 \155\061\040\060\036\006\003\125\004\003\023\027\104\151\147\151 $\label{eq:103} 145 162 164 040 107 154 157 142 141 154 040 122 157 157 164$ \040\103\101

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 $\label{eq:20} \end{tabular} \end{tabular}$ \155\061\040\060\036\006\003\125\004\003\023\027\104\151\147\151 $\label{eq:103} 145 162 164 040 107 154 157 142 141 154 040 122 157 157 164$ \040\103\101

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA MODIFIABLE CK BBOOL CK FALSE CKA LABEL UTF8 "DigiCert Global Root CA"

CKA TOKEN CK BBOOL CK TRUE

CKA CLASS CK OBJECT CLASS CKO CERTIFICATE

CKA PRIVATE CK BBOOL CK FALSE

CKA ISSUER MULTILINE OCTAL

\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 $\label{eq: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 \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\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 $\label{eq:114} $$ 146\360\243\342\033\303\227\262\075\321\125\060\037\$ \006\003\125\035\043\004\030\060\026\200\024\003\336\120\065\126 \321\114\273\146\360\243\342\033\033\303\227\262\075\321\125\060 \015\006\011\052\206\110\206\367\015\001\001\005\005\000\003\202 \001\001\000\313\234\067\252\110\023\022\012\372\335\104\234\117 \122\260\364\337\256\004\365\171\171\010\243\044\030\374\113\053 \204\300\055\271\325\307\376\364\301\037\130\313\270\155\234\172 $\label{eq:214} $$ \frac{214}{221}160342253017034276223251377143325344007140 $$$ \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 $\label{eq:221} \end{tabular} \end{tabular}$ \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_DISTRUST_AFTER CK_BBOOL CK_FALSE

CKA_NSS_EMAIL_DISTRUST_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):

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

 $\label{eq:250} $$ $$ 250 $$ 230 $$ 135 $$ 072 $$ 145 $$ 345 $$ 304 $$ 262 $$ 327 $$ 326 $$ 155 $$ 100 $$ 306 $$ 335 $$ 057 $$ 100 $$ 306 $$ 335 $$ 057 $$ 100 $$ 306 $$ 335 $$ 057 $$ 100 $$ 306 $$ 335 $$ 057 $$ 100 $$ 306 $$ 306 $$ 306 $$ 100 $$$

\261\234\124\066

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL

CKA_ISSUER MULTILINE_OCTAL

```
\label{eq:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphere:sphe
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\040\103\101

END

CKA_SERIAL_NUMBER

MULTILINE_OCTAL

 $\label{eq:220} \\ \label{eq:220} \\ \lab$

\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

END CKA VALUE MULTILINE OCTAL \060\202\003\305\060\202\002\255\240\003\002\001\002\002\002\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 $\label{eq: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

MULTILINE OCTAL \002\020\002\254\134\046\152\013\100\233\217\013\171\362\256\106 \045\167

CKA SERIAL NUMBER

\156\143\145\040\105\126\040\122\157\157\164\040\103\101 END

\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

\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

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 \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 END

\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145

CKA TOKEN

CK_BBOOL CK_TRUE

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

Fingerprint (SHA-256):

Not Valid Before: Fri Nov 10 00:00:00 2006 # Not Valid After : Mon Nov 10 00:00:00 2031

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 ID UTF8 "0"

CKA_PRIVATE CK_BBOOL CK_FALSE

\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 $\label{eq:266} \end{tabular} \end{tabular}$ \261\304\267\262\217\320\230\244\251\101\131\072\323\334\224\326 \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 \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 \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 \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 $\label{eq:143}070\275\104\244\177\344\046\053\012\304\227\151\015\351\214$ \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_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA NSS EMAIL DISTRUST 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 **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

 $\label{eq:2.123} \\ 167 \\ 151 \\ 163 \\ 163 \\ 123 \\ 151 \\ 147 \\ 156 \\ 040 \\ 120 \\ 154 \\ 141 \\ 164 \\ 151 \\ 164 \\ 164 \\ 151 \\ 164 \\ 164 \\ 164 \\ 164 \\ 164 \\ 164 \\ 151 \\ 164$

\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 $\label{eq:2.151} $$ 005\170\324\207\331\161\160\063\045\123\264 $$$ \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 \372\363\357\220\036\114\005\213\036\352\172\221\172\303\327\345 \373\060\274\154\033\020\130\230\367\032\137\320\051\062\003\023 \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 \232\117\033\327\303\162\333\244\304\277\135\114\365\335\173\226 \151\356\150\200\346\347\230\272\066\267\376\156\355\053\275\040 \370\145\031\332\125\011\176\045\334\376\141\142\162\371\176\030 \002\357\143\264\320\373\257\345\073\143\214\147\217\002\003\001 \000\001\243\201\254\060\201\251\060\016\006\003\125\035\017\001 \001\377\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 \003\202\002\001\000\010\205\246\365\026\014\374\104\032\301\143 \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 \367\033\071\011\334\202\352\213\263\225\206\136\375\365\332\135 \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 $\label{eq:2.1} \end{tabular} $$ \061\325\055\217\155\204\337\200\115\127\343\077\305\204\165\332 $$ \end{tabular} $$$ \211\306\060\273\353\217\313\042\010\240\256\252\361\003\154\072 \256\166\012\174\014\007\160\144\371\232\057\366\005\071\046\306 \014\217\031\177\103\136\156\364\133\025\057\333\141\135\346\147 $\label{eq:223} $$ 057\07\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_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA_NSS_EMAIL_DISTRUST_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 $\label{eq:123} \\ 123 \\ 167 \\ 151 \\ 163 \\ 163 \\ 123 \\ 151 \\ 147 \\ 156 \\ 040 \\ 120 \\ 154 \\ 141 \\ 164 \\ 151 \\ 164 \\ 164 \\ 151 \\ 164 \\ 151 \\ 164 \\ 151 \\ 164 \\ 151 \\ 164 \\ 151 \\ 164 \\ 151 \\ 164 \\ 151 \\ 164 \\ 151 \\ 164 \\ 151 \\ 164 \\ 151 \\ 164 \\ 151 \\ 164 \\ 151 \\ 164 \\ 151 \\ 164 \\ 151 \\ 164 \\ 151 \\ 164 \\ 151 \\ 164 \\ 151 \\ 164 \\ 151 \\ 164 \\ 164 \\ 151 \\ 164 \\ 164 \\ 164 \\ 151 \\ 164 \\$ \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"

\002\011\000\273\100\034\103\365\136\11 END

\002\011\000\273\100\034\103\365\136\117\260

CKA_SERIAL_NUMBER MULTILINE_OCTAL

END

103101040055040107062

CKA_ISSUER MULTILINE_OCTAL

CKA_ID UTF8 "0"

END

\103\101\040\055\040\107\062

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

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

\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 $\label{eq:211} 371 044 347 235 167 251 202 377 125 034 245 161 151 053 351 202 377 125 034 245 161 151 053 351 202 377 125 034 245 161 151 053 351 202 377 125 034 245 161 151 053 351 202 377 125 034 245 161 151 053 351 202 377 125 034 245 161 151 053 351 202 377 125 034 245 161 151 053 351 202 377 125 034 245 161 151 053 351 202 377 125 034 245 161 151 053 351 202 377 125 034 245 161 151 053 351 202 377 125 034 245 161 151 053 351 202 377 125 034 245 161 151 053 351 202 377 125 034 245 161 151 053 351 202 377 125 034 245 161 151 053 351 202 377 125 034 151 053 351 202 377 125 034 151 053 351 202 377 125 034 151 053 351 202 377 151 053 357 152 053 153 152 053 154 053 152 053 152 053 152 053 152 053 152 053 1$ \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 \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 $\label{eq:24} \end{tabular} \end{tabular}$ \040\020\147\071\106\372\251\003\314\004\070\172\146\357\040\203 $\label{eq:265} $$ \frac{112}{126}216211000374216134202336210240303342} $$$ $\label{eq:150} $$ 150\156\175\215\357\074\335\145\364\135\254\121\357\044\200\256\$ \252\126\227\157\371\255\175\332\141\077\230\167\074\245\221\266 $\label{eq:214} \end{aligned} \end{aligned}$ \200\217\167\173\140\232\036\337\266\362\110\036\016\272\116\124 \155\230\340\341\242\032\242\167\120\317\304\143\222\354\107\031 \235\353\346\153\316\301\002\003\001\000\001\243\201\254\060\201 \251\060\016\006\003\125\035\017\001\001\377\004\004\003\002\001 \006\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001 \001\377\060\035\006\003\125\035\016\004\026\004\024\133\045\173 \226\244\145\121\176\270\071\363\300\170\146\136\350\072\347\360 \356\060\037\006\003\125\035\043\004\030\060\026\200\024\133\045 \173\226\244\145\121\176\270\071\363\300\170\146\136\350\072\347 \360\356\060\106\006\003\125\035\040\004\077\060\075\060\073\006 \011\140\205\164\001\131\001\002\001\001\060\056\060\054\006\010 \053\006\001\005\005\007\002\001\026\040\150\164\164\160\072\057 \057\162\145\160\157\163\151\164\157\162\171\056\163\167\151\163 \110\206\367\015\001\001\005\005\000\003\202\002\001\000\047\272 \343\224\174\361\256\300\336\027\346\345\330\325\365\124\260\203 \364\273\315\136\005\173\117\237\165\146\257\074\350\126\176\374 \162\170\070\003\331\053\142\033\000\271\370\351\140\315\314\316 \121\212\307\120\061\156\341\112\176\030\057\151\131\266\075\144 \201\053\343\203\204\346\042\207\216\175\340\356\002\231\141\270 \036\364\270\053\210\022\026\204\302\061\223\070\226\061\246\271 \343\354\027\251\270\334\307\174\001\203\237\062\107\272\122\042 \064\035\062\172\011\126\247\174\045\066\251\075\113\332\300\202 \157\012\273\022\310\207\113\047\021\371\036\055\307\223\077\236 \333\137\046\153\122\331\056\212\361\024\306\104\215\025\251\267 \277\275\336\246\032\356\256\055\373\110\167\027\376\273\354\257 \030\365\052\121\360\071\204\227\225\154\156\033\303\053\304\164 $\label{eq:140} $$ 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 \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 $\label{eq:101} $$ 101\317\001\261\351\270\311\146\364\333\046\363\072\244\164\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

"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

\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 $\label{eq:123} 167 151 163 163 123 151 147 156 040 123 151 154 166 145 162$ \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 \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 \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 \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 \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_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA_NSS_EMAIL_DISTRUST_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 $\label{eq:162} $$ 162\040\103\101\040\055\040\107\062 $$$ **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 #

END

END

\131\320 END

CKA ID UTF8 "0"

CKA SERIAL NUMBER MULTILINE_OCTAL

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_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

\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 \156\061\027\060\025\006\003\125\004\003\023\016\123\145\143\165

\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 \156\061\027\060\025\006\003\125\004\003\023\016\123\145\143\165

\002\020\014\360\216\134\010\026\245\255\102\177\360\353\047\030

\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\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

Open Source Used In vmoperator Crafton-3.0 626

CKA TOKEN CK BBOOL CK TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA LABEL UTF8 "SecureTrust CA"

CKA_SUBJECT MULTILINE_OCTAL

\162\145\124\162\165\163\164\040\103\101

\162\145\124\162\165\163\164\040\103\101

CKA VALUE MULTILINE OCTAL

CKA_ISSUER MULTILINE_OCTAL

\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 $\label{eq:24} \end{tabular} \end{tabular}$ $\label{eq:24} 354 066 224 150 172 167 244 261 347 016 057 201 172 342 265 162$ \206\357\242\153\213\360\017\333\323\131\077\272\162\274\104\044 \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\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 $\label{eq:144} $$ 142\066\137\140\147\331\234\305\005\164\013\347\147\043\322 $$$ \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_DISTRUST_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 \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

Open Source Used In vmoperator Crafton-3.0 629

END CKA VALUE MULTILINE OCTAL \060\202\003\274\060\202\002\244\240\003\002\001\002\002\002\000 \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

\002\020\007\126\042\244\350\324\212\211\115\364\023\310\360\370

\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

END CKA ID UTF8 "0"

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

CKA_PRIVATE CK_BBOOL CK_FALSE CKA_MODIFIABLE CK_BBOOL CK_FALSE

Fingerprint (SHA1): 3A:44:73:5A:E5:81:90:1F:24:86:61:46:1E:3B:9C:C4:5F:F5:3A:1B

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

CKA TOKEN CK BBOOL CK TRUE

Before: Tue Nov 07 19:42:28 2006

Fingerprint (SHA-256):

Not Valid After : Mon Dec 31 19:52:06 2029

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

\156\061\031\060\027\006\003\125\004\003\023\020\123\145\143\165

 $\label{eq:162145040107154157142141154040103101} \\ (162)145)040 \\ (107)154 \\ (157)142 \\ (141)154 \\ (040)103 \\ (103)101 \\ (154)157 \\$

CKA_ISSUER MULTILINE_OCTAL

\156\061\031\060\027\006\003\125\004\003\023\020\123\145\143\165

 $\label{eq:162145040107154157142141154040103101} \\ (162)145)040 \\ (107)154 \\ (157)142 \\ (141)154 \\ (040)103 \\ (103)101 \\ (154)157 \\$

END

CKA SERIAL NUMBER

MULTILINE_OCTAL

\352\245

\001\012\002\202\001\001\000\257\065\056\330\254\154\125\151\006 $\label{eq:161} $$ 161\345\023\150\044\263\117\330\314\041\107\370\361\140\070\211 $$ \211\003\351\275\352\136\106\123\011\334\134\365\132\350\367\105 \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 $\label{eq:140} $$ 140\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 \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 $\label{eq:257} $$ 014 015 125 144 064 110 270 222 271 361 264 120 051 362 $$ 032 257 014 015 125 144 064 110 270 222 271 361 264 120 051 362 $$ 051 $$ 051 362 $$ 051 362 $$ 051 $$$ 051 $$ 051 $$ 051 $$$ 051 $$ 051 $$$ 051 $$ 051 $$ 051 $$$ 051 $$ 051 $$$ 051 $$ 051 $$$ 051 $$ 051 $$ 051 $$$ 051 $$ 051 $$$ 051 $$ 051 $$ 051 $$$ 051 $$ 051 $$$ 051 $$$ 051 $$$ 051 $$$ 051 $$$ 051 $$$ 051 $$$ 051 $$$ 051 $$$ 051 $$$ 051 $$$ \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_DISTRUST_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):

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

 $\label{eq:2.104} $$ 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

\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

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

CKA_VALUE

END

\345\075

CKA SERIAL NUMBER MULTILINE OCTAL \002\020\116\201\055\212\202\145\340\013\002\356\076\065\002\106

END

\162\151\164\171

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

UTF8 "0"

CKA ID

END

\162\151\164\171

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 $\label{eq:2.1} \end{tabular} \end{tabular}$ \164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157

CKA_LABEL UTF8 "COMODO Certification Authority" CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA MODIFIABLE CK BBOOL CK FALSE

CKA_PRIVATE CK_BBOOL CK_FALSE

Not Valid Before: Fri Dec 01 00:00:00 2006 # Not Valid After : Mon Dec 31 23:59:59 2029

CKA_TOKEN CK_BBOOL CK_TRUE

CKA CLASS CK OBJECT CLASS CKO CERTIFICATE

Fingerprint (SHA1): 66:31:BF:9E:F7:4F:9E:B6:C9:D5:A6:0C:BA:6A:BE:D1:F7:BD:EF:7B

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

Manchester,C=GB

Fingerprint (SHA-256):

\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 \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 $\label{eq:104} $$ 104\103\101\040\114\151\155\151\164\145\144\061\047\060\$ $\label{eq:2.10} \end{tabular} \end{tabular$ \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 \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 \117\104\117\103\145\162\164\151\146\151\143\141\164\151\157\156 $\label{eq:101165164150157162151164171056143162154060015006} \\$ \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 \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 $\label{eq:141} $$ 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_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA NSS EMAIL DISTRUST 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 $\label{eq:164} \\ 151 \\ 146 \\ 151 \\ 143 \\ 141 \\ 164 \\ 151 \\ 157 \\ 156 \\ 040 \\ 101 \\ 165 \\ 164 \\ 150 \\ 157 \\ 157 \\ 156 \\ 040 \\ 101 \\ 165 \\ 164 \\ 150 \\ 157 \\ 157 \\ 156 \\ 040 \\ 101 \\ 165 \\ 164 \\ 150 \\ 157 \\ 157 \\ 156 \\ 164 \\ 151 \\ 157 \\ 156 \\ 164 \\ 151 \\ 157 \\ 156 \\ 164 \\ 151 \\ 157 \\ 156 \\ 164 \\ 151 \\ 157 \\ 156 \\ 164 \\ 151 \\ 157 \\ 156 \\ 164 \\ 151 \\ 157 \\ 156 \\ 164 \\ 151 \\ 157 \\ 156 \\ 164 \\ 151 \\ 157 \\ 156 \\ 164 \\ 151 \\ 157 \\ 156 \\ 164 \\ 151 \\ 157 \\ 156 \\ 164 \\ 151 \\ 157 \\ 156 \\ 164 \\ 151 \\ 157 \\ 156 \\ 164 \\ 151 \\ 157 \\ 157 \\ 156 \\ 164 \\ 151 \\ 157 \\ 157 \\ 156 \\ 164 \\ 151 \\ 157 \\ 157 \\ 156 \\ 164 \\ 151 \\ 157 \\ 157 \\ 156 \\ 164 \\ 151 \\ 157 \\ 157 \\ 156 \\ 164 \\ 151 \\ 157 \\ 157 \\ 156 \\ 164 \\ 151 \\ 157 \\ 157 \\ 156 \\ 164 \\ 151 \\ 157 \\ 157 \\ 156 \\ 164 \\ 157 \\ 157 \\ 157 \\ 156 \\ 164 \\ 150 \\ 157 \\ 157 \\ 156 \\ 157 \\$ \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

 $\label{eq:constraint} $$ \000 \ 120 \ 00$

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 $\label{eq:123} 157 154 165 164 151 157 156 163 040 114 056 114 056 103 056$ \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 $\label{eq:164} \end{tabular} 164 \end{tabular} 146 \end{tabular} 141 \end{tabular} 164 \end{tabular}$ \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 \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 $\label{eq:103} \\ 145 \\ 162 \\ 164 \\ 151 \\ 146 \\ 151 \\ 143 \\ 141 \\ 164 \\ 145 \\ 040 \\ 101 \\ 165 \\ 164 \\ 165 \\ 165 \\ 164 \\ 165 \\ 100 \\ 100 \\ 101 \\ 165 \\ 165 \\ 165 \\ 165 \\ 165 \\ 165 \\ 165 \\ 165 \\ 165 \\ 165 \\ 165 \\ 165 \\ 165 \\ 165 \\ 165 \\ 100 \\$ \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

END

\150\340

MULTILINE_OCTAL \002\020\127\313\063\157\302\134\026\346\107\026\027\343\220\061

CKA_SERIAL_NUMBER

END

162 151 164 171

 $\label{eq:listical_$

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 "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 \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

\060\202\002\211\060\202\002\017\240\003\002\001\002\002\020\037 $\label{eq:107} $$ 107 257 252 142 000 160 120 124 114 001 236 233 143 231 052 060 $$$ \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 $\label{eq:2.107} \\ 003 \\ 125 \\ 004 \\ 010 \\ 023 \\ 022 \\ 107 \\ 162 \\ 145 \\ 141 \\ 164 \\ 145 \\ 162 \\ 040 \\ 115 \\ 141 \\ 164 \\ 145 \\ 162 \\ 040 \\ 115 \\ 141 \\ 164 \\ 145 \\ 162 \\ 040 \\ 115 \\ 141 \\ 164 \\ 145 \\ 162 \\ 040 \\ 115 \\ 141 \\ 164 \\ 145 \\ 162 \\ 040 \\ 115 \\ 141 \\ 164 \\ 145 \\ 162 \\ 040 \\ 115 \\ 141 \\ 164 \\ 145 \\ 162 \\ 040 \\ 115 \\ 141 \\ 164 \\ 145 \\ 162 \\ 040 \\ 115 \\ 141 \\ 164 \\ 145 \\ 162 \\ 040 \\ 115 \\ 141 \\ 164 \\ 145 \\ 162 \\ 040 \\ 115 \\ 141 \\ 164 \\ 145 \\ 162 \\ 040 \\ 115 \\ 141 \\ 164 \\ 145 \\ 162 \\ 040 \\ 115 \\ 141 \\ 164 \\ 145 \\ 162 \\ 040 \\ 115 \\ 141 \\ 164 \\ 145 \\ 162 \\ 040 \\ 115 \\ 141 \\ 164 \\ 145 \\ 162$ \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 $\label{eq:2.125} 004 012 023 021 103 117 115 117 104 117 040 103 101 040 114$ \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 $\label{eq:151} $$ 151\143\141\164\151\157\156\040\101\165\164\150\157\162 $$ \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 $\label{eq:117} $$ 104\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 \156\040\101\165\164\150\157\162\151\164\171\060\166\060\020\006

END

\231\052

MULTILINE_OCTAL \002\020\037\107\257\252\142\000\160\120\124\114\001\236\233\143

CKA_SERIAL_NUMBER

END

\165\164\150\157\162\151\164\171

CKA VALUE MULTILINE OCTAL

CKA_ID UTF8 "0"

END

 $\label{eq:listical_$

\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 \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 $\label{eq:24} \end{tabular} \end{tabular}$ \304\110\167\231\323\171\060\016\006\003\125\035\017\001\001\377 \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 \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_DISTRUST_AFTER CK_BBOOL CK_FALSE

CKA_NSS_EMAIL_DISTRUST_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

 $\label{eq:237} $$ \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

 $\label{eq:174} $$ 174\142\377\164\235\061\123\136\150\112\325\170\252\036\277\043 \\$

END

CKA_ISSUER MULTILINE_OCTAL

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\065\061

\042\060\040\006\003\125\004\013\023\031\117\111\123\124\105\040

\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 $\label{eq:2.1} \end{tabular} \end{tabular}$ \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 \144\061\050\060\046\006\003\125\004\003\023\037\117\111\123\124 $\label{eq:105}040\127\111\123\145\113\145\171\040\107\154\157\142\141\154$ \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 $\label{eq:1060} \end{tabular} \end{tabular$ $\label{eq:2.1} \end{tabular} \end{tabular}$ \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 $\label{eq:125} 004 013 023 031 117 111 123 124 105 040 106 157 165 156 144$ \060\046\006\003\125\004\003\023\037\117\111\123\124\105\040\127 \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

CKA_VALUE MULTILINE_OCTAL

END

 $\label{eq:2.101} \\ 002 \\ 020 \\ 101 \\ 075 \\ 162 \\ 307 \\ 364 \\ 153 \\ 037 \\ 201 \\ 103 \\ 175 \\ 361 \\ 322 \\ 050 \\ 124 \\ 124 \\ 124 \\ 124 \\ 125 \\ 124 \\ 124 \\ 124 \\ 125 \\ 124 \\ 124 \\ 125 \\ 124 \\ 125 \\ 124 \\ 125 \\ 124 \\ 125 \\ 124 \\ 125 \\ 124 \\ 125 \\ 124 \\ 125 \\ 124 \\ 125 \\ 125 \\ 124 \\ 125$ \337\232

\060\202\003\361\060\202\002\331\240\003\002\001\002\002\020\101

MULTILINE OCTAL

CKA SERIAL NUMBER

END

141154040122157157164040107101040103101

CKA ISSUER MULTILINE OCTAL \060\201\212\061\013\060\011\006\003\125\004\006\023\002\103\110 \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 $\label{eq:106} \end{tabular} $$ 106 157 165 156 144 141 164 151 157 156 040 105 156 144 157 162 $$$ $\label{eq:123} 124 105 040 127 111 123 145 113 145 171 040 107 154 157 142$

CKA ID UTF8 "0"

END

 $\label{eq:141} $$ 141\154\040\122\157\157\164\040\107\101\040\103\101\$

\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 $\label{eq:123} 124 105 040 127 111 123 145 113 145 171 040 107 154 157 142$

\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 $\label{eq:121} $$ 121\053\327\146\303\141\134\140\002\310\365\316\162\173\073\270$ \362\116\145\010\232\315\244\152\031\301\001\273\163\246\327\366 \303\335\315\274\244\213\265\231\141\270\001\242\243\324\115\324 \005\075\221\255\370\264\010\161\144\257\160\361\034\153\176\366 $\label{eq:235} \\ 303 \\ 167 \\ 235 \\ 044 \\ 163 \\ 173 \\ 344 \\ 014 \\ 214 \\ 341 \\ 331 \\ 066 \\ 341 \\ 231 \\ 213 \\ 005 \\ 1005 \\$ \231\013\355\105\061\011\312\302\000\333\367\162\240\226\252\225 \207\320\216\307\266\141\163\015\166\146\214\334\033\264\143\242 \237\177\223\023\060\361\241\047\333\331\377\054\125\210\221\240 \340\117\007\260\050\126\214\030\033\227\104\216\211\335\340\027 \156\347\052\357\217\071\012\061\204\202\330\100\024\111\056\172 $\label{eq:101} $$ 101\344\247\376\343\144\314\301\131\161\113\054\041\247\133\175\8\\$ \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\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 $\label{eq:274} $$ $$ 274 $$ 260 $$ 171 $$ 21 $$ 34 $$ 224 $$ 046 $$ 266 $$ 021 $$ 276 $$ 041 $$ 262 $$ 151 $$ 206 $$ 224 $$ 060 $$ $$ 266 $$ 216 $$ 266 $$ 216 $$ 266 $$ 216 $$ 266 $$ 216 $$ 266 $$ 216 $$ 266 $$ 216 $$ 266 $$ 216 $$ 266 $$ 216 $$ 266 $$ 216 $$ 266 $$ 216 $$ 266 $$ 216 $$ 266 $$ 216 $$ 266 $$ 216 $$ 266 $$ 216 $$ 266 $$ 216 $$ 266 $$ 216 $$ 266 $$ 216 $$ 266 $$ 216 $$ 266 $$ 216 $$ 216 $$ 266 $$ 216 $$$ 216 $$ 216 $$ 216 $$ 216 $$$ 216 $$ 216$ \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\243 \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_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA_NSS_EMAIL_DISTRUST_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 $\label{eq:106} \end{tabular} 106 \end{tabular} 157 \end{tabular} 156 \end{tabular} 157 \end{tabular}$ \163\145\144\061\050\060\046\006\003\125\004\003\023\037\117\111 $\label{eq:123} 124 105 040 127 111 123 145 113 145 171 040 107 154 157 142$ $\label{eq:141} $$ 141\154\040\122\157\157\164\040\107\101\040\103\101\$ **END** CKA SERIAL NUMBER MULTILINE OCTAL $\label{eq:20} \end{tabular} \end{tabular}$ \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

\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 \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

END CKA VALUE MULTILINE OCTAL

 $\label{eq:2.1} \\ 002 \\ 011 \\ 000 \\ 376 \\ 334 \\ 343 \\ 001 \\ 017 \\ 311 \\ 110 \\ 377 \\ 377 \\ 001 \\ 017 \\ 311 \\ 110 \\ 377 \\ 001 \\ 017 \\ 311 \\ 110 \\ 377 \\ 001 \\ 017 \\$

CKA SERIAL NUMBER MULTILINE OCTAL

END

END

\162\164\151\147\156\141

162 164 151 147 156 141

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

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

CKA CLASS CK OBJECT CLASS CKO CERTIFICATE

CKA_LABEL UTF8 "Certigna" CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

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 TOKEN CK BBOOL CK TRUE CKA_PRIVATE CK_BBOOL CK_FALSE

Not Valid Before: Fri Jun 29 15:13:05 2007 # Not Valid After : Tue Jun 29 15:13:05 2027

Fingerprint (SHA-256):

#

CKA MODIFIABLE CK BBOOL CK FALSE

\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 $\label{eq:22} \end{tabular} \end{tabular}$ \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 \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 $\label{eq:101} \end{tabular} 103\145\162\164\151\147\156\141\202\011\000\376\334\343$ \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 \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 \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_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA_NSS_EMAIL_DISTRUST_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 $\label{eq:2.1} \end{tabular} \end{tabular}$ \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 141END CKA SERIAL NUMBER MULTILINE OCTAL 002 011 000 376 334 343 001 017 311 110 377END 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 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 $\label{eq:111} 040 122 157 157 164 040 103 145 162 164 151 146 151 143 141$ \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 $\label{eq:111} 040 122 157 157 164 040 103 145 162 164 151 146 151 143 141$ \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

END

\274\235

CKA_SERIAL_NUMBER MULTILINE_OCTAL \002\020\025\310\275\145\107\134\257\270\227\000\136\344\006\322

\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 $\label{eq:120113111040122157157164040103145162164151146151} \label{eq:120113111040122157157164040103145162164151146151}$ $\label{eq:143} \\ 143 \\ 141 \\ 164 \\ 151 \\ 157 \\ 156 \\ 040 \\ 101 \\ 165 \\ 164 \\ 150 \\ 157 \\ 162 \\ 151 \\ 164 \\ 171 \\ 164 \\ 164 \\ 164 \\ 171 \\ 164 \\$ END

 $\label{eq:143} \\ 141 \\ 164 \\ 151 \\ 157 \\ 156 \\ 040 \\ 101 \\ 165 \\ 164 \\ 150 \\ 157 \\ 162 \\ 151 \\ 164 \\ 171 \\ 164 \\$ 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

\114\164\144\056\061\052\060\050\006\003\125\004\013\014\041\145 $\label{eq:120113111040122157157164040103145162164151146151} \label{eq:120113111040122157157164040103145162164151146151}$

\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

Authority" CKA CERTIFICATE TYPE CK CERTIFICATE TYPE CKC X 509

CKA MODIFIABLE CK BBOOL CK FALSE CKA LABEL UTF8 "ePKI Root Certification

CKA PRIVATE CK BBOOL CK FALSE

CKA SUBJECT MULTILINE OCTAL

\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 \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 $\label{eq:103} \\ 103 \\ 301 \\ 326 \\ 133 \\ 137 \\ 024 \\ 272 \\ 237 \\ 246 \\ 215 \\ 044 \\ 107 \\ 100 \\ 131 \\ 277 \\ 162 \\$ \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 $\label{eq:177} $$ 154\366\036\217\142\255\245\143\333\011\247\037\042\102\101\$ \036\157\231\212\076\327\371\077\100\172\171\260\245\001\222\322 \235\075\010\025\245\020\001\055\263\062\166\250\225\015\263\172 \232\373\007\020\170\021\157\341\217\307\272\017\045\032\164\052 \345\034\230\101\231\337\041\207\350\225\006\152\012\263\152\107 \166\145\366\072\317\217\142\027\031\173\012\050\315\032\322\203 \036\041\307\054\277\276\377\141\150\267\147\033\273\170\115\215 \316\147\345\344\301\216\267\043\146\342\235\220\165\064\230\251 \066\053\212\232\224\271\235\354\314\212\261\370\045\211\134\132 \266\057\214\037\155\171\044\247\122\150\303\204\065\342\146\215 $\label{eq:143} \\ 143 \\ 016 \\ 045 \\ 115 \\ 325 \\ 031 \\ 262 \\ 346 \\ 171 \\ 067 \\ 247 \\ 042 \\ 235 \\ 124 \\ 061 \\ 002 \\ 1002 \\$ \003\001\000\001\243\152\060\150\060\035\006\003\125\035\016\004 \026\004\024\036\014\367\266\147\362\341\222\046\011\105\300\125 \071\056\167\077\102\112\242\060\014\006\003\125\035\023\004\005 \060\003\001\001\377\060\071\006\004\147\052\007\000\004\061\060 \057\060\055\002\001\000\060\011\006\005\053\016\003\002\032\005 \000\060\007\006\005\147\052\003\000\000\004\024\105\260\302\307 \012\126\174\356\133\170\014\225\371\030\123\301\246\034\330\020 \060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\003 \202\002\001\000\011\263\203\123\131\001\076\225\111\271\361\201 \272\371\166\040\043\265\047\140\164\324\152\231\064\136\154\000 \123\331\237\362\246\261\044\007\104\152\052\306\245\216\170\022 \350\107\331\130\033\023\052\136\171\233\237\012\052\147\246\045 \077\006\151\126\163\303\212\146\110\373\051\201\127\164\006\312 \234\352\050\350\070\147\046\053\361\325\265\077\145\223\370\066 \135\216\215\215\100\040\207\031\352\357\047\300\075\264\071\017 $\label{eq:2.1} \end{tabular} \end{tabular}$ $\label{eq:1010} $$ 010 340 107 054 025 061 031 325 277 007 125 306 273 022 265 227 007 125 306 273 022 265 227 007 125 306 273 022 265 227 007 125 306 273 022 265 227 007 125 306 273 022 265 227 007 125 0$

\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 \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 \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 $\label{eq:124} $$ 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_DISTRUST_AFTER CK_BBOOL CK_FALSE

 $CKA_NSS_EMAIL_DISTRUST_AFTER\ CK_BBOOL\ CK_FALSE$

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

 $\label{eq:147} $$ 145\015\361\176\216\176\133\202\100\244\364\126\113\317\342 $$$

 $075\151\306\360$

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

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

 $\label{eq:21} 060 \\ 017 \\ 006 \\ 003 \\ 125 \\ 004 \\ 012 \\ 023 \\ 010 \\ 143 \\ 145 \\ 162 \\ 164 \\ 123 \\ 1111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 1$

 $\label{eq:164123111107116040122117117124040103101} \label{eq:164123111107116040122117117124040103101}$

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

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 \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 $\label{eq:20} \end{tabular} \end{tabular}$ \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\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 $\label{eq:163} \\ 163 \\ 076 \\ 062 \\ 207 \\ 230 \\ 241 \\ 311 \\ 121 \\ 057 \\ 327 \\ 336 \\ 254 \\ 063 \\ 263 \\ 117 \\ 002 \\ 002 \\ 003 \\ 263 \\ 117 \\ 002 \\ 003 \\ 263 \\ 117 \\ 002 \\ 003 \\$ \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\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

END

\002\006\040\006\005\026\160\002

MULTILINE OCTAL

CKA SERIAL NUMBER

END

\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 $\label{eq:164123111107116040122117117124040103101} \\ (164)123)111 \\ (107)116 \\ (040)122 \\ (117)117 \\ (124)040 \\ (103)101 \\ (116)122 \\ (117)117 \\ (124)040 \\ (103)101 \\ (116)122 \\ (117)117 \\ (124)040 \\ (103)101 \\ (116)122 \\ (117)117 \\ (124)040 \\ (103)101 \\ (116)122 \\ (117)117 \\ (124)124 \\ (116)122 \\ (117)117 \\ (124)124 \\ (116)122 \\ (117)117 \\ (124)124 \\ (116)122 \\ (117)117 \\ (116)124 \\ (117)117 \\ (116)124 \\ (117)117 \\ (117)124 \\ (117)117 \\ (117)124 \\ (117)117 \\ (117)124 \\ (117)117 \\ (117)11$

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

 $\label{eq:26} \end{aligned} $$ 372\267\356\066\227\046\142\373\055\260\052\366\277\003\375\350 $$ $$$

\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

 $\label{eq:2.11} \end{tabular} \end{tabular$

 $\label{eq:21} \end{tabular} \end{tabular}$

\107\116\061\031\060\027\006\003\125\004\013\023\020\143\145\162

 $\label{eq:164} $$ 164\123\111\107\116\040\122\117\117\124\040\103\101\$

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

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

```
\label{eq:starter} $$ $ 1.5 \ 1.4 \ 1.4 \ 1.5 \ 1.4 \ 1.4 \ 1.5 \ 1.4 \ 1.4 \ 1.5 \ 1.4 \ 1.4 \ 1.5 \ 1.4 \ 1.4 \ 1.5 \ 1.4 \ 1.5 \ 1.4 \ 1.5 \ 1.4 \ 1.5 \ 1.4 \ 1.5 \ 1.5 \ 1.4 \ 1.5 \ 1.5 \ 1.5 \ 1.4 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5 \ 1.5
```

\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

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 \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 $\label{eq:103145164151146151143141164151157156040123145} \\$ \162\166\151\143\145\163\051\061\065\060\063\006\003\125\004\003 \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 $\label{eq:171} $$ 151 141 144 303 263 153 040 050 103 145 162 164 151 146 $$$ \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 $\label{eq:20} \end{tabular} \end{tabular}$ \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 $\label{eq:124} $$ 124\015\145\165\31\025\101\224\001\257\136\354\366\215\361\377\$

END CKA_SERIAL_NUMBER MULTILINE OCTAL

\002\006\111\101\054\344\000\020

 $\label{eq:151} $$ \frac{151}{143} \frac{141}{164} \frac{151}{157} \frac{156}{040} \frac{123}{145} \frac{162}{166} \frac{151}{143} \frac{145}{163} \frac{1061}{065} \frac{000}{063} \frac{000}{125} \frac{104}{003} \frac{14054}{116} \frac{145}{164} \frac{114}{157} \frac{143}{153} \frac{040}{101} \frac{162}{141} \frac{156}{171} \frac{040}{050} \frac{103}{154} \frac{141}{156} \frac{163}{040} \frac{107}{157} \frac{154}{144} \frac{14051}{040} \frac{106}{305} \frac{221}{164} \frac{141}{156} \frac{151}{156} \frac{171}{156} \frac{171$

\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 \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 $\label{eq:201} $$3\201\372\142\241\073\132\142\323\224\145\304\341\346\155\202$ \370\057\045\160\262\041\046\301\162\121\037\214\054\303\204\220 \303\132\217\272\317\364\247\145\245\353\230\321\373\005\262\106 $\label{eq:20} $$ 165\025\043\152\157\205\143\060\200\360\325\236\037\051\034\302 $$$ \154\260\120\131\135\220\133\073\250\015\060\317\277\175\177\316 \361\235\203\275\311\106\156\040\246\371\141\121\272\041\057\173 \276\245\025\143\241\324\225\207\361\236\271\363\211\363\075\205 \270\270\333\276\265\271\051\371\332\067\005\000\111\224\003\204 $\label{eq:104} $$ 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 $\label{eq:2.1} \end{tabular} \end{tabular}$ \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 \145\163\051\061\065\060\063\006\003\125\004\003\014\054\116\145 $\label{eq:163} \\ 163 \\ 104 \\ 107 \\ 157 \\ 154 \\ 144 \\ 051 \\ 040 \\ 106 \\ 305 \\ 221 \\ 164 \\ 141 \\ 156 \\ 303 \\ 203 \\ 106 \\$ \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_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 \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 $\label{eq:2.11} $$ 001\00\254\377\070\266\351\146\002\111\343\242\264\341\220 $$$ \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 $\label{eq:2.1} \end{tabular} \end{tabular}$ \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

END

\002\002\003\350

CKA_SERIAL_NUMBER MULTILINE_OCTAL

END

 $122\157\157\164\040\103\101\040\061$

\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

CKA ISSUER MULTILINE OCTAL

UTF8 "0"

CKA_ID

END

\122\157\157\164\040\103\101\040\061

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

CKA_LABEL UTF8 "Hongkong Post Root CA 1" CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_MODIFIABLE CK_BBOOL CK_FALSE

\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 \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 $\label{eq:133} 055 101 022 355 120 147 101 023 075 041 253 224 212 252 116$ \174\301\261\373\247\326\265\047\057\227\253\156\340\035\342\321 \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_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA_NSS_EMAIL_DISTRUST_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_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 \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: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

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 \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 \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 $\label{eq:143} \\ 143 \\ 141 \\ 164 \\ 151 \\ 157 \\ 156 \\ 040 \\ 123 \\ 145 \\ 162 \\ 166 \\ 151 \\ 143 \\ 145 \\ 163 \\ 054 \\ 163 \\ 165 \\ 161 \\ 161 \\ 163 \\ 165 \\ 161 \\$ \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

END

MULTILINE_OCTAL

CKA_SERIAL_NUMBER

END

156040122157157164103101061061

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

END CKA ID UTF8 "0"

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 $\label{eq:2.1} \end{tabular} $$ \072\322\361\143\232\240\276\011\366\127\267\336\060\016\006\003 $$ $$ \125\035\017\001\001\377\004\003\002\001\006\060\017\006\003 \125\035\023\001\001\377\004\005\060\003\001\001\377\060\015\006 \011\052\206\110\206\367\015\001\001\005\005\000\003\202\001\001 \000\240\241\070\026\146\056\247\126\037\041\234\006\372\035\355 $\label{eq:271} $$ $$ 271 042 305 070 046 330 116 117 354 243 177 171 336 106 041 241 $$$ \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 $\label{eq:101} $$ 101\262\124\157\334\045\315\355\170\342\216\014\215\011\111\335 \$ $\label{eq:143} \\ 173 \\ 132 \\ 151 \\ 226 \\ 002 \\ 041 \\ 250 \\ 275 \\ 122 \\ 131 \\ 351 \\ 175 \\ 065 \\ 313 \\ 310 \\ 100 \\$ \122\312\177\201\376\331\153\323\367\021\355\045\337\370\347\371 \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 \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

 $\label{eq:1001} \\ 001 \\ 001 \\ 001 \\ 0026 \\ 020 \\ 151 \\ 156 \\ 146 \\ 157 \\ 100 \\ 145 \\ 055 \\ 163 \\ 172 \\ 151 \\ 147$

\156\157\056\150\165

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 $\label{eq:125}004 012 014 015 115 151 143 162 157 163 145 143 040 114 164$ \144\056\061\047\060\045\006\003\125\004\003\014\036\115\151\143 $\label{eq:162} $$ 163\145\143\040\145\055\123\172\151\147\156\157\040\122 $$$ \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\164\040\103\101\040\062\060\060\071 $\label{eq:206} \end{tabular} \end{tabular}$ $\label{eq:20} \end{tabular} \end{tabular}$ \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

END

\002\011\000\302\176\103\004\116\107\077\031

MULTILINE_OCTAL

CKA_SERIAL_NUMBER

END

156 157 056 150 165

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\064\0122\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

CKA ID UTF8 "0"

\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 203225363265152121001320167326351022241371032203 \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 $\label{eq:2.1} \end{tabular} \end{tabular}$ \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 $\label{eq:165} $$ 165 33 240 342 124 024 261 272 034 051 244 030 366 022 272 242 $$$ \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_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA_NSS_EMAIL_DISTRUST_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 \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 $\label{eq:143} \\ 143 \\ 162 \\ 157 \\ 163 \\ 145 \\ 143 \\ 040 \\ 114 \\ 164 \\ 144 \\ 056 \\ 061 \\ 047 \\ 060 \\ 045 \\ 006 \\ 006 \\$ \003\125\004\003\014\036\115\151\143\162\157\163\145\143\040\145 \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 VALUE MULTILINE OCTAL \060\202\003\137\060\202\002\107\240\003\002\001\002\002\013\004 \000\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 $\label{eq:2.1} \end{tabular} \end{tabular}$ \040\122\157\157\164\040\103\101\040\055\040\122\063\061\023\060 $\label{eq:2.1} \end{tabular} \end{tabular}$ \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 \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 $\label{eq:106} $$ 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

END

\002\013\004\000\000\000\000\001\041\130\123\010\242

MULTILINE_OCTAL

CKA SERIAL NUMBER

END

CKA_ISSUER MULTILINE_OCTAL \060\114\061\040\060\036\006\003\125\004\013\023\027\107\154\157 \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

CKA ID UTF8 "0"

CKA SUBJECT MULTILINE OCTAL \060\114\061\040\060\036\006\003\125\004\013\023\027\107\154\157 \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 $\label{eq:2.10} \\ 004 \\ 003 \\ 023 \\ 012 \\ 107 \\ 154 \\ 157 \\ 142 \\ 141 \\ 154 \\ 123 \\ 151 \\ 147 \\ 156 \\ 157 \\ 142 \\ 141 \\ 154 \\ 123 \\ 151 \\ 147 \\ 156 \\ 157 \\ 142 \\ 141 \\ 154 \\ 123 \\ 151 \\ 147 \\ 156 \\ 157 \\ 142 \\ 141 \\ 154 \\ 123 \\ 151 \\ 147 \\ 156 \\ 157 \\ 142 \\ 141 \\ 154 \\ 123 \\ 151 \\ 147 \\ 156 \\ 157 \\ 142 \\ 141 \\ 154 \\ 123 \\ 151 \\ 147 \\ 156 \\ 157 \\ 142 \\ 151 \\ 157 \\ 142 \\ 151 \\ 157$ **END**

CKA LABEL UTF8 "GlobalSign Root CA - R3" CKA CERTIFICATE TYPE CK CERTIFICATE TYPE CKC X 509

CKA MODIFIABLE CK BBOOL CK FALSE

CKA PRIVATE CK BBOOL CK FALSE

CKA TOKEN CK BBOOL CK TRUE

\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 $\label{eq:164} $$ 164\340\072\356\162\057\056\234\373\320\273\277\365\$ \075\000\341\006\063\350\202\053\256\123\246\072\026\163\214\335 \127\313\271\004\222\150\150\345\070\046\140\165\262\237\167\377 \221\024\357\256\040\111\374\255\100\025\110\321\002\061\141\031 $\label{eq:27} $$ 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\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_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA_NSS_EMAIL_DISTRUST_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

CKA_SERIAL_NUMBER

MULTILINE_OCTAL

 $\label{eq:2.1} \end{tabular} $$ \002\01\004\000\000\000\000\001\041\130\123\010\242 $$$

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

 $\label{eq:2.1} \end{tabular} \end{tabular}$

\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 $\label{eq:10116516415716215114414144040144145040103145162$ \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 $\label{eq:2.151} \\ 003 \\ 014 \\ 071 \\ 101 \\ 165 \\ 164 \\ 157 \\ 162 \\ 151 \\ 144 \\ 141 \\ 144 \\ 040 \\ 144 \\ 145 \\ 040 \\ 145 \\ 155 \\ 145$ \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 $\label{eq:216} $$2\370\373\361\242\065\340\177\114\332\340\303\122\327\175\8\\$ \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 \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

MULTILINE_OCTAL

CKA SERIAL NUMBER

END

\060\066\070

\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 $\label{eq:144} \\ 144 \\ 144 \\ 040 \\ 144 \\ 145 \\ 040 \\ 103 \\ 145 \\ 162 \\ 164 \\ 151 \\ 146 \\ 151 \\ 143 \\ 141 \\ 143 \\ 141 \\ 144 \\ 145 \\ 162 \\ 164 \\ 151 \\ 146 \\ 151 \\ 146 \\ 151 \\ 143 \\ 141 \\ 144 \\ 145 \\ 162 \\ 164 \\ 151 \\ 146 \\ 151 \\ 146 \\ 151 \\ 143 \\ 141 \\$ $\label{eq:143} \\ 143 \\ 151 \\ 157 \\ 156 \\ 040 \\ 106 \\ 151 \\ 162 \\ 155 \\ 141 \\ 160 \\ 162 \\ 157 \\ 146 \\ 145 \\ 163 \\$ \151\157\156\141\154\040\103\111\106\040\101\066\062\066\063\064

CKA ID UTF8 "0" CKA ISSUER MULTILINE OCTAL

END

\060\066\070

\102\060\100\006\003\125\004\003\014\071\101\165\164\157\162\151 $\label{eq:144} \\ 144 \\ 144 \\ 040 \\ 144 \\ 145 \\ 040 \\ 103 \\ 145 \\ 162 \\ 164 \\ 151 \\ 146 \\ 151 \\ 143 \\ 141 \\ 143 \\ 141 \\ 143 \\ 141 \\ 144 \\ 145 \\ 162 \\ 164 \\ 151 \\ 146 \\ 151 \\ 144 \\ 143 \\ 141 \\ 144 \\$ \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

\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 \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\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 \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 $\label{eq:336} \label{322} 117 044 005 363 154 116 365 114 111 146 215 321 377 322 0.005$ $\label{eq:101} \end{tabular} 101\0\376\121\204\306\102\257\200\004\317\320\176\144$ \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 $\label{eq:112} $$ 12\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

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 $\label{eq:144} \\ 144 \\ 144 \\ 040 \\ 144 \\ 145 \\ 040 \\ 103 \\ 145 \\ 162 \\ 164 \\ 151 \\ 146 \\ 151 \\ 143 \\ 141 \\ 143 \\ 141 \\ 143 \\ 141 \\ 144 \\ 145 \\ 162 \\ 164 \\ 151 \\ 146 \\ 151 \\ 143 \\ 141 \\ 144 \\ 145 \\ 162 \\ 164 \\ 151 \\ 146 \\ 151 \\ 143 \\ 141 \\ 143 \\ 141 \\ 144 \\ 145 \\ 162 \\ 164 \\ 151 \\ 146 \\ 151 \\ 143 \\ 141 \\ 144 \\ 145 \\ 162 \\ 164 \\ 151 \\ 146 \\ 151 \\ 143 \\ 141 \\ 145 \\ 162 \\ 164 \\ 151 \\ 146 \\ 151 \\ 143 \\ 141 \\ 145 \\ 164 \\ 151 \\ 144 \\ 145 \\ 144 \\ 145 \\ 164 \\ 151 \\ 144 \\ 145 \\ 164 \\ 151 \\ 144 \\ 145 \\ 164 \\ 151 \\ 144 \\ 145 \\ 144 \\ 145 \\ 144 \\ 145 \\ 164 \\ 151 \\ 144 \\ 145 \\ 164 \\ 151 \\ 144 \\ 145 \\ 144 \\ 145 \\ 164 \\ 151 \\ 144 \\ 145 \\ 164 \\ 151 \\ 144 \\ 145 \\ 164 \\ 151 \\ 145 \\ 164 \\ 151 \\ 145 \\ 164 \\ 151 \\ 144 \\ 145 \\ 164 \\ 151 \\ 145 \\ 164 \\ 151 \\ 145 \\ 164 \\ 151 \\ 145 \\ 164 \\ 151 \\ 145 \\ 164 \\ 151 \\ 145 \\ 164 \\ 151 \\ 145 \\ 164 \\ 151 \\ 145 \\ 164 \\ 151 \\ 145 \\ 164 \\ 151 \\ 145 \\ 164 \\ 151 \\ 145 \\ 164 \\ 151 \\ 164 \\ 151 \\ 164 \\ 151 \\ 151 \\ 164 \\ 151 \\ 164 \\ 151 \\ 164 \\ 151 \\ 164 \\ 151 \\ 164 \\ 151 \\ 164 \\ 151 \\ 164 \\ 151 \\ 164 \\ 151 \\ 164 \\ 151 \\ 164 \\ 151 \\ 164 \\ 151 \\ 151 \\ 164 \\ 151 \\ 164 \\ 151 \\ 164 \\ 151 \\ 164 \\ 151 \\ 164 \\ 151 \\ 164 \\ 151 \\ 164 \\ 151 \\ 164 \\ 164 \\ 164 \\ 151 \\ 164 \\ 151 \\ 164 \\ 164 \\ 151 \\ 164 \\$ \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 111172145156160145056143157155END 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

$\label{eq:linear} $$ 111\172\145\156\160\145\056\143\157\155 $$$

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\002\000 $\label{eq:260} \end{tabular} \end{tabular}$ \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 \002\001\000\311\323\172\312\017\036\254\247\206\350\026\145\152 \261\302\033\105\062\161\225\331\376\020\133\314\257\347\245\171 \001\217\211\303\312\362\125\161\367\167\276\167\224\363\162\244 \054\104\330\236\222\233\024\072\241\347\044\220\012\012\126\216 \305\330\046\224\341\331\110\341\055\076\332\012\162\335\243\231 \025\332\201\242\207\364\173\156\046\167\211\130\255\326\353\014 \262\101\172\163\156\155\333\172\170\101\351\010\210\022\176\207 \056\146\021\143\154\124\373\074\235\162\300\274\056\377\302\267 \335\015\166\343\072\327\367\264\150\276\242\365\343\201\156\301 \271\243\212\230\303\354\073\064\305\225\101\151\176\165\302\074 \040\305\141\272\121\107\240\040\220\223\241\220\113\363\116\174 \205\105\124\232\321\005\046\101\260\265\115\035\063\276\304\003 \310\045\174\301\160\333\073\364\011\055\124\047\110\254\057\341 \304\254\076\310\313\222\114\123\071\067\043\354\323\001\371\340 \011\104\115\115\144\300\341\015\132\207\042\274\255\033\243\376 \046\265\025\363\247\374\204\031\351\354\241\210\264\104\151\204 \203\363\211\321\164\006\251\314\013\326\302\336\047\205\120\046 \312\027\270\311\172\207\126\054\032\001\036\154\276\023\255\020 \254\265\044\365\070\221\241\326\113\332\361\273\322\336\107\265 \361\274\201\366\131\153\317\031\123\351\215\025\313\112\313\251 \006\063\132\242\205\345\220\065\240\142\134\026\116\360\343\242 \372\003\032\264\054\161\263\130\054\336\173\013\333\032\017\353 \336\041\037\006\167\006\003\260\311\357\231\374\300\271\117\013 \206\050\376\322\271\352\343\332\245\303\107\151\022\340\333\360 \366\031\213\355\173\160\327\002\326\355\207\030\050\054\004\044

\114\167\344\110\212\032\306\073\232\324\017\312\372\165\322\001 $\label{eq:100} $$ 100\132\215\171\277\213\317\13\317\252\026\301\225\344\255\114$ \212\076\027\221\324\261\142\345\202\345\200\004\244\003\176\215 \277\332\177\242\017\227\117\014\323\015\373\327\321\345\162\176 \034\310\167\377\133\232\017\267\256\005\106\345\361\250\026\354 \107\244\027\002\003\001\000\001\243\201\366\060\201\363\060\201 \260\006\003\125\035\021\004\201\250\060\201\245\201\017\151\156 $\label{eq:146} $$ 146 157 100 151 172 145 156 160 145 056 143 157 155 244 201 221 $$$ $\label{eq:201216} \\ 060\201\216\061\107\060\105\006\003\125\004\012\014\076\111\132$ \105\116\120\105\040\123\056\101\056\040\055\040\103\111\106\040 \101\060\061\063\063\067\062\066\060\055\122\115\145\162\143\056 $\label{eq:126} \label{eq:126} \lab$ \124\061\060\065\065\040\106\066\062\040\123\070\061\103\060\101 $\label{eq:115} \\ 145 \\ 144 \\ 151 \\ 164 \\ 145 \\ 162 \\ 162 \\ 141 \\ 156 \\ 145 \\ 157 \\ 040 \\ 105 \\ 164 \\ 157 \\ 040 \\ 105 \\ 164 \\ 157 \\ 040 \\ 105 \\ 164 \\ 157 \\ 040 \\ 105 \\ 164 \\ 157 \\ 040 \\ 105 \\ 164 \\ 157 \\ 040 \\ 105 \\ 164 \\ 157 \\ 040 \\ 105 \\ 164 \\ 157 \\ 040 \\ 105 \\ 164 \\ 157 \\ 040 \\ 105 \\ 164 \\ 157 \\ 040 \\ 105 \\ 164 \\ 157 \\ 040 \\ 105 \\ 164 \\ 157 \\ 040 \\ 105 \\ 164 \\ 157 \\ 040 \\ 105 \\ 164 \\ 157 \\ 040 \\ 105 \\ 164 \\ 157 \\ 040 \\ 105 \\ 164 \\ 157 \\ 040 \\ 105 \\ 164 \\ 157 \\ 040 \\ 105 \\ 164 \\ 157 \\ 040 \\ 105 \\ 164 \\ 157 \\ 105 \\$ \162\142\151\144\145\141\040\061\064\040\055\040\060\061\060\061 \172\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\035\034\145 \016\250\362\045\173\264\221\317\344\261\261\346\275\125\164\154 \005\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000 \003\202\002\001\000\170\246\014\026\112\237\114\210\072\300\313 \016\245\026\175\237\271\110\137\030\217\015\142\066\366\315\031 \153\254\253\325\366\221\175\256\161\363\077\263\016\170\205\233 \225\244\047\041\107\102\112\174\110\072\365\105\174\263\014\216 \121\170\254\225\023\336\306\375\175\270\032\220\114\253\222\003 \307\355\102\001\316\017\330\261\372\242\222\341\140\155\256\172 \153\011\252\306\051\356\150\111\147\060\200\044\172\061\026\071 \133\176\361\034\056\335\154\011\255\362\061\301\202\116\271\273 \371\276\277\052\205\077\300\100\243\072\131\374\131\113\074\050 \044\333\264\025\165\256\015\210\272\056\163\300\275\130\207\345 \102\362\353\136\356\036\060\042\231\313\067\321\304\041\154\201 \354\276\155\046\346\034\344\102\040\236\107\260\254\203\131\160 \054\065\326\257\066\064\264\315\073\370\062\250\357\343\170\211 \373\215\105\054\332\234\270\176\100\034\141\347\076\242\222\054 \113\362\315\372\230\266\051\377\363\362\173\251\037\056\240\223 \127\053\336\205\003\371\151\067\313\236\170\152\005\264\305\061 $\label{eq:170} $$ 170 211 354 172 247 205 341 271 173 074 336 276 036 171 204 316 $$$ \237\160\016\131\302\065\056\220\052\061\331\344\105\172\101\244 \056\023\233\064\016\146\173\111\253\144\227\320\106\303\171\235 \162\120\143\246\230\133\006\275\110\155\330\071\203\160\350\065 \360\005\321\252\274\343\333\310\002\352\174\375\202\332\302\133 \122\065\256\230\072\255\272\065\223\043\247\037\110\335\065\106 \230\262\020\150\344\245\061\302\012\130\056\031\201\020\311\120 \165\374\352\132\026\316\021\327\356\357\120\210\055\141\377\077 \102\163\005\224\103\325\216\074\116\001\072\031\245\037\106\116 \167\320\135\345\201\042\041\207\376\224\175\204\330\223\255\326

\150\103\110\262\333\353\163\044\347\221\177\124\244\266\200\076 \235\243\074\114\162\302\127\304\240\324\314\070\047\316\325\006 \236\242\110\331\351\237\316\202\160\066\223\232\073\337\226\041 \343\131\267\014\332\221\067\360\375\131\132\263\231\310\151\154 \103\046\001\065\143\140\125\211\003\072\165\330\272\112\331\124 \377\356\336\200\330\055\321\070\325\136\055\013\230\175\076\154 \333\374\046\210\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 "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 CKA_TOKEN CK_BBOOL CK_TRUE CKA PRIVATE CK BBOOL CK FALSE CKA MODIFIABLE CK BBOOL CK FALSE CKA_LABEL UTF8 "Izenpe.com" CKA CERT SHA1 HASH MULTILINE OCTAL \025\157\351\031 **END** CKA CERT MD5 HASH MULTILINE OCTAL \246\260\315\205\200\332\134\120\064\243\071\220\057\125\147\163 **END** 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 111172145156160145056143157155**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_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 "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 \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 $\label{eq:144} \\ 144 \\ 162 \\ 145 \\ 163 \\ 163 \\ 040 \\ 141 \\ 164 \\ 040 \\ 167 \\ 167 \\ 167 \\ 167 \\ 056 \\ 143 \\ 141 \\ 164 \\ 167 \\$ \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 \070 END CKA ID UTF8 "0" 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 \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

MULTILINE OCTAL \243\332\102\176\244\261\256\332\060\015\006\011\052\206\110\206 \367\015\001\001\005\005\000\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 $\label{eq:2.16} \end{tabular} \end{tabular$ $\label{eq:162145156164040141144144162145163163040141164} \\$ \143\157\155\057\141\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 $\label{eq:1040} \\ 040 \\ 157 \\ 146 \\ 040 \\ 103 \\ 157 \\ 155 \\ 145 \\ 145 \\ 162 \\ 143 \\ 145 \\ 040 \\ 122 \\ 157$ \164\040\055\040\062\060\060\070\060\036\027\015\060\070\060\070 \060\061\061\062\062\071\065\060\132\027\015\063\070\060\067\063 \061\061\062\062\071\065\060\132\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\162\145\156\164\040\141\144\162\145\163\163\040\141 \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\060\202\002\042\060\015\006 $\label{eq:101} \end{tabular} \end{tabular}$ \000\060\202\002\012\002\202\002\001\000\257\000\313\160\067\053 \200\132\112\072\154\170\224\175\243\177\032\037\366\065\325\275 \333\313\015\104\162\076\046\262\220\122\272\143\073\050\130\157 \245\263\155\224\246\363\335\144\014\125\366\366\347\362\042\042 \200\136\341\142\306\266\051\341\201\154\362\277\345\175\062\152 \124\240\062\031\131\376\037\213\327\075\140\206\205\044\157\343 \021\263\167\076\040\226\065\041\153\263\010\331\160\056\144\367 \204\222\123\326\016\260\220\212\212\343\207\215\006\323\275\220 \016\342\231\241\033\206\016\332\232\012\273\013\141\120\006\122 \361\236\177\166\354\313\017\320\036\015\317\231\060\075\034\304

CKA VALUE

END

END CKA SERIAL NUMBER MULTILINE OCTAL \002\011\000\243\332\102\176\244\261\256\332

\070

\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

\105\020\130\254\326\323\350\327\345\352\305\001\007\167\326\121 \346\003\177\212\110\245\115\150\165\271\351\274\236\116\031\161 \365\062\113\234\155\140\031\013\373\314\235\165\334\277\046\315 \217\223\170\071\171\163\136\045\016\312\134\353\167\022\007\313 \144\101\107\162\223\253\120\303\353\011\166\144\064\322\071\267 \166\021\011\015\166\105\304\251\256\075\152\257\265\175\145\057 \224\130\020\354\134\174\257\176\342\266\030\331\320\233\116\132 $\label{eq:111} 337 251 146 013 314 074 306 170 174 247 234 035 343 316 216$ \301\361\353\007\234\122\033\001\104\121\074\173\045\327\304\345 \122\124\135\045\007\312\026\040\270\255\344\101\356\172\010\376 \231\157\203\246\221\002\260\154\066\125\152\347\175\365\226\346 \312\201\326\227\361\224\203\351\355\260\261\153\022\151\036\254 \373\135\251\305\230\351\264\133\130\172\276\075\242\104\072\143 \131\324\013\045\336\033\117\275\345\001\236\315\322\051\325\237 \027\031\012\157\277\014\220\323\011\137\331\343\212\065\314\171 \132\115\031\067\222\267\304\301\255\257\364\171\044\232\262\001 \013\261\257\134\226\363\200\062\373\134\075\230\361\240\077\112 \336\276\257\224\056\331\125\232\027\156\140\235\143\154\270\143 \311\256\201\134\030\065\340\220\273\276\074\117\067\042\271\176 \353\317\236\167\041\246\075\070\201\373\110\332\061\075\053\343 \211\365\320\265\275\176\340\120\304\022\211\263\043\232\020\061 \205\333\256\157\357\070\063\030\166\021\002\003\001\000\001\243 \202\001\154\060\202\001\150\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\371\044\254\017\262\265\370\171\300\372 \140\210\033\304\331\115\002\236\027\031\060\201\343\006\003\125 \035\043\004\201\333\060\201\330\200\024\371\044\254\017\262\265 \370\171\300\372\140\210\033\304\331\115\002\236\027\031\241\201 \264\244\201\261\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 \156\164\040\141\144\162\145\163\163\040\141\164\040\167\167 \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 $\label{eq:125} 004 003 023 040 103 150 141 155 142 145 162 163 040 157 146$ \040\103\157\155\155\145\162\143\145\040\122\157\157\164\040\055 \040\062\060\060\070\202\011\000\243\332\102\176\244\261\256\332 \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\220\022\257\042\065\302\243\071\360\056\336\351\265

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 "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 $\label{eq:155} 145 162 146 151 162 155 141 056 143 157 155 057 141 144 144$ \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 $\label{eq:243} $$ 002\011\000\243\332\102\176\244\261\256\332 $$$ **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

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 $\label{eq:2} \end{tabular} \$

END

\002\011\000\311\315\323\351\325\175\043\316

CKA_SERIAL_NUMBER MULTILINE OCTAL

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 \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

UTF8 "0"

CKA_ID

END

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 $\label{eq:144} \\ 144 \\ 162 \\ 145 \\ 163 \\ 163 \\ 040 \\ 141 \\ 164 \\ 040 \\ 167 \\ 167 \\ 167 \\ 167 \\ 056 \\ 143 \\ 141 \\ 164 \\ 167 \\$ $\label{eq:155} 145 162 146 151 162 155 141 056 143 157 155 057 141 144 144$ \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 $\label{eq:103} \end{tabular} \end{tabular}$ \151\147\156\040\122\157\157\164\040\055\040\062\060\060\070

CKA MODIFIABLE CK BBOOL CK FALSE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA TOKEN CK BBOOL CK TRUE

CKA CLASS CK OBJECT CLASS CKO CERTIFICATE

Fingerprint (SHA1): 4A:BD:EE:EC:95:0D:35:9C:89:AE:C7:52:A1:2C:5B:29:F6:D6:AA:0C

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

\040\167\167\167\056\143\141\155\145\162\146\151\162\155\141\056 \143\157\155\057\141\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 $\label{eq:115} $$ 072\115\141\144\162\151\144\040\050\163\145\145\040\143\165\162\$ \162\145\156\164\040\141\144\162\145\163\163\040\141\164\040 \003\125\004\005\023\011\101\070\062\067\064\063\062\070\067\061 \033\060\031\006\003\125\004\012\023\022\101\103\040\103\141\155 \145\162\146\151\162\155\141\040\123\056\101\056\061\047\060\045 \006\003\125\004\003\023\036\107\154\157\142\141\154\040\103\150 $\label{eq:141} $$ 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 \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 \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 $\label{eq:2.15} \end{tabular} \end{tabular$ \144\040\050\163\145\145\040\143\165\162\162\145\156\164\040\141 $\label{eq:144} \\ 144 \\ 162 \\ 145 \\ 163 \\ 163 \\ 040 \\ 141 \\ 164 \\ 040 \\ 167 \\ 167 \\ 167 \\ 167 \\ 056 \\ 143 \\ 141 \\ 164 \\ 167 \\$ \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 \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\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 $\label{eq:244} $$ 027 $$ 012 $$ 012 $$ 177 $$ 354 $$ 165 $$ 236 $$ 313 $$ 241 $$ 37 $$ 361 $$ 027 $$ 241 $$ 037 $$ 361 $$ 012 $$ 011$ \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 \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 $\label{eq:211} 174 262 124 166 210 256 336 301 363 314 341 156 333 061 326$ \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 $\label{eq:1043} \\ 043 \\ 167 \\ 330 \\ 106 \\ 113 \\ 171 \\ 155 \\ 366 \\ 214 \\ 355 \\ 072 \\ 177 \\ 140 \\ 021 \\ 170 \\ 364 \\ 170 \\ 364 \\ 170 \\ 140 \\ 170 \\ 140 \\ 100 \\ 110 \\ 170 \\ 140 \\ 100 \\ 110 \\ 100$ \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_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA_NSS_EMAIL_DISTRUST_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

 $\label{eq:112} $$ 1225356354225015065234211256307122241054133051 $$ 1122241054133051 $$ 122241054133051 $$ 122241054133051 $$ 1222241054133055 $$ 12222410555 $$ 122225055 $$ 12222555 $$ 12222555$ $$ 12222555$ $$ 12222555$ $$ 12222555$ $$ 1222255$ $$ 1222255$ $$ 122255$ $$ 122255$ $$ 122255$ $$ 122255$ $$ 12225$ $$ 1225$ $$ 12255$ $$$

\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

 $\label{eq:101} \end{tabular} \end{tabular}$

\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

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

 $\label{eq:linear} $$ 164\163\144\141\154\145\061\032\060\030\006\003\125\004\012 $$$

 $\label{eq:23} \end{tabular} \end{tabular}$

\156\143\056\061\061\060\057\006\003\125\004\003\023\050\107\157

 $\label{eq:104} \end{tabular} \end{tabular}$

171040055040107062

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 $\label{eq:141} $$ 141\061\023\060\021\006\003\125\004\007\023\012\123\143\157\164$ \164\163\144\141\154\145\061\032\060\030\006\003\125\004\012\023 \143\056\061\061\060\057\006\003\125\004\003\023\050\107\157\040 $\label{eq:104} $$ 104\141\144\144\171\040\122\157\157\164\040\103\145\162\164\151\$ $\label{eq:146} \\ 146 \\ 151 \\ 143 \\ 141 \\ 164 \\ 145 \\ 040 \\ 101 \\ 165 \\ 164 \\ 150 \\ 157 \\ 162 \\ 151 \\ 164 \\ 171 \\ 164 \\$ \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 $\label{eq:2.157} \\ 003 \\ 023 \\ 050 \\ 107 \\ 157 \\ 040 \\ 104 \\ 141 \\ 144 \\ 144 \\ 171 \\ 040 \\ 122 \\ 157 \\ 157 \\ 164$ \040\103\145\162\164\151\146\151\143\141\164\145\040\101\165\164 \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

\002\001\000 END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

\171\040\055\040\107\062 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\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

END

CKA ID UTF8 "0"

\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 $\label{eq:135} 174 310 174 373 260 053 123 244 222 142 151 121 045 005 141$ \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 \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 $\label{eq:207} $$ 207 $$ 264 $$ 67 $$ 246 $$ 234 $$ 274 $$ 330 $$ 51 $$ 057 $$ 320 $$ 333 $$ 132 $$ 356 $$ 317 $$ 164 $$ 214 $$ 214 $$ 164 $$ 214 $$ 214 $$ 164 $$ 214 $$ \163\264\070\102\332\005\173\370\002\165\270\375\245\261\327\256 \366\327\336\023\313\123\020\176\212\106\321\227\372\267\056\053 \021\253\220\260\047\200\371\350\237\132\351\067\237\253\344\337 \154\263\205\027\235\075\331\044\117\171\221\065\326\137\004\353 \200\203\253\232\002\055\265\020\364\330\220\307\004\163\100\355 $\label{eq:240} $$ 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 \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_DISTRUST_AFTER CK_BBOOL CK_FALSE

CKA_NSS_EMAIL_DISTRUST_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
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 $\label{eq:107} $$ 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\163\144\141\154\145\061\032\060\030\006\003\125\004\012 $\label{eq:23} \\ 023 \\ 021 \\ 107 \\ 157 \\ 104 \\ 141 \\ 144 \\ 144 \\ 171 \\ 056 \\ 143 \\ 157 \\ 155 \\ 054 \\ 040 \\ 1111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\$ \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 171040055040107062**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

002 001 000

MULTILINE_OCTAL

CKA_SERIAL_NUMBER

END

\107\062

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

CKA_ID UTF8 "0"

END

\107\062

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

CKA_LABEL UTF8 "Starfield Root Certificate Authority - G2" CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_TOKEN CK_BBOOL CK_TRUE

CK_OBJECT_CLASS CKO_CERTIFICATE

\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\163\144\141\154\145\061\045\060\043\006\003\125\004 \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 \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 $\label{eq:144} $$ 144\067\171\222\300\354\106\136\177\341\155\123\114\142\257\315\$ \037\013\143\273\072\235\373\374\171\000\230\141\164\317\046\202 $\label{eq:100} $$ 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 $\label{eq:171121116} $$ 15\20\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 DISTRUST AFTER CK BBOOL CK FALSE CKA_NSS_EMAIL_DISTRUST_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 324347017016END 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\163\144\141\154\145\061\045\060\043\006\003\125\004\012 $\label{eq:22} \end{tabular} \end{tabular}$ $\label{eq: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 $\label{eq:154} $$ 154\144\040\122\157\157\164\040\103\145\162\164\151\146\151\143$ \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

\150\157\162\151\164\171\040\055\040\107\062

END

CKA_ID

UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

\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 $\label{eq:206} \end{tabular} \end{tabular}$ \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 $\label{eq:2.146} \\ (034) \\ 123) \\ 164) \\ 141) \\ 162) \\ 146) \\ 151) \\ 145) \\ 154) \\ 144) \\ 040) \\ 124) \\ 145) \\ 143) \\ 150) \\ 156$ \071\006\003\125\004\003\023\062\123\164\141\162\146\151\145\154 $\label{eq:103} \\ 145 \\ 162 \\ 164 \\ 151 \\ 146 \\ 151 \\ 143 \\ 141 \\ 164 \\ 145 \\ 040 \\ 101 \\ 165 \\ 164 \\ 150 \\ 164 \\ 150 \\ 164 \\ 150 \\ 164 \\ 150 \\ 164 \\ 150 \\ 164 \\ 150 \\ 164 \\ 150 \\ 164 \\$ \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 $\label{eq:125} $$ 125\004\010\023\007\101\162\151\172\157\156\141\061\023\060\021 $$$ \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 $\label{eq:146} \label{151} 145 \label{151} 144 \label{151} 145 \label{151} 143 \label{150} 156 \label{157} 154 \label{151} 147 \label{151} 151 \label{151} 145 \label{151} 156 \label{151} 1$ \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 $\label{eq:2.1} \end{tabular} \end{tabular}$ \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 $\label{eq: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 $\label{eq:157} $$ 157\016\141\311\375\204\334\137\330\066\201\315\330\033\101\055\$ \237\140\335\307\032\150\331\321\156\206\341\210\043\317\023\336 \103\317\342\064\263\004\235\037\051\325\277\370\136\310\325\301 \275\356\222\157\062\164\362\221\202\057\275\202\102\172\255\052 \267\040\175\115\274\172\125\022\302\025\352\275\367\152\225\056 \154\164\237\317\034\264\362\305\001\243\205\320\162\076\255\163 \253\013\233\165\014\155\105\267\216\224\254\226\067\265\240\320 \217\025\107\016\343\350\203\335\217\375\357\101\001\167\314\047 \251\142\205\063\362\067\010\357\161\317\167\006\336\310\031\035 \210\100\317\175\106\035\377\036\307\341\316\377\043\333\306\372 \215\125\116\251\002\347\107\021\106\076\364\375\275\173\051\046 \273\251\141\142\067\050\266\055\052\366\020\206\144\311\160\247 \322\255\267\051\160\171\352\074\332\143\045\237\375\150\267\060 \354\160\373\165\212\267\155\140\147\262\036\310\271\351\330\250 $\label{eq:157} $$ 157\02\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\163\144\141\154\145\061\045\060\043\006\003\125\004\012 $\label{eq:2} \end{tabular} \$ \060\071\006\003\125\004\003\023\062\123\164\141\162\146\151\145 $\label{eq:103} \\ 145 \\ 162 \\ 164 \\ 151 \\ 146 \\ 151 \\ 143 \\ 141 \\ 164 \\ 145 \\ 040 \\ 101 \\ 165 \\ 164 \\ 165 \\ 165 \\ 164 \\ 165 \\ 100 \\ 100 \\ 101 \\ 165 \\ 165 \\ 165 \\ 165 \\ 165 \\ 165 \\ 165 \\ 165 \\ 165 \\ 165 \\ 165 \\ 165 \\ 165 \\ 165 \\ 165 \\ 100 \\$ \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

 $\label{eq:2.106} \end{tabular} \end{tabula$

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 $\label{eq:101146146151162155124162165163164061037060035006} \\$ \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 \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 \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

END

\002\010\167\167\006\047\046\251\261\174

CKA_SERIAL_NUMBER MULTILINE_OCTAL

END

\145\162\143\151\141\154

\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

CKA ISSUER MULTILINE OCTAL

UTF8 "0"

CKA ID

END

145 162 143 151 141 154

\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\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 $\label{eq:275} $$ $$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 $\label{eq:2.1} \end{tabular} \end{tabular}$ 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 "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

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

 $\label{eq:251} $$ 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):

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

 $\label{eq:101146146151162155124162165163164040116145164167} \label{eq:101146146151162155124162165163164040116145164167}$

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 \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\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 $\label{eq: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 $\label{eq:223} $$ 123\053\34\273\166\076\223\114\010\010\214\036\242\043\034\324\$ \152\255\042\272\231\001\056\155\145\313\276\044\146\125\044\113 \100\104\261\033\327\341\302\205\300\336\020\077\075\355\270\374 $\label{eq:361} 361 \\ 043 \\ 123 \\ 334 \\ 277 \\ 145 \\ 227 \\ 157 \\ 331 \\ 371 \\ 100 \\ 161 \\ 215 \\ 175 \\ 275 \\ 275 \\ 100 \\ 161 \\ 215 \\ 175 \\ 275 \\ 100 \\ 100 \\ 101 \\ 215 \\ 175 \\ 275 \\ 100 \\ 1$ \225\324\316\276\240\136\047\043\336\375\246\320\046\016\000\051 \353\074\106\360\075\140\277\077\120\322\334\046\101\121\236\024 \067\102\004\243\160\127\250\033\207\355\055\372\173\356\214\012 \343\251\146\211\031\313\101\371\335\104\066\141\317\342\167\106 \310\175\366\364\222\201\066\375\333\064\361\162\176\363\014\026 \275\264\025\002\003\001\000\001\243\102\060\100\060\035\006\003 $\label{eq:24} $$ 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\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

\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_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA_NSS_EMAIL_DISTRUST_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 \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 $\label{eq:101146146151162155124162165163164040116145164167} \label{eq:101146146151162155124162165163164040116145164167}$ \157\162\153\151\156\147 **END** CKA_SERIAL_NUMBER MULTILINE_OCTAL 002010174117004071034324231055

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

 $\label{eq:101146146151162155124162165163164040120162145155} \label{eq:101146146151162155124162165163164040120162145155}$

\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 $\label{eq:101146146151162155124162165163164040120162145155} \label{eq:101146146151162155124162165163164040120162145155}$

\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 \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 $\label{eq:251} $$ $$ 251 137 376 101 335 335 365 237 212 343 366 254 341 074 170 232 $$$ \274\330\360\177\172\240\063\052\334\215\040\133\256\055\157\347 \223\331\066\160\152\150\317\216\121\243\205\133\147\004\240\020 $\label{eq:221} \end{tabular} \end{tabular}$ \115\337\205\014\123\030\232\036\044\242\117\217\360\242\205\013 \313\364\051\177\322\244\130\356\046\115\311\252\250\173\232\331 \372\070\336\104\127\025\345\370\214\310\331\110\342\015\026\047 \035\036\310\203\205\045\267\272\252\125\101\314\003\042\113\055 \221\215\213\346\211\257\146\307\351\377\053\351\074\254\332\322 \263\303\341\150\234\211\370\172\000\126\336\364\125\225\154\373 \272\144\335\142\213\337\013\167\062\353\142\314\046\232\233\273 \252\142\203\114\264\006\172\060\310\051\277\355\006\115\227\271 \034\304\061\053\325\137\274\123\022\027\234\231\127\051\146\167 \141\041\061\007\056\045\111\235\030\362\356\363\053\161\214\265 \272\071\007\111\167\374\357\056\222\220\005\215\055\057\167\173 \357\103\277\065\273\232\330\371\163\247\054\362\320\127\356\050 \116\046\137\217\220\150\011\057\270\370\334\006\351\056\232\076 $\label{eq:121} $$ 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 \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 \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 $\label{eq:230} \end{tabular} \end{tabular}$ \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 \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_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA_NSS_EMAIL_DISTRUST_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 END 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 $\label{eq:101146146151162155124162165163164040120162145155} \label{eq:101146146151162155124162165163164040120162145155}$ \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

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 $\label{eq:2.101} \\ (003) \\ 014 \\ (027) \\ 101 \\ 146 \\ 146 \\ 151 \\ 162 \\ 155 \\ 124 \\ 162 \\ 165 \\ 163 \\ 164 \\ 040 \\ 120 \\$ \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 \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 $\label{eq:21} $$ 14\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\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

END

MULTILINE_OCTAL \002\010\164\227\045\212\307\077\172\124

CKA_SERIAL_NUMBER

END

 $151\165\155\040\105\103\103$

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

CKA_ID UTF8 "0"

END

\151\165\155\040\105\103\103

\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

\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_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA NSS EMAIL DISTRUST 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 \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 $\label{eq:101146146151162155124162165163164040120162145155} \label{eq:101146146151162155124162165163164040120162145155}$ \151\165\155\040\105\103\103 END CKA_SERIAL_NUMBER MULTILINE_OCTAL 002 010 164 227 045 212 307 077 172 124END 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):

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

END

CKA_ID

UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

END

CKA_SERIAL_NUMBER

MULTILINE_OCTAL

\002\003\004\104\300

END

CKA_VALUE MULTILINE_OCTAL

\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 \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 \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 $\label{eq:150} $$ 150\324\043\206\131\047\317\011\047\274\254\156\162\203\034\060 $$$ \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 \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 \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\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\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_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA_NSS_EMAIL_DISTRUST_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):

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

 $\label{eq:2.1} \end{tabular} \end{tabular}$

\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

END

CKA_ISSUER MULTILINE_OCTAL

```
\label{eq:starter} $$ $ 1060 176 061 013 060 011 006 003 125 004 006 023 002 120 114 061 042 060 040 006 003 125 004 012 023 031 125 156 151 172 145 164 157 040 124 145 143 150 156 157 154 157 147 151 145 163 040 123 056 101 056 061 047 060 045 006 003 125 004 013 023 036 103 145 162 164 165 155 040 103 145 162 164 151 146 151 143 141 164 151 157 156 040 101 165 164 150 157 162 151 164 171 061 042 060 040 006 003 125 004 003 023 031 103 145 162 164 165 155 040 124 162 165 163 164 145 144 040 116 145 164 167 157 162 153 040 103 101 END $$
```

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

\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

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL \002\001\001

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 \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 $\label{eq:151} $$ 151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164$ \171\060\202\001\042\060\015\006\011\052\206\110\206\367\015\001 \001\001\005\000\003\202\001\017\000\060\202\001\012\002\202\001 \001\000\260\176\162\270\244\003\224\346\247\336\011\070\221\112 \021\100\207\247\174\131\144\024\173\265\021\020\335\376\277\325 $\label{eq:273} $$ 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 \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 $\label{eq:227} $$ $$ 227 $$ 243 $$ 10 $$ 035 $$ 067 $$ 034 $$ 134 $$ 17 $$ 340 $$ 166 $$ 045 $$ 232 $$ 120 $$ 370 $$ 240 $$ 124 $$ 126 $$$ 126 $$ 126 $$ 126 $$ 126 $$ 126 $$ 126 $$ 126 $$ 1$ \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\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

END

\036\247\011\151\126\102\323\150\121\030\276\124\232\277\104\101 $\label{eq:272} $$ 272 111 276 040 272 151 134 356 270 167 315 316 154 037 255 203 $$$ \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 $\label{eq:152} $$ 12\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 \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 \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

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

 $\label{eq:local_$

\164\141\162\061\032\060\030\006\003\125\004\003\023\021\104\151

 $\label{eq:147} $$ 147\151\16\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

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

END

CKA VALUE MULTILINE OCTAL \060\202\005\212\060\202\003\162\240\003\002\001\002\002\020\017 \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 $\label{eq:20} \end{tabular} \end{tabular}$ \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 $\label{eq:146} $$ 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 $\label{eq:20} \end{tabular} \end{tabular}$ \141\162\061\032\060\030\006\003\125\004\003\023\021\104\151\147 \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 $\label{eq:2.1} \end{tabular} $$ \007\147\217\211\13\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\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 \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 $\label{eq:174} $$ 174\237\150\035\273\135\316\172\071\302\214\326\230\173\305\203$ $\label{eq:250} $$ 125 250 325 175 100 312 340 036 367 211 136 143 135 241 023 302 $$$ \135\212\266\212\174\000\363\043\303\355\205\137\161\166\360\150 $\label{eq:143} $$ 143 252 105 041 071 10141 170 066 334 361 103 223 324 045 307 $$$ \362\200\145\341\123\002\165\121\374\172\072\357\067\253\204\050 $\label{eq:127} $$ 127\014\30\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 $\label{eq:157} $$ 157\174\051\015\304\216\212\162\015\347\123\024\262\140\101\075\$ \204\221\061\150\075\047\104\333\345\336\364\372\143\105\310\114 \076\230\365\077\101\272\116\313\067\015\272\146\230\361\335\313 \237\134\367\124\066\202\153\054\274\023\141\227\102\370\170\273 \314\310\242\237\312\360\150\275\153\035\262\337\215\157\007\235 \332\216\147\307\107\036\312\271\277\052\102\221\267\143\123\146 \361\102\243\341\364\132\115\130\153\265\344\244\063\255\134\160 \035\334\340\362\353\163\024\221\232\003\301\352\000\145\274\007 \374\317\022\021\042\054\256\240\275\072\340\242\052\330\131\351 \051\323\030\065\244\254\021\137\031\265\265\033\377\042\112\134 \306\172\344\027\357\040\251\247\364\077\255\212\247\232\004\045 \235\016\312\067\346\120\375\214\102\051\004\232\354\271\317\113 \162\275\342\010\066\257\043\057\142\345\312\001\323\160\333\174 \202\043\054\026\061\014\306\066\007\220\172\261\037\147\130\304 \073\130\131\211\260\214\214\120\263\330\206\313\150\243\304\012 \347\151\113\040\316\301\036\126\113\225\251\043\150\330\060\330 \303\353\260\125\121\315\345\375\053\270\365\273\021\237\123\124 \366\064\031\214\171\011\066\312\141\027\045\027\013\202\230\163 $\label{eq:1014} $$ 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

#

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 \040\060\036\006\011\052\206\110\206\367\015\001\011\001\026\021 \154 **END** CKA_SERIAL_NUMBER MULTILINE_OCTAL \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_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 $\label{eq:141} $$ 141\164\151\157\156\040\122\157\157\164\103\101\062\060\202\001 $$ \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

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 $\label{eq:124} $$ 163\164\040\123\171\163\164\145\155\163\040\103\117$ \056\054\114\124\104\056\061\047\060\045\006\003\125\004\013\023 \036\123\145\143\165\162\151\164\171\040\103\157\155\155\165\156 $\label{eq:151} $$ 151\143\141\164\151\157\156\040\122\157\157\164\103\101\062 $$ **END**

CKA_SERIAL_NUMBER MULTILINE_OCTAL

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 $\label{eq:124} $$ 163\164\040\123\171\163\164\145\155\163\040\103\117$ \056\054\114\124\104\056\061\047\060\045\006\003\125\004\013\023 \036\123\145\143\165\162\151\164\171\040\103\157\155\155\165\156 $\label{eq:151} $$ 151\143\141\164\151\157\156\040\122\157\157\164\103\101\062 $$ **END**

CKA PRIVATE CK BBOOL CK FALSE CKA_MODIFIABLE CK_BBOOL CK_FALSE CKA_LABEL UTF8 "Security Communication RootCA2" CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE

CKA CLASS CK OBJECT CLASS CKO CERTIFICATE

CKA TOKEN CK BBOOL CK TRUE

CKC X 509

\002\001\000

\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 $\label{eq:176} $$ 176\014\253\073\304\025\276\072\126\246\132\157\166\151\122\251\$ \172\271\310\353\152\232\135\122\320\055\012\153\065\026\011\020 $\label{eq:204} $$ 204\320\152\312\072\006\000\067\107\344\176\127\117\077\213\353 $$$ \147\270\210\252\305\276\123\125\262\221\304\175\271\260\205\031 \006\170\056\333\141\032\372\205\365\112\221\241\347\026\325\216 \242\071\337\224\270\160\037\050\077\213\374\100\136\143\203\074 \203\052\032\231\153\317\336\131\152\073\374\157\026\327\037\375 \112\020\353\116\202\026\072\254\047\014\123\361\255\325\044\260 \153\003\120\301\055\074\026\335\104\064\047\032\165\373\002\003 \001\000\001\243\102\060\100\060\035\006\003\125\035\016\004\026 \004\024\012\205\251\167\145\005\230\174\100\201\370\017\227\054 \070\361\012\354\074\317\060\016\006\003\125\035\017\001\001\377 \004\003\002\001\006\060\017\006\003\125\035\023\001\001\377 \004\005\060\003\001\001\377\060\015\006\011\052\206\110\206\367 \015\001\001\013\005\000\003\202\001\001\000\114\072\243\104\254 \271\105\261\307\223\176\310\013\012\102\337\144\352\034\356\131 \154\010\272\211\137\152\312\112\225\236\172\217\007\305\332\105 $\label{eq:202} $$ 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 \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 $\label{eq:20} $$ 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_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA_NSS_EMAIL_DISTRUST_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

 $\label{eq:137} $$ 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 #

CKA_SERIAL_NUMBER MULTILINE_OCTAL \002\020\356\053\075\353\324\041\336\024\250\142\254\004\363\335

\105\103\055\101\103\103 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 \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 \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 \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 \154\141\156\145\163\061\017\060\015\006\003\125\004\003\023\006 \105\103\055\101\103\103

\105\103\055\101\103\103 END CKA_ID UTF8 "0"

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 \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 $\label{eq:120} \\ 120\\165\\142\\154\\151\\143\\163\\040\\144\\145\\040\\103\\145\\162\\164\\151$ \146\151\143\141\143\151\157\061\065\060\063\006\003\125\004\013 $\label{eq:22} \end{tabular} \end{tabular}$ \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 $\label{eq:145} $$ 162\164\151\146\151\143\141\143\151\157\040\103\141\164\141\144\141\144\141\144\141\164\141\164\141\164\141\164\141\164\141\164\141\164\141\164\141\164\141\164\141\164\141\144\141\144\141\144\141\144\141\144\141\144\141\144\141\144\141\144\141\144\14$ \154\141\156\145\163\061\017\060\015\006\003\125\004\003\023\006

CKA_LABEL UTF8 "EC-ACC" CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_TOKEN CK_BBOOL CK_TRUE

CKA CLASS CK OBJECT CLASS CKO CERTIFICATE

Fingerprint (SHA1): 28:90:3A:63:5B:52:80:FA:E6:77:4C:0B:6D:A7:D6:BA:A6:4A:F2:E8

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 $\label{eq:103} \\ 141 \\ 164 \\ 141 \\ 154 \\ 141 \\ 156 \\ 141 \\ 040 \\ 144 \\ 145 \\ 040 \\ 103 \\ 145 \\ 162 \\$ \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 \143\141\143\151\157\061\065\060\063\006\003\125\004\013\023\054 $\label{eq:126} \\ 126 \\ 145 \\ 147 \\ 145 \\ 165 \\ 040 \\ 150 \\ 164 \\ 164 \\ 160 \\ 163 \\ 072 \\ 057 \\ 057 \\ 167 \\$ \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 $\label{eq:164} \\ 164 \\ 151 \\ 146 \\ 151 \\ 143 \\ 141 \\ 143 \\ 151 \\ 157 \\ 040 \\ 103 \\ 141 \\ 164 \\ 141 \\ 154 \\ 154 \\$ \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\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 $\label{eq:147} $$ 143 151 141 040 103 141 164 141 154 141 156 141 040 $$$ $\label{eq:144} $$ 040 103 145 162 164 151 146 151 143 141 143 151 157 040 $$$ \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 $\label{eq:103141164141154141156145163061017060015006003125} \label{eq:103141164141154141156145163061017060015006003125}$ \004\003\023\006\105\103\055\101\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 $\label{eq:117} $$ 117\007\364\247\011\140\332\072\102\231\307\262\177\263\026\225 $$$

\304\001 END

\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 $\label{eq:201} \end{tabular} 143\100\143\141\164\143\145\162$ \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 \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 \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 $\label{eq:2.16} \end{tabular} \end{tabular$ \141\162\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 \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 \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 $\label{eq:20} \end{tabular} $$ \050\220\072\143\133\122\200\372\346\167\114\013\155\247\326\272 $$$ \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 $\label{eq:151} $$ 151\141\040\103\141\164\141\154\141\156\141\040\144\145\040\103 $$$ \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 \146\151\143\141\143\151\157\061\065\060\063\006\003\125\004\013 $\label{eq:23} 054 126 145 147 145 165 040 150 164 164 160 163 072 057 057$ $\label{eq:167} $$ 167 167 056 143 141 164 143 145 162 164 056 156 145 164 057 $$$ $\label{eq:166} \end{tabular} 166 \end{tabular} 162 \end{tabular}$ \060\063\006\003\125\004\013\023\054\112\145\162\141\162\161\165 \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 $\label{eq:202} \end{tabular} \end{tabular}$ \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 $\label{eq:141} $$ 141\164\151\157\156\040\122\157\157\164\040\103\101\$ END CKA ID UTF8 "0" CKA_ISSUER MULTILINE_OCTAL \060\153\061\013\060\011\006\003\125\004\006\023\002\111\124\061 \016\060\014\006\003\125\004\007\014\005\115\151\154\141\156\061 \163\040\123\056\160\056\101\056\057\060\063\063\065\070\065\062 \060\071\066\067\061\047\060\045\006\003\125\004\003\014\036\101 $\label{eq:143} \\ 143 \\ 164 \\ 141 \\ 154 \\ 151 \\ 163 \\ 040 \\ 101 \\ 165 \\ 164 \\ 150 \\ 145 \\ 156 \\ 164 \\ 151 \\ 143 \\ 143 \\ 143 \\ 145 \\ 156 \\ 164 \\ 151 \\ 143 \\ 143 \\ 143 \\ 145 \\ 156 \\ 164 \\ 151 \\ 143 \\ 143 \\ 143 \\ 145 \\ 156 \\ 164 \\ 151 \\ 143 \\ 143 \\ 143 \\ 145 \\ 156 \\ 164 \\ 151 \\ 143 \\$ $\label{eq:141} $$ 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 \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 $\label{eq:125} 004 003 014 036 101 143 164 141 154 151 163 040 101 165 164$ \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 $\label{eq:111124} \\ 124 \\ 061 \\ 016 \\ 060 \\ 014 \\ 006 \\ 003 \\ 125 \\ 004 \\ 007 \\ 014 \\ 005 \\ 115 \\ 151 \\ 154 \\ 15$ \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 \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 \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 $\label{eq:242} \\ 007 \\ 372 \\ 145 \\ 201 \\ 262 \\ 242 \\ 071 \\ 317 \\ 367 \\ 074 \\ 377 \\ 030 \\ 373 \\ 306 \\ 361 \\ 132 \\$ \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\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 $\label{eq:173} $$ 162\207\300\140\246\111\14\210\130\346\035\210\367\024\144\$ \110\246\330\130\012\016\117\023\065\337\065\035\324\355\006\061 \310\201\076\152\325\335\073\032\062\356\220\075\021\322\056\364 \216\303\143\056\043\146\260\147\276\157\266\300\023\071\140\252 \242\064\045\223\165\122\336\247\235\255\016\207\211\122\161\152 \026\074\031\035\203\370\232\051\145\276\364\077\232\331\360\363 $\label{eq:207} $$ 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 \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 $\label{eq:144} $$ 1144 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_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

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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 $\label{eq:141} $$ 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"

END CKA VALUE MULTILINE OCTAL \060\202\005\131\060\202\003\101\240\003\002\001\002\002\001\002 \060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\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 $\label{eq:103} \\ 103 \\ 154 \\ 141 \\ 163 \\ 163 \\ 040 \\ 062 \\ 040 \\ 122 \\ 157 \\ 157 \\ 164 \\ 040 \\ 103 \\ 101 \\ 060 \\ 104 \\$ \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

\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

\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

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

CKA_MODIFIABLE CK_BBOOL CK_FALSE CKA_LABEL UTF8 "Buypass Class 2 Root CA"

CKA_TOKEN CK_BBOOL CK_TRUE

CKA PRIVATE CK BBOOL CK FALSE

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

Fingerprint (SHA1): 49:0A:75:74:DE:87:0A:47:FE:58:EE:F6:C7:6B:EB:C6:0B:12:40:99

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 (SHA-256):

MULTILINE OCTAL

\002\001\002

Fri Oct 26 08:38:03 2040

Not Valid After :

Not Valid Before: Tue Oct 26 08:38:03 2010

Subject: CN=Buypass Class 2 Root CA,O=Buypass AS-983163327,C=NO

Serial Number: 2 (0x2)

Issuer: CN=Buypass Class 2 Root CA,O=Buypass AS-983163327,C=NO

\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 \067\111\265\345\317\014\174\356\361\112\273\163\060\145\363\325 \057\203\266\176\343\347\365\236\253\140\371\323\361\235\222\164 \212\344\034\226\254\133\200\351\265\364\061\207\243\121\374\307 \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 $\label{eq:224} \end{tabular} \label{eq:224} \end{tabular} \label{eq:224} \end{tabular} \label{eq:224} \end{tabular} \label{eq:224} \end{tabular} \label{eq:224} \end{tabular} \end{tabular} \end{tabular} \label{eq:224} \end{tabular} \end{ta$ \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 \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 $\label{eq:104} $$ 12\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 \025\030\147\006\112\177\325\154\265\115\263\063\340\141\353\135 \276\351\230\017\062\327\035\113\074\056\132\001\122\221\011\362 \337\352\215\330\006\100\143\252\021\344\376\303\067\236\024\122 \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 \365\041\275\164\252\115\352\162\003\111\333\307\137\035\142\143 \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\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 $\label{eq:203} 307 \\ 266 \\ 214 \\ 071 \\ 226 \\ 260 \\ 077 \\ 226 \\ 201 \\ 101 \\ 157 \\ 140 \\ 220 \\ 342 \\ 350 \\ 101 \\ 157 \\ 140 \\ 220 \\ 342 \\ 350 \\ 101 \\ 157 \\ 140 \\ 220 \\ 342 \\ 350 \\ 101 \\ 1$ \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 $\label{eq:254} $$ $$ 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 $\label{eq:111176142170160376251152140266035016171014375312} \\$ \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 \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 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 "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 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 $\label{eq:103} \\ 103 \\ 154 \\ 141 \\ 163 \\ 163 \\ 040 \\ 062 \\ 040 \\ 122 \\ 157 \\ 157 \\ 164 \\ 040 \\ 103 \\ 101 \\$ 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 # 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 VALUE MULTILINE OCTAL \060\202\005\131\060\202\003\101\240\003\002\001\002\002\001\002 \060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\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 \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 \005\000\003\202\002\017\000\060\202\002\012\002\202\002\001\000 \245\332\012\225\026\120\343\225\362\136\235\166\061\006\062\172 \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

\002\001\002

CKA_SERIAL_NUMBER MULTILINE_OCTAL

END

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

\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 $\label{eq:304} 357 \\ 303 \\ 174 \\ 153 \\ 213 \\ 072 \\ 171 \\ 177 \\ 263 \\ 111 \\ 317 \\ 075 \\ 342 \\ 211 \\ 237 \\ 1237 \\$ \240\060\113\205\271\234\224\044\171\217\175\153\251\105\150\017 \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 \001\001\377\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\000\040\043 \101\065\004\220\302\100\142\140\357\342\065\114\327\077\254\342 \064\220\270\241\157\166\372\026\026\244\110\067\054\351\220\302 \362\074\370\012\237\330\201\345\273\133\332\045\054\244\247\125 \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 \040\152\354\374\042\001\050\317\206\270\200\036\251\314\021\245 \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 \034\222\360\345\006\067\334\246\346\220\233\070\217\134\153\033 $\label{eq:106} \end{tabular} 106 \end{tabular} 102 \end{tabular} 1076 \end{tabular} 007 \end{tabular} 123 \end{tabular} 124 \end{tabular} 135 \end{tabular} 145 \end{tabular} 175 \end{tabular} 367 \end{tabular} 163 \end{tabular}$ \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 \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 \242\150\040\200\004\326\374\261\217\057\273\112\061\015\112\206 \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 \221\262\021\064\021\076\352\320\103\031\037\003\223\220\014\377 \344\370\066\252\150\235\355\275\135\227\160\104\015\266\016\065 \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 \343\370\073\273\334\115\327\144\362\121\276\346\252\253\132\351

\061\356\006\274\163\277\023\142\012\237\307\271\227 **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 "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"

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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

END

CKA_SERIAL_NUMBER MULTILINE OCTAL

\002\001\001

\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 \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

\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 $\label{eq:123} 145 162 166 151 143 145 163 040 107 155 142 110 061 037 060$ \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

Class 3" CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509 CKA SUBJECT MULTILINE OCTAL

Issuer: CN=T-TeleSec GlobalRoot Class 3,OU=T-Systems Trust Center,O=T-Systems Enterprise Services

Subject: CN=T-TeleSec GlobalRoot Class 3,OU=T-Systems Trust Center,O=T-Systems Enterprise Services

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_LABEL UTF8 "T-TeleSec GlobalRoot

GmbH.C=DE

GmbH.C=DE

Serial Number: 1 (0x1)

Fingerprint (SHA-256):

\141\163\163\040\063

END

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA PRIVATE CK BBOOL CK FALSE

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

CKA_TOKEN CK_BBOOL CK_TRUE

Not Valid Before: Wed Oct 01 10:29:56 2008 # Not Valid After : Sat Oct 01 23:59:59 2033

\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 $\label{eq:143} 040 107 154 157 142 141 154 122 157 157 164 040 103 154 141$ \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 \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 $\label{eq:163} \\ 163 \\ 164 \\ 145 \\ 155 \\ 163 \\ 040 \\ 124 \\ 162 \\ 165 \\ 163 \\ 164 \\ 040 \\ 103 \\ 145 \\ 156 \\ 164 \\ 164 \\ 103 \\ 145 \\ 156 \\ 164 \\ 103 \\$ \145\162\061\045\060\043\006\003\125\004\003\014\034\124\055\124 \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 $\label{eq:104} $$ 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 \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

\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_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA_NSS_EMAIL_DISTRUST_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

\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 \164\040\107\155\142\110\061\047\060\045\006\003\125\004\003\014 \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 $\label{eq:120} $$ 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 \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 $\label{eq:106} \end{tabular} 106 \end{tabular}$ \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\003\002\001\006\060\201\323 \006\003\125\035\037\004\201\313\060\201\310\060\201\200\240\176 $\label{eq:240} \\ 240 \\ 172 \\ 206 \\ 172 \\ 154 \\ 144 \\ 141 \\ 160 \\ 072 \\ 057 \\ 057 \\ 144 \\ 151 \\ 162 \\ 145 \\ 143 \\ 143 \\ 145 \\ 144 \\ 141 \\ 160 \\ 072 \\ 057 \\ 144 \\ 151 \\ 162 \\ 145 \\ 143 \\ 145 \\ 155 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 155 \\ 145 \\$ \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\062\060\060\071\054\117 \075\104\055\124\162\165\163\164\045\062\060\107\155\142\110\054 $\label{eq:103}075\104\105\077\143\145\162\164\151\146\151\143\141\164\145$ \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 $\label{eq:2.1} \end{tabular} \end{tabular}$ \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 $\label{eq:145} $$ 132\345\346\062\347\362\337\253\111\372\363\220\151\$ \043\333\004\331\347\134\130\374\145\324\227\276\314\374\056\012 \314\045\052\065\004\370\140\221\025\165\075\101\377\043\037\031 \310\154\353\202\123\004\246\344\114\042\115\215\214\272\316\133 \163\354\144\124\120\155\321\234\125\373\151\303\066\303\214\274 \074\205\246\153\012\046\015\340\223\230\140\256\176\306\044\227 \212\141\137\221\216\146\222\011\207\066\315\213\233\055\076\366 $\label{eq:121} $$ 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 164145327134376243342END 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 "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

 $\label{eq:130} \end{aligned} 130\350\253\260\066\025\063\373\200\367\233\033\155\051\323\377$

END

CKA_CERT_MD5_HASH

MULTILINE_OCTAL

 $\label{eq:315} $$ 340\045\151\215\107\254\234\211\065\220\367\375\121\075\057 $$$

END

CKA_ISSUER MULTILINE_OCTAL

 $\label{eq:sphere:sphe$

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

002003011203363

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):

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\071

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

 $\label{eq:sphere:sphe$

\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 $\label{eq:2.12} \\ 004 \\ 003 \\ 014 \\ 041 \\ 104 \\ 055 \\ 124 \\ 122 \\ 125 \\ 123 \\ 124 \\ 040 \\ 122 \\ 157 \\ 157 \\ 164 \\ 126 \\ 127 \\ 157 \\ 164 \\ 126 \\ 127$ \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

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 "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):

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 $\label{eq:104} \end{tabular} \end{tabular}$ \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

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 \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\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 $\label{eq:125}004 007 023 012 102 162 141 164 151 163 154 141 166 141 061$ \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 $\label{eq:253} $$ $$ 253\171\130\074\332\377\174\034\237\330\227\002\170\076\153\101\$ $\label{eq:2.1} \end{tabular} \end{tabular}$ \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

END

\002\011\000\222\270\210\333\260\212\301\143

MULTILINE_OCTAL

CKA_SERIAL_NUMBER

END

\164\040\122\062

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

CKA ID UTF8 "0"

END

\164\040\122\062

\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

\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 $\label{eq:2.14} $$ 022\314\125\207\141\363\201\256\020\106\141\275\104\041\270\302 $$$ \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 $\label{eq:2.1} \end{tabular} \end{tabular}$ \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 DISTRUST AFTER CK BBOOL CK FALSE CKA_NSS_EMAIL_DISTRUST_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\126\061\015\060\013\006\003\125\004

 $\label{eq:1012} \end{tabular} \end{tabular$

023002105123

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

002 010 136 303 267 246 103 177 244 340

END

CKA_VALUE MULTILINE_OCTAL

\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 $\label{eq:251} $$ $$ 251 $$ 253 $$ 277 $$ 141 $$ 12 $$ 27 $$ 57 $$ 227 $$ 146 $$ 232 $$ 164 $$ 137 $$ 320 $$ 331 $$ 226 $$ 164 $$ 137 $$ 320 $$ 320 $$ 31 $$ 226 $$ 164 $$ 137 $$ 320 $$ 31 $$ 226 $$ 164 $$ 137 $$ 320 $$ 31 $$ 31 $$ 31 $$ 20 $$ 31 $$ 31 $$ 20 $$ 31 $$ 20 $$ 31 $$ 31 $$ 20 $$ 31 $$ 31 $$ 20 $$ 31 $$ 31 $$ 31 $$ 20 $$ 31 $$ 31 $$ 20 $$ 31 $$ 31 $$ 20 $$ 31 $$ 31 $$ 20 $$ 31 $$ 31 $$ 20 $$ 31$ \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 $\label{eq:161172144152327047140143015333316111365215037220} \label{eq:161172144152327047140143015333316111365215037220}$ $\label{eq:211} 062 027 370 163 103 270 322 132 223 206 141 326 341 165 012$ \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 $\label{eq:143} \\ 143 \\ 145 \\ 162 \\ 164 \\ 151 \\ 146 \\ 151 \\ 143 \\ 141 \\ 144 \\ 157 \\ 163 \\ 057 \\ 162 \\ 141 \\ 151 \\ 163 \\ 162 \\ 141 \\ 151 \\ 163 \\ 162 \\ 162 \\ 161 \\ 163 \\ 162 \\ 161 \\ 163 \\ 162 \\ 163 \\ 162 \\ 163 \\$

\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 $\label{eq:163} \\ 163 \\ 057 \\ 154 \\ 145 \\ 147 \\ 151 \\ 163 \\ 154 \\ 141 \\ 143 \\ 151 \\ 157 \\ 156 \\ 137 \\ 143 \\ 056 \\ 137 \\ 143 \\ 143 \\ 151 \\ 157 \\$ \150\164\155\060\125\006\003\125\035\037\004\116\060\114\060\112 \240\110\240\106\206\104\150\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 $\label{eq:151} 146 151 143 141 144 157 163 057 162 141 151 172 141 143 143$ \166\061\137\144\145\162\056\143\162\154\060\016\006\003\125\035 \017\001\001\377\004\003\002\001\006\060\027\006\003\125\035 \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 $\label{eq:103} \\ 124 \\ 143 \\ 332 \\ 342 \\ 314 \\ 272 \\ 146 \\ 345 \\ 117 \\ 104 \\ 172 \\ 133 \\ 331 \\ 152 \\ 201 \\ 104 \\ 172 \\ 133 \\ 331 \\ 152 \\ 201 \\ 104 \\ 172 \\ 133 \\ 331 \\ 152 \\ 201 \\ 104 \\ 172 \\ 104 \\ 104 \\ 172 \\ 104 \\ 104 \\ 172 \\ 104 \\ 104 \\ 172 \\ 104 \\ 104 \\ 172 \\ 104 \\$

\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 $\label{eq:25} $$ 325 260 355 216 075 234 052 300 015 330 075 146 343 074 015 275 $$$ \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 $\label{eq:2.1} \end{tabular} \end{tabular}$ \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 DISTRUST AFTER CK BBOOL CK FALSE CKA_NSS_EMAIL_DISTRUST_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

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 # 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 $\label{eq:124} $$ 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

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 $\label{eq:124} $$ 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 \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 $\label{eq:22} \end{tabular} \end{tabular} \label{eq:244} \end{tabular} \end{tabular}$ \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 $\label{eq:2.1} \end{tabular} \end{tabular}$ \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

\002\002\014\276

MULTILINE_OCTAL

CKA_SERIAL_NUMBER

END

\040\103\101

\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 $\label{eq:274} $$ $$ 274 133 300 120 217 101 160 161 207 262 115 267 004 $$$ \251\204\243\062\257\256\356\153\027\213\262\261\376\154\341\220 $\label{eq:214} $$ $$ 214 $$ 20 $$ 227 $$ 10 $$ 316 $$ 310 $$ 115 $$ 313 $$ 363 $$ 006 $$ 317 $$ 137 $$ 152 $$ 012 $$ 102 $$$ 102 $$ 102 $$ 102 $$ 102 $$ 102 $$$ 102 $$ 102 $$$ \261\036\036\167\057\216\240\346\222\016\006\374\005\042\322\046 \341\061\121\175\062\334\017\002\003\001\000\001\243\043\060\041 \060\016\006\003\125\035\017\001\001\377\004\004\003\002\001\006 \060\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001 \377\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000 \003\202\002\001\000\137\064\201\166\357\226\035\325\345\265\331 \002\143\204\026\301\256\240\160\121\247\367\114\107\065\310\013 \327\050\075\211\161\331\252\063\101\352\024\033\154\041\000\300 $\label{eq:154} $$ 154\102\31\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 \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_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA_NSS_EMAIL_DISTRUST_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 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 \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

 $\label{eq:loss} $$ 060\067\061\022\006\003\125\004\012\014\013\124\145\154\151\141\123\157\156\145\162\141\061\037\060\035\006\003\125\004 $$$

 $\label{eq:1003} \\ 014 \\ 026 \\ 124 \\ 145 \\ 154 \\ 151 \\ 141 \\ 123 \\ 157 \\ 156 \\ 145 \\ 162 \\ 141 \\ 040 \\ 122 \\ 124 \\ 141 \\ 040 \\ 122 \\ 141 \\ 141 \\ 123 \\ 157 \\ 156 \\ 145 \\ 162 \\ 141 \\ 040 \\ 122 \\ 141 \\ 141 \\ 123 \\ 157 \\ 156 \\ 145 \\ 162 \\ 141 \\ 040 \\ 122 \\ 141 \\ 141 \\ 123 \\ 157 \\ 156 \\ 145 \\ 162 \\ 141 \\ 1040 \\ 122 \\ 141 \\ 123 \\ 157 \\ 156 \\ 145 \\ 162 \\ 141 \\ 1040 \\ 122 \\ 141 \\ 123 \\ 157 \\ 156 \\ 145 \\ 162 \\ 141 \\ 1040 \\ 122 \\ 141 \\ 123 \\ 141 \\ 123 \\ 157 \\ 156 \\ 145 \\ 162 \\ 141 \\ 1040 \\ 122 \\ 141 \\ 1040 \\ 122 \\ 141 \\ 1040 \\ 122 \\ 141 \\ 1040 \\ 122 \\ 141 \\ 1040 \\ 122 \\ 141 \\ 1040 \\ 122 \\ 141 \\ 1040 \\ 122 \\ 141 \\ 1040 \\ 122 \\ 141 \\ 1040 \\ 122 \\ 141 \\ 1040 \\ 122 \\ 1040 \\ 122 \\ 1040 \\ 122 \\ 1040 \\ 122 \\ 1040 \\ 122 \\ 1040 \\ 122 \\ 1040 \\ 122 \\ 1040 \\ 122 \\ 1040 \\ 122 \\ 1040 \\ 122 \\ 1040 \\ 122 \\ 1040 \\ 1040 \\ 122 \\ 1040 \\ 1040 \\ 122 \\ 1040 \\ 1040 \\ 122 \\ 1040 \\ 1040 \\ 122 \\ 1040$

157 157 164 040 103 101 040 166 061

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

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

\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 \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 $\label{eq:212} \end{tabular} \end{tabular}$ \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\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 $\label{eq:116} \label{eq:116} \lab$ \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 $\label{eq:24} $$ 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 \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 $\label{eq:267} $$ $$ 267 317 015 222 373 216 030 251 230 111 321 236 376 140 104 162 $$$ $\label{eq:2.1} \end{tabular} \end{tabular}$ \255\316\364\370\151\024\144\071\373\243\270\272\160\100\307\047 \034\277\304\126\123\372\143\145\320\363\034\016\026\365\153\206 \130\115\030\324\344\015\216\245\235\133\221\334\166\044\120\077 \306\052\373\331\267\234\265\326\346\320\331\350\031\213\025\161 \110\255\267\352\330\131\210\324\220\277\026\263\331\351\254\131 $\label{eq:141} $$ 10\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 DISTRUST AFTER CK BBOOL CK FALSE CKA NSS EMAIL DISTRUST 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

 $\label{eq:2.1} \end{tabular} \end{tabular}$

\151\141\123\157\156\145\162\141\061\037\060\035\006\003\125\004

 $\label{eq:1003} \\ 014 \\ 026 \\ 124 \\ 145 \\ 154 \\ 151 \\ 141 \\ 123 \\ 157 \\ 156 \\ 145 \\ 162 \\ 141 \\ 040 \\ 122 \\ 141 \\ 040 \\ 141 \\ 123 \\ 141$

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

 $\label{eq:22} \end{tabular} \end{tabular}$

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

```
\label{eq:201} $$ 060\201\262\061\013\060\011\006\003\125\004\006\023\002\124\122 $$
```

 $\label{eq:2.1} \end{tabular} \end{tabular}$

\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

 $\label{eq:166} $$ 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\55\$

\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

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 $\label{eq:105} $$ 124 165 304 237 162 141 040 105 102 107 040 102 $$$ $\label{eq:151} $$ 151\305\237\151\155\040\124\145\153\156\157\154\157\152\$ $\label{eq:151} 154 145 162 151 040 166 145 040 110 151 172 155 145 164 154$ \145\162\151\040\101\056\305\236\056\061\046\060\044\006\003\125 \004\013\014\035\105\055\124\165\147\162\141\040\123\145\162\164 \151\146\151\153\141\163\171\157\156\040\115\145\162\153\145\172 \151\061\050\060\046\006\003\125\004\003\014\037\105\055\124\165 $\label{eq:156} $$ 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

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL \002\010\152\150\076\234\121\233\313\123

END

\157\162\151\164\171

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

END CKA_ID UTF8 "0"

\157\162\151\164\171

\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 $\label{eq:143} \\ 143 \\ 141 \\ 164 \\ 151 \\ 157 \\ 156 \\ 040 \\ 101 \\ 165 \\ 164 \\ 150 \\ 157 \\ 162 \\ 151 \\ 164 \\ 171 \\ 164 \\$ \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\342\365\077\223\005\121\036\205\142\124\136\172\013\365\030 $\label{eq:203} \\ 007 \\ 203 \\ 256 \\ 176 \\ 257 \\ 174 \\ 367 \\ 324 \\ 212 \\ 153 \\ 245 \\ 143 \\ 103 \\ 071 \\ 271 \\ 113 \\ 103 \\ 071 \\ 271 \\ 113 \\ 103 \\$ $\label{eq:367} 303 \\ 306 \\ 144 \\ 211 \\ 075 \\ 224 \\ 056 \\ 124 \\ 200 \\ 122 \\ 071 \\ 071 \\ 007 \\ 113 \\ 113 \\ 113 \\ 113 \\ 113 \\ 114 \\ 1$ \335\205\007\166\207\314\277\057\225\114\314\175\247\075\274\107 \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 $\label{eq:2.1} \end{tabular} \end{tabular}$ \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 $\label{eq:107} $$ 107 027 377 357 221 100 052 216 241 106 072 061 230 345 021 374 106 072 061 230 345 000 345 000 374 106 000 345 000 345 000 374 100 000 345 000 374 100 000 374 100 000 374 100 000 345 000 345 000 345 000 345 000 345 000 374 100 000 345 0000 345 0000 345 00000 345 0000 345 000 345 000 345 0000 345 0000 345$ \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\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 $\label{eq:2.1} \end{tabular} \end{tabular}$ \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 \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 \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 $\label{eq:2.126} $$ 126 374 077 264 235 32160 234 166 132 214 103 120 356 216 060 $$$ \162\115\337\377\111\367\306\251\147\331\155\254\002\021\342\072 \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 \064\277\376\043\227\067\322\071\372\075\015\006\013\264\333\073 $\label{eq: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 \305\236\056\061\046\060\044\006\003\125\004\013\014\035\105\055 \003\125\004\003\014\037\105\055\124\165\147\162\141\040\103\145 \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

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\0000\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\062\063\065

\002\001\001

MULTILINE_OCTAL

CKA_SERIAL_NUMBER

END

\141\163\163\040\062

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

CKA_ID UTF8 "0"

END

141 163 163 040 062

 $\label{eq:solution} $$ 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 \ 145 \ 040 \ 123 \ 145 \ 162 \ 166 \ 151 \ 143 \ 145 \ 163 \ 040 \ 107 \ 155 \ 142 \ 110 \ 061 \ 037 \ 060 \ 033 \ 125 \ 004 \ 013 \ 145 \ 155 \ 163 \ 164 \ 145 \ 155 \ 163 \ 164 \ 145 \ 155 \ 163 \ 164 \ 145 \ 155 \ 163 \ 164 \ 145 \ 155 \ 163 \ 164 \ 145 \ 155 \ 163 \ 164 \ 145 \ 155 \ 163 \ 164 \ 145 \ 155 \ 163 \ 164 \ 145 \ 155 \ 163 \ 164 \ 145 \ 155 \ 163 \ 164 \ 103 \ 145 \ 155 \ 164 \ 145 \ 155 \ 164 \ 145 \ 155 \ 164 \ 145 \ 155 \ 164 \ 145 \ 155 \ 164 \ 145 \ 155 \ 164 \ 145 \ 155 \ 164 \ 145 \ 155 \ 164 \ 145 \ 155 \ 145 \ 155 \ 145 \ 145 \ 155 \ 155 \ 145 \ 155 \ 145 \ 155 \ 145 \ 155 \ 145 \ 155 \ 145 \ 155 \ 145 \ 155 \ 145 \ 155 \ 145 \ 155 \ 155 \ 145 \ 155 \ 155 \ 145 \ 155 \ 155 \ 145 \ 155 \ 155 \ 145 \ 155 \$

CK_CERTIFICATE_TYPE CKC_X_509 CKA_SUBJECT MULTILINE_OCTAL

CKA_CERTIFICATE_TYPE

CKA_LABEL UTF8 "T-TeleSec GlobalRoot Class 2"

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

Fingerprint (SHA1): 59:0D:2D:7D:88:4F:40:2E:61:7E:A5:62:32:17:65:CF:17:D8:94:E9

\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 $\label{eq:151} $$ 151\163\145\040\123\145\162\166\151\143\145\163\040\107\155\142 $$$ \110\061\037\060\035\006\003\125\004\013\014\026\124\055\123\171 $\label{eq:163} \\ 163 \\ 164 \\ 145 \\ 155 \\ 163 \\ 040 \\ 124 \\ 162 \\ 165 \\ 163 \\ 164 \\ 040 \\ 103 \\ 145 \\ 156 \\ 164 \\ 164 \\ 103 \\ 145 \\ 156 \\ 164 \\ 103 \\ 103 \\ 145 \\ 156 \\ 164 \\ 103 \\$ \145\162\061\045\060\043\006\003\125\004\003\014\034\124\055\124 \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 \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 \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 $\label{eq:374} 351 172 305 154 251 161 117 352 313 170 274 140 257 307 336$ \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 $\label{eq:131} 040 \\ 066 \\ 000 \\ 171 \\ 240 \\ 240 \\ 042 \\ 153 \\ 214 \\ 325 \\ 362 \\ 141 \\ 322 \\ 270 \\ 054 \\ 141 \\ 322 \\ 270 \\ 054 \\ 141 \\ 322 \\ 270 \\ 054 \\ 141 \\ 322 \\ 270 \\ 054 \\ 141 \\ 322 \\ 270 \\ 054 \\ 141 \\ 322 \\ 270 \\ 054 \\ 141 \\ 322 \\ 270 \\ 054 \\ 141 \\ 322 \\ 270 \\ 054 \\ 141 \\ 322 \\ 270 \\ 054 \\ 141 \\ 322 \\ 270 \\ 054 \\ 141 \\ 322 \\ 270 \\ 054 \\ 141 \\ 322 \\ 141 \\ 141 \\ 322 \\ 141 \\ 1$ \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 $\label{eq:204} $$ \204\130\145\342\333\053\212\347\045\123\067\142\123\137\274\332 $$$ \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_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA_NSS_EMAIL_DISTRUST_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 \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:A4:74:1A:1A:A4:74:1A:1A:1A:1A:1A:1A:1A:1A:1A:1

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

 $\label{eq:2.10} \end{tabular} \end{tabular$

 $\label{eq:163} $$ 163\164\145\144\122\157\157\164\040\062\060\$

 $\label{eq:1061} 061 \\ 061 \\ 015 \\ 060 \\ 013 \\ 006 \\ 003 \\ 125 \\ 004 \\ 012 \\ 014 \\ 004 \\ 101 \\ 164 \\ 157 \\ 004 \\ 012 \\ 014 \\ 004 \\ 101 \\ 164 \\ 157 \\ 004 \\ 012 \\ 014 \\ 004 \\ 101 \\ 164 \\ 157 \\ 004 \\ 012 \\ 014 \\ 004 \\ 101 \\ 164 \\ 157 \\ 004 \\ 012 \\ 014 \\ 004 \\ 101 \\ 164 \\ 157 \\ 004 \\ 012 \\ 014 \\ 004 \\ 101 \\ 164 \\ 157 \\ 004 \\ 012 \\ 014 \\ 004 \\ 101 \\ 164 \\ 157 \\ 004 \\ 012 \\ 014 \\ 004 \\ 101 \\ 164 \\ 157 \\ 004 \\ 012 \\ 014 \\ 004 \\ 101 \\ 164 \\ 157 \\ 004 \\ 012 \\ 014 \\ 004 \\ 101 \\ 164 \\ 157 \\ 004 \\ 012 \\ 014 \\ 004 \\ 101 \\ 164 \\ 157 \\ 004 \\ 012 \\ 014 \\ 004 \\ 101 \\ 164 \\ 157 \\ 004 \\ 012 \\ 014 \\ 004 \\ 101 \\ 164 \\ 157 \\ 004 \\ 012 \\ 014 \\ 004 \\ 101 \\ 164 \\ 157 \\ 004 \\ 012 \\ 014 \\ 004 \\ 101 \\ 164 \\ 157 \\ 004 \\ 012 \\ 014 \\ 004 \\ 101 \\ 164 \\ 157 \\ 004 \\ 012 \\ 014 \\ 004 \\ 101 \\ 164 \\ 157 \\ 004 \\ 012 \\ 014 \\ 004 \\ 101 \\ 164 \\ 157 \\ 004 \\ 012 \\ 004 \\ 012 \\ 004 \\ 004 \\ 012 \\ 004 \\ 012 \\ 004 \\$

\163\061\013\060\011\006\003\125\004\006\023\002\104\105

END

CKA_ID

UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

 $\label{eq:constraint} $$ \000\074\061\036\060\034\006\003\125\004\003\014\025\101\164\157\163\040\124\162\165\163\164\145\144\122\157\157\164\040\062\060\061\061\061\061\061\060\003\125\004\002\120\14\004\101\164\157\163\061\001\006\003\125\004\006\023\002\104\105 $$$

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

 $\label{eq:2.1} $$ 002\010\134\063\313\142\054\137\263\062 $$$

END

CKA_VALUE MULTILINE_OCTAL

\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 \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 $\label{eq:2.1} \end{tabular} \end{tabular}$ \340\236\354\125\241\067\042\242\207\004\005\054\107\175\264\034 $\label{eq:271} $$ $$ 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 $\label{eq:232} $$ 164\232\264\044\056\216\002\221\317\166\305\233\036\125\164\234\$ \170\041\261\360\055\361\013\237\302\325\226\030\037\360\124\042 \172\214\007\002\003\001\000\001\243\175\060\173\060\035\006\003 \321\227\351\160\256\274\073\031\154\333\041\060\017\006\003\125 \035\023\001\001\377\004\005\060\003\001\001\377\060\037\006\003 \125\035\043\004\030\060\026\200\024\247\245\006\261\054\246\011 \140\356\321\227\351\160\256\274\073\031\154\333\041\060\030\006 \003\125\035\040\004\021\060\017\060\015\006\013\053\006\001\004 \001\260\055\003\004\001\001\060\016\006\003\125\035\017\001\001 \377\004\004\003\002\001\206\060\015\006\011\052\206\110\206\367 \015\001\001\013\005\000\003\202\001\001\000\046\167\064\333\224 \110\206\052\101\235\054\076\006\220\140\304\214\254\013\124\270 \037\271\173\323\007\071\344\372\076\173\262\075\116\355\237\043 \275\227\363\153\134\357\356\375\100\246\337\241\223\241\012\206 \254\357\040\320\171\001\275\170\367\031\330\044\061\064\004\001 \246\272\025\232\303\047\334\330\117\017\314\030\143\377\231\017 \016\221\153\165\026\341\041\374\330\046\307\107\267\246\317\130 $\label{eq:161} $$ 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 \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_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA_NSS_EMAIL_DISTRUST_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 **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

 $\label{eq:2.1} \end{tabular} \end{tabular}$

\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 $\label{eq:141} $$ 144\151\163\040\114\151\155\151\164\145\144\061\036\060\034\$ $\label{eq:2.1} \end{tabular} \end{tabular}$ \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 $\label{eq:2.10} \end{tabular} \end{tabular$ \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 $\label{eq:2.1} \end{tabular} \label{eq:2.2} \label{eq:2.2} \end{tabular} \label{eq:2.2} \label{eq:2.2} \end{tabular} \label{eq:2.2} \label{eq:2.2}$ \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 $\label{eq:172} $$ 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 \060\217\355\361\353\031\364\167\032\061\030\115\147\124\154\057 \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 $\label{eq:23} $$ 154\235\001\220\372\236\220\366\234\162\317\107\332\303\037\344 $$$ \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 $\label{eq:243} \end{tabular} \end{tabular}$ \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 $\label{eq:2.1} \end{tabular} $$ \054\360\055\075\355\132\145\340\251\133\100\302\110\231\201\155\8\\$ \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

 $\label{eq:2.10} \end{tabular} \end{tabular$

\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144

 $\label{eq:151} $$ 151\163\040\114\151\155\151\164\145\144\061\036\060\034\006\003$

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

050\205\220\324\1

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

 $\label{eq:2.10} \end{tabular} \end{tabular$

 $\label{eq:151} $$ 151\163\040\114\155\151\164\145\144\061\036\060\034\006\003$

157 164 040 103 101 040 062 040 107 063

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

 $\label{eq:2.10} \end{tabular} \end{tabular$

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 \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 $\label{eq:2.1} \end{tabular} \end{tabular}$ \151\155\151\164\145\144\061\036\060\034\006\003\125\004\003\023 \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 \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

END

\133\247\046\360\165\050

MULTILINE OCTAL $\label{eq:2.1} \end{tabular} \end{tabular}$

CKA_SERIAL_NUMBER

END

\157\164\040\103\101\040\062\040\107\063

\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

\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144

\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 $\label{eq:2.135} $$ 12341 012 367 350 262 323 237 335 147 061 176 272 $$$ \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 \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 \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 $\label{eq:162} $$ 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 \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_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA NSS EMAIL DISTRUST AFTER CK BBOOL CK FALSE # Trust for "OuoVadis 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

#

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 $\label{eq: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

Certificate "QuoVadis Root CA 3 G3"

\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 \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 $\label{eq:203} \\ 026 \\ 203 \\ 073 \\ 246 \\ 144 \\ 113 \\ 062 \\ 211 \\ 373 \\ 026 \\ 026 \\ 070 \\ 176 \\ 353 \\ 103 \\ 342 \\ 026 \\ 026 \\ 070 \\ 176 \\ 353 \\ 103 \\ 342 \\ 026 \\$ \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 $\label{eq:263} $$ 123\263\261\356\305\223\151\202\076\026\265\050\106\241\336\352 $$$ \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 $\label{eq: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 $\label{eq:127} $$ 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 $\label{eq:2.14} \\ 336 \\ 147 \\ 023 \\ 114 \\ 201 \\ 025 \\ 141 \\ 274 \\ 267 \\ 331 \\ 221 \\ 167 \\ 161 \\ 031 \\ 201 \\ 140$ \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 $\label{eq:117} $$ 17246 255 355 374 356 143 254 127 077 145 045 317 262 206 217 $$$ \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 \076\132\051\064\271\075\204\316\261\145\324\131\221\221\126\165 $\label{eq:2.1} \end{tabular} \end{tabular}$ \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 \130\371\230\364 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 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 \157\164\040\103\101\040\063\040\107\063 END CKA_SERIAL_NUMBER MULTILINE OCTAL $\label{eq:2.1} \end{tabular} \end{tabular}$ \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

#

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

\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 $\label{eq: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 $\label{eq:114} $$ 144\040\111\104\040\122\157\157\164\040\107\062\060\202\001\042 $$$ \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 $\label{eq:214} $$ 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

CKA_SERIAL_NUMBER MULTILINE_OCTAL \002\020\013\223\034\072\326\071\147\352\147\043\277\303\257\232 \364\113 END

\060\202\003\226\060\202\002\176\240\003\002\001\002\002\020\013

\122\157\157\164\040\107\062 END CKA_SERIAL_NUMBER

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

CKA ID UTF8 "0"

CKA_VALUE MULTILINE_OCTAL

END

122 157 157 164 040 107 062

\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 $\label{eq:266} \end{tabular} \end{tabular}$ $\label{eq:2.157} $$ 157 035 321 276 223 273 323 210 052 273 235 277 162 132 126 161 $$ 157 035 321 276 223 273 323 210 052 273 235 277 162 132 126 161 $$ 157 035 321 276 223 273 235 277 162 132 126 161 $$ 157 035 277 162 126 1$$ 157 035 277 162 127 126 157 0$$ 157 035 277 162 127 126 157 0$$ 157 0$$ 157 0$ 127 0$$ 157 0$$$ \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 $\label{eq:270} $$ $$ 270 077 004 274 134 240 207 341 033 257 121 216 315 354 054 372 $$$ \370\376\155\360\072\174\252\213\344\147\225\061\215\002\003\001 \000\001\243\102\060\100\060\017\006\003\125\035\023\001\001\377 \004\005\060\003\001\001\377\060\016\006\003\125\035\017\001\001 \377\004\004\003\002\001\206\060\035\006\003\125\035\016\004\026 \004\024\316\303\112\271\231\125\362\270\333\140\277\251\176\275 \126\265\227\066\247\326\060\015\006\011\052\206\110\206\367\015 \001\001\013\005\000\003\202\001\001\000\312\245\125\214\343\310 \101\156\151\047\247\165\021\357\074\206\066\157\322\235\306\170 $\label{eq:242} $$ 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 \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_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA_NSS_EMAIL_DISTRUST_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

223121135077

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

 $\label{eq:stability} $$ \ (060)145\\061\\013\\060\\003\\125\\004\\003\\125\\004\\0023\\006\\003\\125\\004\\0012\\0023\\004\\003\\125\\004\\003\\125\\004\\003\\125\\004\\003\\125\\004\\003\\125\\004\\003\\023\\033\\104\\151\\147\\151\\103\\145\\162\\164\\040\\101\\163\\165\\162\\144\\040\\111\\104\\040 \\$

 $122\157\157\164\040\107\062$

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

 $\label{eq:2.1} \end{tabular} \end{tabular}$

\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_PROOL_CK_EALSE

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\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 $\label{eq:125}004 012 023 014 104 151 147 151 103 145 162 164 040 111 156$ \143\061\031\060\027\006\003\125\004\013\023\020\167\167\167\056 $\label{eq:144} $$ 143\145\162\164\056\143\157\155\061\044\060\042\$ \006\003\125\004\003\023\033\104\151\147\151\103\145\162\164\040 \101\163\163\165\162\145\144\040\111\104\040\122\157\157\164\040 \107\063\060\036\027\015\061\063\060\070\060\061\061\062\060\060 \060\060\132\027\015\063\070\060\061\061\065\061\062\060\060 \060\132\060\145\061\013\060\011\006\003\125\004\006\023\002\125 \123\061\025\060\023\006\003\125\004\012\023\014\104\151\147\151 \103\145\162\164\040\111\156\143\061\031\060\027\006\003\125\004 $\label{eq:1013} \\ 023 \\ 020 \\ 167 \\ 167 \\ 167 \\ 056 \\ 144 \\ 151 \\ 147 \\ 151 \\ 143 \\ 145 \\ 162 \\ 164 \\ 056 \\ 056$ \143\157\155\061\044\060\042\006\003\125\004\003\023\033\104\151 $\label{eq:104} $$ 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 \251\104\055\005\025\362\357\013\377\020\164\237\265\142\122\137 $\label{eq: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

CKA_VALUE MULTILINE_OCTAL

END

\154\354

 $CKA_SERIAL_NUMBER MULTILINE_OCTAL \\ \label{eq:serial} 002\020\013\241\132\372\035\337\240\265\111\104\257\315\044\240 \\ \label{eq:serial}$

END

122 157 157 164 040 107 063

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\165\162\145\144\040\111\104\040

UTF8 "0"

END CKA ID

 $122\157\157\164\040\107\063$

 $\label{eq:starting} $$ 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 02 001 206 060 035 006 003 125 035 016 004 026 004 024 313 320 275 251 341 230 005 121 241 115 067 242 203 171 316 215 035 052 344 204 060 012 006 010 052 206 110 316 075 004 003 003 003 147 000 060 144 002 060 045 244 201 105 002 153 022 113 165 164 117 310 043 343 160 362 165 162 336 174 211 360 317 221 162 141 236 136 020 222 131 126 271 203 307 020 347 070 351 130 046 066 175 325 344 064 206 071 002 060 174 066 123 360 060 345 142 143 072 231 342 266 243 073 233 064 372 036 332 020 222 161 136 221 023 247 335 244 156 222 314 062 326 365 041 146 307 057 352 226 143 152 145 105 222 25 001 264$

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 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):

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

 $\label{eq:237} $$ 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

 $\label{eq:spectral_$

\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 $\label{eq:103} \\ 145 \\ 162 \\ 164 \\ 040 \\ 107 \\ 154 \\ 157 \\ 142 \\ 141 \\ 154 \\ 040 \\ 122 \\ 157 \\ 157 \\ 164 \\$ \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 $\label{eq:20} \end{tabular} \end{tabular}$ \155\061\040\060\036\006\003\125\004\003\023\027\104\151\147\151 $\label{eq:103} 145 162 164 040 107 154 157 142 141 154 040 122 157 157 164$ \040\107\062

CKA VALUE MULTILINE OCTAL \060\202\003\216\060\202\002\166\240\003\002\001\002\002\002\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 \040\060\036\006\003\125\004\003\023\027\104\151\147\151\103\145 \062\060\036\027\015\061\063\060\070\060\061\061\062\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 \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 $\label{eq:211} 041 064 115 257 017 105 014 246 111 241 272 273 234 305$ \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\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

END

\372\345

CKA_SERIAL_NUMBER MULTILINE_OCTAL \002\020\003\072\361\346\247\021\251\240\273\050\144\261\035\011

END

\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 $\label{eq:210} $$ $$ 210 $$ 277 $$ 370 $$ 217 $$ 260 $$ 141 $$ 014 $$ 064 $$ 244 $$ 256 $$ 040 $$ 114 $$ 204 $$ 306 $$ 333 $$ 370 $$ 210 $$ 217 $$ 260 $$ 141 $$ 014 $$ 064 $$ 244 $$ 256 $$ 040 $$ 114 $$ 204 $$ 306 $$ 333 $$ 370 $$ 210 $$ 217 $$$ $\label{eq:2.1} \end{tabular} $$ \065\341\166\331\337\246\102\273\307\104\010\206\177\066\164\044 $$ $$ $\label{eq:132} $$ 132\32\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 $\label{eq:166} $$ 166 356 074 215 304 135 126 133 242 331 146 156 263 065 067 345 $$$ \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

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\label{eq:20} \end{tabular} 
\155\061\040\060\036\006\003\125\004\003\023\027\104\151\147\151
\label{eq: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: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_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
\155\061\040\060\036\006\003\125\004\003\023\027\104\151\147\151
\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
\label{eq:20} \end{tabular} \end{tabular}
```

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 \143\061\031\060\027\006\003\125\004\013\023\020\167\167\167\056 \006\003\125\004\003\023\027\104\151\147\151\103\145\162\164\040 \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 $\label{eq:23} 006 003 125 004 012 023 014 104 151 147 151 103 145 162 164$ \040\111\156\143\061\031\060\027\006\003\125\004\013\023\020\167 \040\060\036\006\003\125\004\003\023\027\104\151\147\151\103\145 \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\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

 $\label{eq:155} $$ 155\061\040\060\036\006\003\125\004\003\023\027\104\151\147\151\147\151\103\145\162\164\040\107\154\157\142\141\154\040\122\157\157\164$

\002\020\005\125\126\274\362\136\244\065\065\303\244\017\325\253

\040\107\063

CKA_SERIAL_NUMBER MULTILINE OCTAL

END

\105\162 END

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 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 $\label{eq:103} \\ 145 \\ 162 \\ 164 \\ 040 \\ 107 \\ 154 \\ 157 \\ 142 \\ 141 \\ 154 \\ 040 \\ 122 \\ 157 \\ 157 \\ 164 \\$ \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 $\label{eq:103} \\ 103 \\ 145 \\ 162 \\ 164 \\ 040 \\ 122 \\ 157 \\ 157 \\ 157 \\ 103 \\ 164 \\ 145 \\ 144 \\ 040 \\ 122 \\ 157 \\$

\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 $\label{eq:20} \end{tabular} \end{tabular}$ \155\061\041\060\037\006\003\125\004\003\023\030\104\151\147\151 $\label{eq:103} \\ 145 \\ 162 \\ 164 \\ 040 \\ 124 \\ 162 \\ 165 \\ 163 \\ 164 \\ 145 \\ 144 \\ 040 \\ 122 \\ 157 \\$

\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 $\label{eq: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 \107\064\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\132\060\142\061\013\060\011\006\003\125\004\006\023\002\125 \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 $\label{eq:147} $$ 147\151\103\145\162\164\040\124\162\165\163\164\145\144\040\122 $$ \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 $\label{eq:137} $$ 137\261\172\146\356\167\310\110\250\146\127\127\237\124\130\216\$ \014\053\267\117\247\060\331\126\356\312\173\135\343\255\311\117 $\label{eq:136} \label{eq:136} \lab$ \230\100\220\171\303\170\307\266\261\304\265\152\030\070\003\020 \215\330\324\067\244\056\005\175\210\365\202\076\020\221\160\253 $\label{eq:202} $$ 125\202\101\062\327\33\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 $\label{eq:21} \end{tabular} \end{tabular}$ \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 $\label{eq:260} \end{tabular} \end{tabular}$ $\label{eq:270} $$ $$ 270 $$ 246 $$ 167 $$ 001 $$ 41 $$ 017 $$ 24 $$ 014 $$ 041 $$ 035 $$ 262 $$ 124 $$ 051 $$ 045 $$ 211 $$ 154 $$ 167 $$ 015 $$$ 015 $$$ 015 $$ 015 $$ 015 $$ 015 $$$ 015 $$$ 015 $$$ 015 $$$ 015 $$ 015 $$$ 01$ \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 $\label{eq:162} $$ 162\026\042\011\337\174\114\165\077\143\354\041\137\304\040\121 $$$ \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 $\label{eq:112} $$ 112\231\271\311\170\134\014\137\344\346\024\051\126\013\066\$ \155\153\326\124\370\322\074\301\103\100\256\035\120\365\122\374 $\label{eq:220} \\ (220) \\ (073) \\ (273) \\ (230) \\ (231) \\ (151) \\ (153) \\ (307) \\ (301) \\ (247) \\ (250) \\ (150) \\ (244) \\ (047) \\ (334) \\ (235) \\ (150) \\ (244) \\ (047) \\ (334) \\ (235) \\ (150) \\ (244) \\ (150) \\ (150) \\ (244) \\ (150) \\ (150) \\ (244) \\ (150) \\ (15$ \371\047\256\060\205\271\366\147\115\072\076\217\131\071\042\123 \104\353\310\135\003\312\355\120\172\175\142\041\012\200\310\163 $\label{eq:146} $$ 146\21\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 $\label{eq:340} $$ 340\161\362\126\344\152\227\157\222\120\155\226\215\150\172\232 $$$ \262\066\024\172\006\362\044\271\011\021\120\327\010\261\270\211 $\label{eq:172} $$ 172\204\043\141\102\051\345\243\315\242\040\101\327\321\234\144 $$$ $\label{eq:331} 352 046 241 213 024 327 114 031 262 120 101 161 075 077 115$ \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 \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 $\label{eq:106} $$ 11407715605013217104632224425014227322036$ \342\355\112\213\274\033\375\107\112\015\337\147\146\176\262\133 $\label{eq:101} $$ 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 $\label{eq:20} \end{tabular} \end{tabular}$ \155\061\041\060\037\006\003\125\004\003\023\030\104\151\147\151 $\label{eq:103} \\ 145 \\ 162 \\ 164 \\ 040 \\ 124 \\ 162 \\ 165 \\ 163 \\ 164 \\ 145 \\ 144 \\ 040 \\ 122 \\ 157 \\$ \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

\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 \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

END CKA VALUE MULTILINE OCTAL

CKA SERIAL NUMBER MULTILINE_OCTAL \002\020\114\252\371\312\333\143\157\340\037\367\116\330\133\003

END

\206\235

\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 $165\164\150\157\162\151\164\171$

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

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 $\label{eq:103} \\ 101 \\ 040 \\ 114 \\ 151 \\ 155 \\ 151 \\ 164 \\ 145 \\ 144 \\ 061 \\ 053 \\ 060 \\ 051 \\ 006 \\ 006 \\ 1006$ \003\125\004\003\023\042\103\117\115\117\104\117\040\122\123\101 $\label{eq:103} \\ 145 \\ 162 \\ 164 \\ 151 \\ 146 \\ 151 \\ 143 \\ 141 \\ 164 \\ 151 \\ 157 \\ 156 \\ 040 \\ 101 \\$

CKA MODIFIABLE CK BBOOL CK FALSE CKA_LABEL UTF8 "COMODO RSA Certification Authority" CKA CERTIFICATE TYPE CK CERTIFICATE TYPE CKC X 509

CKA TOKEN CK BBOOL CK TRUE CKA PRIVATE CK BBOOL CK FALSE

\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 $\label{eq:2.107} \\ (022) \\ 107) \\ 162) \\ 145) \\ 141) \\ 164) \\ 145) \\ 162) \\ 040) \\ 115) \\ 141) \\ 156) \\ 143) \\ 150) \\ 145) \\ 163) \\ 1$ \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 $\label{eq:1031171151151151164145} \\ 1031101040114151155151164145$ \144\061\053\060\051\006\003\125\004\003\023\042\103\117\115\117 $\label{eq:104} $$ 104\103\145\162\164\151\146\151\143\141$$ $\label{eq:164} $$ 164\15\164\150\157\162\151\164\171\060\202 $$$ \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 $\label{eq:247} $$ 247\075\343\260\004\141\356\377\021\227\307\364\206\076\012\372\$ \076\134\371\223\346\064\172\331\024\153\347\234\263\205\240\202 $\label{eq:172} $$ 166\257\161\220\327\354\375\015\372\234\154\372\337\260\202 $$$ \364\024\176\371\276\304\246\057\117\177\231\177\265\374\147\103 \162\275\014\000\326\211\353\153\054\323\355\217\230\034\024\253 $\label{eq:176} $$ 176 345 343 156 374 330 250 344 222 044 332 103 153 142 270 125 $$$ \375\352\301\274\154\266\213\363\016\215\232\344\233\154\151\231 \370\170\110\060\105\325\255\341\015\074\105\140\374\062\226\121 \047\274\147\303\312\056\266\153\352\106\307\307\040\240\261\037 \145\336\110\010\272\244\116\251\362\203\106\067\204\353\350\314 $\label{eq:201110} \end{tabular} 103\147\116\162\052\233\134\275\114\033\050\212\134\042$ \173\264\253\230\331\356\340\121\203\303\011\106\116\155\076\231 \372\225\027\332\174\063\127\101\074\215\121\355\013\266\134\257 \243\132\044\264\272\251\126\075\317\157\252\377\111\130\276\360 \250\377\364\270\255\351\067\373\272\270\364\013\072\371\350\103 \126\254\024\035\234\012\347\161\353\317\016\335\075\251\226\241 \110\275\074\367\257\265\015\042\114\300\021\201\354\126\073\366 \323\242\342\133\267\262\004\042\122\225\200\223\151\350\216\114 $\label{eq:145} $$ 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 \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 \113\106\143\376\000\064\100\160\301\303\271\241\335\246\160\342 $\label{eq:263} \\ 101 \\ 274 \\ 351 \\ 200 \\ 221 \\ 352 \\ 144 \\ 234 \\ 172 \\ 341 \\ 042 \\ 003 \\ 251 \\ 234 \\ 1234$ \156\157\016\145\117\154\207\207\136\363\156\240\371\165\245\233 \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_DISTRUST_AFTER CK_BBOOL CK_FALSE

CKA_NSS_EMAIL_DISTRUST_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):

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 $\label{eq:2.103} \\ 003 \\ 125 \\ 004 \\ 003 \\ 023 \\ 042 \\ 103 \\ 117 \\ 115 \\ 117 \\ 104 \\ 117 \\ 040 \\ 122 \\ 123 \\ 101 \\ 104 \\ 117 \\ 040 \\ 122 \\ 123 \\ 101 \\ 104 \\ 117 \\ 104 \\ 104 \\ 100 \\ 102 \\ 100$ \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

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): 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

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

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

\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 \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 $\label{eq:164} \\ 151 \\ 146 \\ 151 \\ 143 \\ 141 \\ 164 \\ 151 \\ 157 \\ 156 \\ 040 \\ 101 \\ 165 \\ 164 \\ 150 \\ 157 \\ 157 \\ 156 \\ 040 \\ 101 \\ 165 \\ 164 \\ 150 \\ 157 \\ 157 \\ 156 \\ 040 \\ 101 \\ 165 \\ 164 \\ 150 \\ 157 \\ 157 \\ 156 \\ 164 \\ 151 \\ 157 \\ 156 \\ 164 \\ 151 \\ 157 \\ 156 \\ 164 \\ 151 \\ 157 \\ 156 \\ 164 \\ 151 \\ 157 \\ 156 \\ 164 \\ 151 \\ 157 \\ 156 \\ 164 \\ 151 \\ 157 \\ 156 \\ 164 \\ 151 \\ 157 \\ 156 \\ 164 \\ 151 \\ 157 \\ 156 \\ 164 \\ 151 \\ 157 \\ 156 \\ 164 \\ 151 \\ 157 \\ 156 \\ 164 \\ 151 \\ 157 \\ 156 \\ 164 \\ 151 \\ 157 \\ 156 \\ 164 \\ 151 \\ 157 \\ 157 \\ 156 \\ 164 \\ 151 \\ 157 \\ 157 \\ 156 \\ 164 \\ 151 \\ 157 \\ 157 \\ 156 \\ 164 \\ 151 \\ 157 \\ 157 \\ 156 \\ 164 \\ 151 \\ 157 \\ 157 \\ 156 \\ 164 \\ 151 \\ 157 \\ 157 \\ 156 \\ 164 \\ 151 \\ 157 \\ 157 \\ 156 \\ 164 \\ 151 \\ 157 \\ 157 \\ 156 \\ 164 \\ 157 \\ 157 \\ 157 \\ 156 \\ 164 \\ 157 \\ 157 \\ 157 \\ 156 \\ 157 \\$ \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 $\label{eq:115}011\\055\\144\\011\\334\\316\\211\\237\\314\\075\\251\\354\\366\\317\\301$ \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 \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 $\label{eq:235} 030 \\ 275 \\ 121 \\ 216 \\ 065 \\ 246 \\ 247 \\ 146 \\ 310 \\ 162 \\ 147 \\ 333 \\ 041 \\ 146 \\ 146 \\ 146 \\ 147 \\ 333 \\ 041 \\ 146 \\ 146 \\ 146 \\ 147 \\ 146 \\ 146 \\ 147 \\ 146 \\ 1$ \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 $\label{eq:1014} $$ 014\320\151\017\033\017\363\045\046\153\063\155\367\156\107\372 $$$ \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 $\label{eq:142} $$ 146\317\045\210\315\204\270\261\077\244\071\017\331\$ \002\236\353\022\114\225\174\363\153\005\251\136\026\203\314\270 \147\342\350\023\235\314\133\202\323\114\263\355\133\377\336\345 $\label{eq:254} $$ 163\254\043\073\055\000\277\065\125\164\011\111\330\111\130\032 $$$ $\label{eq:22} $$ 177\222\066\346\121\222\016\363\046\175\034\115\027\274\311\354\$ \102\056\103\032\114\264\360\045\107\131\372\004\036\223\324\046 $\label{eq:106} $$ 106 112 120 201 262 336 276 170 267 374 147 025 341 311 127 204 $$$ \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 \122\237\313\370\317\231\006\177\033\332\103\025\237\236\002\125 $\label{eq:226} $$ 127\226\024\361\122\074\047\207\224\050\355\037\072\001\067\242 $$$ \166\374\123\120\300\204\233\306\153\116\272\214\041\117\242\216 $\label{eq:125} $$ 125\142\221\363\151\025\330\274\210\343\304\252\013\375\357\250\$ \351\113\125\052\006\040\155\125\170\051\031\356\137\060\134\113 \044\021\125\377\044\232\156\136\052\053\356\013\115\237\177\367 $\label{eq:2.1} \end{tabular} \end{tabular}$ \240\232\136\247\230\152\131\155\213\077\010\373\310\321\105\257 \030\025\144\220\022\017\163\050\056\305\342\044\116\374\130\354 \360\364\105\376\042\263\353\057\216\322\331\105\141\005\301\227 $\label{eq:257} $$ 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 \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 \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_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA_NSS_EMAIL_DISTRUST_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):

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

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

END

CKA_SERIAL_NUMBER

MULTILINE_OCTAL

 $\label{eq:2020} \end{tabular} \end{tabular$

\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 $\label{eq:2.1} \end{tabular} \end{tabular}$ \145\162\163\145\171\061\024\060\022\006\003\125\004\007\023\013 $\label{eq:2.12} \\ 003 \\ 125 \\ 004 \\ 012 \\ 023 \\ 025 \\ 124 \\ 150 \\ 145 \\ 040 \\ 125 \\ 123 \\ 105 \\ 122 \\ 124 \\ 124$ \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 $\label{eq:2.1} \end{tabular} \end{tabular}$ \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 $\label{eq:2.12} \\ 003 \\ 125 \\ 004 \\ 012 \\ 023 \\ 025 \\ 124 \\ 150 \\ 145 \\ 040 \\ 125 \\ 123 \\ 105 \\ 122 \\ 124 \\ 124$ \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 \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

Open Source Used In vmoperator Crafton-3.0 805

 $\label{eq:111} $$ 171040103151164171061036060034006003125004012023 \\ 025124150145040125123105122124122125123124040116 \\ 145164167157162153061056060054006003125004003023 \\ \end{tabular}$

\045\125\123\105\122\124\162\165\163\164\040\105\103\103\040\103 $\label{eq:145} $$ 145\151\143\141\164\151\157\156\040\101\165\164\$ \150\157\162\151\164\171\060\036\027\015\061\060\060\062\060\061 \060\060\060\060\060\060\132\027\015\063\070\060\061\061\070\062 \063\065\071\065\071\132\060\201\210\061\013\060\011\006\003\125 \004\006\023\002\125\123\061\023\060\021\006\003\125\004\010\023 \012\116\145\167\040\112\145\162\163\145\171\061\024\060\022\006 \003\125\004\007\023\013\112\145\162\163\145\171\040\103\151\164 \171\061\036\060\034\006\003\125\004\012\023\025\124\150\145\040 $\label{eq:125} $$ 123\105\122\124\122\125\123\124\040\116\145\164\167\157\162 $$$ $\label{eq:151} $$ 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 \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 $\label{eq:243} \\ (060) \\ 243) \\ 264) \\ 160) \\ 342) \\ 307) \\ 241) \\ 063) \\ 234) \\ 363) \\ 277) \\ 056) \\ 134) \\ 123) \\ 261) \\ 137$ \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\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 $\label{eq:104} $$ 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_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA_NSS_EMAIL_DISTRUST_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 $\label{eq:2.1} \end{tabular} \end{tabular}$ \145\162\163\145\171\061\024\060\022\006\003\125\004\007\023\013 $\label{eq:112145163163145171040103151164171061036060034006} \label{eq:1121451631631631640103151164171061036060034006}$ \125\123\124\040\116\145\164\167\157\162\153\061\056\060\054\006 \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

Open Source Used In vmoperator Crafton-3.0 808

\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\060\132\027 $\label{eq:12} \end{tabular} \end{tabular}$ \101\040\055\040\122\065\061\023\060\021\006\003\125\004\012\023 $\label{eq:1012107154157142141154123151147156061023060021006} \\$ \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 $\label{eq:105} $$ 105 324 130 372 321 167 155 103 242 300 207 145 064 012 037 172 $$$

\060\120\061\044\060\042\006\003\125\004\013\023\033\107\154\157 $\label{eq:142} $$ 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 \021\006\003\125\004\003\023\012\107\154\157\142\141\154\123\151 \147\156 END

\002\021\140\131\111\340\046\056\273\125\371\012\167\212\161\371

CKA SERIAL NUMBER MULTILINE OCTAL

CKA CERTIFICATE TYPE CK CERTIFICATE TYPE CKC X 509

\060\120\061\044\060\042\006\003\125\004\013\023\033\107\154\157 $\label{eq:142} $$ 142\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 $\label{eq:2.1} \end{tabular} \end{tabular}$

END CKA ID

\147\156

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 SUBJECT MULTILINE OCTAL

CKA ISSUER MULTILINE OCTAL

UTF8 "0"

\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\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 $\label{eq:22} \end{tabular} \end{tabular}$ \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 $\label{eq:141} $$ 142\153\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

 $\label{eq:2.1} \end{tabular} $$ \036\003\125\004\012\014\025\123\164\141\141\164\040 $$$

 $\label{eq:144} $$ 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

 $\label{eq:144} $$ 145\162\040\116\145\144\145\162\154\141\156\144\145\156\040$

 $\label{eq:122} $$ 157\157\164\040\103\101\040\055\040\107\063$

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

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 \156\061\053\060\051\006\003\125\004\003\014\042\123\164\141\141 \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 $\label{eq:2.123} \\ 006 \\ 003 \\ 125 \\ 004 \\ 012 \\ 014 \\ 025 \\ 123 \\ 164 \\ 141 \\ 141 \\ 164 \\ 040 \\ 144 \\ 145 \\ 145 \\ 145 \\ 141 \\ 141 \\ 164 \\ 040 \\ 144 \\ 145$ \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 \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 $\label{eq:2.1} \end{tabular} \end{tabular}$ \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 $\label{eq:154} $$ 11073 161 301 325 210 265 145 274 300 350 027 027 007 022 $$$

\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 \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 \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 $\label{eq:2.14} $$ 314\160\311\171\200\370\376\114\367\065\204\031\212\061\373\012 $$$ \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 $\label{eq:225} $$ 325 131 242 211 164 323 237 276 036 113 327 306 155 267 210 044 $$$ \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_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA_NSS_EMAIL_DISTRUST_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

 $\label{eq:linear} $$ 060\13\006\01\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$

 $\label{eq:144} $$ 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

 $\label{eq:144} $$ 144\145\162\154\141\156\144\145\156\040$

105126040122157157164040103101

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

 $\label{eq:starter} $$ $ 1060 \ 130 \ 061 \ 013 \ 060 \ 011 \ 006 \ 003 \ 125 \ 004 \ 006 \ 023 \ 002 \ 116 \ 114 \ 061 \ 036 \ 060 \ 034 \ 006 \ 003 \ 125 \ 004 \ 012 \ 014 \ 025 \ 123 \ 164 \ 141 \ 141 \ 164 \ 040 \ 144 \ 145 \ 162 \ 040 \ 116 \ 145 \ 162 \ 154 \ 141 \ 156 \ 164 \ 145 \ 156 \ 061 \ 051 \ 060 \ 003 \ 125 \ 004 \ 003 \ 014 \ 040 \ 123 \ 164 \ 141 \ 141 \ 164 \ 040 \ 144 \ 145 \ 162 \ 040 \ 116 \ 145 \ 162 \ 154 \ 141 \ 156 \ 144 \ 145 \ 156 \ 040 \ 144 \ 145 \ 156 \ 040 \ 105 \ 126 \ 040 \ 122 \ 157 \ 157 \ 164 \ 040 \ 103 \ 101 $$$

END

CKA_SERIAL_NUMBER

MULTILINE_OCTAL

\002\004\000\230\226\215

END

CKA_VALUE MULTILINE_OCTAL

\003\125\004\003\014\040\123\164\141\141\164\040\144\145\162\040 $\label{eq:116} \\ 145\\144\\145\\156\\040\\105\\126\\040\\122$ \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 $\label{eq:203} \\ 063 \\ 203 \\ 065 \\ 054 \\ 151 \\ 354 \\ 334 \\ 011 \\ 244 \\ 343 \\ 121 \\ 250 \\ 045 \\ 053 \\ 171 \\ 270 \\ 1270 \\$ $\label{eq:244} $$ 010\075\340\221\272\204\205\306\205\244\312\346\311\056\123\244$ \311\044\036\375\125\146\161\135\054\305\140\150\004\267\331\302 \122\046\070\210\244\326\073\100\246\302\315\077\315\230\223\263 \124\024\130\226\125\325\120\376\206\255\244\143\177\134\207\366 \216\346\047\222\147\027\222\002\003\054\334\326\146\164\355\335 $\label{eq:147} $$ 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 $\label{eq:20} \end{tabular} \end{tabular}$ \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 $\label{eq:224} \end{tabular} \label{eq:224} \end{tabular} \end{tabular} \label{eq:224} \end{tabular} \label{eq:224} \end{tabular} \end{tabul$ \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 \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 $\label{eq:2.1} \end{tabular} \end{tabular}$ \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 \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 $\label{eq:160} $$ 160\125\162\062\371\064\253\053\111\265\315\040\142\344\072\172\$ $\label{eq:147} $$ 143 253 226 334 155 256 227 354 374 237 166 126 210 056 146 $$$ \317\133\266\311\244\260\327\005\272\341\047\057\223\273\046\052 \242\223\260\033\363\216\276\035\100\243\271\066\217\076\202\032 \032\136\210\352\120\370\131\342\203\106\051\013\343\104\134\341 \225\266\151\220\232\024\157\227\256\201\317\150\357\231\232\276 $\label{eq:265} $$ 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 \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_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA_NSS_EMAIL_DISTRUST_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 $\label{eq:144} \\ 145\\162\\040\\116\\145\\144\\145\\162\\154\\141\\156\\144\\145\\156\\061$ \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 105126040122157157164040103101END 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 141154040122157157164040103101040061**END**

CKA ID UTF8 "0"

END

\000\002 **END**

CKA ISSUER MULTILINE OCTAL \060\112\061\013\060\011\006\003\125\004\006\023\002\125\123\061

\141\154\040\122\157\157\164\040\103\101\040\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

\002\020\012\001\102\200\000\000\001\105\043\310\104\265\000\000

\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 \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

CKA_SERIAL_NUMBER MULTILINE OCTAL

CKA_VALUE MULTILINE_OCTAL

\045\006\003\125\004\003\023\036\111\144\145\156\124\162\165\163 \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 $\label{eq:106} $$ 106\361\157\121\141\202\262\251\117\217\147\211\135\204\331\123 $$$ \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 $\label{eq:113} \\ 111 \\ 170 \\ 074 \\ 223 \\ 140 \\ 210 \\ 042 \\ 374 \\ 231 \\ 332 \\ 066 \\ 310 \\ 302 \\ 242 \\ 324 \\$ \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 \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 **Open Source Used In vmoperator Crafton-3.0 818**

\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 $\label{eq:164} $$ 164\174\325\131\207\302\077\116\014\134\122\364\075\367\122\202\$ \361\352\243\254\375\111\064\032\050\363\101\210\072\023\356\350 \336\377\231\035\137\272\313\350\036\362\271\120\140\300\061\323 $\label{eq:163} $$ 163 345 357 276 240 355 63 013 164 276 040 040 304 147 154 360 $$$ \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 $\label{eq:173} 377 \\ 061 \\ 360 \\ 163 \\ 075 \\ 075 \\ 224 \\ 052 \\ 261 \\ 013 \\ 101 \\ 016 \\ 240 \\ 376 \\ 115 \\ 115 \\ 101 \\ 016 \\ 240 \\ 376 \\ 115 \\ 101 \\ 1$ \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_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA NSS EMAIL DISTRUST 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 \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 $\label{eq:141} $$ 141\154\040\122\157\157\164\040\103\101\040\061 $$ 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):

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

 $\label{eq:22} \end{tabular} \end{tabular}$

\145\156\124\162\165\163\164\040\120\165\142\154\151\143\040\123

\145\143\164\157\162\040\122\157\164\040\103\101\040\061

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

 $\label{eq:sphere:sphe$

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

\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 \061\052\060\050\006\003\125\004\003\023\041\111\144\145\156\124 \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 $\label{eq:266} \end{tabular} 102 \end{tabular} 102 \end{tabular} 103 \end{tabular} 125 \end{tabular} 130 \end{tabular} 273 \end{tabular} 172 \end{tabular} 370 \end{tabular} 274 \end{tabular} 145 \end{tabular} 175 \end{tabular}$ \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 $\label{eq:174} $$ 175 055 041 325 000 277 001 147 242 136 173 246 134 362 $$$ \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 $\label{eq:131} $$ 131\241\107\124\051\056\203\050\137\034\302\242\253\162\027\000 $$$ \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 $\label{eq:221} 070 \\ 255 \\ 115 \\ 135 \\ 367 \\ 345 \\ 016 \\ 227 \\ 124 \\ 031 \\ 202 \\ 110 \\ 207 \\ 124 \\ 214 \\ 214 \\ 207 \\ 124 \\ 214 \\ 207 \\ 124 \\ 214 \\ 207 \\ 124 \\ 214 \\ 207 \\ 124 \\ 124 \\ 1$

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 "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 $\label{eq: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

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 \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 $\label{eq: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

END

002004112123214050

MULTILINE OCTAL

CKA SERIAL NUMBER

END

\062

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 \157\156\040\101\165\164\150\157\162\151\164\171\040\055\040\107

UTF8 "0"

CKA ID

END

\062

\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 \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

\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 $\label{eq:150} $$ 150\157\162\151\172\145\144\040\165\163\145\040\157\156\154\171\$ \061\062\060\060\006\003\125\004\003\023\051\105\156\164\162\165 $\label{eq:163} \\ 163 \\ 164 \\ 040 \\ 122 \\ 157 \\ 157 \\ 164 \\ 040 \\ 103 \\ 145 \\ 162 \\ 164 \\ 151 \\ 146 \\ 151 \\ 143 \\ 143 \\ 145 \\ 162 \\ 164 \\ 151 \\ 146 \\ 151 \\ 143 \\ 145 \\ 164 \\ 151 \\ 146 \\ 151 \\ 143 \\ 145 \\ 162 \\ 164 \\ 151 \\ 146 \\ 151 \\ 143 \\ 145 \\ 162 \\ 164 \\ 151 \\ 146 \\ 151 \\ 143 \\ 145 \\ 162 \\ 164 \\ 151 \\ 146 \\ 151 \\ 143 \\ 145 \\ 162 \\ 164 \\ 151 \\ 146 \\ 151 \\ 143 \\ 145 \\ 162 \\ 164 \\ 151 \\ 146 \\ 151 \\ 143 \\ 145 \\ 162 \\ 164 \\ 151 \\ 146 \\ 151 \\ 143 \\ 145 \\ 162 \\ 164 \\ 151 \\ 146 \\ 151 \\ 143 \\ 145 \\ 162 \\ 164 \\ 151 \\ 146 \\ 151 \\ 143 \\ 145 \\ 164 \\ 151 \\ 146 \\ 151 \\ 143 \\ 145 \\ 164 \\ 151 \\ 146 \\ 151 \\ 143 \\ 145 \\ 164 \\ 151 \\ 145 \\ 164 \\ 151 \\ 145 \\ 164 \\ 151 \\ 145 \\ 164 \\ 151 \\ 145 \\ 164 \\ 151 \\ 145 \\ 164 \\ 151 \\ 145 \\ 164 \\ 151 \\ 145 \\ 151 \\ 145 \\ 151 \\ 145 \\ 151 \\ 145 \\ 151 \\ 145 \\ 151 \\ 145 \\ 151 \\ 145 \\ 151 \\ 145 \\ 151 \\ 145 \\ 151 \\ 145 \\ 151 \\ 151 \\ 145 \\ 151 \\$ $\label{eq:141} $$ 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 \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 $\label{eq:123} \end{tabular} $$ 123\137\234\076\364\027\054\346\151\254\116\062\114\142\167\352 $$$ \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_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA_NSS_EMAIL_DISTRUST_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

 $\label{eq:214} $$ $$ 171 014 072 321 146 006 215 350 036 127 357 273 $$$

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

\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:79:29:00:00:00:00:50: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

```
\label{eq:12} \end{tabular} \label{eq:13} \end{tabular} \label{eq:14} \end{tabular} \label{eq:14} \end{tabular} \label{eq:14} \end{tabular} \label{eq:14} \label{eq:16} \label{eq:16}
```

\006\003\125\004\013\023\060\050\143\051\040\062\060\061\062\040

CKA VALUE

END

CKA SERIAL NUMBER MULTILINE OCTAL \002\015\000\246\213\171\051\000\000\000\000\120\320\221\371

\103\061 **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 $\label{eq:163} \\ 163 \\ 164 \\ 056 \\ 156 \\ 145 \\ 164 \\ 057 \\ 154 \\ 145 \\ 147 \\ 141 \\ 154 \\ 055 \\ 164 \\ 145 \\ 162 \\ 162 \\ 164 \\ 145 \\ 162 \\ 164 \\ 145 \\ 164 \\$ \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 \061\006\003\125\004\003\023\052\105\156\164\162\165\163\164\040 \157\156\040\101\165\164\150\157\162\151\164\171\040\055\040\105

CKA ID UTF8 "0"

END

\103\061

\157\156\040\101\165\164\150\157\162\151\164\171\040\055\040\105

\105\156\164\162\165\163\164\054\040\111\156\143\056\040\055\040 $\label{eq:163} \\ 145 \\ 040 \\ 157 \\ 156 \\ 154 \\ 171 \\ 061 \\ 063 \\ 060 \\ 061 \\ 006 \\ 003 \\ 125 \\ 004 \\ 003 \\ 004 \\ 004 \\$ \023\052\105\156\164\162\165\163\164\040\122\157\157\164\040\103 \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 $\label{eq:2.1} \end{tabular} \end{tabular}$ \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 $\label{eq:223} \\ 007 \\ 044 \\ 047 \\ 241 \\ 240 \\ 370 \\ 325 \\ 107 \\ 031 \\ 141 \\ 114 \\ 175 \\ 312 \\ 223 \\ 047 \\ 352 \\ 352 \\ 107 \\ 031 \\ 141 \\ 114 \\ 175 \\ 312 \\ 223 \\ 047 \\ 352 \\ 107 \\ 107 \\ 107 \\ 1031 \\ 107 \\ 1031 \\ 107$ $\label{eq:164} $$ 164 014 357 157 226 011 376 143 354 160 135 066 255 147 167 256 $$$ \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\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 $\label{eq:24} \end{tabular} \end{tabular}$ \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 \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:79:29:00:00:00:00:50: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

(555)(024)2(END

CKA_CERT_MD5_HASH MULTILINE_OCTAL

 $\label{eq:266} $$ \ 176\ 035\ 360\ 130\ 305\ 111\ 154\ 044\ 073\ 075\ 355\ 230\ 030\ 355\ 274 \\ END$

CKA_ISSUER MULTILINE_OCTAL

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_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 $\label{eq:151} $$ 151\143\141\164\151\157\156\040\101\165\164\150\157\162 $$ \151\164\171\061\025\060\023\006\003\125\004\003\014\014\103\106 $\label{eq:103101040105126040122117117124060036027015061062} \\$ \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 $\label{eq:151} 141 154 040 103 145 162 164 151 146 151 143 141 164 151 157$ \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 \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

END

\002\004\030\112\314\326

MULTILINE_OCTAL

CKA_SERIAL_NUMBER

END

 $040\105\126\040\122\117\117\124$

CKA ID UTF8 "0"

END

 $\label{eq:constraint} $$ 040\105\126\040\122\117\117\124$$

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

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

\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 $\label{eq:224} $$ 022\224\177\337\314\046\236\361\162\135\120\145\131\217\151\263$ \207\136\062\157\303\030\212\265\225\217\260\172\067\336\132\105 \073\307\066\341\357\147\321\071\323\227\133\163\142\031\110\055 \207\034\006\373\164\230\040\111\163\360\005\322\033\261\240\243 \267\033\160\323\210\151\271\132\326\070\364\142\334\045\213\170 \153\335\365\015\364\202\267\364\262\146\056\020\050\366\227\132 \173\226\026\217\001\031\055\154\156\177\071\130\006\144\203\001 \203\203\303\115\222\335\062\306\207\244\067\351\026\316\252\055 $\label{eq:257} $$ 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 $\label{eq:234} $$ $$ 234 $$ 004 $$ 004 $$ 004 $$ 223 $$ 2332 $$ 012 $$ 231 $$ 042 $$ 140 $$ 152 $$ 143 $$ 140 $$ 160 $$$ \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 $\label{eq:2.164} $$ 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 \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 $\label{eq:110} \label{eq:110} \label{eq:1100} \label{eq:110} \la$ \000\012\000\013\021\225\332\126\105\003\210\012\237\147\320\325 $\label{eq:171} $$ 171\261\250\215\100\155\015\302\172\100\372\363\137\144\107\222 $$ \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_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA_NSS_EMAIL_DISTRUST_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

 $\label{eq:106} \end{tabular} 106 \end{tabular} 151 \end{tabular}$ $\label{eq:151} $$ 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 04010512604012211717124**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 $\label{eq:105} \end{tabular} 105 \end{tabular}$ \157\162\163\145\144\061\050\060\046\006\003\125\004\003\023\037 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 \157\162\163\145\144\061\050\060\046\006\003\125\004\003\023\037

 $\label{eq:117} $$ 111 123 124 105 040 127 111 123 145 113 145 171 040 107 154 $$$ $\label{eq:157} $$ 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 $\label{eq:106} \end{tabular} 106 \end{tabular} 157 \end{tabular} 156 \end{tabular} 157 \end{tabular}$ \163\145\144\061\050\060\046\006\003\125\004\003\023\037\117\111 $\label{eq:123} 124 105 040 127 111 123 145 113 145 171 040 107 154 157 142$ \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 \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 \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 $\label{eq:161130} $$ 161130\\ 227175\\ 256067\\ 024257\\ 076347\\ 367232\\ 342175\\ 366161$ \230\231\004\252\103\164\170\243\343\111\141\076\163\214\115\224 \340\371\161\304\266\026\016\123\170\037\326\242\207\057\002\071 $\label{eq:201} $$ $$ 201 051 074 257 025 230 041 060 376 050 220 000 214 321 341 313 $$$ \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 \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 $\label{eq:150} $$ 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 \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 065255201307116161272210023

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 "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

 $\label{eq:1017} $$ 017 371 100 166 030 323 327 152 113 230 360 250 065 236 014 375 $$ 017 371 100 166 030 323 327 152 113 230 360 250 065 236 014 375 $$ 017 371 100 166 030 323 327 152 113 230 360 250 065 236 014 375 $$ 017 371 100 166 030 323 327 152 113 230 360 250 065 236 014 375 $$ 017 371 100 166 030 323 327 152 113 230 360 250 065 236 014 375 $$ 017 371 100 166 030 323 327 152 113 230 360 250 065 236 014 375 $$ 017 371 100 166 030 323 327 152 113 230 360 250 065 236 014 375 $$ 017 371 100 166 030 323 327 152 113 230 360 250 065 236 014 375 $$ 017 371 100 166 030 323 327 152 113 230 360 250 065 236 014 375 $$ 017 371 100 166 030 323 327 152 113 230 360 250 065 236 014 375 $$ 017 371 100 166 030 375 $$ 017 371 100 166 030 375 $$ 017 371 100 166 030 375 $$ 017 371 100 166 030 375 $$ 017 371 100 166 030 375 $$ 017 371 100 166 030 375 $$ 017 371 100 166 030 375 $$ 017 371 100 166 030 375 $$ 017 371 100 166 030 375 $$ 017 371 100 166 030 375 $$ 017 371 100 166 030 375 $$ 017 371 100 1$

047 254 314 355

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL

END

CKA_ISSUER MULTILINE_OCTAL

 $\label{eq:starter} $$ $ 1060 155 061 013 060 011 006 003 125 004 006 023 002 103 110 061 020 060 016 006 003 125 004 012 023 007 127 111 123 145 113 145 171 061 042 060 040 006 003 125 004 013 023 031 117 111 123 124 105 040 106 157 165 156 144 141 164 151 157 156 040 105 156 144 157 162 163 145 144 061 050 060 046 006 003 125 004 003 023 037 117 111 123 124 105 040 127 111 123 145 113 145 171 040 107 154 157 142 141 154 040 122 157 157 164 040 107 102 040 103 101 $$$

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

\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

 $\label{eq:2.1} \end{tabular} \end{tabular}$

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 $\label{eq:157} $$ 167\141\040\111\172\142\141\040\122\157\172\154\151\143\172$ \145\156\151\157\167\141\040\123\056\101\056\061\030\060\026\006 \124\040\103\101\062\060\036\027\015\061\065\061\060\061\071\060 \067\064\063\063\060\132\027\015\063\065\061\060\061\071\060\067 \064\063\063\060\132\060\121\061\013\060\011\006\003\125\004\006 \023\002\120\114\061\050\060\046\006\003\125\004\012\014\037\113 $\label{eq:162} $$ 162\141\152\157\167\141\040\111\172\142\141\040\122\157\172\154\$ \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\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\274\076\120\250\113\315 \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 \014\326\130\343\347\364\052\030\235\332\321\256\046\356\353\123 \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 $\label{eq:26} \end{tabular} \end{tabular}$ \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 \134\152\000\310\074\070\216\130\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\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 $\label{eq:231} $$ 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 $\label{eq:2.1} \end{tabular} \end{tabular}$ **END**

CKA_ISSUER MULTILINE_OCTAL

END

CKA_SERIAL_NUMBER

MULTILINE_OCTAL

 $\label{eq:2.12} \end{tabular} \end{tabular$

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

```
\label{eq:201} $$ 060\201\200\061\013\060\011\006\003\125\004\006\023\002\120\114
```

 $\label{eq:164} $$ 164\157\040\124\145\143\150\156\157\154\157\147\151\145\163\040 $$$

\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

101040062

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 \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\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\060\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 $\label{eq:146} \label{151} 143 \label{151} \label{151} 157 \label{150} \label{151} 157 \label{150} \label{151} 157 \label{150} \label{151} 157 \label{151} 157 \label{151} \label{151} \label{151} 157 \label{151} \labe$ \164\171\061\044\060\042\006\003\125\004\003\023\033\103\145\162 \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

END

\215\351

MULTILINE_OCTAL \002\020\041\326\320\112\117\045\017\311\062\067\374\252\136\022

CKA_SERIAL_NUMBER

END

101040062

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

END

CKA ID UTF8 "0"

\051\311\342\065\007\353\160\115\112\326\301\263\126\270\241\101 \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 \342\221\050\211\271\300\133\371\035\331\347\047\255\377\232\002 \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 \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 \211\324\076\336\116\047\260\360\100\014\274\115\027\313\115\242 \263\036\320\006\132\335\366\223\317\127\165\231\365\372\206\032 $\label{eq:147} $$ 147\170\263\277\226\376\064\334\275\347\122\126\345\263\345\165\$ \173\327\101\221\005\334\135\151\343\225\015\103\271\374\203\226 $\label{eq:2.1} $$ 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 \102\000\244\370\326\376\060\056\307\322\106\366\345\216\165\375 \362\314\271\320\207\133\314\006\020\140\273\203\065\267\136\147 \336\107\354\231\110\361\244\241\025\376\255\214\142\216\071\125 \117\071\026\271\261\143\235\377\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\266\241 \124\071\002\303\240\077\216\212\274\372\324\370\034\246\321\072 \016\375\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\161\245\016\316\344\351\277\077\070\325 \211\132\304\002\141\373\114\305\024\027\055\213\117\123\153\020 \027\374\145\204\307\020\111\220\336\333\307\046\223\210\046\157 \160\326\002\136\071\240\367\217\253\226\265\245\023\134\201\024 \155\016\201\202\021\033\212\116\306\117\245\335\142\036\104\337 \011\131\364\133\167\013\067\351\213\040\306\370\012\116\056\130 \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 \220\003\126\221\347\257\272\107\324\022\227\021\042\343\242\111 \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 \002\202\147\301\071\333\303\164\113\075\066\036\371\051\223\210 \150\133\250\104\031\041\360\247\350\201\015\054\350\223\066\264 \067\262\312\260\033\046\172\232\045\037\232\232\200\236\113\052 \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 \251\271\310\161\270\357\150\314\055\176\365\340\176\017\202\250 $\label{eq:2.154} $$ 157\266\272\154\203\103\167\315\212\222\027\241\236\133\170\026\$ \075\105\342\063\162\335\341\146\312\231\323\311\305\046\375\015 \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_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA_NSS_EMAIL_DISTRUST_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

 $\label{eq:155} $$ 106 236 331 045 155 010 043 133 136 164 175 036 047 333 362 $$$

END

CKA_ISSUER MULTILINE_OCTAL

 $\label{eq:201} $$ 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 \123\056\101\056\061\047\060\045\006\003\125\004\013\023\036\103 $\label{eq:145} $$ 145\162\164\151\146\151\143\141\164\151\146\151\143\141\164\151\146\151\143\141\164\151\143\141\144\141\164\144\141\164\151\143\144\141\144\141\144\141\144\141\144\141\144\141\144\141\144\141\144\141\144\141\144\141\144\141\144\141\144\141\144\141\144\14$ $\label{eq:151} $$ 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 \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

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 \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 \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 $\label{eq:151} $$ 151\143\040\141\156\144\040\122\145\163\145\141\162\143\150\040 $$$ \164\103\101\040\062\060\061\065\060\036\027\015\061\065\060\067 \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 $\label{eq:144} $$ 155 151 143 040 141 156 144 040 122 145 163 145 141 162$ \143\150\040\111\156\163\164\151\164\165\164\151\157\156\163\040 $\label{eq:103} 145 162 164 056 040 101 165 164 150 157 162 151 164 171 061$ \100\060\076\006\003\125\004\003\023\067\110\145\154\154\145\156 $\label{eq:151} $$ 151\143\040\101\143\141\144\145\155\151\143\040\141\156\144\040 $$$

\002\001\000 END

MULTILINE_OCTAL

CKA_SERIAL_NUMBER

END

\157\164\103\101\040\062\060\061\065

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\151\157\156\163\040\122\157

CKA_ID UTF8 "0"

CKA ID

\157\164\103\101\040\062\060\061\065 END

 $\label{eq:155} $$ 151143\040141156\144\040122\145\163\145\141\162\143\150\040\111\156\163\164\151\164\151\157\156\163\040\122\157\$

\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 \001\001\005\000\003\202\002\017\000\060\202\002\012\002\202\002 \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 $\label{eq:204} $$ 324 266 204 114 120 317 150 216 250 131 256 302 047 116 202 $$$ \242\065\335\024\364\037\377\262\167\325\207\057\252\156\175\044 \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 \144\365\015\030\207\331\256\210\325\372\204\301\072\300\151\050 $\label{eq:213} $$ 055\362\015\150\121\252\343\245\167\306\244\220\016\241\067\213 $$ \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\003\002\001\006\060\035\006\003 $\label{eq:162} $$ 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 \223\026\125\334\241\014\022\240\332\141\176\017\130\130\163\144 \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 $\label{eq:124} $$ 124\216\331\015\151\342\112\364\115\164\003\377\262\167\355\225 $$$ $\label{eq:147} $$ 147\227\344\261\305\253\277\152\043\350\324\224\342\104\050\142 $$$ \304\113\342\360\330\342\051\153\032\160\176\044\141\223\173\117 \003\062\045\015\105\044\053\226\264\106\152\277\112\013\367\232 \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 \122\300\213\204\124\371\057\076\343\125\250\334\146\261\331\341 \137\330\263\214\131\064\131\244\253\117\154\273\037\030\333\165 \253\330\313\222\315\224\070\141\016\007\006\037\113\106\020\361 $\label{eq:2.15} $$ 025 $$ 073 $$ 073 $$ 073 $$ 073 $$ 0171 $$ 017 $$ 264 $$ 151 $$ 237 $$ 111 $$ 025 $$ 0171 $$ 017 $$ 264 $$ 151 $$ 237 $$ 111 $$ 025 $$ 0171 $$ 017 $$ 264 $$ 0171 $$ 0171 $$ 2071 $$ 0171 $$ 0171 $$ 2071 $$ 0171$ \227\115\367\016\126\135\300\225\152\302\066\303\033\150\311\365 \052\334\107\232\276\262\316\305\045\350\372\003\271\332\371\026 \156\221\204\365\034\050\310\374\046\314\327\034\220\126\247\137 $\label{eq:157} $$ 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 $\label{eq:172} $$ 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 \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 $\label{eq: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_VALUE MULTILINE_OCTAL

END

\002\001\000

CKA_SERIAL_NUMBER MULTILINE OCTAL

END

\103\040\122\157\157\164\103\101\040\062\060\061\065

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\154\156\151\143\040\101\143\141\144\145 \155\151\143\040\141\156\164\151\163\145\163\145\141\162\143\150 \040\111\156\163\164\151\164\151\164\151\157\156\163\040\105\103

UTF8 "0"

CKA ID

END

CKA SUBJECT MULTILINE OCTAL

\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 $\label{eq:1040} \\ 103 \\ 145 \\ 162 \\ 164 \\ 056 \\ 040 \\ 101 \\ 165 \\ 164 \\ 150 \\ 157 \\ 162 \\ 151 \\ 164 \\ 171 \\ 164$ \061\104\060\102\006\003\125\004\003\023\073\110\145\154\154\145 $\label{eq:156} \label{eq:156} \lab$ \165\164\151\157\156\163\040\105\103\040\122\157\157\164\103 \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 $\label{eq:235} $$ 057\235\101\057\012\256\065\117\164\225\262\121\144\153\215\153\$ \346\077\160\225\360\005\104\107\246\162\070\120\166\225\002\132 \216\256\050\236\371\055\116\231\357\054\110\157\114\045\051\350 $\label{eq:224} $$ 321\161\133\37\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 \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 $\label{eq:115} \\ 115 \\ 101 \\ 011 \\ 010 \\ 015 \\ 354 \\ 113 \\ 255 \\ 144 \\ 027 \\ 050 \\ 347 \\ 165 \\ 316 \\ 105 \\ 145 \\ 145 \\ 105 \\ 145 \\ 105 \\ 145 \\ 105 \\ 145 \\ 105 \\ 145 \\ 105 \\ 105 \\ 145 \\ 105 \\$ \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_DISTRUST_AFTER CK_BBOOL CK_FALSE

CKA_NSS_EMAIL_DISTRUST_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 \144\040\122\145\163\145\141\162\143\150\040\111\156\163\164\151 \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 $\label{eq: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 \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\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 $\label{eq:113} 301 212 206 161 151 112 146 146 154 217 176 074 160 277 255$ \051\042\006\363\344\300\346\200\256\342\113\217\267\231\176\224 $\label{eq:237} \\ 003 \\ 237 \\ 323 \\ 107 \\ 227 \\ 174 \\ 231 \\ 110 \\ 043 \\ 123 \\ 350 \\ 070 \\ 256 \\ 117 \\ 012 \\ 157 \\$ \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 $\label{eq:171} $$ 154\166\357\073\220\142\171\346\333\244\232\057\046\305\320\$ \020\341\016\336\331\020\216\026\373\267\367\250\367\307\345\002 \007\230\217\066\010\225\347\342\067\226\015\066\165\236\373\016 \162\261\035\233\274\003\371\111\005\330\201\335\005\264\052\326 \101\351\254\001\166\225\012\017\330\337\325\275\022\037\065\057 \050\027\154\322\230\301\250\011\144\167\156\107\067\272\316\254 $\label{eq:131} 136 150 235 177 162 326 211 305 006 101 051 076 131 076 335$ \046\365\044\311\021\247\132\243\114\100\037\106\241\231\265\247 \072\121\156\206\073\236\175\162\247\022\005\170\131\355\076\121 \170\025\013\003\217\215\320\057\005\262\076\173\112\034\113\163 \005\022\374\306\352\340\120\023\174\103\223\164\263\312\164\347 \216\037\001\010\320\060\324\133\161\066\264\007\272\301\060\060 $\label{eq:134} $$ 134\10\267\202\073\230\246\175\140\212\242\243\051\202\314\272 $$$ \275\203\004\033\242\203\003\101\241\326\005\361\033\302\266\360 $\label{eq:250} $$ $$ 250 174 206 073 106 250 110 052 210 334 166 232 166 277 037 152 $$$ \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\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 \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 $\label{eq:110} $$ 10\224\321\230\47\276\007\077\271\270\117\201\164\121\341\172 $$$ \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 $\label{eq:2.1} $$ \frac{124}{064} - \frac{167}{275} - \frac{354}{211} - \frac{351}{027} - \frac{103}{337} - \frac{333}{133} - \frac{333}{137} - \frac{33}{137} - \frac{333}{137} - \frac{33}{137} - \frac{33}{137} - \frac{33}{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\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 $\label{eq:125} 004 003 023 014 111 123 122 107 040 122 157 157 164 040 130$ \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 $\label{eq:122} $$ 122\101\11\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 $\label{eq:122101111132040106116115124055122103115} \label{eq:122101111132040106116115124055122103115}$ 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 \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 \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 $\label{eq:2.1} \end{tabular} \end{tabular}$ \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 $\label{eq:2.14} $$ 125 214 053 116 352 363 261 343 374 266 231 232 325 102 372 161 $$$ \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 $\label{eq:105174145014370262067317254017317215157371031367} \\$ \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 $\label{eq:23} \end{tabular} \label{eq:23} \end{tabular} \label{eq:23} \end{tabular} \label{eq:23} \end{tabular} \label{eq:23} \end{tabular} \end{tabular} \label{eq:23} \end{tabular} \end{tabular}$ \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_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA_NSS_EMAIL_DISTRUST_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

 $054\114\054\040$

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

 $\label{eq:122} $$ 122\101\11\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

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 \070\060\061\061\067\060\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\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

\061\031\060\027\006\003\125\004\003\023\020\101\155\141\172\157

\002\023\006\154\237\317\231\277\214\012\071\342\360\170\212\103

CKA_ISSUER MULTILINE_OCTAL

UTF8 "0" \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

\346\226\066\133\312

END

END

END

CKA ID

\156\040\122\157\157\164\040\103\101\040\061

\156\040\122\157\157\164\040\103\101\040\061

CKA SERIAL NUMBER MULTILINE OCTAL

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

CKA LABEL UTF8 "Amazon Root CA 1"

CKA TOKEN CK BBOOL CK TRUE

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

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 (SHA-256):

Not Valid Before: Tue May 26 00:00:00 2015

Not Valid After : Sun Jan 17 00:00:00 2038

CKA_PRIVATE CK_BBOOL CK_FALSE CKA_MODIFIABLE CK_BBOOL CK_FALSE

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 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 $\label{eq:2.1} \end{tabular} \end{tabular}$ \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"

 $\mathsf{CKA_CERTIFICATE_TYPE}\ \mathsf{CK_CERTIFICATE_TYPE}\ \mathsf{CKC_X_509}$

Open Source Used In vmoperator Crafton-3.0 863

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 \060\060\065\062\066\060\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 $\label{eq:133} \\ 117 \\ 343 \\ 114 \\ 350 \\ 006 \\ 066 \\ 115 \\ 314 \\ 232 \\ 254 \\ 075 \\ 014 \\ 220 \\ 053 \\ 222 \\ 254 \\ 075 \\ 014 \\ 220 \\ 053 \\ 222 \\ 254 \\ 075 \\ 014 \\ 220 \\ 053 \\ 222 \\ 254 \\ 075 \\ 014 \\ 220 \\ 053 \\ 222 \\ 254 \\ 075 \\ 014 \\ 220 \\ 053 \\ 222 \\ 254 \\ 075 \\ 014 \\ 220 \\ 053 \\ 222 \\ 254 \\ 075 \\ 014 \\ 220 \\ 053 \\ 222 \\ 254 \\ 075 \\ 014 \\ 220 \\ 053 \\ 222 \\ 254 \\ 075 \\ 014 \\ 220 \\ 053 \\ 222 \\ 254 \\ 075 \\ 014 \\ 220 \\ 053 \\ 222 \\ 254 \\ 075 \\ 014 \\ 220 \\ 053 \\ 222 \\ 055 \\ 014 \\ 220 \\ 053 \\ 222 \\ 055 \\ 014 \\ 014 \\ 220 \\ 053 \\ 222 \\ 055 \\ 014 \\ 015 \\ 014 \\ 015 \\ 014 \\ 015 \\ 014 \\ 015 \\ 014 \\ 015 \\ 014 \\ 015 \\ 014 \\ 015 \\ 014 \\ 015 \\ 014 \\ 015 \\ 015 \\ 014 \\ 015 \\$ \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

\133\046\273\212\067

\002\023\006\154\237\322\226\065\206\237\012\017\345\206\170\370

MULTILINE OCTAL

CKA SERIAL NUMBER

END

 $\label{eq:156} $$ 156\040\122\157\157\164\040\103\101\040\062 $$$

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

\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"

\060\071\061\013\060\011\006\003\125\004\006\023\002\125\123\061

CKA SUBJECT MULTILINE OCTAL

\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 \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 $\label{eq:134} $$ 134 037 373 237 275 107 353 347 111 107 225 013 116 211 042 011 $$$ \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 \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 \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 \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 $\label{eq:175} $$ 114\017\174\162\171\172\131\315\136\112\016\254\233\251\230\$ $\label{eq:163} \\ 163 \\ 171 \\ 174 \\ 264 \\ 364 \\ 314 \\ 271 \\ 270 \\ 007 \\ 014 \\ 262 \\ 164 \\ 134 \\ 270 \\ 307 \\ 157 \\$ \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

 $\label{eq:132} $$ 132\214\357\105\327\246\230\131\166\172\214\213\104\226\265\170\$

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL

 $\label{eq:10} $$ 10\345\215\316\250\102\342\172\300\052\134\174\236\046\277\146\ END $$$

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

 $\label{eq:2.1} \end{tabular} \end{tabular}$

 $\label{eq:156} $$ 156\040\122\157\157\164\040\103\101\040\063 $$$

END

CKA_ID

UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

 $\label{eq:starter} $$ $ 1060 \ 11006 \ 003 \ 125 \ 004 \ 006 \ 023 \ 002 \ 125 \ 123 \ 061 \ 017 \ 060 \ 003 \ 125 \ 004 \ 012 \ 023 \ 006 \ 101 \ 155 \ 141 \ 172 \ 157 \ 156 \ 061 \ 003 \ 027 \ 006 \ 003 \ 125 \ 004 \ 003 \ 023 \ 020 \ 101 \ 155 \ 141 \ 172 \ 157 \ 156 \ 040 \ 122 \ 157 \ 157 \ 156 \ 040 \ 103 \ 101 \ 040 \ 063 $$$

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

 $\label{eq:23} $$ $$ 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

\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 $\label{eq:2.125} \\ 003 \\ 125 \\ 004 \\ 006 \\ 023 \\ 002 \\ 125 \\ 123 \\ 061 \\ 017 \\ 060 \\ 015 \\ 006 \\ 003 \\ 125 \\ 004 \\ 003 \\ 003 \\ 125 \\ 004 \\ 003 \\ 125 \\ 004 \\ 003 \\ 125 \\ 004 \\ 003 \\ 125 \\ 004 \\ 003 \\ 003 \\ 125 \\ 004 \\ 003$ \012\023\006\101\155\141\172\157\156\061\031\060\027\006\003\125 \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 $\label{eq:142} $$ 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_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA NSS EMAIL DISTRUST 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 \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\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 \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 $\label{eq:117} $$ 117 243 123 015 376 301 212 173 113 250 173 106 113 143 260 142 $$$ \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

 $\label{eq:20} \end{tabular} \end{tabular} \label{eq:20} \end{tabular} \end{tabular}$

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

 $\label{eq:starter} $$ $ 1060\071\061\013\060\011\006\003\125\004\006\023\002\125\123\061\017\060\015\006\003\125\004\012\023\006\101\155\141\172\157\156\061\003\1060\0027\006\003\125\004\003\023\020\101\155\141\172\157\156\160\040\122\157\157\156\040\103\101\040\064 $$$

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

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

END CKA VALUE MULTILINE OCTAL \060\202\003\366\060\202\002\336\240\003\002\001\002\002\020\044 $\label{eq:2.165} $$ 057 322 011 063 367 264 152 312 320 363 230 060 $$ 057 322 011 063 367 264 152 312 320 363 230 060 $$ 057 322 011 063 367 264 152 312 320 363 230 060 $$ 057 322 011 063 367 264 152 312 320 363 230 060 $$ 057 322 011 063 367 264 152 312 320 363 230 060 $$ 057 322 011 063 367 264 152 312 320 363 230 060 $$ 057 322 011 063 367 264 152 312 320 363 230 060 $$ 057 322 011 063 367 264 152 312 320 363 230 060 $$ 057 322 011 063 367 264 152 312 320 363 230 060 $$ 057 322 011 063 367 264 152 312 320 363 230 060 $$ 057 322 011 063 367 264 152 312 320 363 230 060 $$ 057 322 011 063 367 264 152 312 320 363 230 060 $$ 057 320 060 $$ 057 322 011 063 367 264 152 312 320 363 230 060 $$ 057 320 $$ 057 320 $$ 050$ \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 $\label{eq:143} \\ 143 \\ 103 \\ 157 \\ 162 \\ 160 \\ 157 \\ 162 \\ 141 \\ 164 \\ 151 \\ 157 \\ 156 \\ 061 \\ 037 \\ 060 \\ 1037 \\ 106 \\ 100 \\ 10$ \035\006\003\125\004\013\023\026\123\171\155\141\156\164\145\143 $\label{eq:1040} \\ (040) \\ 124) \\ 162) \\ 163) \\ 164) \\ 040) \\ 116) \\ 145) \\ 164) \\ 167) \\ 157) \\ 162) \\ 153) \\ 061) \\ 105$ \060\103\006\003\125\004\003\023\074\123\171\155\141\156\164\145 $\label{eq:143} 040 103 154 141 163 163 040 061 040 120 165 142 154 151 143$ $\label{eq:120} \\ (040) \\ 120) \\ 162) \\ 151) \\ 155) \\ 141) \\ 162) \\ 171) \\ 040) \\ 103) \\ 145) \\ 162) \\ 164) \\ 151) \\ 146) \\ 151$ $\label{eq:143} \\ 141 \\ 164 \\ 151 \\ 157 \\ 156 \\ 040 \\ 101 \\ 165 \\ 164 \\ 150 \\ 157 \\ 162 \\ 151 \\ 164 \\ 171 \\ 164 \\$

\363\230

\002\020\044\062\165\362\035\057\322\011\063\367\264\152\312\320

MULTILINE OCTAL

CKA_SERIAL_NUMBER

END

\164\171\040\055\040\107\066

\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 $\label{eq:146} \\ 146 \\ 151 \\ 143 \\ 141 \\ 164 \\ 151 \\ 157 \\ 156 \\ 040 \\ 101 \\ 165 \\ 164 \\ 150 \\ 157 \\ 162 \\ 151 \\ 162 \\$

\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

CKA ID UTF8 "0" CKA ISSUER MULTILINE OCTAL

\164\171\040\055\040\107\066 **END**

 $\label{eq:146} \\ 146 \\ 151 \\ 143 \\ 141 \\ 164 \\ 151 \\ 157 \\ 156 \\ 040 \\ 101 \\ 165 \\ 164 \\ 150 \\ 157 \\ 162 \\ 151 \\ 162 \\$

\061\035\060\033\006\003\125\004\012\023\024\123\171\155\141\156 $\label{eq:164} $$ 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 \164\145\143\040\103\154\141\163\163\040\061\040\120\165\142\154

\060\201\224\061\013\060\011\006\003\125\004\006\023\002\125\123

CKA_LABEL UTF8 "Symantec Class 1 Public Primary Certification Authority - G6" CKA CERTIFICATE TYPE CK CERTIFICATE TYPE CKC X 509 CKA SUBJECT MULTILINE OCTAL

CKA MODIFIABLE

CK BBOOL CK FALSE

CKA PRIVATE CK BBOOL CK FALSE

\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 $\label{eq:123} 171 155 141 156 164 145 143 040 103 157 162 160 157 162 141$ \164\151\157\156\061\037\060\035\006\003\125\004\013\023\026\123 \164\167\157\162\153\061\105\060\103\006\003\125\004\003\023\074 \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 $\label{eq: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 \350\231\163\372\153\261\066\340\232\167\240\100\302\201\215\001 $\label{eq:307} 314 214 275 217 175 367 171 343 172 114 003 115 331 373 375$ \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 $\label{eq:101132} \\ 321334345332020237057332001115375056106174$ \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\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_DISTRUST_AFTER CK_BBOOL CK_FALSE # 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\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

 $\label{eq:121} $$ 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

\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 $\label{eq:164} $$ 143\040\103\157\162\160\157\162\141\164\151\157\156\061 $$$ \037\060\035\006\003\125\004\013\023\026\123\171\155\141\156\164 \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 164171040055040107066**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

CKA_VALUE MULTILINE_OCTAL \060\202\003\366\060\202\002\336\240\003\002\001\002\002\020\144 $\label{eq:202} $$ 202 236 374 067 036 164 135 374 227 377 227 310 261 377 101 060 $$$ \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 $\label{eq:2.1} \end{tabular} \end{tabular}$ \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 $\label{eq:1040} \\ 040 \\ 124 \\ 162 \\ 165 \\ 163 \\ 164 \\ 040 \\ 116 \\ 145 \\ 164 \\ 167 \\ 157 \\ 162 \\ 153 \\ 061 \\ 105$ \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 $\label{eq:143} \\ 143 \\ 141 \\ 164 \\ 151 \\ 157 \\ 156 \\ 040 \\ 101 \\ 165 \\ 164 \\ 150 \\ 157 \\ 162 \\ 151 \\ 164 \\ 171 \\ 164 \\ 164 \\ 164 \\ 171 \\ 164 \\$ \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 $\label{eq:123} 171 155 141 156 164 145 143 040 103 157 162 160 157 162 141$ \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 $\label{eq:103145162164151146151143141164151157156040101165} \\$ $\label{eq: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 \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

END

\377\101

 $\label{eq:22} \end{tabular} \end{tabular}$

MULTILINE OCTAL

END CKA SERIAL NUMBER

\164\171\040\055\040\107\066

\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 \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

\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 $\label{eq:243} \\ 066 \\ 243 \\ 013 \\ 055 \\ 257 \\ 143 \\ 015 \\ 035 \\ 045 \\ 177 \\ 241 \\ 156 \\ 134 \\ 142 \\ 241 \\ 215 \\ 156 \\ 134 \\ 142 \\ 241 \\ 215 \\ 156 \\ 134 \\ 142 \\ 241 \\ 215 \\ 156 \\ 134 \\ 142 \\ 241 \\ 215 \\ 156 \\ 134 \\ 142 \\ 241 \\ 215 \\ 156 \\ 134 \\ 142 \\ 241 \\ 215 \\ 156 \\ 134 \\ 142 \\ 241 \\ 215 \\ 156 \\ 134 \\ 142 \\ 241 \\ 215 \\ 156 \\$ \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\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 $\label{eq:104} $$ 104\37\034\115\277\260\060\015\006\011\052\206\110\206\367\015\$ \001\001\013\005\000\003\202\001\001\000\201\216\262\245\146\226 \267\041\245\266\357\157\043\132\137\333\201\305\102\245\170\301 $\label{eq:151} $$ 151\375\364\074\327\371\134\153\160\162\032\374\132\227\115\000$ 200\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 \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 **END** CKA NSS MOZILLA CA POLICY CK BBOOL CK TRUE CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE # 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 "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 \037\060\035\006\003\125\004\013\023\026\123\171\155\141\156\164 \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 $\label{eq:146} \label{151} 143 \label{151} \label{15$ \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

\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\061\132\027\015\062\070\060\071\062 \060\060\070\062\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

\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 $\label{eq:164} $$ 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

\040\063\040\062\060\061\063 **END** CKA ID UTF8 "0"

CKA SUBJECT MULTILINE OCTAL

CKA CERTIFICATE TYPE CK CERTIFICATE TYPE CKC X 509

CKA LABEL UTF8 "D-TRUST Root CA 3 2013"

CKA CLASS CK OBJECT CLASS CKO CERTIFICATE CKA TOKEN CK BBOOL CK TRUE

Fingerprint (SHA1): 6C:7C:CC:E7:D4:AE:51:5F:99:08:CD:3F:F6:E8:C3:78:DF:6F:EF:97

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA MODIFIABLE CK BBOOL CK FALSE

\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

 $\label{eq:164} $$ 164\040\107\155\142\110\061\037\060\035\006\003\125\004\003\014\$

 $\label{eq:2.104} \\ 026 \\ 104 \\ 055 \\ 124 \\ 122 \\ 125 \\ 123 \\ 124 \\ 040 \\ 122 \\ 157 \\ 157 \\ 164 \\ 040 \\ 103 \\ 101$

CKA_ISSUER MULTILINE_OCTAL

END

CKA SERIAL NUMBER MULTILINE OCTAL

\002\003\017\335\254

END

CKA VALUE MULTILINE OCTAL

\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 \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\003\002\001\006\060\201\276 \006\003\125\035\037\004\201\266\060\201\263\060\164\240\162\240 \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 $\label{eq:142} $$ 100054103075104105077143145162164151146151143 $$$ \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 $\label{eq:143} \\ 162 \\ 154 \\ 057 \\ 144 \\ 055 \\ 164 \\ 162 \\ 165 \\ 163 \\ 164 \\ 137 \\ 162 \\ 157 \\ 157 \\ 164 \\ 167 \\$ \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_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA_NSS_EMAIL_DISTRUST_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):

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

 $\label{eq:154} $$ 154\174\314\347\324\256\121\137\231\010\315\077\366\350\303\170 $$$

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

 $\label{eq:starter} $$ $ 1060\105\061\013\060\011\006\003\125\004\006\023\002\104\105\061\025\124\162\165\163\164\040\107\155\142\110\061\037\060\035\006\003\125\004\003\014\003\014\0026\104\055\124\122\125\123\124\040\122\157\157\164\040\103\101\040\063\040\062\060\061\063 $$$

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 $\label{eq:2.1} \end{tabular} \end{tabular}$ \040\055\040\113\157\143\141\145\154\151\061\102\060\100\006\003 $\label{eq:2.125} 004 012 023 071 124 165 162 153 151 171 145 040 102 151 154$ $\label{eq:151} $$ 153145154040166145040124145153156157154157 $$$ \152\151\153\040\101\162\141\163\164\151\162\155\141\040\113\165 $\label{eq:165} $$ 165 040 055 040 124 125 102 111 124 01 113 061 055$ \060\053\006\003\125\004\013\023\044\113\141\155\165\040\123\145 \162\164\151\146\151\153\141\163\171\157\156\040\115\145\162\153 \064\006\003\125\004\003\023\055\124\125\102\111\124\101\113\040 \113\141\155\165\040\123\115\040\123\123\114\040\113\157\153\040 $\label{eq:123} 145 162 164 151 146 151 153 141 163 151 040 055 040 123 165$ \162\165\155\040\061 END CKA_ID UTF8 "0" CKA ISSUER MULTILINE OCTAL \060\201\322\061\013\060\011\006\003\125\004\006\023\002\124\122 \061\030\060\026\006\003\125\004\007\023\017\107\145\142\172\145 \040\055\040\113\157\143\141\145\154\151\061\102\060\100\006\003 $\label{eq:151} $$ 153145154040166145040124145153156157154157 $$$ \060\053\006\003\125\004\013\023\044\113\141\155\165\040\123\145 \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 $\label{eq:123} 145 162 164 151 146 151 153 141 163 151 040 055 040 123 165$ \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 $\label{eq:2.153} \\ 004 \\ 012 \\ 023 \\ 071 \\ 124 \\ 165 \\ 162 \\ 153 \\ 151 \\ 171 \\ 145 \\ 040 \\ 102 \\ 151 \\ 154 \\ 151 \\ 154 \\ 151$ $\label{eq:155} 163 145 154 040 166 145 040 124 145 153 156 157 154 157 152$ \151\153\040\101\162\141\163\164\151\162\155\141\040\113\165\162 $\label{eq:165} $$ 165 040 055 040 124 125 102 111 124 101 113 061 055 060 $$$ \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 \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 $\label{eq:145} $$ 142\172\145\040\055\040\113\157\143\141\145\154\151\061\102$ \060\100\006\003\125\004\012\023\071\124\165\162\153\151\171\145 \040\102\151\154\151\155\163\145\154\040\166\145\040\124\145\153 \141\040\113\165\162\165\165\040\055\040\124\125\102\111\124 \101\113\061\055\060\053\006\003\125\004\013\023\044\113\141\155 \115\145\162\153\145\172\151\040\055\040\113\141\155\165\040\123 \115\061\066\060\064\006\003\125\004\003\023\055\124\125\102\111 \124\101\113\040\113\141\155\165\040\123\115\040\123\123\114\040 \113\157\153\040\123\145\162\164\151\146\151\153\141\163\151\040 \055\040\123\165\162\165\155\040\061\060\202\001\042\060\015\006 \011\052\206\110\206\367\015\001\001\001\005\000\003\202\001\017 \000\060\202\001\012\002\202\001\001\000\257\165\060\063\252\273 \233\120\225\076\220\225\126\102\327\031\174\046\204\215\222\372 \056\243\365\067\344\100\216\030\045\171\203\165\037\073\377\154 \250\305\306\126\370\264\355\212\104\243\253\154\114\374\035\320 \334\357\150\275\317\344\252\316\360\125\367\242\064\324\203\153 \067\174\034\302\376\265\003\354\127\316\274\264\265\305\355\000 \017\123\067\052\115\364\117\014\203\373\206\317\313\376\214\116 $\label{eq:275} 207 371 247 213 041 127 234 172 337 003 147 211 054 235 227$ $\label{eq:141} $$ 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 \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 $\label{eq: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 $\label{eq:2.1} \end{tabular} \end{tabular}$ \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 \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 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 \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 $\label{eq:2.1} \end{tabular} \end{tabular}$ \040\055\040\113\157\143\141\145\154\151\061\102\060\100\006\003 $\label{eq:2.125} 004 012 023 071 124 165 162 153 151 171 145 040 102 151 154$ $\label{eq:151} $$ 153145154040166145040124145153156157154157 $$$ \152\151\153\040\101\162\141\163\164\151\162\155\141\040\113\165 \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 \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: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

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 $\label{eq:107} $$ 107 125 101 116 107 040 104 117 116 107 040 103 105 122 124 111 107 040 10$ $\label{eq:103} \\ 103 \\ 117 \\ 056 \\ 054 \\ 114 \\ 124 \\ 104 \\ 056 \\ 061 \\ 037 \\ 060 \\ 035 \\ 006 \\ 003 \\ 125 \\$ $\label{eq:1004} \\ 004 \\ 003 \\ 014 \\ 026 \\ 107 \\ 104 \\ 103 \\ 101 \\ 040 \\ 124 \\ 162 \\ 165 \\ 163 \\ 164 \\ 101 \\ 125 \\ 164 \\ 101 \\ 125 \\ 164 \\ 101 \\ 125 \\ 164 \\ 101$ \124\110\040\122\065\040\122\117\117\124\060\036\027\015\061\064 \061\061\062\066\060\065\061\063\061\065\132\027\015\064\060\061 \062\063\061\061\065\065\071\065\071\132\060\142\061\013\060\011 \006\003\125\004\006\023\002\103\116\061\062\060\060\006\003\125 $\label{eq:2.101} \\ 004 \\ 012 \\ 014 \\ 051 \\ 107 \\ 125 \\ 101 \\ 116 \\ 107 \\ 040 \\ 104 \\ 117 \\ 116 \\ 107 \\ 040 \\ 103 \\ 103 \\ 104 \\ 117 \\ 116 \\ 107 \\ 040 \\ 103 \\ 103 \\ 104$ $\label{eq:122} $$ 122\11\124\131\040\103\117\056\054\114\124\104\056\061\037\060 $$$ \035\006\003\125\004\003\014\026\107\104\103\101\040\124\162\165 $\label{eq:163} $$ 164\101\125\124\10\040\122\065\040\122\117\117\124\060\202 $$$

\062\060\060\006\003\125\004\012\014\051\107\125\101\116\107\040 $\label{eq:101} \end{tabular} \end{tabular}$ \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

CKA_SERIAL_NUMBER MULTILINE_OCTAL

\002\010\175\011\227\376\360\107\352\172

END

END

\124\104\056\061\037\060\035\006\003\125\004\003\014\026\107\104 $\label{eq:103} \\ 101 \\ 040 \\ 124 \\ 162 \\ 165 \\ 163 \\ 164 \\ 101 \\ 125 \\ 124 \\ 110 \\ 040 \\ 122 \\ 065 \\ 040 \\ 040 \\ 122 \\ 065 \\ 040 \\ 040 \\ 122 \\ 065 \\ 040 \\ 040 \\ 122 \\ 065 \\ 040 \\ 040 \\ 122 \\ 065 \\ 040 \\ 040 \\ 122 \\ 065 \\ 040 \\ 040 \\ 122 \\ 065 \\ 040 \\$ \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

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 $\label{eq:101125124110117122111124131040103117056054114} \label{eq:101125124110117122111124131040103117056054114}$

CKA CERTIFICATE TYPE CK CERTIFICATE TYPE CKC X 509

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 CLASS CK OBJECT CLASS CKO CERTIFICATE

Fingerprint (SHA1): 0F:36:38:5B:81:1A:25:C3:9B:31:4E:83:CA:E9:34:66:70:CC:74:B4

\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\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 $\label{eq:256} $$ $$ 256 177 367 206 075 162 172 353 245 373 131 16 247 353 225 214 $$$ \042\071\171\341\055\010\217\314\274\221\270\101\367\024\301\043 \251\303\255\232\105\104\263\262\327\054\315\306\051\342\120\020 \256\134\313\202\216\027\030\066\175\227\346\210\232\260\115\064 \011\364\054\271\132\146\052\260\027\233\236\036\166\235\112\146 \061\101\337\077\373\305\006\357\033\266\176\032\106\066\367\144 \143\073\343\071\030\043\347\147\165\024\325\165\127\222\067\275 \276\152\033\046\120\362\066\046\006\220\305\160\001\144\155\166 \146\341\221\333\156\007\300\141\200\056\262\056\057\214\160\247 \321\073\074\263\221\344\156\266\304\073\160\362\154\222\227\011 \315\107\175\030\300\363\273\236\017\326\213\256\007\266\132\017 \072\101\165\027\314\053\226\167\052\222\041\036\331\225\166\040 $\label{eq:147} $$ 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 $\label{eq:232} $$ 040 232 357 145 144 222 020 015 052 342 336 160 361 030 147 202$ \214\141\336\270\274\321\057\234\373\017\320\053\355\033\166\271 \344\071\125\370\370\241\035\270\252\200\000\114\202\347\262\177 \011\270\274\060\240\057\015\365\122\236\216\367\222\263\012\000 \035\000\124\227\006\340\261\007\331\307\017\134\145\175\074\155 \131\127\344\355\245\215\351\100\123\237\025\113\240\161\366\032 \041\343\332\160\006\041\130\024\207\205\167\171\252\202\171\002 \003\001\000\001\243\102\060\100\060\035\006\003\125\035\016\004 \026\004\024\342\311\100\237\115\316\350\232\241\174\317\016\077 \145\305\051\210\152\031\121\060\017\006\003\125\035\023\001\001 \377\004\005\060\003\001\001\377\060\016\006\003\125\035\017\001 \001\377\004\003\002\001\206\060\015\006\011\052\206\110\206 \367\015\001\001\013\005\000\003\202\002\001\000\321\111\127\340 \247\314\150\130\272\001\017\053\031\315\215\260\141\105\254\021 \355\143\120\151\370\037\177\276\026\217\375\235\353\013\252\062 \107\166\322\147\044\355\275\174\063\062\227\052\307\005\206\146 \015\027\175\024\025\033\324\353\375\037\232\366\136\227\151\267 \032\045\244\012\263\221\077\137\066\254\213\354\127\250\076\347 \201\212\030\127\071\205\164\032\102\307\351\133\023\137\217\371 \010\351\222\164\215\365\107\322\253\073\326\373\170\146\116\066 $\label{eq:175} $$1222351004336375111143374155373024161223$

\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 $\label{eq:152} $$ 152\134\133\011\162\271\255\143\074\261\335\370\374\062\277\067\$ \206\344\273\216\230\047\176\272\037\026\341\160\021\362\003\337 \045\142\062\047\046\030\062\204\237\377\000\072\023\272\232\115 \364\117\270\024\160\042\261\312\053\220\316\051\301\160\364\057 \235\177\362\220\036\326\132\337\267\106\374\346\206\372\313\340 \146\212\116\072\060\037\077\200\313\255\047\272\014\136\327\320 \261\126\312\167\161\262\265\165\241\120\251\100\103\027\302\050 \331\317\122\213\133\310\143\324\102\076\240\063\172\106\056\367 \047\356\306\174\270\216\327\245\072\327\230\241\234\214\020\125 \323\333\113\354\100\220\362\315\156\127\322\142\016\174\127\223 \261\247\155\315\235\203\273\052\347\345\266\073\161\130\255\375 \321\105\274\132\221\356\123\025\157\323\105\011\165\156\272\220 \135\036\004\317\067\337\036\250\146\261\214\346\040\152\357\374 \110\116\164\230\102\257\051\157\056\152\307\373\175\321\146\061 \042\314\206\000\176\146\203\014\102\364\275\064\222\303\032\352 $\label{eq:117} $$ 12\17\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_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA NSS EMAIL DISTRUST 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 $\label{eq:143} $$ 14331\075\064\065\134\157\123\243\342\010\160\110\037\264\$ **END** CKA ISSUER MULTILINE OCTAL \060\142\061\013\060\011\006\003\125\004\006\023\002\103\116\061 \062\060\060\006\003\125\004\012\014\051\107\125\101\116\107\040 $\label{eq:101125124110117122111124131040103117056054114} \label{eq:1040101125124110117122111124131040103117056054114}$ \124\104\056\061\037\060\035\006\003\125\004\003\014\026\107\104 $\label{eq:103101040124162165163164101125124110040122065040} \label{eq:103101040122065040}$ \122\117\117\124 **END** CKA_SERIAL_NUMBER MULTILINE OCTAL $\label{eq:2.1} $$ 002\010\175\011\227\376\360\107\352\172 $$$ **END** CKA TRUST SERVER AUTH CK TRUST CKT NSS TRUSTED DELEGATOR CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST CKA TRUST CODE SIGNING CK TRUST CKT NSS MUST VERIFY TRUST CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE # # Certificate "TrustCor RootCert CA-1" # # Issuer: CN=TrustCor RootCert CA-1,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de R.L.,L=Panama City,ST=Panama,C=PA # Serial Number:00:da:9b:ec:71:f3:03:b0:19 # Subject: CN=TrustCor RootCert CA-1,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de R.L.,L=Panama City,ST=Panama,C=PA # Not Valid Before: Thu Feb 04 12:32:16 2016 # Not Valid After : Mon Dec 31 17:23:16 2029 # Fingerprint (SHA-256): D4:0E:9C:86:CD:8F:E4:68:C1:77:69:59:F4:9E:A7:74:FA:54:86:84:B6:C4:06:F3:90:92:61:F4:DC:E2:57:5C # Fingerprint (SHA1): FF:BD:CD:E7:82:C8:43:5E:3C:6F:26:86:5C:CA:A8:3A:45:5B:C3:0A CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE CKA_TOKEN CK_BBOOL CK_TRUE CKA_PRIVATE CK_BBOOL CK_FALSE CKA_MODIFIABLE CK_BBOOL CK_FALSE CKA_LABEL UTF8 "TrustCor RootCert CA-1" CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509 CKA_SUBJECT MULTILINE_OCTAL \060\201\244\061\013\060\011\006\003\125\004\006\023\002\120\101 \061\017\060\015\006\003\125\004\010\014\006\120\141\156\141\155 \141\061\024\060\022\006\003\125\004\007\014\013\120\141\156\141 $\label{eq:155141} $$ 1511040103151164171061044060042006003125004012 $$$

 $\label{eq:202} \end{tabular} \end{tabular}$ \332\233\354\161\363\003\260\031\060\015\006\011\052\206\110\206 \367\015\001\001\013\005\000\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 $\label{eq:141} $$ 141\164\145\040\101\165\164\150\157\162\151\164\171\061\037\060\$ $\label{eq:2.162} \end{tabular} 1035 \end{tabular} 1035 \end{tabular} 1031 \end{tabular}$ \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 \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 \040\123\056\040\144\145\040\122\056\114\056\061\047\060\045\006

END CKA VALUE MULTILINE OCTAL

CKA_SERIAL_NUMBER MULTILINE_OCTAL \002\011\000\332\233\354\161\363\003\260\031

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\061

CKA_ID UTF8 "0"

END

162 164 040 103 101 055 061

\003\125\004\013\014\036\124\162\165\163\164\103\157\162\040\103 $\label{eq:145} $$ 145\164\151\143\141\164\145\040\101\165\164\150\157\$ \162\151\164\171\061\037\060\035\006\003\125\004\003\014\026\124 \040\103\101\055\061\060\202\001\042\060\015\006\011\052\206\110 \206\367\015\001\001\001\005\000\003\202\001\017\000\060\202\001 \012\002\202\001\001\000\277\216\267\225\342\302\046\022\153\063 \031\307\100\130\012\253\131\252\215\000\243\374\200\307\120\173 \216\324\040\046\272\062\022\330\043\124\111\045\020\042\230\235 \106\322\301\311\236\116\033\056\054\016\070\363\032\045\150\034 \246\132\005\346\036\213\110\277\230\226\164\076\151\312\351\265 \170\245\006\274\325\000\136\011\012\362\047\172\122\374\055\325 \261\352\264\211\141\044\363\032\023\333\251\317\122\355\014\044 \272\271\236\354\176\000\164\372\223\255\154\051\222\256\121\264 \273\323\127\277\263\363\250\215\234\364\044\113\052\326\231\236 \364\236\376\300\176\102\072\347\013\225\123\332\267\150\016\220 $\label{eq:114} $$14373160077217112054224363046335143151251224330$ \020\116\305\107\010\220\231\033\027\115\271\154\156\357\140\225 \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 \206\160\033\044\336\376\050\212\053\320\152\260\374\172\242\334 \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 \015\343\261\011\267\212\310\253\031\237\163\063\120\347\060\037 \006\003\125\035\043\004\030\060\026\200\024\356\153\111\074\172 \077\015\343\261\011\267\212\310\253\031\237\163\063\120\347\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\045\030\324\221\217\023\356\217\036\035\021\123 \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 $\label{eq:22} \end{tabular} \end{tabular}$ \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 $\label{eq:134} $$ 134\303\224\044\075\062\153\113\176\324\170\224\203\276\067\115\$ \316\137\307\036\116\074\340\211\063\225\013\017\245\062\326\074 \132\171\054\031 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 "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 \377\275\315\347\202\310\103\136\074\157\046\206\134\312\250\072 \105\133\303\012 **END** CKA CERT MD5 HASH MULTILINE OCTAL \156\205\361\334\032\000\323\042\325\262\262\254\153\067\005\105 **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 $\label{eq:163} \end{tabular} \end{tabular}$ \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_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

\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

 $\label{eq:103} \\ 145\\ 162\\ 164\\ 151\\ 146\\ 151\\ 143\\ 141\\ 164\\ 145\\ 040\\ 101\\ 165\\ 164$

 $\label{eq:150} $$ 150\157\162\151\164\171\061\037\060\035\006\003\125\004\003\014\$

 $\label{eq:26} \end{tabular} $$ \026\124\162\165\163\164\103\157\162\040\122\157\157\164\103\145 $$$

END

CKA_ID

UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

 \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 VALUE MULTILINE OCTAL

\060\202\006\057\060\202\004\027\240\003\002\001\002\002\010\045 \241\337\312\063\313\131\002\060\015\006\011\052\206\110\206\367 \015\001\001\013\005\000\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 $\label{eq:123} 171 163 164 145 155 163 040 123 056 040 144 145 040 122$ \056\114\056\061\047\060\045\006\003\125\004\013\014\036\124\162 \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 $\label{eq:122} $$ 157\164\103\145\162\164\040\103\101\055\062\060\036\027\$ \015\061\066\060\062\060\064\061\062\063\062\063\132\027\015 \063\064\061\062\063\061\061\067\062\066\063\071\132\060\201\244 \061\013\060\011\006\003\125\004\006\023\002\120\101\061\017\060 \015\006\003\125\004\010\014\006\120\141\156\141\155\141\061\024 \060\022\006\003\125\004\007\014\013\120\141\156\141\155\141\040 \103\151\164\171\061\044\060\042\006\003\125\004\012\014\033\124 \162\165\163\164\103\157\162\040\123\171\163\164\145\155\163\040 \123\056\040\144\145\040\122\056\114\056\061\047\060\045\006\003 \125\004\013\014\036\124\162\165\163\164\103\157\162\040\103\145 $\label{eq:162} $$ 162\164\151\146\151\143\141\164\145\040\101\165\164\150\157\162\$ \165\163\164\103\157\162\040\122\157\157\164\103\145\162\164\040 \103\101\055\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\247\040\156\302\052\242\142\044\225\220\166 \310\070\176\200\322\253\301\233\145\005\224\364\301\012\020\325 \002\254\355\237\223\307\207\310\260\047\053\102\014\075\012\076 \101\132\236\165\335\215\312\340\233\354\150\062\244\151\222\150 \214\013\201\016\126\240\076\032\335\054\045\024\202\057\227\323 \144\106\364\124\251\334\072\124\055\061\053\231\202\362\331\052 \327\357\161\000\270\061\244\276\172\044\007\303\102\040\362\212 \324\222\004\033\145\126\114\154\324\373\266\141\132\107\043\264 $\label{eq:330} \\ 330 \\ 151 \\ 264 \\ 267 \\ 072 \\ 320 \\ 164 \\ 074 \\ 014 \\ 165 \\ 241 \\ 214 \\ 116 \\ 166 \\ 241 \\ 351 \\$ \333\052\245\073\372\316\260\377\176\152\050\375\047\034\310\261 \351\051\361\127\156\144\264\320\301\025\155\016\276\056\016\106 \310\136\364\121\376\357\016\143\072\073\161\272\317\157\131\312 \014\343\233\135\111\270\114\342\127\261\230\212\102\127\234\166 \357\357\275\321\150\250\322\364\011\273\167\065\276\045\202\010

\304\026\054\104\040\126\251\104\021\167\357\135\264\035\252\136 \153\076\213\062\366\007\057\127\004\222\312\365\376\235\302\351 \350\263\216\114\113\002\061\331\344\074\110\202\047\367\030\202 \166\110\072\161\261\023\241\071\325\056\305\064\302\035\142\205 \337\003\376\115\364\257\075\337\134\133\215\372\160\341\245\176 \047\307\206\056\152\217\022\306\204\136\103\121\120\234\031\233 \170\346\374\366\355\107\176\173\075\146\357\023\023\210\137\074 \241\143\373\371\254\207\065\237\363\202\236\244\077\012\234\061 $\label{eq:151} $$ 1213 231 244 210 112 216 156 146 115 357 026 304 017 171 050 $$$ \041\140\015\205\026\175\327\124\070\361\222\126\375\265\063\114 \203\334\327\020\237\113\375\306\370\102\275\272\174\163\002\340 \130\047\135\277\370\053\140\254\240\046\256\024\041\047\306\167 \232\063\200\074\136\106\077\367\303\261\243\206\063\306\350\136 \015\271\065\054\252\106\301\205\002\165\200\240\353\044\373\025 $\label{eq:252} $$ \frac{147}{177} \frac{156}{167} \frac{167}{077} \frac{364}{004} \frac{12}{057} \frac{174}{173} \frac{343}{027} \frac{141}{141}$ \360\335\011\251\040\310\276\011\244\320\176\104\303\262\060\112 \070\252\251\354\030\232\007\202\053\333\270\234\030\255\332\340 \106\027\254\317\135\002\003\001\000\001\243\143\060\141\060\035 \006\003\125\035\016\004\026\004\024\331\376\041\100\156\224\236 \274\233\075\234\175\230\040\031\345\214\060\142\262\060\037\006 \003\125\035\043\004\030\060\026\200\024\331\376\041\100\156\224 \236\274\233\075\234\175\230\040\031\345\214\060\142\262\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\003\002\001\206\060 \015\006\011\052\206\110\206\367\015\001\001\013\005\000\003\202 \002\001\000\236\105\236\014\073\266\357\341\072\310\174\321\000 \075\317\342\352\006\265\262\072\273\006\113\150\172\320\043\227 \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 \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 $\label{eq:231} \end{tabular} \end{tabular}$ \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_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA_NSS_EMAIL_DISTRUST_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 $\label{eq:2.165} $$ 026\124\162\165\163\164\103\157\162\040\122\157\157\164\103\145 $$$ \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
```

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 $\label{eq:1007} \\ 014 \\ 013 \\ 120 \\ 141 \\ 156 \\ 141 \\ 155 \\ 141 \\ 040 \\ 103 \\ 151 \\ 164 \\ 171 \\ 061 \\ 044 \\ 104$ \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 \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 $\label{eq:2.1} \end{tabular} $$ \0.56\114\0.56\0.61\0.47\0.60\0.45\0.06\0.03\125\0.04\0.13\0.14\0.36\124\162\0.56\0.124\0.162\0.124\0.124\0.162\0.124\0.162\0.124\0.162\0.124\0.162\0.124\0.162\0.124\0.124\0.162\0.124\0.162\0.124\0.162\0.124\0.12$ $\label{eq:165} \\ 163 \\ 164 \\ 103 \\ 157 \\ 162 \\ 040 \\ 103 \\ 145 \\ 162 \\ 164 \\ 151 \\ 146 \\ 151 \\ 143 \\ 141 \\ 143 \\ 141 \\ 143 \\ 141 \\ 143 \\ 141 \\ 143 \\ 141 \\ 144 \\$ \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

END

END CKA_SERIAL_NUMBER MULTILINE_OCTAL \002\011\000\204\202\054\137\034\142\320\100

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\061

UTF8 "0"

\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 $\label{eq:22} $$ 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 \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 \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 \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_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA_NSS_EMAIL_DISTRUST_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

 $\label{eq:130} \\ 130\\ 321\\ 337\\ 225\\ 225\\ 147\\ 153\\ 143\\ 300\\ 360\\ 133\\ 034\\ 027\\ 115\\ 213\\ 204$

013310170275

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

 $\label{eq:solution} $$ \ (060\201\234\061\013\060\011\006\003\125\004\006\23\002\120\101\061\017\060\015\006\003\125\004\001\014\006\120\141\156\141\155\141\061\022\006\003\125\004\007\014\013\120\141\156\141\155\141\060\03\125\004\003\125\004\003\125\004\003\125\004\003\125\004\003\125\004\003\125\004\003\125\004\0122\056\114\056\061\047\060\03\125\006\003\125\004\013\145\162\163\164\145\141\164\145\040\101\165\164\150\157\162\151\164\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\003\014\005\006\003\125\004\003\014\003\014\005\006\003\125\004\003\014\005\006\003\125\004\003\014\005\006\003\014\003\014\005\006\003\0125\004\003\014\003\014\005\006\003\0125\004\003\014\003\014\005\006\003\0125\004\003\014\003\014\005\006\003\0125\004\003\014\003\014\005\006\003\0125\004\003\014\003\014\005\006\003\0125\004\003\014\003\014\005\005\003\014\003\014\005\005\003\014\003\014\003\014\005\003\014\003\014\005\005\003\014\003\014\005\005\003\014\015\003\014\003\014\003\014\003\014\015\003\014\015\003\014\003\014\003\014\003\014\003\014\003\014\015\003\014\015\003\014\003\014\003\014\003\014\015\014\015\014\015\014\015\014\015\014\015\014\015\014\015\016\014\015\014\015\014\015\014\015\014\015\014\015\014\015\014\015\014\015\014\015\014\015\014\015\014\015\014\015\014\015\014\015\014\015\014\014\015\014\015\014\015\014\015\014\015\014\014\015\014\015\014\015\014\015\014\014\015\014\015\014\015\014\014\015\014\015\014\015\014\015\014\015\014\015\014\015\014\014\015\014\014\015\014\015\014\014\015\014\015\014\014\015\014\014\015\014\014\014\015\014\014\015\014\014\015\014\014\014\015\014\015\01$

END

CKA_SERIAL_NUMBER

MULTILINE_OCTAL

 $\label{eq:202} $$ 002\01\000\204\202\054\137\034\142\320\100 $$$

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"

#

 $\label{eq:second} \ensuremath{\texttt{\# Issuer: CN=SSL.com Root Certification Authority RSA, O=SSL Corporation, L=Houston, ST=Texas, C=US} \\ \ensuremath{\texttt{\# Issuer: CN=SSL.com Root Certification Authority RSA, O=SSL Corporation, L=Houston, ST=Texas, C=US} \\ \ensuremath{\texttt{\# Issuer: CN=SSL.com Root Certification Authority RSA, O=SSL Corporation, L=Houston, ST=Texas, C=US} \\ \ensuremath{\texttt{\# Issuer: CN=SSL.com Root Certification Authority RSA, O=SSL Corporation, L=Houston, ST=Texas, C=US} \\ \ensuremath{\texttt{\# Issuer: CN=SSL.com Root Certification Authority RSA, O=SSL Corporation, L=Houston, ST=Texas, C=US} \\ \ensuremath{\texttt{\# Issuer: CN=SSL.com Root Certification Authority RSA, O=SSL Corporation, L=Houston, ST=Texas, C=US} \\ \ensuremath{\texttt{\# Issuer: CN=SSL.com Root Certification Authority RSA, O=SSL Corporation, L=Houston, ST=Texas, C=US} \\ \ensuremath{\texttt{\# Issuer: CN=SSL.com Root Certification Authority RSA, O=SSL Corporation, L=Houston, ST=Texas, C=US} \\ \ensuremath{\texttt{\# Issuer: CN=SSL.com Root Certification Authority RSA, O=SSL Corporation, L=Houston, ST=Texas, C=US} \\ \ensuremath{\texttt{\# Issuer: CN=SSL.com Root Certification Authority RSA, O=SSL Corporation, L=Houston, ST=Texas, C=US} \\ \ensuremath{\texttt{\# Issuer: CN=SSL.com Root Certification Authority RSA, O=SSL Corporation, L=Houston, ST=Texas, C=US} \\ \ensuremath{\texttt{\# Issuer: CN=SSL.com Root Certification Authority RSA, O=SSL Corporation, L=Houston, ST=Texas, C=US} \\ \ensuremath{\texttt{\# Issuer: CN=SSL.com Root Certification Authority RSA, O=SSL Corporation, L=Houston, ST=Texas, C=US} \\ \ensuremath{\texttt{\# Issuer: CN=SSL.com Root Certification Authority RSA, O=SSL Corporation, L=Houston, ST=Texas, C=US} \\ \ensuremath{\texttt{\# Issuer: CN=SSL.com Root Certification Authority RSA, O=SSL Corporation, L=Houston, ST=Texas, C=US} \\ \ensuremath{\texttt{\# Issuer: CN=SSL.com Root Certification Authority RSA, O=SSL Corporation, L=Houston, ST=Texas, C=US} \\ \ensuremath{\texttt{\# Issuer: CN=SSL.com Root Certification Authority RSA, O=SSL Corporation, L=Houston, L=Houston, L=Houston, L=Houston, L=Houston, L=Houston,$

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

END

CKA_SERIAL_NUMBER

MULTILINE_OCTAL

\002\010\173\054\233\323\026\200\062\231 END

CKA_VALUE MULTILINE_OCTAL

\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 $\label{eq:123} 123 123 14 040 103 157 162 160 157 162 141 164 151 157 156 061$ \061\060\057\006\003\125\004\003\014\050\123\123\114\056\143\157 $\label{eq:155}040\122\157\157\164\040\103\145\162\164\151\146\151\143\141$ $\label{eq: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 \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 $\label{eq:20} \end{tabular} \end{tabular}$ \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 $\label{eq:204} \end{tabular} \end{tabular}$ \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 $\label{eq:131} 074 053 314 362 031 310 223 153 047 143 031 317 374 351 046$ \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 $\label{eq:22} \end{tabular} \end{tabular}$ \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\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 $\label{eq:20} \end{tabular} \end{tabular}$ $\label{eq:221} 273 036 247 371 100 133 221 371 125 231 257 036 021 320 134$ \035\234\160\104\343\212\335\304\371\225\037\212\070\103\077\001 $\label{eq: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 $\label{eq:1017} $$ 002 244 122 001 107 335 111 042 301 277 330 353 $$$ \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 $\label{eq: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_DISTRUST_AFTER CK_BBOOL CK_FALSE

```
CKA_NSS_EMAIL_DISTRUST_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

 $\label{eq:solution} \ensuremath{\texttt{\#Subject:CN=SSL.com}}\xspace{\textrm{Rot}Composition} \\ \ensuremath{\texttt{L}=\textspace{\textrm{Houston}}, \ensuremath{\texttt{ST}=\textspace{\textrm{Texas}}, \ensuremath{\texttt{C}=\textspace{\textrm{C}}} \\ \ensuremath{\texttt{L}=\textspace{\textrm{L}=\textspace{\textrm{Texas}}, \ensuremath{\texttt{C}=\textspace{\textrm{L}=\textspace{\textrm{Texas}}, \ensuremath{\texttt{C}=\textspace{\textrm{L}=\textspace{\textrm{Texas}}, \ensuremath{\texttt{C}=\textspace{\textrm{Texas}}, \ensuremath{\texttt{C}=\textspace{\textrm{SL}}, \ensuremath{\texttt{C}=\textspace{\textrm{Texas}}, \ensuremath{\space{\textrm{Texas}}, \ensurema$

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\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 **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

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
\103\060\036\027\015\061\066\060\062\061\062\061\070\061\064\060
\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
```

\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 $\label{eq:222} 373 345 244 321 304 041 350 315 060 017 006 003 125 035$ \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\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 \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\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 \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 $\label{eq:164} \end{tabular} 164 \end{tabular} 146 \end{tabular} 141 \end{tabular} 151 \end{tabular} 157 \end{tabular} 156 \end{tabular} 040 \end{tabular} 101 \end{tabular} 164 \end{tabular} 157 \end{tabular}$ \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 \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

CKA_VALUE MULTILINE_OCTAL

END

\002\010\126\266\051\315\064\274\170\366

MULTILINE OCTAL

CKA_SERIAL_NUMBER

END

\123\101\040\122\062

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 $\label{eq:164} $$ 164\15\164\150\157\162\151\164\171\040\122 $$$

UTF8 "0"

CKA ID

END

\123\101\040\122\062

\164\151\157\156\040\101\165\164\150\157\162\151\164\171\040\122

\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 $\label{eq:2.16} \label{eq:2.16} \label{eq:2.$ \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 $\label{eq:277} $$ $$ 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 \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\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 \051\376\306\122\141\272\261\163\377\303\014\234\345\154\152\224 $\label{eq:223} $$ 077 024 312 100 026 225 204 363 131 251 254 137 114 141 223 155 $$ 077 024 312 100 026 225 204 363 131 251 254 137 114 141 223 155 $$ 0.5 \label{eq:225} $$$ \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 $\label{eq:230} \\ 230 \\ 245 \\ 161 \\ 323 \\ 124 \\ 023 \\ 331 \\ 140 \\ 363 \\ 365 \\ 113 \\ 146 \\ 117 \\ 372 \\ 361 \\ 356 \\ 1356 \\ 113 \\ 146 \\ 117 \\ 372 \\ 361 \\ 356 \\ 113 \\ 146 \\ 117 \\ 372 \\ 361 \\ 356 \\ 113 \\ 146 \\ 117 \\ 372 \\ 361 \\ 356 \\ 113 \\ 146 \\ 117 \\ 372 \\ 361 \\ 356 \\ 113 \\ 146 \\ 117 \\ 372 \\ 361 \\ 356 \\ 113 \\ 146 \\ 117 \\ 372 \\ 361 \\ 356 \\ 113 \\ 146 \\ 117 \\ 372 \\ 361 \\ 356 \\ 113 \\ 146 \\ 117 \\ 372 \\ 361 \\ 356 \\ 113 \\ 146 \\ 117 \\ 372 \\ 361 \\ 356 \\ 113 \\ 146 \\ 117 \\ 372 \\ 361 \\ 356 \\ 113 \\ 146 \\ 117 \\ 372 \\ 361 \\ 356 \\ 113 \\ 146 \\ 117 \\ 372 \\ 361 \\ 356 \\ 113 \\ 146 \\ 117 \\ 372 \\ 361 \\ 356 \\ 113 \\ 140 \\ 137 \\ 146 \\ 117 \\ 137 \\ 146 \\ 117 \\ 137 \\ 137 \\ 136 \\ 137 \\ 140 \\ 137 \\ 137 \\ 137 \\ 140 \\ 137$ $\label{eq:215} $$ 040\022\215\264\254\127\261\105\143\241\254\166\251\302\373 $$$ END

CKA_NSS_MOZILLA_CA_POLICY

CK_BBOOL CK_TRUE

CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE

CKA_NSS_EMAIL_DISTRUST_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

 $\label{eq:164} $$ 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

 $\label{eq:2.1} \end{tabular} $$ \ 341\036\061\130\032\256\124\123\002\366\027\152\021\173\115\225 \end{tabular} $$$

END

CKA_ISSUER MULTILINE_OCTAL

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

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 $\label{eq:143} \\ 143 \\ 141 \\ 164 \\ 151 \\ 157 \\ 156 \\ 040 \\ 101 \\ 165 \\ 164 \\ 150 \\ 157 \\ 162 \\ 151 \\ 164 \\ 171 \\ 164 \\$ \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 $\label{eq:155}040 \\ 105 \\ 126 \\ 040 \\ 122 \\ 157 \\ 157 \\ 164 \\ 040 \\ 103 \\ 145 \\ 162 \\ 164 \\ 151 \\ 146 \\ 164 \\ 151 \\ 146 \\ 164 \\ 161 \\ 164 \\ 16$ \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 $\label{eq:220} $$ 220 033 373 357 303 100 007 203 040 116 361 060 202 242 006 $$ 220 230 033 373 357 303 100 007 203 040 116 361 060 202 242 006 $$ 220 242 006 $$ 240 240 $$ 220 242 006 $$ 220 242 000 $$ 220 242 000 $$ 220 242 000 $$ 220 242 00$ \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

END

MULTILINE_OCTAL \002\010\054\051\234\133\026\355\005\225

CKA_SERIAL_NUMBER

END

\103

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\064\0101\165\164\150\157\162\151\164\171\040\105\103

\103 END

CKA ID UTF8 "0"

 $\label{eq:sigma} $$ 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_DISTRUST_AFTER CK_BBOOL CK_FALSE

CKA_NSS_EMAIL_DISTRUST_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

 $\label{eq:114} $$ 121 243 321 365 040 062 024 260 306 305 062 043 003 221 $$$

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

\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

\154\157\142\141\154\123\151\147\156\061\023\060\021\006\003\125

END

CKA_ID

UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

 $\label{eq:2016} \\ 002 \\ 016 \\ 105 \\ 346 \\ 273 \\ 003 \\ 203 \\ 063 \\ 303 \\ 205 \\ 145 \\ 110 \\ 346 \\ 377 \\ 105 \\ 121 \\ 105 \\ 121 \\ 105 \\ 121 \\ 105 \\ 121 \\ 105$

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 \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\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 $\label{eq:146} $$ 146 013 222 200 312 104 336 163 224 116 363 247 211 177 117 170 $$$ \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 $\label{eq:146} $$ 146\262\167\141\176\340\352\214\074\252\264\244\366\363\225\112 $$$ \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 $\label{eq:111167060} \\ 165374346141026$ \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 $\label{eq:156} $$ 156\013\262\010\263\141\146\011\152\261\006\072\145\226\131\300 $$$ \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 $\label{eq:2.1} \end{tabular} \end{tabular}$ \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 $\label{eq:243} $$ 154\005\243\223\023\342\242\347\342\327\034\326\307\360\177\310$ \147\123\240\060\015\006\011\052\206\110\206\367\015\001\001\014 \005\000\003\202\002\001\000\203\045\355\350\321\375\225\122\315 $\label{eq:236} \end{aligned} \end{aligned}$ \107\170\326\145\230\251\133\250\074\207\174\002\212\321\156\267 $\label{eq:2.1} \end{tabular} $$ \026\163\346\137\300\124\230\325\164\276\301\315\342\021\221\255\8\\$ $\label{eq:2.1} 043 \\ 030 \\ 075 \\ 335 \\ 341 \\ 162 \\ 104 \\ 226 \\ 264 \\ 225 \\ 136 \\ 300 \\ 173 \\ 216 \\ 231 \\ 170 \\ 100 \\ 1$ \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 $\label{eq:173} \\ 173 \\ 140 \\ 172 \\ 144 \\ 252 \\ 151 \\ 103 \\ 357 \\ 221 \\ 307 \\ 114 \\ 354 \\ 030 \\ 335 \\ 154 \\$ \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 $\label{eq:134} $$ 134\222\360\171\367\234\204\272\164\055\141\001\040\176\176\321 $$$ \362\117\007\131\137\213\055\103\122\353\106\014\224\341\365\146 \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_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA_NSS_EMAIL_DISTRUST_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:03:83:33: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_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

 $\label{eq:200} \end{tabular} \end{tabular}$

\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

 $\label{eq:2.1} \end{tabular} \end{tabular}$

\055\040\122\066\061\023\060\021\006\003\125\004\012\023\012\107

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):

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 \006\003\125\004\013\023\031\117\111\123\124\105\040\106\157\165 \061\050\060\046\006\003\125\004\003\023\037\117\111\123\124\105 $\label{eq:2.11} $$ 040\127\11\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

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 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 $\label{eq:171} $$ 171\061\042\060\040\006\003\125\004\013\023\031\117\111\123\124$ \105\040\106\157\165\156\144\141\164\151\157\156\040\105\156\144 \157\162\163\145\144\061\050\060\046\006\003\125\004\003\023\037 $\label{eq:117} $$ 111 123 124 105 040 127 111 123 145 113 145 171 040 107 154 $$$

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 $\label{eq:105} \end{tabular} 105\040\106\157\165\156\144\141\164\151\157\156\040\105\156\144$ \157\162\163\145\144\061\050\060\046\006\003\125\004\003\023\037 $\label{eq:117} $$ 111 123 124 105 040 127 111 123 145 113 145 171 040 107 154 $$$ END

CKA_LABEL UTF8 "OISTE WISeKey Global Root GC CA" CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CK FALSE

CKA_MODIFIABLE CK_BBOOL

CKA PRIVATE CK BBOOL CK FALSE

CKA TOKEN CK BBOOL CK TRUE

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

Fingerprint (SHA1): E0:11:84:5E:34:DE:BE:88:81:B9:9C:F6:16:26:D1:96:1F:C3:B9:31

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

\003\125\004\013\023\031\117\111\123\124\105\040\106\157\165\156 $\label{eq:144} $$ 144\151\157\156\040\105\156\144\157\162\163\145\144\061$ \050\060\046\006\003\125\004\003\023\037\117\111\123\124\105\040 $\label{eq:127} $$ 127\11\123\145\113\145\171\040\107\154\157\142\141\154\040\122 $$$ \157\157\164\040\107\103\040\103\101\060\166\060\020\006\007\052 \206\110\316\075\002\001\006\005\053\201\004\000\042\003\142\000 \004\114\351\120\300\306\017\162\030\274\330\361\272\263\211\342 \013\042\237\313\152\047\202\201\015\322\300\257\061\344\164\202 \156\312\045\331\214\165\235\361\333\320\232\242\113\041\176\026 \247\143\220\322\071\324\261\207\170\137\030\226\017\120\033\065 \067\017\152\306\334\331\023\115\244\216\220\067\346\275\133\061 \221\243\124\060\122\060\016\006\003\125\035\017\001\001\377\004 \004\003\002\001\006\060\017\006\003\125\035\023\001\001\377\004 \005\060\003\001\001\377\060\035\006\003\125\035\016\004\026\004 \024\110\207\024\254\343\303\236\220\140\072\327\312\211\356\323 \255\214\264\120\146\060\020\006\011\053\006\001\004\001\202\067 \025\001\004\003\002\001\000\060\012\006\010\052\206\110\316\075 \004\003\003\003\150\000\060\145\002\060\046\307\151\133\334\325 $\label{eq:347} $$ 347 $$ 262 $$ 47 $$ 10 $$ 14 $$ 214 $$ 214 $$ 335 $$ 171 $$ 214 $$ 033 $$ 143 $$ 25 $$ 311 $$ 122 $$ 164 $$$ \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 $\label{eq:210} \end{tabular} \end{tabular}$ \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_DISTRUST_AFTER CK_BBOOL CK_FALSE

CKA_NSS_EMAIL_DISTRUST_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

 $\label{eq:24} \end{tabular} \label{eq:24} \end{tabular} \end{tabular} \label{eq:24} \end{tabular} \end{tabular}$

\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 \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 $\label{eq:117} \\ 111 \\ 123 \\ 124 \\ 105 \\ 040 \\ 127 \\ 111 \\ 123 \\ 145 \\ 113 \\ 145 \\ 171 \\ 040 \\ 107 \\ 154 \\ 154 \\ 107 \\ 154 \\ 107 \\ 154 \\ 107 \\$ $\label{eq: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

 $\label{eq:1040} \\ 040 \\ 107 \\ 154 \\ 157 \\ 142 \\ 141 \\ 154 \\ 040 \\ 107 \\ 062 \\ 040 \\ 122 \\ 157 \\ 157 \\ 164 \\ 164 \\ 107$ **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 $\label{eq: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\060\132\027\015 \064\060\061\062\063\061\060\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 \251\062\302\042\207\141\101\221\073\313\303\150\033\006\305\114 \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 \253\373\206\176\017\044\153\100\235\064\147\274\215\307\055\206 $\label{eq:157} $$ 157\17\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 $\label{eq:167} $$ 167\147\265\337\173\361\172\145\025\344\141\126\145\002\003\001 $$$ \000\001\243\102\060\100\060\016\006\003\125\035\017\001\001\377 \004\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 $\label{eq:201} $$ 004\024\201\304\214\314\365\344\060\377\245\014\010\137\214\025\$ \001\001\013\005\000\003\202\001\000\023\145\042\365\216\053 \255\104\344\313\377\271\150\346\303\200\110\075\004\173\372\043 \057\172\355\066\332\262\316\155\366\346\236\345\137\130\217\313 \067\062\241\310\145\266\256\070\075\065\033\076\274\073\266\004 \320\274\371\111\365\233\367\205\305\066\266\313\274\370\310\071 $\label{eq:22} \end{tabular} \\ \end{tabular} \end{tabular$ $\label{eq:237} $$ 166 237 201 270 204 105 111 14 215 157 242 353 261 314 321 303 $$$ \224\332\104\302\346\342\352\030\350\242\037\047\005\272\327\345 \326\251\315\335\357\166\230\215\000\016\315\033\372\003\267\216 \200\130\016\047\077\122\373\224\242\312\136\145\311\326\204\332 \271\065\161\363\046\300\117\167\346\201\047\322\167\073\232\024 \157\171\364\366\320\341\323\224\272\320\127\121\275\047\005\015 \301\375\310\022\060\356\157\215\021\053\010\235\324\324\277\200 \076\326\255\170\222\333\134\074\363\330\255\372\270\153\177\304 \066\050\266\002\025\212\124\054\234\260\027\163\216\320\067\243 \024\074\230\225\000\014\051\005\133\236\111\111\261\137\307\343 \313\317\047\145\216\065\027\267\127\310\060\331\101\133\271\024 \266\350\302\017\224\061\247\224\230\314\152\353\265\341\047\365 \020\250\001\350\216\022\142\350\210\314\265\177\106\227\300\233 \020\146\070\032\066\106\137\042\150\075\337\311\306\023\047\253 $\label{eq:254} $$ 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 \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_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA NSS EMAIL DISTRUST 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 $\label{eq:107} $$ 040\107\154\157\142\141\154\040\107\062\040\122\157\157\164 $$$ **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"

\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 $\label{eq:2.10} \end{tabular} \end{tabular$ \157\156\040\122\157\157\164\060\036\027\015\061\065\060\063\061 \063\060\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

CKA CLASS CK OBJECT CLASS CKO CERTIFICATE

CKA_LABEL UTF8 "UCA Extended Validation Root"

\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 $\label{eq:105170164145156144145144040126141154151144141} \\$

\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

\002\020\117\322\053\217\365\144\310\063\236\117\064\130\146\043

Not Valid Before: Fri Mar 13 00:00:00 2015 # Not Valid After : Fri Dec 31 00:00:00 2038

CKA_TOKEN CK_BBOOL CK_TRUE CKA_PRIVATE CK_BBOOL CK_FALSE CKA MODIFIABLE CK BBOOL CK FALSE

CK CERTIFICATE TYPE CKC X 509 CKA_SUBJECT MULTILINE_OCTAL

\164\151\157\156\040\122\157\157\164

CKA_ISSUER MULTILINE_OCTAL

\164\151\157\156\040\122\157\157\164

CKA SERIAL NUMBER MULTILINE OCTAL

END

END

CKA ID UTF8 "0"

CKA_CERTIFICATE_TYPE

Fingerprint (SHA-256):

#

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

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

\004\003\014\034\125\103\101\040\105\170\164\145\156\144\145\144 $\label{eq:126} \end{tabular} \label{eq:126} \end{tabular} \label{eq:126} \end{tabular} \label{eq:126} \end{tabular} \end{tabular} \end{tabular} \label{eq:126} \end{tabular} \end{tabu$ \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 \073\154\372\370\217\155\115\310\065\337\256\353\334\044\356\171 \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 $\label{eq:116} $$ 16340 357 007 101 207 257 152 245 136 213 373 317 120 262 232 $$$ \124\257\303\211\272\130\055\365\060\230\261\066\162\071\176\111 $\label{eq:263} \\ (263) \\ (35) \\ (225) \\ (141) \\ (127) \\ (26) \\ (177) \\ (257) \\ (360) \\ (026) \\ (133) \\ (141) \\ (130) \\ (157) \\ (066) \\ (120)$ \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\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 $\label{eq:237} $$ 117 001 051 160 343 345 014 341 352 132 174 334 111 $$$ \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 \375\161\232\370\101\007\241\315\221\344\074\232\340\233\062\071 \024\170\167\022\016\023\364\335\026\224\277\113\147\173\160\123 $\label{eq:205} $$ 205 312 260 273 363 070 115 054 220 071 300 015 302 135 153 351 $$$ \342\345\325\210\215\326\054\277\253\033\276\265\050\207\022\027 $\label{eq:164} $$ 164\156\374\175\374\217\320\207\046\260\033\373\271\154\253\342 $$$ \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 $\label{eq:162} $$ 151\317\042\204\013\142\017\254\31\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 \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_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA_NSS_EMAIL_DISTRUST_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 $\label{eq:105} \\ 105 \\ 170 \\ 164 \\ 145 \\ 156 \\ 144 \\ 145 \\ 144 \\ 040 \\ 126 \\ 141 \\ 154 \\ 151 \\ 144 \\ 141 \\$ 164151157156040122157157164**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\063 \066\061\031\060\027\006\003\125\004\003\014\020\103\145\162\164 151147156141040122157157164040103101**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\063 \066\061\031\060\027\006\003\125\004\003\014\020\103\145\162\164

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 $\label{eq:20} \end{tabular} \end{tabular}$ \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 $\label{eq:125} 004 012 014 011 104 150 151 155 171 157 164 151 163 061 034$ \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 $\label{eq:2.1} \end{tabular} \end{tabular}$ \122\157\157\164\040\103\101\060\202\002\042\060\015\006\011\052 206\110\206\367\015\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 $\label{eq:22} \\ 322 \\ 263 \\ 322 \\ 006 \\ 076 \\ 060 \\ 071 \\ 251 \\ 164 \\ 243 \\ 222 \\ 126 \\ 034 \\ 241 \\ 157 \\ 114 \\ 243 \\ 222 \\ 126 \\ 034 \\ 241 \\ 157 \\ 114 \\ 243 \\ 222 \\ 126 \\ 034 \\ 241 \\ 157 \\ 114 \\ 243 \\ 222 \\ 126 \\ 034 \\ 241 \\ 157 \\ 114 \\ 243 \\ 222 \\ 126 \\ 034 \\ 241 \\ 157 \\ 114 \\ 243 \\ 222 \\ 126 \\ 034 \\ 241 \\ 157 \\ 114 \\ 243 \\ 222 \\ 126 \\ 034 \\ 241 \\ 157 \\ 114 \\ 243 \\ 222 \\ 126 \\ 034 \\ 241 \\ 157 \\ 114 \\ 243 \\ 222 \\ 126 \\ 034 \\ 241 \\ 157 \\ 114 \\ 243 \\ 222 \\ 126 \\ 034 \\ 241 \\ 157 \\ 114 \\ 243 \\ 222 \\ 126 \\$ \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 $\label{eq:203} 272 054 004 072 227 275 324 057 276 327 154 233 242 312 175$ $\label{eq:155} 046 311 125 325 317 303 171 122 010 011 231 007 044 055 144$ \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 $\label{eq:101} $$ 101\372\315\072\105\261\150\346\066\114\233\220\127\354\043\271$ \207\010\302\304\011\361\227\206\052\050\115\342\164\300\332\304 \214\333\337\342\241\027\131\316\044\131\164\061\332\177\375\060 \155\331\334\341\152\341\374\137\002\003\001\000\001\243\202\001 \032\060\202\001\026\060\017\006\003\125\035\023\001\001\377\004 \005\060\003\001\001\377\060\016\006\003\125\035\017\001\001\377 \004\004\003\002\001\006\060\035\006\003\125\035\016\004\026\004 \024\030\207\126\340\156\167\356\044\065\074\116\163\232\037\326 \341\342\171\176\053\060\037\006\003\125\035\043\004\030\060\026 \200\024\030\207\126\340\156\167\356\044\065\074\116\163\232\037 \326\341\342\171\176\053\060\104\006\003\125\035\040\004\075\060 \073\060\071\006\004\125\035\040\000\060\061\060\057\006\010\053 \006\001\005\005\007\002\001\026\043\150\164\164\160\163\072\057 \162\057\141\165\164\157\162\151\164\145\163\057\060\155\006\003 \125\035\037\004\146\060\144\060\057\240\055\240\053\206\051\150 $\label{eq:156} $$ 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\160\072\057\057\143\162\154\056\144\150\151\155\171 \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 $\label{eq:23} 372 034 147 127 157 152 152 216 251 053 114 127 171 172$ \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 \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 $\label{eq:20} \end{tabular} \end{tabular}$ \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 $\label{eq:2.1} $$ 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_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA NSS EMAIL DISTRUST 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

 $\label{eq:134} 060 \\ 142 \\ 047 \\ 353 \\ 133 \\ 274 \\ 327 \\ 256 \\ 142 \\ 272 \\ 351 \\ 325 \\ 337 \\ 167 \\ 1$

END

CKA_ISSUER MULTILINE_OCTAL

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):

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

 $\label{eq:23} \\ 023 \\ 000 \\ 021 \\ 006 \\ 003 \\ 125 \\ 004 \\ 013 \\ 023 \\ 012 \\ 145 \\ 155 \\ 123 \\ 151 \\ 147 \\ 156 \\ 123 \\ 151 \\ 147 \\ 156 \\ 123 \\ 151 \\ 147 \\ 156 \\ 123 \\ 151 \\ 147 \\ 156 \\ 123 \\ 151 \\ 147 \\ 156 \\ 123 \\ 125 \\ 123 \\ 151 \\ 147 \\ 156 \\ 123 \\ 125 \\ 125 \\ 123 \\ 125 \\ 125 \\ 123 \\ 125 \\$

 $\label{eq:120} \end{tabular} \end{tabular}$

 $\label{eq:115} \\ 165 \\ 144 \\ 150 \\ 162 \\ 141 \\ 040 \\ 124 \\ 145 \\ 143 \\ 150 \\ 156 \\ 157 \\ 154 \\ 157 \\ 147 \\ 147 \\ 147 \\ 147 \\ 148 \\ 150 \\ 156 \\ 157 \\ 154 \\ 157 \\ 147 \\ 147 \\ 147 \\ 148 \\ 150 \\ 156 \\ 157 \\ 154 \\ 157 \\ 147 \\ 147 \\ 147 \\ 147 \\ 148 \\ 150 \\ 156 \\ 157 \\ 154 \\ 157 \\ 147 \\ 147 \\ 147 \\ 147 \\ 147 \\ 148 \\ 150 \\ 156 \\ 157 \\ 154 \\ 157 \\ 147 \\$

\151\145\163\040\114\151\155\151\164\145\144\061\034\060\032\006

 $\label{eq:164} $$ 164\040\103\101\040\055\040\107\061 $$

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 $\label{eq:115} $$ 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

CKA VALUE MULTILINE OCTAL

END

\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 \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 \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 \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 $\label{eq: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 $\label{eq:134} $$ 134\027\346\160\076\065\347\242\267\302\142\342\253\244\070\114\$ \265\071\065\157\352\003\151\372\072\124\150\205\155\326\362\057 $\label{eq:103} \end{tabular} $$ 103\125\036\221\015\016\330\325\152\244\226\321\023\074\054\170\8em\170\8e\170\8em\170\8em\170\8e\170\8em\170\8e\170\8em\170\8e\170\8e\170\8em\170\8em\170\8e\170\8e$ \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 $\label{eq:151} $$ 124\00\213\344\166\151\041\015\171\116\064\010\136\024 $$$

\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 \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 $\label{eq:160140274252262377171162172246035075137052370312} \\$ \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_DISTRUST_AFTER CK_BBOOL CK_FALSE

 $CKA_NSS_EMAIL_DISTRUST_AFTER\ CK_BBOOL\ CK_FALSE$

#

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

 $\label{eq:212} $$ \25\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 $\label{eq:23} \\ 023 \\ 000 \\ 021 \\ 006 \\ 003 \\ 125 \\ 004 \\ 013 \\ 023 \\ 012 \\ 145 \\ 155 \\ 123 \\ 151 \\ 147 \\ 156 \\ 123 \\ 151 \\ 147 \\ 156 \\ 123 \\ 151 \\ 147 \\ 156 \\ 123 \\ 151 \\ 147 \\ 156 \\ 123 \\ 151 \\ 147 \\ 156 \\ 123 \\ 151 \\ 147 \\ 156 \\ 123 \\ 125 \\ 125 \\$ \040\120\113\111\061\045\060\043\006\003\125\004\012\023\034\145 $\label{eq:115} $$ 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 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

 $\label{eq:23} \\ 023 \\ 060 \\ 021 \\ 006 \\ 003 \\ 125 \\ 004 \\ 013 \\ 023 \\ 012 \\ 145 \\ 155 \\ 123 \\ 151 \\ 147 \\ 156 \\ 123 \\ 151 \\ 147 \\ 156 \\ 123 \\ 151 \\ 147 \\ 156 \\ 123 \\ 151 \\ 147 \\ 156 \\ 123 \\ 151 \\ 147 \\ 156 \\ 123 \\ 121 \\ 147 \\ 156 \\ 123 \\ 121 \\ 147 \\ 156 \\ 123 \\ 121 \\ 147 \\ 156 \\ 123 \\ 121 \\ 147 \\ 156 \\ 123 \\ 121 \\ 147 \\ 156 \\ 123 \\ 121 \\ 147 \\ 156 \\ 123 \\ 121 \\ 147 \\ 156 \\ 123 \\ 121 \\ 147 \\ 156 \\ 123 \\ 121 \\ 147 \\ 156 \\ 123 \\ 121 \\ 123 \\$

 $\label{eq:120} \end{tabular} \end{tabular}$

\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

CKA_ID UTF8 "0"

CKA ISSUER MULTILINE OCTAL

\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 $\label{eq:155123151147156040120113111061045060043006003125$ $\label{eq: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 $\label{eq:157} $$ 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\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_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA NSS EMAIL DISTRUST 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 $\label{eq:115} \\ 165 \\ 144 \\ 150 \\ 162 \\ 141 \\ 040 \\ 124 \\ 145 \\ 143 \\ 150 \\ 156 \\ 157 \\ 154 \\ 157 \\ 147 \\ 147 \\ 147 \\ 147 \\ 148 \\ 150 \\ 156 \\ 157 \\ 154 \\ 157 \\ 147 \\ 147 \\ 147 \\ 148 \\ 150 \\ 156 \\ 157 \\ 154 \\ 157 \\ 147 \\ 147 \\ 147 \\ 147 \\ 147 \\ 147 \\ 148 \\ 150 \\ 156 \\ 157 \\ 154 \\ 157 \\ 147 \\$ \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

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 \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 $\label{eq:273} 301 170 017 254 234 123 257 127 275 150 214 075 151 063 360$ $\label{eq:243} \\ 240 \\ 043 \\ 143 \\ 073 \\ 144 \\ 147 \\ 042 \\ 104 \\ 255 \\ 325 \\ 161 \\ 313 \\ 126 \\ 052 \\ 170 \\ 170 \\ 126 \\ 105 \\ 170 \\ 104 \\ 125 \\ 104 \\ 104 \\ 125 \\ 104 \\ 104 \\ 104 \\ 125 \\ 104 \\ 104 \\ 125 \\ 104 \\$ \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 $\label{eq:141} $$ 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

\361\337\312\276\203\015\102 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 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

END

CKA_ID

UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

 $\label{eq:constraint} $$ 002\012\173\161\266\202\126\270\022\174\234\250 $$$

END

CKA_VALUE MULTILINE_OCTAL

\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 \145\115\165\144\150\162\141\040\111\156\143\061\040\060\036\006 \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 $\label{eq:2.1} \end{tabular} \end{tabular}$ \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\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 $\label{eq:22} \end{tabular} \end{tabular}$ \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):

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_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

\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

 $\label{eq:156} $$ 147\040\113\157\156\147\061\026\060\024\006\003\125\004\012 $$$

 $\label{eq:2.1} \end{tabular} \end{tabular}$

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 \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 \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

END

MULTILINE_OCTAL \002\024\010\026\137\212\114\245\354\000\311\223\100\337\304\306

CKA_SERIAL_NUMBER

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

\063 END

CKA ID UTF8 "0"

\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 \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 \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\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\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 \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 $\label{eq:206} \end{tabular} \end{tabular}$

\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 $\label{eq:26} \end{tabular} $$ \054\026\151\223\007\376\261\105\355\273\242\125\152\260\332\265 $$$ \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 $\label{eq:237} $$ 057 237 347 166 321 141 052 373 041 273 061 320 252 237 107 244$ $\label{eq:262} $$ $$ 262\042\312\026\072\120\127\304\133\103\147\305\145\142\003\111 $$$ \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 DISTRUST AFTER CK BBOOL CK FALSE CKA_NSS_EMAIL_DISTRUST_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

 $\label{eq:130} $$ 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

 $\label{eq:2.10} \end{tabular} \end{tabular$

 $\label{eq:2060} \end{tabular} \end{tabular$

\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 \063 **END** CKA_SERIAL_NUMBER MULTILINE OCTAL \002\024\010\026\137\212\114\245\354\000\311\223\100\337\304\306 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 $\label{eq:165} \end{tabular} \label{eq:165} \end{tabular} \end{tabular$ $\label{eq:163} \\ 163 \\ 164 \\ 056 \\ 156 \\ 145 \\ 164 \\ 057 \\ 154 \\ 145 \\ 147 \\ 141 \\ 154 \\ 055 \\ 164 \\ 145 \\ 162 \\ 162 \\ 164 \\ 145 \\ 162 \\ 164 \\$ \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 $\label{eq:151} $$ 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

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\000\125\145\255\130 \060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060

\145\255\130 END

MULTILINE_OCTAL \002\021\000\331\265\103\177\257\251\071\017\000\000\000\000\125

CKA SERIAL NUMBER

\064 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_ID UTF8 "0"

 $\label{eq:listical_$

\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 \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 $\label{eq:2.1} \end{tabular} \end{tabular}$ \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\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 \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\003\002\001\006\060\035\006\003 \125\035\016\004\026\004\024\237\070\304\126\043\303\071\350\240 \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 $\label{eq:241} $$ \241\177\140\123\216\125\235\120\064\022\017\267\227\173\154\207\$ \112\104\347\365\155\354\200\067\360\130\031\156\112\150\166\360 \037\222\344\352\265\222\323\141\121\020\013\255\247\331\137\307 \007\226\040\355\013\164\373\146\116\213\021\025\351\201\111\176 $\label{eq:157} $$ 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 \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 \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 $\label{eq:163} \\ 163 \\ 164 \\ 056 \\ 156 \\ 145 \\ 164 \\ 057 \\ 154 \\ 145 \\ 147 \\ 141 \\ 154 \\ 055 \\ 164 \\ 145 \\ 162 \\ 162 \\ 164 \\ 145 \\ 162 \\ 164 \\$

\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_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

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 $\label{eq:103} 103 040 122 157 157 164 040 103 145 162 164 151 146 151 143$ \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 \156\061\066\060\064\006\003\125\004\003\023\055\115\151\143\162

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 $\label{eq: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\171\040\062\060\061\067

\002\020\146\362\075\257\207\336\213\261\112\352\014\127\061\001

CKA ID UTF8 "0"

END

END

\302\354

\164\171\040\062\060\061\067

CKA_SERIAL_NUMBER 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 $\label{eq:157} $$ 157\164\040\103\157\162\160\157\162\141\164\151\157\156\061 $$$ \066\060\064\006\003\125\004\003\023\055\115\151\143\162\157\163 $\label{eq:157} $$ 157\164\040\105\103\103\040\122\157\157\164\040\103\145\162\$ $\label{eq:164} \end{tabular} 164 \end{tabular} 146 \end{tabular} 141 \end{tabular} 164 \end{tabular}$

UTF8 "Microsoft ECC Root Certificate Authority 2017" CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA LABEL

CKA MODIFIABLE CK BBOOL CK FALSE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_TOKEN CK_BBOOL CK_TRUE

CKA SUBJECT MULTILINE OCTAL

CKA CLASS CK OBJECT CLASS CKO CERTIFICATE

Fingerprint (SHA1): 99:9A:64:C3:7F:F4:7D:9F:AB:95:F1:47:69:89:14:60:EE:C4:C3:C5

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

 $\label{eq:231} $$ \frac{231}{33} \frac{144}{303} \frac{177}{364} \frac{237}{253} \frac{253}{361} \frac{107}{151} \frac{11024}{140} $$$

356 304 303 305

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 $\label{eq:157} $$ 157\164\040\103\157\162\160\157\162\141\164\151\157\156\061 $$$ \066\060\064\006\003\125\004\003\023\055\115\151\143\162\157\163 $\label{eq:157} $$ 164\040\105\103\103\040\122\157\157\164\040\103\145\162\$ \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

164 171 040 062 060 061 067

\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 \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 $\label{eq:146} $$ 143\141\164\145\040\101\165\164\150\157\162\151\164\171\$ \040\062\060\061\067\060\036\027\015\061\071\061\062\061\070\062 \062\065\061\062\062\132\027\015\064\062\060\067\061\070\062\063 \060\060\062\063\132\060\145\061\013\060\011\006\003\125\004\006 \023\002\125\123\061\036\060\034\006\003\125\004\012\023\025\115 $\label{eq:151143162157163157146164040103157162160157162141} \label{eq:151143162157163157146164040103157162160157162141}$ \164\151\157\156\061\066\060\064\006\003\125\004\003\023\055\115 \164\150\157\162\151\164\171\040\062\060\061\067\060\202\002\042 \060\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003 \202\002\017\000\060\202\002\012\002\202\002\001\000\312\133\276 \224\063\214\051\225\221\026\012\225\275\107\142\301\211\363\231 \066\337\106\220\311\245\355\170\152\157\107\221\150\370\047\147 \120\063\035\241\246\373\340\345\103\243\204\002\127\001\135\234 \110\100\202\123\020\274\277\307\073\150\220\266\202\055\345\364 \145\320\314\155\031\314\225\371\173\254\112\224\255\016\336\113 \103\035\207\007\222\023\220\200\203\144\065\071\004\374\345\351 \154\263\266\037\120\224\070\145\120\134\027\106\271\266\205\265 \034\265\027\350\326\105\235\330\262\046\260\312\304\160\112\256 $\label{eq:140} $$ 140\244\335\263\31\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

END

\105\263

MULTILINE_OCTAL \002\020\036\323\227\011\137\330\264\263\107\160\036\252\276\177

CKA_SERIAL_NUMBE

CKA_SERIAL_NUMBER

END

164 171 040 062 060 061 067

CKA_VALUE MULTILINE_OCTAL

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

END

CKA ID UTF8 "0"

\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 $\label{eq:141} $$ 141\244\122\060\271\172\040\117\157\017\070\123\313\063\014\023\$ \053\217\326\232\275\052\310\055\261\034\175\113\121\312\107\321 $\label{eq:110} $$ 100047 162 135 207 353 325 105 346 110 145 235 257 122 220 272 $$$ $\label{eq:133} 242 030 145 127 022 237 150 271 324 025 153 224 304 151 042$ \230\364\063\340\355\371\121\216\101\120\311\064\117\166\220\254 \120\153\023\272\254\017\067\132\267\022\265\220\201\036\126\256 \127\042\206\331\311\322\321\327\121\343\253\073\306\125\375\036 \016\323\164\012\321\332\252\352\151\270\227\050\217\110\304\007 \370\122\103\072\364\312\125\065\054\260\246\152\300\234\371\362 \201\341\022\152\300\105\331\147\263\316\377\043\242\211\012\124 \133\230\071\304\010\006\301\254\177\016\075\000\245\002\003\001 \000\001\243\124\060\122\060\016\006\003\125\035\017\001\001\377 \004\003\002\001\206\060\017\006\003\125\035\023\001\001\377 \004\005\060\003\001\001\377\060\035\006\003\125\035\016\004\026 \004\024\011\313\131\177\206\262\160\217\032\303\071\343\300\331 \351\277\273\115\262\043\060\020\006\011\053\006\001\004\001\202 \067\025\001\004\003\002\001\000\060\015\006\011\052\206\110\206 \367\015\001\001\014\005\000\003\202\002\001\000\254\257\076\135 \302\021\226\211\216\243\347\222\326\227\025\270\023\242\246\102 \056\002\315\026\005\131\047\312\040\350\272\270\350\032\354\115 \250\227\126\256\145\103\261\217\000\233\122\315\125\315\123\071 \155\142\114\213\015\133\174\056\104\277\203\020\217\363\123\202 \200\303\117\072\307\156\021\077\346\343\026\221\204\373\155\204 \177\064\164\255\211\247\316\271\327\327\237\204\144\222\276\225 \241\255\011\123\063\335\356\012\352\112\121\216\157\125\253\272 \265\224\106\256\214\177\330\242\120\045\145\140\200\106\333\063 \004\256\154\265\230\164\124\045\334\223\344\370\343\125\025\075 \270\155\303\012\244\022\301\151\205\156\337\144\361\123\231\341 $\label{eq:112} $$ 12\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_DISTRUST_AFTER CK_BBOOL CK_FALSE

CKA_NSS_EMAIL_DISTRUST_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

 $\label{eq:163} $$ 163 245 346 112 073 377 203 026 377 016 334 314 141 212 220 156 $$$

\116\256\115\164

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL

\020\377\000\377\311\370\307\172\300\356\065\216\311\017\107 END

CKA_ISSUER MULTILINE_OCTAL

 $\label{eq:starter} $$ 1060 145 061 013 060 011 006 003 125 004 006 023 002 125 123 061 036 060 034 006 003 125 004 012 023 025 115 151 143 162 157 163 157 146 164 040 103 157 162 160 157 162 141 164 151 157 156 061 066 060 064 006 003 125 004 003 023 055 115 151 143 162 157 163 157 146 164 040 122 123 101 040 122 157 157 164 040 103 145 162 164 151 146 151 143 141 164 145 040 101 165 164 150 157 162 151 164 171 040 062 060 061 067 $$$

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

 $\label{eq:161} \end{tabular} \end{tabular}$

\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

 $\label{eq:123} 172 151 147 156 157 040 122 157 157 164 040 103 101 040 062$

\060\061\067

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

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\061\067

\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 $\label{eq:2.157} $$ 004\012\014\015\151\151\143\162\157\163\145\143\040\114\164\144$ $\label{eq:2.10} \end{tabular} \end{tabular$ \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 \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 $\label{eq:26} \end{tabular} \end{tabular}$ \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\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 \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_DISTRUST_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):

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

 $\label{eq:211} $$ $$ 2310303117236232110200137162067324251246357 $$$

\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

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 $\label{eq:143} \\ 143 \\ 145 \\ 162 \\ 164 \\ 123 \\ 111 \\ 107 \\ 116 \\ 040 \\ 122 \\ 117 \\ 117 \\ 124 \\ 040 \\ 103 \\ 101 \\$ \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 $\label{eq:143} \\ 143 \\ 145 \\ 162 \\ 164 \\ 123 \\ 111 \\ 107 \\ 116 \\ 040 \\ 122 \\ 117 \\ 117 \\ 124 \\ 040 \\ 103 \\ 101 \\$ \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 \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 \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 $\label{eq:114} $$ 124\27\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\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 $\label{eq:2.1} \end{tabular} $$ \067\054\021\265\202\267\252\256\044\064\133\162\014\151\015\315 \end{tabular} $$$ \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 $\label{eq:105132111126152322234261143062345141340123042016} \label{eq:105132111126152322234261143062345141340123042016}$ \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 $\label{eq:252} \\ 002 \\ 074 \\ 246 \\ 252 \\ 330 \\ 274 \\ 147 \\ 164 \\ 075 \\ 024 \\ 027 \\ 373 \\ 124 \\ 113 \\ 027 \\ 343 \\ 124 \\ 113 \\ 027 \\ 124 \\$ \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 $\label{eq:2.11} $$ 053\252\111\372\215\145\051\116\343\153\023\247\224\243\055\121 $$$ $\label{eq: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 \101\020\135\047\163\140\205\127\111\042\007 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 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

 $\label{eq:266} \end{tabular} \end{tabular}$

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

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# Not Valid Before: Wed Aug 23 19:34:12 2017
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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

\003\014\050\124\162\165\163\164\167\141\166\145\040\107\154\157

156 040 101 165 164 150 157 162 151 164 171

END

CKA_ID

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 $\label{eq:1016} \end{tabular} 125\004\007\014\007\103\150\151\143\141\147\157\061$ \041\060\037\006\003\125\004\012\014\030\124\162\165\163\164\167 \143\056\061\061\060\057\006\003\125\004\003\014\050\124\162\165 $\label{eq:163} \\ 163 \\ 164 \\ 167 \\ 141 \\ 166 \\ 145 \\ 040 \\ 107 \\ 154 \\ 157 \\ 142 \\ 141 \\ 154 \\ 040 \\ 103 \\ 145 \\$ \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 $\label{eq:125}004 012 014 030 124 162 165 163 164 167 141 166 145 040 110$ \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 $\label{eq:145}040\107\154\157\142\141\154\040\103\145\162\164\151\146\151$ $\label{eq:143} \\ 141 \\ 164 \\ 151 \\ 157 \\ 156 \\ 040 \\ 101 \\ 165 \\ 164 \\ 150 \\ 157 \\ 162 \\ 151 \\ 164 \\ 171 \\ 164 \\$ \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\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

END

MULTILINE_OCTAL \002\014\005\367\016\206\332\111\363\106\065\056\272\262

CKA_SERIAL_NUMBER

END

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\011\1154\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\143\141\164\151\157

\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 $\label{eq:106} \end{tabular} 106\334\356\315\151\342\115\217\207\050\116\064\013\076\317\024$ \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 \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 $\label{eq:117} $$ 10117506511224321136231113173101021155147 $$$ \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 $\label{eq:26} \end{tabular} \end{tabular}$ \075\270\133\350\375\102\322\061\016\207\060\016\006\003\125\035 \017\001\001\377\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 $\label{eq:241} $$ 052\241\250\273\074\135\371\243\010\013\021\014\361\077\055\020 $$$ \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 $\label{eq:236} \end{tabular} \end{tabular}$ $\label{eq:2.100} \\ 364 \\ 120 \\ 017 \\ 117 \\ 111 \\ 175 \\ 314 \\ 105 \\ 343 \\ 275 \\ 172 \\ 100 \\ 305 \\ 101 \\ 334 \\ 141 \\ 105 \\ 343 \\ 275 \\ 172 \\ 100 \\ 305 \\ 101 \\ 334 \\ 141 \\ 105 \\ 343 \\ 141 \\ 105 \\ 343 \\ 105 \\ 100 \\ 305 \\ 101 \\ 334 \\ 141 \\ 105 \\ 100$ \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 $\label{eq:102} \end{tabular} 102\371\367\074\143\354\046\214\163\014\175\032\035\352\250\174$ \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 \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_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

CRA_NSS_EMAIL_DISTRUST_AFTER CR_DDOOL CR_FA

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

 $\label{eq:2.1} \end{tabular} $$ \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

 $\label{eq:201} \end{tabular} \end{tabular}$

 $\label{eq:1061} \end{tabular} \end{tabular$

END

CKA_SERIAL_NUMBER

MULTILINE_OCTAL

 $\label{eq:202} \end{tabular} $$ \002\014\005\367\016\206\332\111\363\106\065\056\272\262 $$$

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\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

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 \156\143\056\061\072\060\070\006\003\125\004\003\023\061\124\162 $\label{eq:165163164167141166145040107154157142141154040105} \label{eq:165163164167141166145040107154157142141154040105}$ \103\103\040\120\062\065\066\040\103\145\162\164\151\146\151\143 \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

END

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL \002\014\015\152\137\010\077\050\134\076\121\225\337\135

162 151 164 171

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\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

END CKA ID

UTF8 "0"

\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_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA_NSS_EMAIL_DISTRUST_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 $\label{eq:264} $$ $$ 20\20\35\105\014\276\213\133\261\146\323\342\244\010\046\$ \315\355\102\317 END CKA_CERT_MD5_HASH MULTILINE_OCTAL 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 \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 $\label{eq:164} \\ 151 \\ 146 \\ 151 \\ 143 \\ 141 \\ 164 \\ 151 \\ 157 \\ 156 \\ 040 \\ 101 \\ 165 \\ 164 \\ 150 \\ 157 \\ 156 \\ 040 \\ 101 \\ 165 \\ 164 \\ 150 \\ 157 \\ 156 \\ 040 \\ 101 \\ 165 \\ 164 \\ 150 \\ 157 \\ 156 \\ 040 \\ 101 \\ 165 \\ 164 \\ 150 \\ 157 \\ 156 \\ 040 \\ 101 \\ 165 \\ 164 \\ 150 \\ 157 \\ 156 \\ 040 \\ 101 \\ 165 \\ 164 \\ 150 \\ 157 \\ 156 \\ 040 \\ 101 \\ 165 \\ 164 \\ 150 \\ 157 \\ 156 \\ 164 \\ 150 \\ 157 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 100 \\$ \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 # 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 \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 $\label{eq:142} $$ 142\141\154\040\105\103\103\040\120\063\070\064\040\103\145\162\$ $\label{eq:164} \end{tabular} 164 \end{tabular} 151 \end{tabular} 141 \end{tabular} 151 \end{tabular} 157 \end{tabular} 156 \end{tabular} 040 \end{tabular} 101 \end{tabular} 164 \end{tabular} 157 \end{tabular}$ \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

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 $\label{eq:110} \end{tabular} \end{tabular}$ \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 $\label{eq:2.1} \end{tabular} \end{tabular}$ \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 $\label{eq:167} $$ 167\141\166\145\040\110\157\154\144\151\156\147\163\054\040\111 $$$ \156\143\056\061\072\060\070\006\003\125\004\003\023\061\124\162 $\label{eq:165} \\ 163 \\ 164 \\ 167 \\ 141 \\ 166 \\ 145 \\ 040 \\ 107 \\ 154 \\ 157 \\ 142 \\ 141 \\ 154 \\ 040 \\ 105 \\ 105 \\ 105 \\ 107 \\ 154 \\ 157 \\ 142 \\ 141 \\ 154 \\ 040 \\ 105 \\$ \103\103\040\120\063\070\064\040\103\145\162\164\151\146\151\143 $\label{eq:141} $$ 141\164\151\157\156\040\101\165\164\150\157\162\151\164\171\060 $$ \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

END

MULTILINE_OCTAL \002\014\010\275\205\227\154\231\047\244\200\150\107\073

CKA_SERIAL_NUMBER

END

162 151 164 171

\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 \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 \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

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\142\141\154\040\105\103\103\040\120\063\070\064\040\103\145\162
\label{eq:164} \\ 151 \\ 146 \\ 151 \\ 143 \\ 141 \\ 164 \\ 151 \\ 157 \\ 156 \\ 040 \\ 101 \\ 165 \\ 164 \\ 150 \\ 157 \\ 156 \\ 040 \\ 101 \\ 165 \\ 164 \\ 150 \\ 157 \\ 156 \\ 040 \\ 101 \\ 165 \\ 164 \\ 150 \\ 157 \\ 156 \\ 040 \\ 101 \\ 165 \\ 164 \\ 150 \\ 157 \\ 156 \\ 040 \\ 101 \\ 165 \\ 164 \\ 150 \\ 157 \\ 156 \\ 040 \\ 101 \\ 165 \\ 164 \\ 150 \\ 157 \\ 156 \\ 040 \\ 101 \\ 165 \\ 164 \\ 150 \\ 157 \\ 156 \\ 164 \\ 150 \\ 157 \\ 156 \\ 164 \\ 150 \\ 157 \\ 156 \\ 164 \\ 150 \\ 157 \\ 156 \\ 164 \\ 150 \\ 157 \\ 156 \\ 164 \\ 150 \\ 157 \\ 156 \\ 164 \\ 150 \\ 157 \\ 156 \\ 164 \\ 150 \\ 157 \\ 156 \\ 164 \\ 150 \\ 157 \\ 156 \\ 164 \\ 150 \\ 157 \\ 156 \\ 164 \\ 150 \\ 157 \\ 156 \\ 164 \\ 150 \\ 157 \\ 156 \\ 164 \\ 150 \\ 157 \\ 156 \\ 164 \\ 150 \\ 157 \\ 156 \\ 164 \\ 150 \\ 157 \\ 156 \\ 164 \\ 150 \\ 157 \\ 156 \\ 164 \\ 150 \\ 157 \\ 156 \\ 164 \\ 150 \\ 157 \\ 156 \\ 164 \\ 150 \\ 157 \\ 156 \\ 164 \\ 150 \\ 157 \\ 156 \\ 164 \\ 150 \\ 157 \\ 156 \\ 164 \\ 150 \\ 157 \\ 156 \\ 164 \\ 150 \\ 157 \\ 156 \\ 164 \\ 150 \\ 157 \\ 156 \\ 164 \\ 150 \\ 157 \\ 156 \\ 164 \\ 150 \\ 157 \\ 156 \\ 164 \\ 150 \\ 157 \\ 156 \\ 164 \\ 150 \\ 157 \\ 156 \\ 164 \\ 150 \\ 157 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\
\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
\115\040\103\157\162\160\056\061\062\060\060\006\003\125\004\003
\label{eq:101} $$ 014\051\16\101\126\105\122\040\107\154\157\142\141\154\040\122 $$
\label{eq:156} $$ 156\040\101\165\164\150\157\162\151\164\171 $$
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
\115\040\103\157\162\160\056\061\062\060\060\006\003\125\004\003
\label{eq:101} $$ 101\126\105\122\040\107\154\157\142\141\154\040\122 $$
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\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 \117\122\115\040\103\157\162\160\056\061\062\060\060\006\003\125 $\label{eq:2.1} \end{tabular} \end{tabular}$ $\label{eq:1040} \\ (040) \\ 122) \\ 157) \\ 157) \\ 164) \\ 040) \\ 103) \\ 145) \\ 162) \\ 164) \\ 151) \\ 146) \\ 151) \\ 143) \\ 141) \\ 164$ \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 \157\162\160\056\061\062\060\060\006\003\125\004\003\014\051\116 \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 \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

END CKA VALUE MULTILINE OCTAL

161370326120115015

MULTILINE_OCTAL \002\024\001\224\060\036\242\013\335\365\305\063\052\261\103\104

CKA_SERIAL_NUMBER

\156\040\101\165\164\150\157\162\151\164\171

END

\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 $\label{eq:20} $$ 010\220\142\264\345\055\356\110\247\153\027\231\124\276\207\112$ \343\251\136\004\114\353\020\155\124\326\357\361\350\362\142\026 \313\200\153\355\075\355\365\037\060\245\256\113\311\023\355\212 $\label{eq:2.1} \end{tabular} \end{tabular}$ \142\351\164\204\014\333\115\106\055\002\003\001\000\001\243\102 \060\100\060\035\006\003\125\035\016\004\026\004\024\322\237\210 \337\241\315\054\275\354\365\073\001\001\223\063\047\262\353\140 \113\060\016\006\003\125\035\017\001\001\377\004\004\003\002\001 \006\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001 \001\377\060\015\006\011\052\206\110\206\367\015\001\001\014\005 \000\003\202\002\001\000\062\312\200\263\235\075\124\006\335\322 $\label{eq:22} $$ 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 \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 $\label{eq:2.103} \\ 013 \\ 032 \\ 277 \\ 173 \\ 320 \\ 042 \\ 103 \\ 054 \\ 104 \\ 214 \\ 373 \\ 345 \\ 052 \\ 264 \\ 154 \\ 034$ \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 $\label{eq:215} $$ 166 035 232 215 304 006 215 066 267 024 363 235 124 151 267 216 $$$

\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 DISTRUST AFTER CK BBOOL CK FALSE CKA_NSS_EMAIL_DISTRUST_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 \115\040\103\157\162\160\056\061\062\060\060\006\003\125\004\003 $\label{eq:101} $$ 101\126\105\122\040\107\154\157\142\141\154\040\122 $$$ $\label{eq:156} $$ 156\040\101\165\164\150\157\162\151\164\171 $$$ 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

#

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

02100000170000003122000401201401010011001110113124033122

\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

105123040123105107125122117123

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

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

\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 \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 $\label{eq:101111132040106116115124055122103115040123105122} \label{eq:101111132040106116115124055122103115040123105122}$ \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 \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\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 $\label{eq:247} $$ 363\142\247\074\377\223\056\007\134\111\001\147\151\022\002\162 $$$ \277\347 END CKA_NSS_MOZILLA_CA_POLICY

CKA VALUE MULTILINE OCTAL

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 "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

 $\label{eq:142} $$ 142\377\331\236\300\145\015\003\316\165\223\322\355\077\055\062 $$$

\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

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

 $\label{eq:2.1} \end{tabular} \end{tabular}$

\123\151\147\156\040\156\166\055\163\141\061\050\060\046\006\003

 $\label{eq:125} 004 003 023 037 107 154 157 142 141 154 123 151 147 156 040$

 $\label{eq:123} 145 143 165 162 145 040 115 141 151 154 040 122 157 157 164$

040122064065

END

CKA_ID

UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

 $\label{eq:2.1} $$ \002\020\166\123\376\250\114\120\253\237\215\062\265\035\003\217\127\334 $$$

END

CKA_VALUE MULTILINE_OCTAL

\006\003\125\004\003\023\037\107\154\157\142\141\154\123\151\147 $\label{eq:156} $$ 156\040\123\145\143\165\162\145\040\115\141\151\154\040\122\157\$ \157\164\040\122\064\065\060\202\002\042\060\015\006\011\052\206 \110\206\367\015\001\001\001\005\000\003\202\002\017\000\060\202 \002\012\002\202\002\001\000\334\171\314\155\006\371\155\273\340 $\label{eq:126} \label{eq:126} \lab$ \167\225\162\277\177\142\235\205\251\212\044\120\137\123\345\333 \164\157\244\051\133\023\052\011\255\232\305\057\302\367\166\073 \241\105\106\252\103\346\044\376\053\260\157\062\160\031\106\132 $\label{eq:171}046\\057\\374\\075\\175\\137\\144\\313\\127\\314\\141\\141\\250\\331\\225$ \232\275\202\025\251\125\167\113\021\117\131\340\153\303\161\363 \014\330\124\325\201\150\076\023\271\025\056\207\212\074\104\047 $\label{eq:2.1} \end{tabular} $$ \066\142\044\156\370\054\005\162\060\141\275\102\221\043\304\235\8\\$ \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 $\label{eq:164} $$ 164\371\313\354\065\042\242\014\060\217\073\253\171\353\126\362 $$$ \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 \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 $\label{eq:2.1} \end{tabular} \label{eq:2.2} \end{tabular} \end{tabular$ $\label{eq:161} $$ 10\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 $\label{eq:2.1} \end{tabular} \end{tabular}$ \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 $\label{eq:20} \end{tabular} \end{tabular}$ \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 \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_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA_NSS_EMAIL_DISTRUST_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 $\label{eq:125} 004 003 023 037 107 154 157 142 141 154 123 151 147 156 040$ $\label{eq:123} 145 143 165 162 145 040 115 141 151 154 040 122 157 157 164$ \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 # # 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 $\label{eq:125}004 003 023 037 107 154 157 142 141 154 123 151 147 156 040$

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 $\label{eq:107} $$ 107 154 157 142 141 154 123 151 147 156 040 123 145 143 165 162 $$$ \145\040\115\141\151\154\040\122\157\157\164\040\105\064\065\060 \036\027\015\062\060\060\063\061\070\060\060\060\060\060\060\060\132 \027\015\064\065\060\063\061\070\060\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 $\label{eq:2.1} \end{tabular} \end{tabular}$ \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\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

END

\220\012

END

\040\105\064\065

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

CKA ISSUER MULTILINE OCTAL

CKA_ID UTF8 "0"

\040\105\064\065 END

 $\label{eq:123} \\ 143 \\ 165 \\ 162 \\ 145 \\ 040 \\ 115 \\ 141 \\ 151 \\ 154 \\ 040 \\ 122 \\ 157 \\ 157 \\ 164 \\ 165 \\ 167 \\ 164 \\ 165 \\ 167 \\ 167 \\ 164 \\ 165 \\ 167 \\ 165 \\ 167 \\ 165 \\ 167 \\ 165 \\ 167 \\ 165 \\ 167 \\ 165 \\ 167 \\ 165 \\ 167 \\ 165 \\ 167 \\ 165 \\ 167 \\ 165 \\ 167 \\ 165 \\ 167 \\ 167 \\ 165 \\ 167 \\ 127 \\ 167 \\$

\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_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA_NSS_EMAIL_DISTRUST_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 053147165041**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 $\label{eq:123} 145 143 165 162 145 040 115 141 151 154 040 122 157 157 164$ \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

Open Source Used In vmoperator Crafton-3.0 985

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

\002\022\021\322\273\271\327\043\030\236\100\137\012\235\055\320 \337\045\147\321

CKA SERIAL NUMBER MULTILINE OCTAL

\122\157\157\164\040\122\064\066 END

 $\label{eq:2.1} \end{tabular} \end{tabular}$ \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 ID

CKA_SUBJECT MULTILINE_OCTAL

CKA LABEL UTF8 "GlobalSign Root R46"

Serial Number:11:d2:bb:b9:d7:23:18:9e:40:5f:0a:9d:2d:d0:df:25:67:d1

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

Subject: CN=GlobalSign Root R46,O=GlobalSign nv-sa,C=BE

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_TOKEN CK_BBOOL CK_TRUE CKA PRIVATE CK BBOOL CK FALSE CKA_MODIFIABLE CK_BBOOL CK_FALSE

Certificate "GlobalSign Root R46"

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

Issuer: CN=GlobalSign

Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

\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

#

#

CKA ISSUER MULTILINE OCTAL

UTF8 "0"

\060\106\061\013\060\011\006\003\125\004\006\023\002\102\105\061

\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 $\label{eq:23} 020 107 154 157 142 141 154 123 151 147 156 040 156 166 055$ \163\141\061\034\060\032\006\003\125\004\003\023\023\107\154\157 $\label{eq:142} $$ 141\154\123\151\147\156\040\122\157\157\164\040\122\064\066\$ \060\202\002\042\060\015\006\011\052\206\110\206\367\015\001\001 \001\005\000\003\202\002\017\000\060\202\002\012\002\202\002\001 \000\254\254\164\062\350\263\145\345\272\355\103\046\035\246\211 \015\105\272\051\210\262\244\035\143\335\323\301\054\011\127\211 \071\241\125\351\147\064\167\014\156\344\125\035\122\045\322\023 \153\136\341\035\251\267\175\211\062\137\015\236\237\054\172\143 \140\100\037\246\260\266\170\217\231\124\226\010\130\256\344\006 \274\142\005\002\026\277\257\250\043\003\266\224\017\274\156\154 \302\313\325\246\273\014\351\366\301\002\373\041\336\146\335\027 \253\164\102\357\360\164\057\045\364\352\153\125\133\220\333\235 \337\136\207\012\100\373\255\031\153\373\367\312\140\210\336\332 \301\217\326\256\325\177\324\074\203\356\327\026\114\203\105\063 \153\047\320\206\320\034\055\153\363\253\175\361\205\251\365\050 \322\255\357\363\204\113\034\207\374\023\243\072\162\242\132\021 \053\326\047\161\047\355\201\055\155\146\201\222\207\264\033\130 \172\314\077\012\372\106\117\115\170\134\370\053\110\343\004\204 \313\135\366\264\152\263\145\374\102\236\121\046\043\040\313\075 $\label{eq:2.14} $$ \ 145\ 026\ 000\ 117\ 032\ 144\ 227\ 146\ 010\ 317\ 214\ 173 $$ \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 \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 \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\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 $\label{eq:253} \end{tabular} \label{eq:253} \end{tabular} \label{eq:253} \end{tabular} \label{eq:253} \end{tabular} \label{eq:253} \end{tabular} \label{eq:253} \end{tabular} \end{tabular} \end{tabular} \label{eq:253} \end{tabular} \end{tabular} \label{eq:253} \end{tabular} \end{t$ \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 \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 \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 $\label{eq:110} $$ 10\220\054\024\364\077\122\032\344\322\313\024\303\141\151\317$ \342\371\030\305\272\063\237\024\243\004\135\271\161\367\265\224 \330\366\063\301\132\301\064\213\174\233\335\223\072\347\023\242 $\label{eq:160} $$ 160\141\237\257\217\353\30\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 $\label{eq:102170143321342017157173324241075164227205267110} \\$ \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_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA_NSS_EMAIL_DISTRUST_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 $\label{eq:125} 004 003 023 023 107 154 157 142 141 154 123 151 147 156 040$ \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

\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\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 \034\060\032\006\003\125\004\003\023\023\107\154\157\142\141\154 \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\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

END

\035\230\350\103

MULTILINE_OCTAL \002\022\021\322\273\272\063\156\324\274\346\044\150\305\015\204

\060\202\002\013\060\202\001\221\240\003\002\001\002\002\022\021

CKA_SERIAL_NUMBER

END

 $122\157\157\164\040\105\064\066$

CKA_VALUE MULTILINE_OCTAL

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

CKA ISSUER MULTILINE OCTA

CKA_ID UTF8 "0"

END

\122\157\157\164\040\105\064\066

 $\label{eq:2.125} $$ 125 004 003 023 023 107 154 157 142 141 154 123 151 147 156 040 $$$

\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_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA NSS EMAIL DISTRUST 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 $\label{eq:2.1} \end{tabular} $$ \071\264\154\325\376\200\006\353\342\057\112\273\010\063\240\257\8.266\8.2$ \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 $\label{eq:125} 004 003 023 023 107 154 157 142 141 154 123 151 147 156 040$ \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

 $\label{eq:sphere:sphe$

END

CKA_ID

UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

 $\label{eq:stable} $$ $ 1060\115\061\013\060\011\006\003\125\004\006\023\002\101\124\061\043\060\041\006\003\125\004\012\023\032\145\055\143\157\155\155\145\162\151\156\147\040\107\155\142\110\061\031\060\027\006\003\125\004\003\023\023\020\107\114\117\102\101\114\124\122\125\123\124\040\062\060\062\060\END $$$

CKA_SERIAL_NUMBER MULTILINE_OCTAL

\002\013\132\113\275\132\373\117\212\133\372\145\345 END

CKA_VALUE MULTILINE_OCTAL

\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\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 $\label{eq:164} $$ 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\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 \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 $\label{eq:276} \\ 005 \\ 276 \\ 273 \\ 021 \\ 173 \\ 012 \\ 277 \\ 250 \\ 156 \\ 347 \\ 377 \\ 130 \\ 103 \\ 317 \\ 233 \\ 147 \\$ \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 $\label{eq:150} $$ 150\134\166\020\111\257\176\245\067\200\261\034\122\275\063\201\$ \114\217\371\335\145\331\024\315\212\045\130\364\342\305\203\245 \024\026\207\124\047\156\126\344\160\204\270\154\062\022\176\202 \061\103\276\327\335\174\241\255\256\326\253\040\022\357\012\303 $\label{eq:214} $$ 020\214\111\226\065\334\013\165\136\261\117\325\117\064\016\021 $$$ \040\007\165\103\105\351\243\021\332\254\243\231\302\266\171\047 $\label{eq:271} 357 310 342 366 065 051 172 164 372 305 177 202 005 142$ \246\012\352\150\262\171\107\006\156\362\127\250\025\063\306\367 \170\112\075\102\173\153\176\376\367\106\352\321\353\216\357\210 $\label{eq:150} $$ 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 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 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

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 $\label{eq:125} 004 012 023 036 101 116 106 040 101 165 164 157 162 151 144$ $\label{eq: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 $\label{eq:2.1} \end{tabular} \end{tabular}$ \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

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL \002\010\015\323\343\274\154\371\153\261

END

 $122\157\157\164\040\103\101$

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

CKA_ID UTF8 "0"

END

122 157 157 164 040 103 101

 $\label{eq:space-$

\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 \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 \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 \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 \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

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

 $\label{eq:246} $$ 046\246\104\132\331\257\116\057\262\035\266\145\260\116\350\226\ END $$$

CKA_ISSUER MULTILINE_OCTAL

 $122\157\157\164\040\103\101$

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

Serial Number: /8:81:2/:5C:81:12:52:20:a5:04:d0:2d:dd:ba: / 3:14

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

 $\label{eq:1041} \end{tabular} \end{tabular$

 $\label{eq:202} $$ 060\202\001\353\240\003\002\001\002\002\002\170 $$$ \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 $\label{eq:2.125}004 012 023 030 101 163 163 145 143 157 040 104 141 164 141$ \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 $\label{eq:2.1} \end{tabular} \end{tabular}$ \056\101\056\061\047\060\045\006\003\125\004\013\023\036\103\145 \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

CKA VALUE MULTILINE OCTAL

END

\163\364

MULTILINE_OCTAL \002\020\170\217\047\134\201\022\122\040\245\004\320\055\335\272

CKA SERIAL NUMBER

END

\063\070\064\040\103\101

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 $\label{eq:104} \end{tabular} 104 \end{tabular}$ \101\056\061\047\060\045\006\003\125\004\013\023\036\103\145\162 \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"

\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

\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 \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 $\label{eq:2.1} \end{tabular} $$ \ 301\357\224\221\170\322\072\034\125\211\142\345\033\011\036\272 $$$ \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 056162045057177337303023311END

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 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):

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

 $\label{eq:2.1} \end{tabular} $$ 363\076\170\074\254\337\364\242\314\254\147\125\151\126\327\345 $$$

\026\074\341\355

END

CKA_CERT_MD5_HASH

MULTILINE_OCTAL

 $\label{eq:266} \end{tabular} \end{tabular}$

END

CKA_ISSUER MULTILINE_OCTAL

 $\label{eq:constraint} $$ \ (060)164061013060011006003125004006023002120114061 \\ 04106003700603125004012023030101163163145143157 \\ 040104141164141040123171163164145155163040123056 \\ 101056061047060045006003125004013023036103145162 $$$

\164\165\155\040\103\145\162\164\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

 $\label{eq:2.1} \end{tabular} \end{tabular}$

 $\label{eq:2.1} \end{tabular} \end{tabular}$

 $\label{eq:104} \end{tabular} \end{tabular}$

\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

\163\164\145\144\040\122\157\157\164\040\103\101

END

CKA_ID

UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

\002\020\036\277\131\120\270\311\200\067\114\006\367\353\125\117

CKA SERIAL NUMBER MULTILINE OCTAL

END

\265\355 END

CKA VALUE

MULTILINE_OCTAL \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 $\label{eq:155}040\103\145\162\164\151\146\151\143\141\164\151\157\156\040$ \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 \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 \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 $\label{eq:103} \\ 145 \\ 162 \\ 164 \\ 165 \\ 155 \\ 040 \\ 124 \\ 162 \\ 165 \\ 163 \\ 164 \\ 145 \\ 144 \\ 040 \\ 122 \\ 165 \\ 164 \\ 145 \\ 144 \\ 040 \\ 122 \\ 165 \\ 164 \\ 145 \\ 144 \\ 040 \\ 122 \\ 165 \\ 164 \\ 165 \\ 164 \\ 165 \\ 164 \\ 165 \\ 164 \\ 165 \\ 164 \\ 165 \\ 164 \\ 165 \\ 164 \\ 165 \\ 164 \\ 165 \\ 164 \\ 165 \\ 164 \\ 165 \\ 164 \\ 165 \\ 165 \\ 164 \\ 165 \\ 165 \\ 164 \\ 165 \\$ \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 $\label{eq:113} \\ 145 \\ 057 \\ 223 \\ 247 \\ 324 \\ 001 \\ 153 \\ 003 \\ 050 \\ 030 \\ 243 \\ 330 \\ 235 \\ 005 \\ 301 \\$ $\label{eq:2.1} $$ 052\30\105\361\221\336\337\073\320\200\002\214\317\070\017\352 $$$ \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 $\label{eq:2.1} \end{tabular} $$ \073\112\313\170\132\153\027\137\015\307\303\117\116\232\052\242 $$$ \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 $\label{eq:111166146146374032077352110124034276060275200120} \\$ \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 $\label{eq:314} 312 \\ 347 \\ 151 \\ 334 \\ 207 \\ 235 \\ 302 \\ 064 \\ 327 \\ 171 \\ 321 \\ 323 \\ 167 \\ 270 \\ 252 \\ 325 \\ 327 \\ 3$ \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 \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

\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 $\label{eq:104} $$ 104\147\207\257\343\105\021\025\151\010\262\276\026\071\227 $$$ \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:BF: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

```
\label{eq:starter} $$ $ 1060 172 061 013 060 011 006 003 125 004 006 023 002 120 114 061 041 060 037 006 003 125 004 012 023 030 101 163 163 145 143 157 040 104 141 164 141 040 123 171 163 164 145 155 163 040 123 056 101 056 061 047 060 045 006 003 125 004 013 023 036 103 145 162 164 165 155 040 103 145 162 164 151 146 151 143 141 164 151 157 156 040 101 165 164 150 157 162 151 164 171 061 037 060 035 006 003 125 004 003 023 026 103 145 162 164 165 155 040 124 162 165 163 164 145 144 040 122 157 157 164 040 103 101 END $$
```

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

\040\103\

END

CKA_ID

UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

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 $\label{eq:143} \\ 143 \\ 145 \\ 040 \\ 116 \\ 141 \\ 164 \\ 151 \\ 157 \\ 156 \\ 141 \\ 154 \\ 145 \\ 040 \\ 145 \\ 145 \\$ \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 \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 $\label{eq:147} $$ 145 156 143 145 040 116 141 164 151 157 156 141 154 145 040 $$$ \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 \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 $\label{eq:230} $$ 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 \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 $\label{eq:241} \end{tabular} 1037 \end{tabular} 123 \end{tabular} 131 \end{tabular} 131 \end{tabular} 104 \end{tabular} 1037 \end{tabular} 123 \end{tabular} 104 \end{tabular} 1037 \end{tabular} 123 \end{tabular} 104 \end{tabular} 1037 \end{tabular} 104 \en$ \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 $\label{eq:164} $$ 131\130\357\014\211\317\213\037\165\223\032\004\024\222\110\$ \120\251\353\127\051\000\026\343\066\034\310\370\277\360\063\325 \101\017\304\314\074\335\351\063\103\001\221\020\053\036\321\271 \135\315\062\031\213\217\214\040\167\327\042\304\102\334\204\026 \233\045\155\350\264\125\161\177\260\174\263\323\161\111\271\317 \122\244\004\077\334\075\240\273\257\063\236\012\060\140\216\333 \235\135\224\250\275\140\347\142\200\166\201\203\014\214\314\060 \106\111\342\014\322\250\257\353\141\161\357\347\042\142\251\367 $\label{eq:134} $$ 134\154\237\026\214\147\066\047\105\365\011\173\277\366\020 $$$ \012\361\260\215\124\103\214\004\272\243\077\357\342\065\307\371 $\label{eq:164} $$ 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_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA_NSS_EMAIL_DISTRUST_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 $\label{eq:11} $$17\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 $\label{eq:116} \end{tabular} 164 \end{tabular} 157 \end{tabular} 156 \end{tabular} 145 \end{tabular}$ \164\162\157\156\151\161\165\145\061\031\060\027\006\003\125\004 $\label{eq:2.165} \\ 003 \\ 014 \\ 020 \\ 124 \\ 165 \\ 156 \\ 124 \\ 162 \\ 165 \\ 163 \\ 164 \\ 040 \\ 122 \\ 157 \\ 157 \\ 164$ \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 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

 $\label{eq:spinor} $$ $ 1060 154 061 013 060 011 006 003 125 004 006 023 002 107 122 061 067 060 065 006 003 125 004 012 014 056 110 145 154 154 145 156 151 143 040 101 143 141 144 145 155 151 143 040 141 156 144 040 122 145 163 145 141 162 143 150 040 111 156 163 164 151 164 165 164 151 157 156 163 040 103 101 061 044 060 042 006 003 125 004 003 014 003 110 101 122 111 103 101 040 124 114 123 040 122 123 101 040 122 157 157 156 164 040 103 101 040 062 060 062 061 $$$

END

CKA_ID UTF8

"0"

CKA_ISSUER MULTILINE_OCTAL

 $\label{eq:starter} $$ $ 1060 154 061 013 060 011 006 003 125 004 006 023 002 107 122 061 067 060 065 006 003 125 004 012 014 056 110 145 154 154 145 156 151 143 040 101 143 141 144 145 155 151 143 040 141 156 144 040 122 145 163 145 141 162 143 150 040 111 156 163 164 151 164 165 164 151 157 156 163 040 103 101 061 044 060 042 006 003 125 004 003 014 033 110 101 122 111 103 101 040 124 114 123 040 122 123 101 040 122 157 157 164 040 103 101 040 062 060 062 061 $$$

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

\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 $\label{eq:143} \\ 143 \\ 144 \\ 145 \\ 155 \\ 151 \\ 143 \\ 040 \\ 141 \\ 156 \\ 144 \\ 040 \\ 122 \\ 145 \\ 163 \\ 145 \\ 155 \\ 145 \\ 145 \\ 145 \\ 155 \\ 145 \\ 145 \\ 125 \\ 145 \\$ $\label{eq:141162143150040111156163164151164165164151157156} \\$ \163\040\103\101\061\044\060\042\006\003\125\004\003\014\033\110 $\label{eq:101122111103101040124114123040122123101040122157} \label{eq:101122112101040122157}$ \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 \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 $\label{eq:230} \end{tabular} 1014 \end{tabular} 230 \end{tabular} 342 \end{tabular} 035 \end{tabular} 321 \end{tabular} 116 \end{tabular} 143 \end{tabular} 324 \end{tabular} 347 \end{tabular} 270 \end{tabular} 101 \end{tabular} 104 \end{tabular} 373 \end{tabular} 153 \end{tabular} 257 \end{tabular}$ \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 $\label{eq:150} $$ 150\372\343\244\136\072\105\163\230\007\352\137\002\162\336\014$ \245\263\237\256\251\035\267\035\263\374\212\131\347\156\162\145 \255\365\060\224\043\007\363\202\026\113\065\230\234\123\273\057 \312\344\132\331\307\215\035\374\230\231\373\054\244\202\153\360 \052\037\216\013\137\161\134\134\256\102\173\051\211\201\313\003 \243\231\312\210\236\013\100\011\101\063\333\346\130\172\375\256 \231\160\300\132\017\326\023\206\161\057\166\151\374\220\335\333 \055\156\321\362\233\365\032\153\236\157\025\214\172\360\113\050 \240\042\070\200\044\154\066\244\073\362\060\221\363\170\023\317 \301\077\065\253\361\035\021\043\265\103\042\236\001\222\267\030 \002\345\021\321\202\333\025\000\314\141\067\301\052\174\232\341 \320\272\263\120\106\356\202\254\235\061\370\373\043\342\003\000 \110\160\243\011\046\171\025\123\140\363\070\134\255\070\352\201 \000\143\024\271\063\136\335\013\333\240\105\007\032\063\011\370 \115\264\247\002\246\151\364\302\131\005\210\145\205\126\256\113 \313\340\336\074\175\055\032\310\351\373\037\243\141\112\326\052 $\label{eq:23} $$ \0.023 \\ 255 \\ 167 \\ 114 \\ 032 \\ 030 \\ 233 \\ 221 \\ 017 \\ 130 \\ 330 \\ 006 \\ 124 \\ 305 \\ 227 \\ 370 \\ 37$ \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 \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 $\label{eq:2.1} \end{tabular} \end{tabular}$ \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 $\label{eq:127} $$ 127 346 357 301 013 267 220 106 234 031 051 214 334 157 240 112 $$ 127 346 357 301 013 267 20106 234 031 051 214 334 157 240 112 $$ 127 346 357 301 013 267 20106 234 031 051 214 334 157 240 112 $$ 127 346 357 301 013 267 20106 234 031 051 214 334 157 240 112 $$ 127 346 357 301 013 267 20106 234 031 051 214 334 157 240 112 $$ 127 346 357 301 013 267 20106 234 031 051 214 334 157 240 112 $$ 127 346 357 301 013 267 20106 234 031 051 214 334 157 240 112 $$ 127 346 357 301 013 267 240 112 $$ 127 346 357 301 013 267 267 20106 234 031 051 214 334 157 240 112 $$ 127 346 357 301 013 267 240 112 $$ 127 346 357 301 000 $$ 127 346 357 301 000 $$ 127 346 346 $$ 127 3$ \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 $\label{eq:245} $$ 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_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA_NSS_EMAIL_DISTRUST_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 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 \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 $\label{eq:2.12} \\ 003 \\ 014 \\ 033 \\ 110 \\ 101 \\ 122 \\ 111 \\ 103 \\ 101 \\ 040 \\ 124 \\ 114 \\ 123 \\ 040 \\ 122 \\ 123 \\ 123 \\ 124$ \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

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 \040\103\101\061\044\060\042\006\003\125\004\003\014\033\110\101 \164\040\103\101\040\062\060\062\061\060\036\027\015\062\061\060 \062\061\071\061\061\060\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 \150\040\111\156\163\164\151\164\165\164\151\157\156\163\040\103

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

\164\151\157\156\163\040\103\101\061\044\060\042\006\003\125\004 $\label{eq:2.11} \end{tabular} \end{tabular$

 $\label{eq:2.1} \end{tabular} \end{tabular}$

\103\040\122\157\157\164\040\103\101\040\062\060\062\061

CKA SERIAL NUMBER MULTILINE OCTAL

END

END

\277\316

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 $\label{eq:151} $$ 151\143\040\101\143\141\144\145\155\151\143\040\141\156\144\040$ $\label{eq:122} 145 163 145 141 162 143 150 040 111 156 163 164 151 164 165$ \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

CK OBJECT CLASS CKO CERTIFICATE CKA TOKEN CK BBOOL CK TRUE

CKA LABEL UTF8 "HARICA TLS ECC Root CA 2021"

CKA PRIVATE CK BBOOL CK FALSE CKA MODIFIABLE CK BBOOL CK FALSE

\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 $\label{eq:111} $$ 111\061\314\230\116\140\021\207\165\323\162\224\220\117\233\020 $$$ $\label{eq:24} \end{tabular} \end{tabular}$ \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 $\label{eq:22} \end{tabular} $$ \03\123\201\022\376\004\325\026\321\252\274\232\157\267\240\225 \end{tabular} $$$ \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_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA NSS EMAIL DISTRUST 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 $\label{eq: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

 $\label{eq:256} $$ 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

 $\label{eq:2020} $$ 002\020\147\164\235\215\167\330\073\152\333\042\364\377\131\342 $$$

\277\316

END CKA TRUST S

```
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

```
\label{eq:2.10} \end{tabular} \end{tabular
```

\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

\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 $\label{eq:101} \end{tabular} \end{tabular}$ $\label{eq:163} \\ 145 \\ 141 \\ 162 \\ 143 \\ 150 \\ 040 \\ 111 \\ 156 \\ 163 \\ 164 \\ 151 \\ 164 \\ 165 \\ 164 \\ 151 \\ 164 \\ 164 \\ 151 \\ 164 \\$ \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 $\label{eq:143} 040 101 143 141 144 145 155 151 143 040 141 156 144 040 122$ \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 \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 203256216330251361251000204260214136236350014217 \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

END

\002\020\125\122\370\036\333\033\044\054\236\273\226\030\315\002 \050\076

CKA SERIAL NUMBER MULTILINE OCTAL

CKA_VALUE MULTILINE_OCTAL

END

\061

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

CKA_ID UTF8 "0"

 $\label{eq:stability} $$ 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\377\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\07\324\140\063\031\122\375\151\024\063\2END$

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 "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

 $\label{eq:106} $$ 106\20\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

\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 $\label{eq:151} $$ 151\143\040\101\143\141\144\145\155\151\143\040\141\156\144\040$ \164\151\157\156\163\040\103\101\061\047\060\045\006\003\125\004 \003\014\036\110\101\122\111\103\101\040\103\154\151\145\156\164 \040\105\103\103\040\122\157\157\164\040\103\101\040\062\060\062 \061 END CKA_ID UTF8 "0" CKA_ISSUER MULTILINE_OCTAL \060\157\061\013\060\011\006\003\125\004\006\023\002\107\122\061 \067\060\065\006\003\125\004\012\014\056\110\145\154\154\145\156 $\label{eq:151} $$ 151\143\040\101\143\141\144\145\155\151\143\040\141\156\144\040 $$$ $\label{eq:122} 145 163 145 141 162 143 150 040 111 156 163 164 151 164 165$ \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

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 $\label{eq:125}004 012 014 056 110 145 154 154 145 156 151 143 040 101 143$ \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\063\132\060\157\061\013 \060\011\006\003\125\004\006\023\002\107\122\061\067\060\065\006 $\label{eq:2.1} \end{tabular} \end{tabular}$ \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\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

\175\360

MULTILINE OCTAL

CKA SERIAL NUMBER

END

\061

\040\105\103\103\040\122\157\157\164\040\103\101\040\062\060\062

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 "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):

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

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

#

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 $\label{eq:10116516415716215114414144040144145040103145162$ \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

\060\066\070 END CKA SERIAL NUMBER MULTILINE OCTAL

\102\060\100\006\003\125\004\003\014\071\101\165\164\157\162\151 $\label{eq:143} \\ 151 \\ 157 \\ 156 \\ 040 \\ 106 \\ 151 \\ 162 \\ 155 \\ 141 \\ 160 \\ 162 \\ 157 \\ 146 \\ 145 \\ 163 \\$ \151\157\156\141\154\040\103\111\106\040\101\066\062\066\063\064

CKA_ID UTF8 "0" CKA ISSUER MULTILINE OCTAL

CKA_SUBJECT MULTILINE_OCTAL

CKA CERTIFICATE TYPE CK CERTIFICATE TYPE CKC X 509

Certificate "Autoridad de Certificacion Firmaprofesional CIF A62634068"

Issuer: CN=Autoridad de Certificacion Firmaprofesional CIF A62634068,C=ES

Subject: CN=Autoridad de Certificacion Firmaprofesional CIF A62634068,C=ES

Fingerprint (SHA1): 0B:BE:C2:27:22:49:CB:39:AA:DB:35:5C:53:E3:8C:AE:78:FF:B6:FE

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

CKA_TOKEN CK_BBOOL CK_TRUE CKA PRIVATE CK BBOOL CK FALSE CKA_MODIFIABLE CK_BBOOL CK_FALSE

Serial Number:1b:70:e9:d2:ff:ae:6c:71

Fingerprint (SHA-256):

Not Valid Before: Tue Sep 23 15:22:07 2014 # Not Valid After : Mon May 05 15:22:07 2036

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

CKA_LABEL UTF8 "Autoridad de Certificacion Firmaprofesional CIF A62634068"

\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

 $\label{eq:144} \\ 144 \\ 144 \\ 040 \\ 144 \\ 145 \\ 040 \\ 103 \\ 145 \\ 162 \\ 164 \\ 151 \\ 146 \\ 151 \\ 143 \\ 141 \\ 143 \\ 141 \\ 143 \\ 141 \\ 144 \\ 145 \\ 162 \\ 164 \\ 151 \\ 146 \\ 151 \\ 146 \\ 151 \\ 143 \\ 141 \\ 144 \\ 145 \\ 162 \\ 164 \\ 151 \\ 146 \\ 151 \\ 143 \\ 141 \\ 144 \\ 145 \\ 162 \\ 164 \\ 151 \\ 146 \\ 151 \\ 146 \\ 151 \\ 143 \\ 141 \\ 145 \\ 162 \\ 164 \\ 151 \\ 146 \\ 151 \\ 146 \\ 151 \\ 143 \\ 141 \\$

\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

#

\060\121\061\013\060\011\006\003\125\004\006\023\002\105\123\061

 $\label{eq:144} \\ 144 \\ 144 \\ 040 \\ 144 \\ 145 \\ 040 \\ 103 \\ 145 \\ 162 \\ 164 \\ 151 \\ 146 \\ 151 \\ 143 \\ 141 \\ 143 \\ 141 \\ 144 \\ 145 \\ 162 \\ 164 \\ 151 \\ 146 \\ 151 \\ 146 \\ 151 \\ 143 \\ 141 \\ 144 \\ 145 \\ 162 \\ 164 \\ 151 \\ 146 \\ 151 \\ 146 \\ 151 \\ 143 \\ 141 \\ 145 \\ 155 \\ 145 \\ 155 \\ 145 \\ 155 \\ 145 \\ 155 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 155 \\ 145 \\ 155 \\ 145 \\$

\002\010\033\160\351\322\377\256\154\161

\003\125\004\006\023\002\105\123\061\102\060\100\006\003\125\004 $\label{eq:2.151} \\ 003 \\ 014 \\ 071 \\ 101 \\ 165 \\ 164 \\ 157 \\ 162 \\ 151 \\ 144 \\ 141 \\ 144 \\ 040 \\ 144 \\ 145 \\ 040 \\ 145 \\ 155 \\ 145$ $\label{eq:103145162164151146151143141143151157156040106151} \\$ \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 $\label{eq:161} $$ 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 \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 $\label{eq:173} 264 077 240 017 216 242 271 152 157 271 207 046 157 101 154$ \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 \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 \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 $\label{eq: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 $\label{eq:373} \\ 145 \\ 340 \\ 316 \\ 165 \\ 304 \\ 061 \\ 131 \\ 014 \\ 356 \\ 202 \\ 310 \\ 014 \\ 140 \\ 063 \\ 112 \\ 140 \\ 063 \\ 112 \\ 140 \\$ \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_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: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 \102\060\100\006\003\125\004\003\014\071\101\165\164\157\162\151 $\label{eq:144} \\ 144 \\ 144 \\ 040 \\ 144 \\ 145 \\ 040 \\ 103 \\ 145 \\ 162 \\ 164 \\ 151 \\ 146 \\ 151 \\ 143 \\ 141 \\ 143 \\ 141 \\ 144 \\ 145 \\ 162 \\ 164 \\ 151 \\ 146 \\ 151 \\ 146 \\ 151 \\ 143 \\ 141 \\ 144 \\ 145 \\ 162 \\ 164 \\ 151 \\ 146 \\ 151 \\ 146 \\ 151 \\ 143 \\ 141 \\ 145 \\ 155 \\ 145 \\ 155 \\ 145 \\ 155 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 155 \\ 145 \\ 155 \\ 145 \\$ \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

 $\label{eq:starter} $$ $ 1060\107\061\013\060\011\006\003\125\004\006\023\002\103\116\061\034\060\032\006\003\125\004\012\023\023\151\124\162\165\163\103\060\032\060\03\125\004\003\023\021\166\124\162\165\163\040\105\103\103\103\040\122\157\157\164\040\103\101$$$

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

 $\label{eq:starter} $$ $ 1060\107\061\013\060\011\006\003\125\004\006\023\002\103\116\061\034\060\032\006\003\125\004\012\023\023\151\124\162\165\163\103\060\1032\060\030\125\004\003\023\021\166\124\162\165\163\040\105\103\103\103\040\122\157\157\164\040\103\101$$$

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 $\label{eq:23} \\ 023 \\ 023 \\ 151 \\ 124 \\ 162 \\ 165 \\ 163 \\ 103 \\ 150 \\ 151 \\ 156 \\ 141 \\ 040 \\ 103 \\ 157 \\ 056 \\ 163 \\ 103 \\ 150 \\ 151 \\ 156 \\ 141 \\ 040 \\ 103 \\ 157 \\ 056 \\ 163 \\ 103 \\ 150 \\ 151 \\ 156 \\ 141 \\ 040 \\ 103 \\ 157 \\ 056 \\ 163 \\ 103 \\ 150 \\ 151 \\ 156 \\ 141 \\ 040 \\ 103 \\ 157 \\ 056 \\ 163 \\ 103 \\ 150 \\ 151 \\ 156 \\ 141 \\ 040 \\ 103 \\ 157 \\ 056 \\ 163 \\ 103 \\ 150 \\ 151 \\ 156 \\ 141 \\ 040 \\ 103 \\ 157 \\ 056 \\ 163 \\ 103 \\ 150 \\ 151 \\ 150 \\ 151 \\ 156 \\ 141 \\ 040 \\ 103 \\ 157 \\ 056 \\ 163 \\ 103 \\ 150 \\ 151 \\ 150 \\ 151 \\ 156 \\ 141 \\ 040 \\ 103 \\ 157 \\ 056 \\ 103 \\ 150 \\ 151 \\ 150 \\ 103 \\ 150 \\ 151 \\ 150 \\ 151 \\ 150 \\ 151 \\ 150 \\ 151 \\ 150 \\ 151 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 103 \\ 150 \\ 103 \\ 150 \\ 150 \\ 103 \\ 150 \\ 150 \\ 103 \\ 150 \\ 103 \\ 150 \\ 103 \\ 150 \\ 103 \\ 150 \\ 103 \\ 150 \\ 103 \\ 150 \\ 103 \\ 150 \\ 103 \\ 150 \\ 103 \\ 150 \\ 103 \\ 150 \\ 103 \\ 150 \\ 103 \\ 103 \\ 150 \\ 103 \\$ \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\003\002\001\006\060\012\006 $\label{eq:10} \end{tabular} \end{tabular}$ \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_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA NSS EMAIL DISTRUST 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 \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

 $\label{eq:2.10} \end{tabular} \end{tabular$

 $\label{eq:2.1034} \\ 034 \\ 060 \\ 032 \\ 006 \\ 003 \\ 125 \\ 004 \\ 012 \\ 023 \\ 023 \\ 151 \\ 124 \\ 162 \\ 165 \\ 163 \\ 10$

 $\label{eq:24} \\ 006 \\ 003 \\ 125 \\ 004 \\ 003 \\ 023 \\ 015 \\ 166 \\ 124 \\ 162 \\ 165 \\ 163 \\ 040 \\ 122 \\ 157 \\ 166 \\ 124 \\ 162 \\ 165 \\ 163 \\ 040 \\ 122 \\ 157 \\ 166 \\ 124 \\ 162 \\ 165 \\ 166 \\ 124 \\ 165 \\ 166 \\ 166 \\ 124 \\ 166 \\ 166 \\ 166 \\ 166 \\ 124 \\ 166 \\ 166 \\ 166 \\ 166 \\ 166 \\ 166 \\ 124 \\ 166 \\ 166 \\ 166 \\ 166 \\ 166 \\ 124 \\ 166 \\ 166 \\ 166 \\ 166 \\ 124 \\ 166 \\$

157 164 040 103 101

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

157 164 040 103 101

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

 $\label{eq:2.1} \end{tabular} \end{tabular}$

\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 $\label{eq:163} \\ 103 \\ 150 \\ 151 \\ 156 \\ 141 \\ 040 \\ 103 \\ 157 \\ 056 \\ 054 \\ 114 \\ 164 \\ 144 \\ 056 \\ 061 \\ 103 \\ 157 \\ 1056 \\ 1056 \\ 1054 \\ 114 \\ 164 \\ 144 \\ 1056 \\ 105$ \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 $\label{eq:23} 151 124 162 165 163 103 150 151 156 141 040 103 157 056 054$ \114\164\144\056\061\026\060\024\006\003\125\004\003\023\015\166 $\label{eq:124} $$ 163\040\122\157\157\164\040\103\101\060\202\002\042\$ \060\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003 \202\002\017\000\060\202\002\012\002\202\002\001\000\275\125\174 $\label{eq:141} $$ 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 $\label{eq:2.1} \end{tabular} \end{tabular}$ \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 $\label{eq: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 \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 $\label{eq:140} $$ 140\241\147\003\240\316\214\274\260\162\147\304\061\316\333\064 $$$ \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\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_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA_NSS_EMAIL_DISTRUST_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

END

CKA_ID

UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

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\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 \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\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_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA_NSS_EMAIL_DISTRUST_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

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 $\label{eq:2.12} \end{tabular} \end{tabular$ \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 $\label{eq:151120113111040122157157164040103101040055040107} \label{eq:151120113111040122157157164040103101040055040107}$ \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

 $\label{eq:202} $$ 060\202\003\122\240\003\002\001\002\002\002\005\5 $$$ \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 \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 $\label{eq:141} $$ 124\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 \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 $\label{eq:2.1} \\ 335 \\ 205 \\ 050 \\ 274 \\ 060 \\ 114 \\ 253 \\ 343 \\ 302 \\ 261 \\ 105 \\ 104 \\ 107 \\ 037 \\ 340 \\ 212 \\ 105 \\ 104 \\ 107 \\ 037 \\ 340 \\ 212 \\ 105 \\ 104 \\ 107 \\ 037 \\ 340 \\ 212 \\ 105 \\ 104 \\ 107 \\ 105 \\ 104 \\ 107 \\ 105 \\ 104 \\ 107 \\ 105 \\ 104 \\ 107 \\ 105 \\ 104 \\ 107 \\ 105 \\ 104 \\ 107 \\ 105 \\ 104 \\ 107 \\ 105 \\ 104 \\ 107 \\ 105 \\ 104 \\ 107 \\ 105 \\ 104 \\ 107 \\ 105 \\ 104 \\ 107 \\ 105 \\ 104 \\ 107 \\ 105 \\ 104 \\ 107 \\ 105 \\ 104 \\ 107 \\ 105 \\ 104 \\ 107 \\ 105 \\ 104 \\ 107 \\ 105 \\$ \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 $\label{eq:174} $$ 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 \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\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 $\label{eq:251} $$ $$ 257 165 307 124 317 072 034 004 231 042 254 304 021 342 $$$ \357\063\112\246\043\035\016\015\107\330\067\307\157\257\064\177 \117\201\153\065\117\351\162\245\061\342\170\347\367\116\224\030 \133\100\175\317\153\041\124\206\346\225\172\373\306\312\352\234 \110\116\127\011\135\057\254\364\245\264\227\063\130\325\254\171 \251\314\137\371\205\372\122\305\215\370\221\024\353\072\015\027 \320\122\302\173\343\302\163\216\106\170\006\070\054\350\134\332 \146\304\364\244\360\126\031\063\051\132\145\222\005\107\106\112 \253\204\303\036\047\241\037\021\222\231\047\165\223\017\274\066 \137\066\150\146\071\203\226\047\046\212\310\304\071\376\232\041 $\label{eq:157} $$ 162\206\351\177\142\345\227\116\320\044\320\100\260\320 $$$ \165\010\216\275\150\356\010\327\156\174\020\160\106\033\174\340 \210\262\236\162\206\231\001\343\277\237\111\031\264\045\276\126 $\label{eq:256} $$ 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 $\label{eq:21} \end{tabular} \label{eq:22} \end{tabular} \label{eq:246} \end{tabular} \label{eq:246} \end{tabular} \end{tabular} \end{tabular} \label{eq:246} \end{tabular} \end{tabula$ \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_DISTRUST_AFTER

CK_BBOOL CK_FALSE CKA_NSS_EMAIL_DISTRUST_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

343345322140

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

 $\label{eq:starter} $$ $ 1060 \ 117 \ 061 \ 013 \ 060 \ 011 \ 006 \ 003 \ 125 \ 004 \ 006 \ 023 \ 002 \ 124 \ 127 \ 061 \ 043 \ 060 \ 031 \ 125 \ 004 \ 003 \ 125 \ 004 \ 003 \ 125 \ 014 \ 032 \ 103 \ 150 \ 165 \ 156 \ 147 \ 150 \ 167 \ 141 \ 040 \ 124 \ 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 \ 107 \ 164 \ 040 \ 103 \ 101 \ 040 \ 055 \ 040 \ 107 \ 107 \ 107 \ 106 \ 006$

\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

\14/\1:

END

CKA_SERIAL_NUMBER

MULTILINE_OCTAL

CKA_VALUE MULTILINE_OCTAL

\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 \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\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 $\label{eq:230} \\ (067) \\ 230) \\ 274) \\ 243) \\ 217) \\ 114) \\ 114) \\ 251) \\ 064) \\ 053) \\ 154) \\ 357) \\ 373) \\ 225) \\ 233) \\ 046$ END

CKA_NSS_MOZILLA_CA_POLICY

CK_BBOOL CK_TRUE

CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA_NSS_EMAIL_DISTRUST_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):

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

 $\label{eq:153} $$ 153\240\260\230\341\161\357\132\255\376\110\025\200\167\020\364 $$$

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL

 $\label{eq:1.1} $$ 046 051 370 155 341 210 277 242 145 177 252 304 315 017 177 374 END $$$

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

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 $\label{eq:125}004 012 023 031 107 157 157 147 154 145 040 124 162 165 163$ $\label{eq:164} $$ 164\040\123\145\162\166\151\143\145\163\040\114\114\103\061\024$ \060\022\006\003\125\004\003\023\013\107\124\123\040\122\157\157 \164\040\122\061\060\036\027\015\061\066\060\066\062\062\060\060 \060\060\060\060\132\027\015\063\066\060\066\062\062\060\060\060 \060\060\060\132\060\107\061\013\060\011\006\003\125\004\006\023 \002\125\123\061\042\060\040\006\003\125\004\012\023\031\107\157 $\label{eq:157} $$ 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 \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 \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 \062\045\116\052\361\145\104\320\002\316\252\316\111\264\352\237 $\label{eq:203} $$ 174\203\260\100\173\347\103\253\247\154\243\217\175\211\201\372 $$$ \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

\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 $\label{eq:20} \end{tabular} \end{tabular}$ \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 \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 \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 $\label{eq:271} $$ 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 \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 \143\325\066\161\256\127\373\267\202\155\334 **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 "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 $\label{eq:1060} \end{tabular} \end{tabular$ $\label{eq:2.1} \end{tabular} \end{tabular}$ \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 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 $\label{eq:125}004 012 023 031 107 157 157 147 154 145 040 124 162 165 163$ $\label{eq:164} $$ 164\040\123\145\162\166\151\143\145\163\040\114\114\103\061\024\$ \060\022\006\003\125\004\003\023\013\107\124\123\040\122\157\157 \164\040\122\062\060\036\027\015\061\066\060\066\062\062\060\060 \060\060\060\060\132\027\015\063\066\060\066\062\062\060\060\060 \060\060\060\132\060\107\061\013\060\011\006\003\125\004\006\023 \002\125\123\061\042\060\040\006\003\125\004\012\023\031\107\157 $\label{eq:157} $$ 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 \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

END

MULTILINE_OCTAL \002\015\002\003\345\256\305\215\004\045\032\253\021\045\252

CKA_SERIAL_NUMBER

END

 $123\040\122\157\157\164\040\122\062$

\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

CKA_ISSUER MULTILINE_OCTAL

CKA ID UTF8 "0"

END

 $\label{eq:listic_list$

 $\label{eq:sphere:sphe$

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509 CKA_SUBJECT MULTILINE_OCTAL

CKA_LABEL UTF8 "GTS Root R2"

CKA MODIFIABLE CK BBOOL CK FALSE

CKA PRIVATE CK BBOOL CK FALSE

CKA_TOKEN CK_BBOOL CK_TRUE

\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 \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 \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 \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 \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 $\label{eq:171} $$ 171\061\240\101\105\065\050\012\161\244\044\117\214\334\074\202 $$$ $\label{eq:2.1} \end{tabular} \end{tabular}$ \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 $\label{eq:2.1} \end{tabular} \end{tabular}$ \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_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA_NSS_EMAIL_DISTRUST_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

 $\label{eq:232} $$ 232\104\111\166\062\333\36\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

\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 $\label{eq:2.10} \end{tabular} \end{tabular$ \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 123040122157157164040122063**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 $\label{eq:20} \end{tabular} \end{tabular}$ \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 \145\162\166\151\143\145\163\040\114\114\103\061\024\060\022\006 $\label{eq:2.122} \\ 003 \\ 125 \\ 004 \\ 003 \\ 023 \\ 013 \\ 107 \\ 124 \\ 123 \\ 040 \\ 122 \\ 157 \\ 157 \\ 164 \\ 040 \\ 122 \\ 127 \\ 157 \\ 164 \\ 040 \\ 122 \\ 127 \\ 157 \\ 164 \\ 040 \\ 122 \\ 127 \\ 157 \\ 164 \\ 040 \\ 122 \\ 127 \\ 157 \\ 164 \\ 040 \\ 122 \\ 127 \\ 157 \\ 164 \\ 040 \\ 122 \\ 127 \\ 157 \\ 164 \\ 040 \\ 122 \\ 127 \\ 157 \\ 157 \\ 164 \\ 040 \\ 122 \\ 157 \\ 157 \\ 164 \\ 040 \\ 122 \\ 157 \\ 157 \\ 164 \\ 040 \\ 122 \\ 157 \\ 157 \\ 164 \\ 040 \\ 122 \\ 127 \\ 157 \\ 157 \\ 164 \\ 040 \\ 122 \\ 127 \\ 157 \\ 157 \\ 157 \\ 164 \\ 122 \\ 127 \\ 157$ \132\060\107\061\013\060\011\006\003\125\004\006\023\002\125\123 $\label{eq:2.1} \end{tabular} \end{tabular}$ \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 $\label{eq:200} \end{tabular} \end{tabular}$ \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\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_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA_NSS_EMAIL_DISTRUST_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 123040122157157164040122063END 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

\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 \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 \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 $\label{eq:100} $$ 100\166\073\251\306\270\107\330\052\347\222\221\152\163\351\261\$ \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

CKA VALUE MULTILINE OCTAL

END

 $\label{eq:20} \end{tabular} $$ \002\003\345\300\150\357\143\032\234\162\220\120\122 $$$

\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

MULTILINE OCTAL

CKA_SERIAL_NUMBER

END

\123\040\122\157\157\164\040\122\064

\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 $\label{eq:1040} \\ (040) \\ 124) \\ 162) \\ 165) \\ 163) \\ 164) \\ 040) \\ 123) \\ 145) \\ 162) \\ 166) \\ 151) \\ 143) \\ 145) \\ 163) \\ 040) \\ 123) \\ 145) \\ 162) \\ 166) \\ 151) \\ 143) \\ 145) \\ 163) \\ 040) \\ 123) \\ 145) \\ 162) \\ 166) \\ 151) \\ 143) \\ 145) \\ 163) \\ 040) \\ 123) \\ 145) \\ 162) \\ 166) \\ 151) \\ 143) \\ 145) \\ 163) \\ 040) \\ 123) \\ 145) \\ 162) \\ 166) \\ 151) \\ 143) \\ 145) \\ 163) \\ 040) \\ 123) \\ 145) \\ 162) \\ 166) \\ 151) \\ 143) \\ 145) \\ 163) \\ 040) \\ 123) \\ 145) \\ 162) \\ 162) \\ 163) \\ 16$ \114\114\103\061\024\060\022\006\003\125\004\003\023\013\107\124

CKA ISSUER MULTILINE OCTAL

CKA ID UTF8 "0"

END

\123\040\122\157\157\164\040\122\064

\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

\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 $\label{eq:24} $$ \frac{341}{342}273}024171\312\315\041\324\224\265\111\103$ **END** CKA_NSS_MOZILLA_CA_POLICY CK BBOOL CK TRUE CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE # Trust for "GTS Root R4" # Issuer: CN=GTS Root R4,O=Google Trust Services LLC,C=US # Serial Number:02:03:e5:c0:68:ef:63:1a:9c:72:90:50:52 # Subject: CN=GTS Root R4,O=Google Trust Services LLC,C=US # Not Valid Before: Wed Jun 22 00:00:00 2016 # Not Valid After : Sun Jun 22 00:00:00 2036 # Fingerprint (SHA-256): 34:9D:FA:40:58:C5:E2:63:12:3B:39:8A:E7:95:57:3C:4E:13:13:C8:3F:E6:8F:93:55:6C:D5:E8:03:1B:3C:7D # Fingerprint (SHA1): 77:D3:03:67:B5:E0:0C:15:F6:0C:38:61:DF:7C:E1:3B:92:46:4D:47 CKA CLASS CK OBJECT CLASS CKO NSS TRUST CKA TOKEN CK BBOOL CK TRUE CKA_PRIVATE CK_BBOOL CK_FALSE CKA MODIFIABLE CK BBOOL CK FALSE CKA_LABEL UTF8 "GTS Root R4" CKA CERT SHA1 HASH MULTILINE OCTAL \222\106\115\107 **END** CKA CERT MD5 HASH MULTILINE OCTAL $\label{eq:103} $$ 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 123040122157157164040122064**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

 $\label{eq:solution} $$ $ 1060\01\01\006\003\125\004\006\023\002\106\111\061\032\060\030\006\003\125\004\012\014\021\124\145\154\151\141\040\1027\006\0027\006\003\125\004\003\014\020\124\145\154\151\141\040\122\157\157\164 $$$

\040\103\101\040\166\062

END

CKA_ID

UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

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

\106\111\061\032\060\030\006\003\125\004\012\014\021\124\145\154 \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 \241\376\201\145\037\114\047\254\216\000\272\026\173\353\060\152 $\label{eq:263} \\ 000 \\ 300 \\ 263 \\ 164 \\ 150 \\ 176 \\ 262 \\ 257 \\ 307 \\ 325 \\ 142 \\ 263 \\ 172 \\ 077 \\ 120 \\ 312 \\$ \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 \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 $\label{eq:115} $$ 115 062 157 101 057 023 122 202 224 327 032 301 170 242 121 335 $$$ \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 \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 $\label{eq:2.146} \\ 301 \\ 127 \\ 022 \\ 146 \\ 161 \\ 114 \\ 372 \\ 123 \\ 343 \\ 127 \\ 353 \\ 142 \\ 225 \\ 011 \\ 236 \\ 124 \\ 124 \\ 124 \\ 125 \\ 124 \\ 124 \\ 124 \\ 125 \\ 124 \\ 124 \\ 124 \\ 124 \\ 125 \\ 124 \\ 124 \\ 124 \\ 124 \\ 124 \\ 125 \\ 124$ \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 \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

 $\label{eq:271} $$ $$ 21\315\321\163\120\212\304\107\005\010\234\214\210\373\276\$

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

040103101040166062

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

 $\label{eq:2.1} \end{tabular} $$ \002\017\001\147\137\047\326\376\172\343\344\254\276\011\133\005\8\\$

\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

 $\label{eq:2.10} \end{tabular} \end{tabular$

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 $\label{eq:125} 004 012 023 014 104 055 124 162 165 163 164 040 107 155 142$ \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 \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 $\label{eq: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\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

END

\115\226

CKA_SERIAL_NUMBER MULTILINE_OCTAL \002\020\174\311\217\053\204\327\337\352\017\311\145\232\323\113

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\164

UTF8 "0"

CKA_ID

END

\040\103\101\040\061\040\062\060\062\060

\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

\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 $\label{eq:164} $$ 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 $\label{eq:145} \\ 145 \\ 162 \\ 164 \\ 151 \\ 146 \\ 151 \\ 143 \\ 141 \\ 164 \\ 145 \\ 162 \\ 145 \\ 166 \\ 157 \\ 143 \\ 141 \\ 164 \\ 145 \\ 162 \\ 145 \\ 166 \\ 157 \\ 143 \\ 141 \\ 164 \\ 145 \\ 162 \\ 162 \\ 165 \\ 166 \\ 157 \\ 143 \\ 141 \\ 164 \\ 164 \\ 164 \\ 165 \\ 162 \\ 165 \\ 166 \\ 157 \\ 143 \\ 141 \\ 164 \\ 164 \\ 164 \\ 165 \\ 162 \\ 165 \\ 165 \\ 166 \\ 157 \\ 143 \\ 141 \\ 164 \\ 164 \\ 165 \\$ \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_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA_NSS_EMAIL_DISTRUST_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

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

 $\label{eq:starter} $$ $ 1060 \ 11006 \ 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 \ 004 \ 003 \ 004 \ 003 \ 004 \ 0$

\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

 $\label{eq:2.12} \end{tabular} \end{tabular$

\040\103\101\040\061\040\062\060\062\060

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

\040\103\101\040\061\040\062\060\062\060

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

 $\label{eq:2020} $$ 002\02\101\327\172\207\174\114\003\243\254\226\215\373$

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 $\label{eq:125}004 012 023 014 104 055 124 162 165 163 164 040 107 155 142$ \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 \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\003\002\001\006\060 \201\306\006\003\125\035\037\004\201\276\060\201\273\060\076\240 \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 \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 $\label{eq:163} \\ 164 \\ 045 \\ 062 \\ 060 \\ 107 \\ 155 \\ 142 \\ 110 \\ 054 \\ 103 \\ 075 \\ 104 \\ 105 \\ 077 \\ 143 \\ 105 \\ 077 \\ 105 \\ 077 \\ 143 \\ 105 \\ 077 \\ 143 \\ 105 \\ 077 \\ 143 \\ 105 \\ 077 \\ 105 \\ 105 \\ 105 \\$ \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_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA_NSS_EMAIL_DISTRUST_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 \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

 $\label{eq:starter} $$ $ 160 \ 116 \ 001 \ 000 \ 003 \ 125 \ 004 \ 006 \ 023 \ 002 \ 125 \ 123 \ 061 \ 027 \ 060 \ 025 \ 006 \ 003 \ 125 \ 004 \ 012 \ 023 \ 016 \ 104 \ 151 \ 147 \ 151 \ 103 \ 145 \ 162 \ 164 \ 056 \ 061 \ 044 \ 006 \ 003 \ 125 \ 004 \ 003 \ 023 \ 035 \ 104 \ 151 \ 147 \ 151 \ 103 \ 145 \ 162 \ 164 \ 040 \ 124 \ 114 \ 123 \ 040 \ 105 \ 103 \ 103 \ 040 \ 120 \ 063 \ 070 \ 064 \ 040 \ 122 \ 157 \ 157 \ 164 \ 040 \ 107 \ 065 \ END $$$

CKA ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

 $\label{eq:starter} $$ $ 160 \ 160 \ 003 \ 125 \ 004 \ 005 \ 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

\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 $\label{eq:200} \end{tabular} \end{tabular}$ \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 $\label{eq:103} $$ 015\166\103\214\056\123\313\174\337\014\027\226\120 $$$ 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

 $\label{eq:2.1} \end{tabular} \end{tabular}$

 $007\256\060\356$

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

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

 $\label{eq:2.1} \end{tabular} $$ \027\060\025\006\003\125\004\012\023\016\104\151\147\151\103\145 $$$

 $\label{eq:2.1} \end{tabular} \end{tabular}$

 $\label{eq:122123101064060071066040122157157164040107065} \\$

END

CKA_ID

UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

 $\label{eq:2.123} \\ 060 \\ 115 \\ 061 \\ 013 \\ 060 \\ 011 \\ 006 \\ 003 \\ 125 \\ 004 \\ 006 \\ 023 \\ 002 \\ 125 \\ 123 \\ 061 \\ 011 \\ 060 \\ 011 \\ 006 \\ 003 \\ 125 \\ 004 \\ 006 \\ 023 \\ 002 \\ 125 \\ 123 \\ 061 \\ 011 \\ 006 \\ 003 \\ 125 \\ 004 \\ 006 \\ 003 \\ 125 \\ 004 \\ 006 \\ 003 \\ 125 \\ 004 \\ 006 \\ 003 \\ 125 \\ 004 \\ 006 \\ 003 \\ 125 \\ 004 \\ 006 \\ 003 \\ 125 \\ 004 \\ 006 \\ 003 \\ 125 \\ 004 \\ 006 \\ 003 \\ 125 \\ 004 \\ 006 \\ 003 \\ 125 \\ 004 \\ 006 \\ 003 \\ 002 \\ 002 \\ 125 \\ 002 \\ 125 \\ 002 \\ 002 \\ 125 \\ 002 \\ 002 \\ 125 \\ 002$

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 \054\040\111\156\143\056\061\045\060\043\006\003\125\004\003\023 $\label{eq:104} \end{tabular} \end{tabular}$ \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\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 $\label{eq:104} $$ 104\151\147\151\103\145\162\164\040\124\114\123\040\122\123\101\$ \064\060\071\066\040\122\157\157\164\040\107\065\060\202\002\042 \060\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003 \202\002\017\000\060\202\002\012\002\202\002\001\000\263\320\364 $\label{eq:201} 311 \\ 171 \\ 021 \\ 235 \\ 375 \\ 374 \\ 146 \\ 201 \\ 347 \\ 314 \\ 325 \\ 344 \\ 274 \\ 354 \\ 201 \\ 076 \\$ \152\065\216\056\267\347\336\257\371\007\115\317\060\235\352\011 \013\231\275\154\127\332\030\112\270\170\254\072\071\250\246\110 \254\056\162\345\275\353\361\032\315\347\244\003\251\077\021\264 \330\057\211\026\373\224\001\075\273\057\370\023\005\241\170\034 \216\050\340\105\340\203\364\131\033\225\263\256\176\003\105\345 \276\302\102\376\356\362\074\266\205\023\230\062\235\026\250\051 \302\013\034\070\334\237\061\167\134\277\047\243\374\047\254\267 \053\275\164\233\027\055\362\201\332\135\260\341\043\027\076\210 \112\022\043\320\352\317\235\336\003\027\261\102\112\240\026\114 $\label{eq:244} $$ \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

\317\212 END

CKA_SERIAL_NUMBER MULTILINE_OCTAL \002\020\010\371\264\170\250\372\176\332\152\063\067\211\336\174

\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

\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 $\label{eq:243} \end{tabular} 162 \end{tabular} \end{tabular} 162 \end{tabular} 162$ \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 $\label{eq:2.1} \end{tabular} \end{tabular}$ \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 $\label{eq:101} $$ 101 35 001 035 343 040 230 252 067 117 377 367 361 342 051 160 $$$ \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_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA_NSS_EMAIL_DISTRUST_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 $\label{eq:122123101064060071066040122157157164040107065} \label{eq:122123101064060071066040122157157164040107065}$ **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="Di	giCert Inc	" C=US
π issuel.	CH-DigiCCh	Similar LCC	1 30 4 K00t	0.0, 0 = D1	gicen, me	. ,0-05

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:F5:F0:F5:F

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

END

CKA ID

UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

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

\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 \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 $\label{eq:245} $$ $$ 036 010 140 177 255 177 350 141 222 051 317 011 107 136 013 $$$ \034\300\037\244\277\362\133\274\230\357\231\114\314\160\153\266 \272\320\050\035\277\276\004\243\102\060\100\060\035\006\003\125 \035\016\004\026\004\024\163\172\153\226\333\102\007\213\122\146 \302\144\062\027\376\340\147\220\056\255\060\016\006\003\125\035 \017\001\001\377\004\003\002\001\206\060\017\006\003\125\035 \023\001\001\377\004\005\060\003\001\001\377\060\012\006\010\052 \206\110\316\075\004\003\003\003\147\000\060\144\002\060\067\104 \365\062\200\343\161\353\364\155\317\174\314\221\232\303\156\161 \330\322\043\135\222\115\202\102\155\134\141\225\366\221\365\247 \010\366\152\227\351\234\224\055\230\160\375\063\266\011\002\060 \007\074\057\271\130\202\136\017\243\142\250\223\147\360\040\303 $\label{eq:151} $$ 151\277\003\054\073\120\247\073\257\101\070\311\122\10\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_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA NSS EMAIL DISTRUST 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

 $\label{eq:24} \end{tabular} $$ \034\270\247\010\311\015\040\171\001\240\262\066\177\360\225\145 $$ $$

344 123 044 376

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 $\label{eq:2.1} \end{tabular} \end{tabular}$ \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

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\002\000 \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\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 \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

\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_DISTRUST_AFTER CK_BBOOL CK_FALSE

CKA_NSS_EMAIL_DISTRUST_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

 $\label{eq:23} \end{tabular} $$ 133 305 255 342 232 247 124 332 204 211 123 245 376 327 133 106 $$$

\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

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 #

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

 $\label{eq:2.123} \\ 060\075\061\013\060\011\006\003\125\004\006\023\002\125\123\061$

 $\label{eq:2060} \end{tabular} \end{tabular$

\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

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

\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 $\label{eq: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 $\label{eq:24} $$ 121\305\206\046\171\262\021\210\136\305\360\012\124\315\111\246$ \277\002\234\322\104\247\355\343\170\357\106\136\155\161\321\171 \160\034\106\137\121\351\311\067\334\137\176\151\173\101\337\064 \015\050\371\172\043\261\015\075\075\232\375\235\201\357\054\220 \300\173\104\116\273\111\340\016\112\126\222\274\313\265\335\171 \027\211\221\336\141\211\164\222\250\343\062\205\276\116\205\244 \113\131\313\053\305\170\216\161\124\320\002\067\231\214\345\111 $\label{eq:244} $$ 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\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

\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 $\label{eq:226} \end{tabular} $$ 326 307 306 360 075 154 374 034 015 230 020 141 236 021 242 042 \end{tabular} $$$ \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 $\label{eq:212} $$ $$ 212\101\032\306\222\245\132\073\143\105\117\277\341\072\167\042 $$$ \057\134\277\106\371\132\003\205\023\102\137\312\336\123\327\142 \265\246\065\004\302\107\377\231\375\204\337\134\316\351\136\200 $\label{eq:2.1} \end{tabular} \end{tabular}$ \225\305\052\377\252\211\337\202\061\017\162\377\014\047\327\012 \036\126\000\120\036\014\220\301\226\265\330\024\205\273\247\015 \026\301\370\007\044\033\272\205\241\032\005\011\200\272\225\143 \311\072\354\045\237\177\235\272\244\107\025\233\104\160\361\152 \113\326\070\136\103\363\030\176\120\156\351\132\050\346\145\346 \167\033\072\375\035\276\003\046\243\333\324\341\273\176\226\047 \053\035\356\244\373\332\045\124\023\003\336\071\306\303\037\115 \220\354\217\033\112\322\034\355\205\225\070\120\171\106\326\301 \220\120\061\251\134\232\156\035\365\063\126\213\247\231\322\362 \310\054\063\223\222\060\307\116\214\145\063\020\144\027\375\044 $\label{eq:226} $$ 027 $$ 027 $$ 023 $$ 023 $$ 023 $$ 023 $$ 041 $$ 363 $$ 112 $$ 027$ \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_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA_NSS_EMAIL_DISTRUST_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 $\label{eq:162} $$ 162\164\141\151\156\154\171\040\122\157\157\164\040\122\061\$ **END** CKA_SERIAL_NUMBER MULTILINE OCTAL \002\021\000\216\017\371\113\220\161\150\145\063\124\364\324\104 \071\267\340 END CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR CKA TRUST EMAIL PROTECTION CK TRUST CKT NSS MUST VERIFY TRUST CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE # # Certificate "Certainly Root E1" # # Issuer: CN=Certainly Root E1,O=Certainly,C=US # Serial Number:06:25:33:b1:47:03:33:27:5c:f9:8d:9a:b9:bf:cc:f8 # Subject: CN=Certainly Root E1,O=Certainly,C=US # Not Valid Before: Thu Apr 01 00:00:00 2021 # Not Valid After : Sun Apr 01 00:00:00 2046 # Fingerprint (SHA-256): B4:58:5F:22:E4:AC:75:6A:4E:86:12:A1:36:1C:5D:9D:03:1A:93:FD:84:FE:BB:77:8F:A3:06:8B:0F:C4:2D:C2 # Fingerprint (SHA1): F9:E1:6D:DC:01:89:CF:D5:82:45:63:3E:C5:37:7D:C2:EB:93:6F:2B CKA CLASS CK OBJECT CLASS CKO CERTIFICATE CKA_TOKEN CK_BBOOL CK_TRUE CKA_PRIVATE CK_BBOOL CK_FALSE CKA_MODIFIABLE CK_BBOOL CK_FALSE CKA_LABEL UTF8 "Certainly Root E1" CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509 CKA_SUBJECT MULTILINE_OCTAL \060\075\061\013\060\011\006\003\125\004\006\023\002\125\123\061 \022\060\020\006\003\125\004\012\023\011\103\145\162\164\141\151 \156\154\171\061\032\060\030\006\003\125\004\003\023\021\103\145 $\label{eq:162} $$ 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\002\000 \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 $\label{eq:125} 004 012 023 011 103 145 162 164 141 151 156 154 171 061 032$ \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\060\132\060\075\061\013\060\011 \006\003\125\004\006\023\002\125\123\061\022\060\020\006\003\125 $\label{eq:2.1} \end{tabular} \end{tabular}$ \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 $\label{eq:202} $$ 370\202\227\200\352\217\310\112\136\052\175\210\150\247\001\142 $$ \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 $\label{eq:100} $$ 100\326\051\207\011\074\221\172\366\274\023\043\335\131\116\004\8\\$ \136\317\310\002\034\030\123\301\061\330\332\040\351\104\215\344 \166\243\102\060\100\060\016\006\003\125\035\017\001\001\377\004 \004\003\002\001\006\060\017\006\003\125\035\023\001\001\377\004 \005\060\003\001\001\377\060\035\006\003\125\035\016\004\026\004 \024\363\050\030\313\144\165\356\051\052\353\355\256\043\130\070 \205\353\310\042\007\060\012\006\010\052\206\110\316\075\004\003 \003\003\150\000\060\145\002\061\000\261\216\132\040\303\262\031 $\label{eq:142} $$ 142\15\36\260\117\37\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_DISTRUST_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:C2:2D:C

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

 $\label{eq:2.1} \end{tabular} $$ 371\341\155\334\001\211\317\325\202\105\143\076\305\067\175\302 $$$

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:

\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

CKA_VALUE MULTILINE_OCTAL

END

\006\064\373\171\020\064

\002\024\015\115\305\315\026\042\225\226\010\176\270\013\177\025

CKA SERIAL NUMBER MULTILINE OCTAL

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 \003\125\004\003\023\035\105\055\124\165\147\162\141\040\107\154 \040\166\063

END CKA_ID

UTF8 "0"

\040\166\063

CKA_SUBJECT MULTILINE_OCTAL \060\201\200\061\013\060\011\006\003\125\004\006\023\002\124\122 $\label{eq:2.1} \end{tabular} \end{tabular}$ \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 $\label{eq:2.124} \\ 006 \\ 003 \\ 125 \\ 004 \\ 013 \\ 023 \\ 024 \\ 105 \\ 055 \\ 124 \\ 165 \\ 147 \\ 162 \\ 141 \\ 040 \\ 124$ \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

CKA LABEL UTF8 "E-Tugra Global Root CA RSA v3" CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA TOKEN CK BBOOL CK TRUE

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

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

Not Valid After : Sun Mar 12 09:07:17 2045 # Fingerprint (SHA-256):

Wed Mar 18 09:07:17 2020

\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 \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 $\label{eq:2.105} \\ (020) \\ 105) \\ (055) \\ 124) \\ 165) \\ 147) \\ 162) \\ 141) \\ (040) \\ 105) \\ 102) \\ 107) \\ (040) \\ 101) \\ (056) \\ 123) \\ (056) \\ 123) \\ (056) \\ 124) \\ (056) \\ 123) \\ (056) \\ 124) \\ (056) \\ 123) \\ (05$ \056\061\035\060\033\006\003\125\004\013\023\024\105\055\124\165 \061\046\060\044\006\003\125\004\003\023\035\105\055\124\165\147 \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 $\label{eq:2.1} \end{tabular} $$ \ 356\011\311\143\322\323\103\335\136\303\246\204\070\112\361\215\8\\$ \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 \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 $\label{eq:200} $$ 020 055 020 014 377 373 024 315 004 340 024 074 116 232$ \373\237\051\277\042\236\127\271\202\163\022\143\046\265\314\220 \351\322\052\051\356\234\055\314\054\231\276\105\047\344\261\161 \355\344\070\225\061\101\362\175\172\143\170\337\312\066\026\057 \202\210\237\274\021\107\117\166\115\310\055\216\353\337\055\174 \116\073\332\256\366\343\332\135\024\246\256\350\205\104\235\006 \156\216\373\357\172\112\152\055\053\050\030\376\277\220\054\165 \026\237\017\352\226\175\005\356\233\023\245\104\154\370\003\320 \335\043\341\375\003\022\022\010\364\030\064\263\340\067\013\167 \021\001\110\277\141\264\265\370\031\331\313\115\352\243\214\357 \375\360\006\265\155\222\364\112\141\120\204\355\354\111\323\344 \276\150\346\056\343\061\013\124\013\032\222\326\202\330\266\242 \145\074\146\004\371\125\332\154\373\333\265\024\146\115\224\203 \073\315\036\246\053\262\376\167\100\206\253\347\337\012\311\375 \366\335\207\126\030\330\260\054\125\140\226\372\010\176\122\220 \365\113\246\056\207\174\313\040\333\006\076\240\135\003\167\175 \242\074\023\033\051\242\023\125\240\075\024\042\257\157\270\320 \232\033\162\335\005\001\215\206\140\277\244\147\356\265\245\015 \321\177\346\032\053\142\146\303\007\272\347\240\110\034\070\303 \351\105\373\247\177\374\355\002\150\032\312\167\022\167\246\000 \125\050\024\354\326\307\022\242\033\145\102\351\221\350\313\076 $\label{eq:207} $$ $$ 207 $$ 11124 $$ 331 $$ 257 $$ 227 $$ 151 $$ 47 $$ 012 $$ 77 $$ 132 $$ 170 $$ 161 $$$ \213\143\052\114\175\107\224\077\336\113\351\123\320\060\361\305 \366\236\111\337\073\240\221\243\243\376\315\130\314\352\337\257 \157\050\073\240\151\233\217\354\254\256\053\124\235\233\004\261 \107\040\257\226\022\076\143\224\035\004\347\056\273\206\307\014 $\label{eq:232} $$ 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 **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 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):

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

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

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

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

 $\label{eq:202} \end{tabular} \end{tabular}$

\346\324\227\210\042\301

MULTILINE OCTAL

CKA SERIAL NUMBER

END

\040\166\063

END

\003\125\004\003\023\035\105\055\124\165\147\162\141\040\107\154

\147\162\141\040\105\102\107\040\101\056\123\056\061\035\060\033 $\label{eq:2.124} \\ 006 \\ 003 \\ 125 \\ 004 \\ 013 \\ 023 \\ 024 \\ 105 \\ 055 \\ 124 \\ 165 \\ 147 \\ 162 \\ 141 \\ 040 \\ 124$ \162\165\163\164\040\103\145\156\164\145\162\061\046\060\044\006

CKA ISSUER MULTILINE OCTAL

\162\165\163\164\040\103\145\156\164\145\162\061\046\060\044\006 $\label{eq:2.10} \\ 003\125\004\003\023\035\105\055\124\165\147\162\141\040\107\154$ \157\142\141\154\040\122\157\164\040\103\101\040\105\103\103 \040\166\063 END CKA ID UTF8 "0"

\060\201\200\061\013\060\011\006\003\125\004\006\023\002\124\122 $\label{eq:2.1} \end{tabular} \end{tabular}$ \141\061\031\060\027\006\003\125\004\012\023\020\105\055\124\165

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 $\label{eq:2.1} \end{tabular} \end{tabular}$ \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

CKA_LABEL UTF8 "E-Tugra Global Root CA ECC v3"

CKA MODIFIABLE CK BBOOL CK FALSE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_TOKEN CK_BBOOL CK_TRUE

CKA CLASS CK OBJECT CLASS CKO CERTIFICATE

Fingerprint (SHA1): 8A:2F:AF:57:53:B1:B0:E6:A1:04:EC:5B:6A:69:71:6D:F6:1C:E2:84

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

Not Valid After : Sun Mar 12 09:46:58 2045 # Fingerprint (SHA-256):

A.S.,L=Ankara,C=TR # Not Valid Before: Wed Mar 18 09:46:58 2020

\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 $\label{eq:165} $$ 163\164\040\103\145\156\164\145\162\061\046\060\044\006\003 $$$ $\label{eq:125} 004 003 023 035 105 055 124 165 147 162 141 040 107 154 157$ \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 $\label{eq:124} $$ 124\165\147\162\141\040\105\102\107\040\101\056\123\056\061\035\$ \060\033\006\003\125\004\013\023\024\105\055\124\165\147\162\141 \040\124\162\165\163\164\040\103\145\156\164\145\162\061\046\060 \103\103\040\166\063\060\166\060\020\006\007\052\206\110\316\075 \002\001\006\005\053\201\004\000\042\003\142\000\004\216\230\051 \277\307\020\036\047\333\253\003\314\050\054\330\136\110\031\020 \051\314\313\131\201\314\214\270\222\027\211\203\052\222\366\303 $\label{eq:244} \\ (244) \\ (035) \\ (114) \\ (142) \\ (325) \\ (237) \\ (326) \\ (240) \\ (106) \\ (334) \\ (034) \\ (274) \\ (166) \\ (301) \\ (343) \\ (107) \\ (107) \\ (106) \\ (10$ \320\133\023\332\347\245\263\146\110\347\041\232\112\117\206\012 $\label{eq:175} $$ 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 \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 276150344043244331255241067**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 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

366034342204

END

CKA_CERT_MD5_HASH

MULTILINE_OCTAL

 $\label{eq:106} $$ 106\274\201\273\361\265\036\367\113\226\274\024\342\347\047\144 END $$$

CKA_ISSUER MULTILINE_OCTAL

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>

```
* All rights reserved.
```

- *
- * This software is licensed under the MIT License.
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- */

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

1.124 fastjson v1.6.4

1.124.1 Available under license :

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1.125 musl-utils 1.2.3-r4

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Stefan O'Rear Szabolcs Nagy Timo Ters Trutz Behn Valentin Ochs Will Dietz William Haddon William Pitcock

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1.127 valyala-fastjson 1.6.4

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1.128 go-compute-metadata 0.2.3

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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
}
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```

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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()

 ${\ensuremath{\textit{//}}}$ 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/computepb#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.

 $\prime\prime$ - 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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package compute

import ("bytes" "context" "fmt" "io/ioutil" "math"

"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.CallOptionInsert[]gax.CallOptionList[]gax.CallOptionSetIamPolicy[]gax.CallOptionTestIamPermissions[]gax.CallOption

```
func defaultLicensesRESTCallOptions() *LicensesCallOptions {
return &LicensesCallOptions{
Delete:
               []gax.CallOption{},
Get:
              []gax.CallOption{},
GetIamPolicy:
                  []gax.CallOption{},
Insert:
              []gax.CallOption{},
List:
              []gax.CallOption{},
SetIamPolicy:
                  []gax.CallOption{},
TestIamPermissions: []gax.CallOption{},
}
}
```

//

internalLicensesClient is an interface that defines the methods available from Google Compute Engine API. type internalLicensesClient interface {

Close() error

setGoogleClientInfo(...string)

Connection() *grpc.ClientConn

Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)

Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)

GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy, error)

Insert (context. Context, * computepb. Insert License Request, ... gax. Call Option) (* 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 thirdparty 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()...),
}
}
//
```

```
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```

```
setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
    kv := append([]string{"gl-go", versionGo()}, keyval...)
    kv = append(kv, "gapic", 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 := 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(),
},
```

```
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```

```
}
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...)
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 thirdparty 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.operationClient,
 c:
 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 debiancloud 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 {
```

```
}
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 settings.Path != "" {

baseUrl.Path = settings.Path

```
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 := 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, 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).Test
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
 }
```

```
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```

```
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.

 ${\ensuremath{\prime\prime}}$ 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

 ${\ensuremath{\prime\prime}}\xspace$ 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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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

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"),
```

```
}
}
```

```
// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licenseCodesRESTClient) setGoogleClientInfo(keyval ...string) {
    kv := append([]string{"gl-go",
    versionGo()}, keyval...)
    kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
    c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
  }
```

internaloption.WithDefaultAudience("https://compute.googleapis.com/"),

internaloption.WithDefaultScopes(DefaultAuthScopes()...),

// 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 := 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).TestIamPermissions):len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions)):len((*c.CallOptions)):len((*c.CallOptions)):len((*c.CallOptions)):len((*c.CallOptions)):len((*c.CallOptions)):len((*c.CallOptions)):len((*c.CallOptions)):len((*c.CallOptions)):len((*c.CallOptions)):len((*c.CallOptions)):len((*c.CallOptions)):len((*c.CallOptions)):len((*c.CallOptions)):len((*c.CallOptions)):len((*c.CallOptions)):len((*c.CallOptions)):len((*c.CallOptions)):len((*c.CallOptions)):len((*c.CallOptions)):len((*c.CallOptions)):len((*c.CallOptions)):len((*c.CallOptions)):len((*c.CallOptions)):len((*c.CallOptions)):len((*c.CallOptions)):len((*c.CallOptions)):len((*c.CallOptions)):len((*c.CallOptions)):len((*c.CallOptions)):len((*c.CallOptions)):len((*c
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
```

```
}
```

1.129 thanos v0.27.0

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1.132 prometheus-operator-prometheusoperator 0.62.0

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1.142 prometheus-operator-prometheusoperator v0.58.0

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1.145 libcrypto3 3.0.8-r3

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1.146 openssl 3.0.8-r3

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1.147 protobuf v1.30.0

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1.148 x-text 0.9.0

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1.149 k8s-io-api v0.25.6

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1.150 controller-runtime v0.13.1

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1.151 go-restful v3.10.0

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1.153 k8s-io-client-go v0.25.6

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1.154 utils v0.0.0-20221108210102-8e77b1f39fe2

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1.155 prometheus-operator v0.62.0

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// 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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1.164 x-text v0.9.0

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1.165 x-sync 0.2.0

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1.166 prometheus-common 0.43.0

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1.168 x-sys 0.8.0

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1.171 logr v1.2.4

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/*!

* Bootstrap Table of Contents v0.4.1 (http://afeld.github.io/bootstrap-toc/)

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Found in path(s):

* /opt/cola/permits/1679307840_1684350625.2594848/0/dbosak01-logr-v1-2-4-0-g8c5ac86-1-tar-gz/dbosak01-logr-8c5ac86/docs/bootstrap-toc.css

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Package: logr Title: Creates Log Files Version: 1.2.4 Authors@R: person(given = "David", family = "Bosak", role = c("aut", "cre"), email = "dbosak01@gmail.com") Description: Contains functions to help create log files. The package aims to overcome the difficulty of the base R sink() command. The log_print() function will print to both the console and the file log, without interfering in other write operations. License: CC0 Encoding: UTF-8 URL: https://logr.r-sassy.org BugReports: https://github.com/dbosak01/logr/issues Depends: R (>= 3.4.0) Suggests: knitr, rmarkdown, testthat, tidylog, dplyr, utils Imports: withr VignetteBuilder: knitr Roxygen: list(markdown = TRUE) RoxygenNote: 7.1.1

Found in path(s):

* /opt/cola/permits/1679307840_1684350625.2594848/0/dbosak01-logr-v1-2-4-0-g8c5ac86-1-tar-gz/dbosak01-logr-8c5ac86/DESCRIPTION

1.172 x-sync v0.2.0

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1.174 prometheus-client 0.4.0

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1.177 go-uber-org-atomic v1.11.0

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1.181 clientmodel v0.4.0

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1.182 fasthttp 1.2.0

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

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1.201 logr 1.2.4

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1.205 gopkg.in-yaml 3.0.1

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1.207 xxhash 2.2.0

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1.208 kubernetes-klog 2.80.1

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1.209 mergo 0.3.13

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fields:

site: string author: root

1.210 gofuzz 1.2.0 1.210.1 Available under license :

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1.211 goprotobuf 1.5.3

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1.212 xxhash 2.1.2

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1.213 protobuf 1.28.0

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1.214 gopkg.in-inf 0.9.1

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1.215 protobuf 1.30.0

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1.216 golang-protobuf-extensions 1.0.1

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1.217 go-uber-org-multierr 1.7.0

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1.218 fsnotify 1.6.0

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1.219 easyjson 0.7.7

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1.220 jsonpatch 2.2.0

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1.221 controller-runtime 0.13.1

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1.222 yaml 1.3.0

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1.223 errors 0.9.1

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1.224 google-uuid 1.3.0

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1.225 goprotobuf 1.5.2

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1.226 units 0.0.0-20211218093645b94a6e3cc137

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1.227 structured-merge-diff 4.2.3

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