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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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1.78 github.com/victoriametrics/operator (devel)

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Found in path(s):

* /opt/cola/permits/1361870282_1681917901.6425536/0/operator-tar-

 $gz/operator/api/v1beta1/zz_generated.deepcopy.go$

- * /opt/cola/permits/1361870282_1681917901.6425536/0/operator-tar-gz/operator/api/v1beta1/groupversion_info.go
- $* / opt/cola/permits/1361870282_1681917901.6425536/0/operator-tar-gz/operator/api/v1beta1/vmauth_webhook.go$
- $* / opt/cola/permits/1361870282_1681917901.6425536/0/operator-tar-gz/operator/api/v1beta1/vmuser_webhook.go$

*

/opt/cola/permits/1361870282_1681917901.6425536/0/operator-tar-

 $gz/operator/api/v1beta1/vmalertmanagerconfig_types.go$

 $*/opt/cola/permits/1361870282_1681917901.6425536/0/operator-tar-gz/operator/api/v1beta1/vmprobe_types.go$

* /opt/cola/permits/1361870282_1681917901.6425536/0/operator-tar-

 $gz/operator/api/v1 beta 1/vmalertmanagerconfig_webhook.go$

1.79 golang 1.18.4

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1.81 x-sys 0.0.0-20220712014510-

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1.86 prometheus-operator (devel)

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1.96 zlib 1.2.13-r0

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/* zlib.h -- interface of the 'zlib' general purpose compression library version 1.2.13, October 13th, 2022

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The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files http://tools.ietf.org/html/rfc1950 (zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).

1.97 apk-tools 2.12.10-r1

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1.98 thanos 0.27.0

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1.101 musl 1.2.3-r4

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1.102 alpine-baselayout-data 3.4.0-r0

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```
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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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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/*

* Create mount directories in fstab

*

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*

* 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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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 \setminus
 --host=$CHOST \
 --prefix=/usr \setminus
|| return 1
make || return 1
}
package() {
cd "$ builddir"
make DESTDIR="$pkgdir" install || return 1
}
```

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

1.103 busybox 1.35.0-r29

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1.104 ssl-client 1.35.0-r29

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1.105 alpine-baselayout 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
}
```

```
md5sums="0c5fd53d93818566234578b27d667b35 Software-License-0.103004.tar.gz" Permission is hereby irrevocably granted to everyone to use, copy, modify, and distribute this source code, or portions hereof, or executable programs compiled from it, for any purpose, without payment of any fee, subject to the following restrictions:
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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 || 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"

1.106 go-restful 3.10.0

1.106.1 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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1.113 x-time-rate 0.3.0

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1.114 zapr v1.2.3

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1.115 ca-certificates 20220614-r4

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/* c_rehash.c - Create hash symlinks for certificates

* C implementation based on the original Perl and shell versions

```
*
```

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1.116 prometheus-client 0.2.0

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1.117 x-net v0.0.0-20181114220301-

adae6a3d119a

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1.118 github.com/google/gnostic v0.6.9 1.118.1 Available under license :

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1.120 fasttemplate v1.2.2

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1.123 scanelf 1.3.5-r1

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1.124 ca-certificates-bundle 20220614-r4

1.124.1 Available under license :

No license file was found, but licenses were detected in source scan.

- # * You may opt to use, copy, modify, merge, publish, distribute and/or sell
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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
                                         CK_TRUE
# CKA_TOKEN
                        CK BBOOL
# CKA PRIVATE
                         CK BBOOL
                                         CK FALSE
# CKA MODIFIABLE
                           CK BBOOL
                                            CK FALSE
# CKA_LABEL
                        UTF8
                                     (varies)
# CKA_CERTIFICATE_TYPE
                               CK_CERTIFICATE_TYPE CKC_X_509
# CKA SUBJECT
                         DER+base64
                                         (varies)
# CKA_ID
                     byte array
                                  (varies)
#
CKA_ISSUER
                       DER+base64
                                       (varies)
# CKA_SERIAL_NUMBER
                              DER+base64
                                              (varies)
# CKA_VALUE
                                        (varies)
                        DER+base64
# 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_FALSE CK_BBOOL # CKA_LABEL UTF8 (varies) # CKA ISSUER DER+base64 (varies) # CKA_SERIAL_NUMBER DER+base64 (varies) # CKA_CERT_HASH binary+base64 (varies) # CKA_EXPIRES CK DATE (not used here) # CKA_TRUST_DIGITAL_SIGNATURE CK_TRUST (varies) # CKA_TRUST_NON_REPUDIATION CK_TRUST (varies) # CKA_TRUST_KEY_ENCIPHERMENT CK_TRUST (varies) # CKA_TRUST_DATA_ENCIPHERMENT CK_TRUST (varies) # CKA_TRUST_KEY_AGREEMENT CK_TRUST (varies) # CKA_TRUST_KEY_CERT_SIGN CK_TRUST (varies) # CKA TRUST CRL SIGN CK TRUST (varies) # CKA_TRUST_SERVER_AUTH CK_TRUST (varies) # CKA_TRUST_CLIENT_AUTH CK_TRUST (varies) # CKA TRUST CODE SIGNING CK TRUST (varies) # CKA_TRUST_EMAIL_PROTECTION CK_TRUST (varies) # CKA_TRUST_IPSEC_END_SYSTEM CK_TRUST (varies) # CKA_TRUST_IPSEC_TUNNEL CK TRUST (varies) # CKA_TRUST_IPSEC_USER CK_TRUST (varies) # CKA_TRUST_TIME_STAMPING CK TRUST (varies) # CKA_TRUST_STEP_UP_APPROVED CK_BBOOL (varies) # (other trust attributes can be defined)

#

#

The object to tell NSS that this is a root list and we don't # have to go looking for others.

#

BEGINDATA

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_BUILTIN_ROOT_LIST

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "Mozilla Builtin Roots"

#

Certificate "GlobalSign Root CA"

#

Issuer: CN=GlobalSign Root CA,OU=Root CA,O=GlobalSign nv-sa,C=BE

Serial Number:04:00:00:00:00:01:15:4b:5a:c3:94

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

Not Valid Before: Tue Sep 01 12:00:00 1998

Not Valid After : Fri Jan 28 12:00:00 2028

Fingerprint (SHA-256):

EB:D4:10:40:E4:BB:3E:C7:42:C9:E3:81:D3:1E:F2:A4:1A:48:B6:68:5C:96:E7:CE:F3:C1:DF:6C:D4:33:1C:99 # Fingerprint (SHA1): B1:BC:96:8B:D4:F4:9D:62:2A:A8:9A:81:F2:15:01:52:A4:1D:82:9C

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "GlobalSign

Root CA"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509 CKA_SUBJECT MULTILINE_OCTAL

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

\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} $$ 115 305 247 124 270 154 211 314 233 371 074 312 345 375 211 365 $$$ $\label{eq:22} 074 222 170 226 326 334 164 156 223 104 141 321 215 307 106$ \262\165\016\206\350\031\212\325\155\154\325\170\026\225\242\351 \310\012\070\353\362\044\023\117\163\124\223\023\205\072\033\274 \036\064\265\213\005\214\271\167\213\261\333\037\040\221\253\011 \123\156\220\316\173\067\164\271\160\107\221\042\121\143\026\171 \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 $\label{eq:24} $$ 024\140\173\146\032\105\015\227\312\211\120\057\175\004\315\064 $$$ \250\377\374\375\113\060\015\006\011\052\206\110\206\367\015\001 \001\005\005\000\003\202\001\001\000\326\163\347\174\117\166\320 \215\277\354\272\242\276\064\305\050\062\265\174\374\154\234\054 \053\275\011\236\123\277\153\136\252\021\110\266\345\010\243\263 \312\075\141\115\323\106\011\263\076\303\240\343\143\125\033\362 \272\357\255\071\341\103\271\070\243\346\057\212\046\073\357\240 \120\126\371\306\012\375\070\315\304\013\160\121\224\227\230\004 $\label{eq:337} 303 137 224 325 025 311 024 101 234 304 135 165 144 025 015$ \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 \261\274\226\213\324\364\235\142\052\250\232\201\362\025\001\122 \244\035\202\234 END CKA_CERT_MD5_HASH MULTILINE_OCTAL \076\105\122\025\011\121\222\341\267\135\067\237\261\207\051\212 **END** CKA ISSUER MULTILINE OCTAL \060\127\061\013\060\011\006\003\125\004\006\023\002\102\105\061 \031\060\027\006\003\125\004\012\023\020\107\154\157\142\141\154 \123\151\147\156\040\156\166\055\163\141\061\020\060\016\006\003 \125\004\013\023\007\122\157\157\164\040\103\101\061\033\060\031 \006\003\125\004\003\023\022\107\154\157\142\141\154\123\151\147 156040122157157164040103101**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 "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 $\label{eq:151147156054040111156143056061037060035006003125$ \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 $\label{eq:2.125} 004 013 023 061 050 143 051 040 061 071 071 071 040 126 145$ \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 $\label{eq:104} \end{tabular} \end{tabular}$ \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 $\label{eq:151147156054040111156143056061037060035006003125$ \004\013\023\026\126\145\162\151\123\151\147\156\040\124\162\165 \163\164\040\116\145\164\167\157\162\153\061\072\060\070\006\003 \125\004\013\023\061\050\143\051\040\061\071\071\071\040\126\145 \162\151\123\151\147\156\054\040\111\156\143\056\040\055\040\106 \157\162\040\141\165\164\150\157\162\151\172\145\144\040\165\163 \145\040\157\156\154\171\061\105\060\103\006\003\125\004\003\023 \074\126\145\162\151\123\151\147\156\040\103\154\141\163\163\040 **END** CKA_SERIAL_NUMBER MULTILINE_OCTAL \002\021\000\213\133\165\126\204\124\205\013\000\317\257\070\110 \316\261\244 END CKA_VALUE MULTILINE_OCTAL

\060\202\004\032\060\202\003\002\002\021\000\213\133\165\126\204 $\label{eq:205_013_000_317_257_070_110_316_261_244_060_015_006_011_052$ \206\110\206\367\015\001\001\005\005\000\060\201\312\061\013\060 \011\006\003\125\004\006\023\002\125\123\061\027\060\025\006\003 \125\004\012\023\016\126\145\162\151\123\151\147\156\054\040\111 \156\143\056\061\037\060\035\006\003\125\004\013\023\026\126\145 $\label{eq:162} $$ 162\151\123\151\147\156\040\124\162\165\163\164\040\116\145\164\$ \167\157\162\153\061\072\060\070\006\003\125\004\013\023\061\050 \054\040\111\156\143\056\040\055\040\106\157\162\040\141\165\164 \150\157\162\151\172\145\144\040\165\163\145\040\157\156\154\171 \061\105\060\103\006\003\125\004\003\023\074\126\145\162\151\123 \151\147\156\040\103\154\141\163\163\040\061\040\120\165\142\154 $\label{eq:146} \\ 146 \\ 151 \\ 143 \\ 141 \\ 164 \\ 151 \\ 157 \\ 156 \\ 040 \\ 101 \\ 165 \\ 164 \\ 150 \\ 157 \\ 162 \\ 151 \\ 162 \\$ \164\171\040\055\040\107\063\060\036\027\015\071\071\061\060\060 \061\060\060\060\060\060\060\060\132\027\015\063\066\060\067\061\066 \062\063\065\071\065\071\132\060\201\312\061\013\060\011\006\003 \125\004\006\023\002\125\123\061\027\060\025\006\003\125\004\012 $\label{eq:23} 016 126 145 162 151 123 151 147 156 054 040 111 156 143 056$ \061\037\060\035\006\003\125\004\013\023\026\126\145\162\151\123 $\label{eq:151} $$ 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 $\label{eq:1061} $$ 061\071\071\071\040\126\145\162\151\123\151\147\156\054\040\111 $$$ $\label{eq:151} $$ 151\172\145\144\040\165\163\145\040\157\156\154\171\061\105\060\$ \103\006\003\125\004\003\023\074\126\145\162\151\123\151\147\156 $\label{eq:103} \\ 103 \\ 154 \\ 141 \\ 163 \\ 163 \\ 040 \\ 061 \\ 040 \\ 120 \\ 165 \\ 142 \\ 154 \\ 151 \\ 143 \\ 040 \\ 061 \\ 040 \\ 120 \\ 165 \\ 142 \\ 154 \\ 151 \\ 143 \\ 040 \\ 120 \\ 165 \\ 142 \\ 154 \\ 151 \\ 143 \\ 040 \\ 120 \\ 165 \\ 142 \\ 154 \\ 151 \\ 143 \\ 040 \\ 120 \\ 165 \\ 142 \\ 154 \\ 151 \\ 143 \\ 104 \\ 104 \\ 120 \\ 165 \\ 142 \\ 154 \\ 151 \\ 143 \\ 104 \\ 104 \\ 120 \\ 165 \\ 142 \\ 154 \\ 151 \\ 143 \\ 104 \\ 104 \\ 104 \\ 120 \\ 104 \\ 120 \\ 165 \\ 142 \\ 154 \\ 151 \\ 143 \\ 104 \\$ $\label{eq:120} \\ 120\\162\\151\\155\\141\\162\\171\\040\\103\\145\\162\\164\\151\\146\\151\\146\\151\\143\\$ $\label{eq:141} $$ 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 $\label{eq:224} 310 030 071 355 376 102 030 126 337 344 114 111 020 170 116$ \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 $\label{eq:335} $$ 366 $$ 252 $$ 43 $$ 332 $$ 5 $$ 252 $$ 155 $$ 21121 $$ 41 $$ 153 $$ 366 $$ 252 $$ 43 $$ 150 $$ 252 $$ 155 $$ 21121 $$ 41 $$ 153 $$ 155 $$ 21121 $$ 121$

\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 \266\322\210\134\263\237\315\313\324\247\331\140\225\204\072\370 \301\067\035\141\312\347\260\305\345\221\332\124\246\254\061\201 \256\227\336\315\010\254\270\300\227\200\177\156\162\244\347\151 \023\225\145\037\304\223\074\375\171\217\004\324\076\117\352\367 \236\316\315\147\174\117\145\002\377\221\205\124\163\307\377\066 \367\206\055\354\320\136\117\377\021\237\162\006\326\270\032\361 $\label{eq:114} $$ 14\015\046\145\342\104\200\036\307\237\343\335\350\012\332\354\$ \245\040\200\151\150\241\117\176\341\153\317\007\101\372\203\216 \274\070\335\260\056\021\261\153\262\102\314\232\274\371\110\042 \171\112\031\017\262\034\076\040\164\331\152\303\276\362\050\170 \023\126\171\117\155\120\352\033\260\265\127\261\067\146\130\043 \363\334\017\337\012\207\304\357\206\005\325\070\024\140\231\243 \113\336\006\226\161\054\362\333\266\037\244\357\077\356 END

CKA_NSS_MOZILLA_CA_POLICY

CK_BBOOL CK_TRUE

CKA_NSS_SERVER_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 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

 $\label{eq:205} $$ 040\102\205\334\367\353\166\101\225\127\216\023\153\324\267\321\$

351 106 245

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

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

 $\label{eq:2021} \\ 002 \\ 021 \\ 000 \\ 213 \\ 133 \\ 165 \\ 126 \\ 204 \\ 124 \\ 205 \\ 013 \\ 000 \\ 317 \\ 257 \\ 070 \\ 110$

\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_VALUE MULTILINE_OCTAL \060\202\004\031\060\202\003\001\002\020\141\160\313\111\214\137 \230\105\051\347\260\246\331\120\133\172\060\015\006\011\052\206 \110\206\367\015\001\001\005\005\000\060\201\312\061\013\060\011 \006\003\125\004\006\023\002\125\123\061\027\060\025\006\003\125 \004\012\023\016\126\145\162\151\123\151\147\156\054\040\111\156 \143\056\061\037\060\035\006\003\125\004\013\023\026\126\145\162 \151\123\151\147\156\040\124\162\165\163\164\040\116\145\164\167 \157\162\153\061\072\060\070\006\003\125\004\013\023\061\050\143 \051\040\061\071\071\071\040\126\145\162\151\123\151\147\156\054 \040\111\156\143\056\040\055\040\106\157\162\040\141\165\164\150

END

\133\172

MULTILINE_OCTAL \002\020\141\160\313\111\214\137\230\105\051\347\260\246\331\120

CKA_SERIAL_NUMBER

END

CKA_ISSUER MULTILINE_OCTAL \060\201\312\061\013\060\011\006\003\125\004\006\023\002\125\123 \061\027\060\025\006\003\125\004\012\023\016\126\145\162\151\123 \151\147\156\054\040\111\156\143\056\061\037\060\035\006\003\125 \004\013\023\026\126\145\162\151\123\151\147\156\040\124\162\165 \163\164\040\116\145\164\167\157\162\153\061\072\060\070\006\003 \125\004\013\023\061\050\143\051\040\061\071\071\071\040\126\145 \162\151\123\151\147\156\054\040\111\156\143\056\040\055\040\106 \157\162\040\141\165\164\150\157\162\151\172\145\144\040\165\163 \145\040\157\156\154\171\061\105\060\103\006\003\125\004\003\023 \074\126\145\162\151\123\151\147\156\040\103\154\141\163\164 \062\040\120\165\142\154\151\143\040\120\162\151\155\141\162\171 \040\103\145\162\151\123\151\147\1040\055\040\101 \165\164\150\157\162\151\164\171\040\055\040\107\063

UTF8 "0"

CKA ID

END

CKA_SUBJECT MULTILINE_OCTAL \060\201\312\061\013\060\011\006\003\125\004\006\023\002\125\123 \061\027\060\025\006\003\125\004\012\023\016\126\145\162\151\123 \151\147\156\054\040\111\156\143\056\061\037\060\035\006\003\125 \004\013\023\026\126\145\162\151\123\151\147\156\040\124\162\165 \163\164\040\116\145\164\167\157\162\153\061\072\060\070\006\003 \125\004\013\023\061\050\143\051\040\061\071\071\071\040\126\145 \162\151\123\151\147\156\054\040\111\156\143\056\040\055\040\106 \157\162\040\141\165\164\150\157\162\151\172\145\144\040\165\163 \145\040\157\156\154\171\061\105\060\103\006\003\125\004\003\023 \074\126\145\162\151\123\151\147\156\040\103\154\141\163\163\040 \062\040\120\165\142\154\151\143\040\120\162\151\155\141\162\171 \040\103\145\162\151\164\151\143\141\164\151\157\156\040\101 \165\164\150\157\162\151\164\171\040\055\040\107\063

\157\162\151\172\145\144\040\165\163\145\040\157\156\154\171\061 \105\060\103\006\003\125\004\003\023\074\126\145\162\151\123\151 \147\156\040\103\154\141\163\163\040\062\040\120\165\142\154\151 \143\040\120\162\151\155\141\162\171\040\103\145\162\164\151\146 $\label{eq:151} $$ 151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164$ \171\040\055\040\107\063\060\036\027\015\071\071\061\060\060\061 \060\060\060\060\060\060\132\027\015\063\066\060\067\061\066\062 \063\065\071\065\071\132\060\201\312\061\013\060\011\006\003\125 \004\006\023\002\125\123\061\027\060\025\006\003\125\004\012\023 \016\126\145\162\151\123\151\147\156\054\040\111\156\143\056\061 \037\060\035\006\003\125\004\013\023\026\126\145\162\151\123\151 \061\072\060\070\006\003\125\004\013\023\061\050\143\051\040\061 $\label{eq:1071} 071 \\ 071 \\ 071 \\ 071 \\ 040 \\ 126 \\ 145 \\ 162 \\ 151 \\ 123 \\ 151 \\ 147 \\ 156 \\ 054 \\ 040 \\ 111 \\ 156 \\ 054 \\$ $\label{eq:143} $$ 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 $\label{eq:2.1} \end{tabular} \end{tabular}$ \103\154\141\163\163\040\062\040\120\165\142\154\151\143\040\120 \040\107\063\060\202\001\042\060\015\006\011\052\206\110\206\367 \015\001\001\001\005\000\003\202\001\017\000\060\202\001\012\002 \202\001\001\000\257\012\015\302\325\054\333\147\271\055\345\224 \047\335\245\276\340\260\115\217\263\141\126\074\326\174\303\364 \315\076\206\313\242\210\342\341\330\244\151\305\265\342\277\301 \246\107\120\136\106\071\213\325\226\272\265\157\024\277\020\316 \047\023\236\005\107\233\061\172\023\330\037\331\323\002\067\213 \255\054\107\360\216\201\006\247\015\060\014\353\367\074\017\040 \035\334\162\106\356\245\002\310\133\303\311\126\151\114\305\030 \301\221\173\013\325\023\000\233\274\357\303\110\076\106\140\040 \205\052\325\220\266\315\213\240\314\062\335\267\375\100\125\262 \120\034\126\256\314\215\167\115\307\040\115\247\061\166\357\150 \222\212\220\036\010\201\126\262\255\151\243\122\320\313\034\304 \043\075\037\231\376\114\350\026\143\216\306\010\216\366\061\366 \322\372\345\166\335\265\034\222\243\111\315\315\001\315\150\315 \251\151\272\243\353\035\015\234\244\040\246\301\240\305\321\106 \114\027\155\322\254\146\077\226\214\340\204\324\066\377\042\131 \305\371\021\140\250\137\004\175\362\032\366\045\102\141\017\304 \112\270\076\211\002\003\001\000\001\060\015\006\011\052\206\110 \206\367\015\001\001\005\005\000\003\202\001\001\000\064\046\025 \074\300\215\115\103\111\035\275\351\041\222\327\146\234\267\336 \305\270\320\344\135\137\166\042\300\046\371\204\072\072\371\214 \265\373\354\140\361\350\316\004\260\310\335\247\003\217\060\363 \230\337\244\346\244\061\337\323\034\013\106\334\162\040\077\256 \356\005\074\244\063\077\013\071\254\160\170\163\113\231\053\337 \060\302\124\260\250\073\125\241\376\026\050\315\102\275\164\156 \200\333\047\104\247\316\104\135\324\033\220\230\015\036\102\224 \261\000\054\004\320\164\243\002\005\042\143\143\315\203\265\373

 $\label{eq:solution} $$ 11155142153151165375135160101271365277174337276 \\ 301062163042041213130201173025221172272343144110 \\ 26017737306604532225320361044024027335030200153 \\ 106043071124365216142011004035224220246233346045 \\ 342102105252270220255276010217251013102030224317 \\ 162071341261103340050317267347132154023153111263 \\ 377343030174211213063135254063327247371332072125 \\ 31113002037125235713226631711311337052 \\ \end{tabular}$

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} \end{tabular} $$ \0.062\0.060\0$

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

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

CKA_SERIAL_NUMBER

MULTILINE_OCTAL

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

\133\172 END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST CKA_TRUST_EMAIL_PROTECTION

CK_TRUST CKT_NSS_TRUSTED_DELEGATOR

CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST

CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#

Certificate "Entrust.net Premium 2048 Secure Server CA"

#

Issuer: CN=Entrust.net Certification Authority (2048),OU=(c) 1999 Entrust.net

Limited,OU=www.entrust.net/CPS_2048 incorp. by ref. (limits liab.),O=Entrust.net

Serial Number: 946069240 (0x3863def8)

Subject: CN=Entrust.net Certification Authority (2048),OU=(c) 1999 Entrust.net

Limited,OU=www.entrust.net/CPS_2048 incorp. by ref. (limits liab.),O=Entrust.net

Not Valid Before: Fri Dec 24 17:50:51 1999

Not Valid After : Tue Jul 24 14:15:12 2029

Fingerprint (SHA-256):

6D:C4:71:72:E0:1C:BC:B0:BF:62:58:0D:89:5F:E2:B8:AC:9A:D4:F8:73:80:1E:0C:10:B9:C8:37:D2:1E:B1:77 # Fingerprint (SHA1): 50:30:06:09:1D:97:D4:F5:AE:39:F7:CB:E7:92:7D:7D:65:2D:34:31

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

CKA TOKEN CK BBOOL CK TRUE

CKA PRIVATE CK BBOOL CK FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL

UTF8 "Entrust.net Premium 2048 Secure Server CA"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL

\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

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 \156\143\157\162\160\056\040\142\171\040\162\145\146\056\040\050 \154\151\155\151\164\163\040\154\151\141\142\056\051\061\045\060 \043\006\003\125\004\013\023\034\050\143\051\040\061\071\071\071 \040\105\156\164\162\165\163\164\056\156\145\164\040\114\151\155 \151\164\145\144\061\063\060\061\006\003\125\004\003\023\052\105 \156\164\162\165\163\164\056\156\145\164\040\103\145\162\164\151 \146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151 \164\171\040\050\062\060\064\070\051\060\036\027\015\071\071\061 \062\062\064\061\067\065\060\065\061\132\027\015\062\071\060\067 \062\064\061\064\061\065\061\062\132\060\201\264\061\024\060\022 \006\003\125\004\012\023\013\105\156\164\162\165\163\164\056\156 \145\164\061\100\060\076\006\003\125\004\013\024\067\167\167\167 \056\145\156\164\162\165\163\164\056\156\145\164\057\103\120\123 \137\062\060\064\070\040\151\156\143\157\162\160\056\040\142\171 \040\162\145\146\056\040\050\154\151\155\151\164\163\040\154\151 \141\142\056\051\061\045\060\043\006\003\125\004\013\023\034\050 \143\051\040\061\071\071\071\040\105\156\164\162\165\163\164\056

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL \002\004\070\143\336\370

END

CKA_ISSUER MULTILINE_OCTAL \060\201\264\061\024\060\022\006\003\125\004\012\023\013\105\156 \164\162\165\163\164\056\156\145\164\061\100\060\076\006\003\125 \004\013\024\067\167\167\167\056\145\156\164\162\165\163\164\056 \156\145\164\057\103\120\123\137\062\060\064\070\040\151\156\143 \157\162\160\056\040\142\171\040\162\145\146\056\040\050\154\151 \155\151\164\163\040\154\151\141\142\056\051\061\045\060\043\006 \003\125\004\013\023\034\050\143\051\040\061\071\071\071\040\105 \156\164\162\165\163\164\056\156\145\164\040\114\151\155\151\164 \145\144\061\063\060\061\006\003\125\004\003\023\052\105\156\164 \162\165\163\164\056\156\145\164\040\103\145\162\164\151\146\151 \143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171 \040\050\062\060\064\070\051

CKA ID UTF8 "0"

END

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

 $\label{eq:145144061063060061006003125004003023052105156164} \\ 162165163164056156145164040103145162164151146151 \\ 143141164151157156040101165164150157162151164171 \\ \label{eq:1451}$

\156\145\164\040\114\151\155\151\164\145\144\061\063\060\061\006 \003\125\004\003\023\052\105\156\164\162\165\163\164\056\156\145 \164\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040 \101\165\164\150\157\162\151\164\171\040\050\062\060\064\070\051 \060\202\001\042\060\015\006\011\052\206\110\206\367\015\001\001 \001\005\000\003\202\001\017\000\060\202\001\012\002\202\001\001 \000\255\115\113\251\022\206\262\352\243\040\007\025\026\144\052 \053\113\321\277\013\112\115\216\355\200\166\245\147\267\170\100 \300\163\102\310\150\300\333\123\053\335\136\270\166\230\065\223 \213\032\235\174\023\072\016\037\133\267\036\317\345\044\024\036 \261\201\251\215\175\270\314\153\113\003\361\002\014\334\253\245 \100\044\000\177\164\224\241\235\010\051\263\210\013\365\207\167 \235\125\315\344\303\176\327\152\144\253\205\024\206\225\133\227 $\label{eq:120} \\ 120 \\ 157 \\ 075 \\ 310 \\ 272 \\ 146 \\ 014 \\ 343 \\ 374 \\ 275 \\ 270 \\ 111 \\ 301 \\ 166 \\ 211 \\ 311 \\$ \270\055\351\054\311\220\166\146\173\224\342\257\170\326\145\123 $\label{eq:234} $$ 135\074\326\234\262\317\051\003\371\057\244\120\262\324\110\316\8\\$ \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 \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

Trust for "Entrust.net Premium 2048 Secure Server CA" # Issuer: CN=Entrust.net Certification Authority (2048),OU=(c) 1999 Entrust.net Limited,OU=www.entrust.net/CPS_2048 incorp. by ref. (limits liab.),O=Entrust.net # Serial Number: 946069240 (0x3863def8) # Subject: CN=Entrust.net Certification Authority (2048),OU=(c) 1999 Entrust.net Limited,OU=www.entrust.net/CPS_2048 incorp. by ref. (limits liab.),O=Entrust.net # Not Valid Before: Fri Dec 24 17:50:51 1999 # Not Valid After : Tue Jul 24 14:15:12 2029 # Fingerprint (SHA-256): 6D:C4:71:72:E0:1C:BC:B0:BF:62:58:0D:89:5F:E2:B8:AC:9A:D4:F8:73:80:1E:0C:10:B9:C8:37:D2:1E:B1:77 # Fingerprint (SHA1): 50:30:06:09:1D:97:D4:F5:AE:39:F7:CB:E7:92:7D:7D:65:2D:34:31 CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST CKA_TOKEN CK BBOOL CK TRUE CKA_PRIVATE CK_BBOOL CK_FALSE CKA MODIFIABLE CK BBOOL CK FALSE CKA_LABEL UTF8 "Entrust.net Premium 2048 Secure Server CA" CKA_CERT_SHA1_HASH MULTILINE_OCTAL \120\060\006\011\035\227\324\365\256\071\367\313\347\222\175\175 \145\055\064\061 END CKA CERT MD5 HASH MULTILINE OCTAL \356\051\061\274\062\176\232\346\350\265\367\121\264\064\161\220 END CKA ISSUER MULTILINE OCTAL \060\201\264\061\024\060\022\006\003\125\004\012\023\013\105\156 \164\162\165\163\164\056\156\145\164\061\100\060\076\006\003\125 \004\013\024\067\167\167\167\056\145\156\164\162\165\163\164\056 \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 $\label{eq:143} \\ 141 \\ 164 \\ 151 \\ 157 \\ 156 \\ 040 \\ 101 \\ 165 \\ 164 \\ 150 \\ 157 \\ 162 \\ 151 \\ 164 \\ 171 \\ 164 \\$ \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_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

\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

\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

\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

Open Source Used In vmoperator Crafton-3.0 566

CKA TOKEN

END

END

END

CKA_ID UTF8 "0"

CKA SERIAL NUMBER MULTILINE OCTAL \002\004\002\000\000\271

CKA_VALUE MULTILINE_OCTAL

CK_BBOOL CK_TRUE

CKA PRIVATE CK BBOOL CK FALSE

CKA_SUBJECT MULTILINE_OCTAL

CKA ISSUER MULTILINE OCTAL

CKA_MODIFIABLE CK_BBOOL CK_FALSE CKA LABEL UTF8 "Baltimore CyberTrust Root"

145 162 124 162 165 163 164 040 122 157 157 164

\171\142\145\162\124\162\165\163\164\040\122\157\157\164\060\036 \027\015\060\060\060\065\061\062\061\070\064\066\060\060\132\027 \015\062\065\060\065\061\062\063\065\071\060\060\132\060\132 \061\013\060\011\006\003\125\004\006\023\002\111\105\061\022\060 \020\006\003\125\004\012\023\011\102\141\154\164\151\155\157\162 \145\061\023\060\021\006\003\125\004\013\023\012\103\171\142\145 \162\124\162\165\163\164\061\042\060\040\006\003\125\004\003\023 \031\102\141\154\164\151\155\157\162\145\040\103\171\142\145\162 \124\162\165\163\164\040\122\157\157\164\060\202\001\042\060\015 \006\011\052\206\110\206\367\015\001\001\001\005\000\003\202\001 \017\000\060\202\001\012\002\202\001\001\000\243\004\273\042\253 \230\075\127\350\046\162\232\265\171\324\051\342\341\350\225\200 \261\260\343\133\216\053\051\232\144\337\241\135\355\260\011\005 \155\333\050\056\316\142\242\142\376\264\210\332\022\353\070\353 \041\235\300\101\053\001\122\173\210\167\323\034\217\307\272\271 \210\265\152\011\347\163\350\021\100\247\321\314\312\142\215\055 \345\217\013\246\120\322\250\120\303\050\352\365\253\045\207\212 \232\226\034\251\147\270\077\014\325\367\371\122\023\057\302\033 \325\160\160\360\217\300\022\312\006\313\232\341\331\312\063\172 \167\326\370\354\271\361\150\104\102\110\023\322\300\302\244\256 \136\140\376\266\246\005\374\264\335\007\131\002\324\131\030\230 \143\365\245\143\340\220\014\175\135\262\006\172\363\205\352\353 \324\003\256\136\204\076\137\377\025\355\151\274\371\071\066\162 \165\317\167\122\115\363\311\220\054\271\075\345\311\043\123\077 \037\044\230\041\134\007\231\051\275\306\072\354\347\156\206\072 \153\227\164\143\063\275\150\030\061\360\170\215\166\277\374\236 \216\135\052\206\247\115\220\334\047\032\071\002\003\001\000\001 \243\105\060\103\060\035\006\003\125\035\016\004\026\004\024\345 \235\131\060\202\107\130\314\254\372\010\124\066\206\173\072\265 \004\115\360\060\022\006\003\125\035\023\001\001\377\004\010\060 \006\001\001\377\002\001\003\060\016\006\003\125\035\017\001\001 \377\004\004\003\002\001\006\060\015\006\011\052\206\110\206\367 \015\001\001\005\005\000\003\202\001\001\000\205\014\135\216\344 \157\121\150\102\005\240\335\273\117\047\045\204\003\275\367\144 \375\055\327\060\343\244\020\027\353\332\051\051\266\171\077\166 \366\031\023\043\270\020\012\371\130\244\324\141\160\275\004\141 \152\022\212\027\325\012\275\305\274\060\174\326\351\014\045\215 \206\100\117\354\314\243\176\070\306\067\021\117\355\335\150\061 \216\114\322\263\001\164\356\276\165\136\007\110\032\177\160\377 $\label{eq:204} \end{tabular} \end{tabular}$ \002\264\370\122\067\071\004\325\251\061\172\030\277\240\052\364 \022\231\367\243\105\202\343\074\136\365\235\236\265\310\236\174 \056\310\244\236\116\010\024\113\155\375\160\155\153\032\143\275 \144\346\037\267\316\360\362\237\056\273\033\267\362\120\210\163 \222\302\342\343\026\215\232\062\002\253\216\030\335\351\020\021 \356\176\065\253\220\257\076\060\224\172\320\063\075\247\145\017 \365\374\216\236\142\317\107\104\054\001\135\273\035\265\062\322 \107\322\070\056\320\376\201\334\062\152\036\265\356\074\325\374

\347\201\035\031\303\044\102\352\143\071\251 END CKA_NSS_MOZILLA_CA_POLICY CK BBOOL CK TRUE CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE # Trust for "Baltimore CyberTrust Root" # Issuer: CN=Baltimore CyberTrust Root,OU=CyberTrust,O=Baltimore,C=IE # Serial Number: 33554617 (0x20000b9) # Subject: CN=Baltimore CyberTrust Root,OU=CyberTrust,O=Baltimore,C=IE # Not Valid Before: Fri May 12 18:46:00 2000 # Not Valid After : Mon May 12 23:59:00 2025 # Fingerprint (SHA-256): 16:AF:57:A9:F6:76:B0:AB:12:60:95:AA:5E:BA:DE:F2:2A:B3:11:19:D6:44:AC:95:CD:4B:93:DB:F3:F2:6A:EB # Fingerprint (SHA1): D4:DE:20:D0:5E:66:FC:53:FE:1A:50:88:2C:78:DB:28:52:CA:E4:74 CKA CLASS CK OBJECT CLASS CKO NSS TRUST CKA TOKEN CK BBOOL CK TRUE CKA_PRIVATE CK_BBOOL CK_FALSE CKA MODIFIABLE CK BBOOL CK FALSE CKA_LABEL UTF8 "Baltimore CyberTrust Root" CKA_CERT_SHA1_HASH MULTILINE_OCTAL \324\336\040\320\136\146\374\123\376\032\120\210\054\170\333\050 \122\312\344\164 END CKA CERT MD5 HASH MULTILINE OCTAL \254\266\224\245\234\027\340\327\221\122\233\261\227\006\246\344 **END** CKA ISSUER MULTILINE OCTAL \060\132\061\013\060\011\006\003\125\004\006\023\002\111\105\061 \022\060\020\006\003\125\004\012\023\011\102\141\154\164\151\155 \157\162\145\061\023\060\021\006\003\125\004\013\023\012\103\171 \142\145\162\124\162\165\163\164\061\042\060\040\006\003\125\004 \003\023\031\102\141\154\164\151\155\157\162\145\040\103\171\142 145162124162165163164040122157157164END 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

151 164 171

END

CKA ID

UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL \002\004\105\153\120\124 END

CKA_VALUE

MULTILINE_OCTAL

 $\label{eq:202} \end{tabular} \end{tabular}$ \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 \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 $\label{eq:105} $$ 044\105\156\164\162\165\163\164\040\122\157\157\164\040\103\145 $$$ \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 \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 $\label{eq:156} $$ 156\143\157\162\160\157\162\141\164\145\144\040\142\171\040\162\$ \145\146\145\162\145\156\143\145\061\037\060\035\006\003\125\004 \013\023\026\050\143\051\040\062\060\066\040\105\156\164\162 \165\163\164\054\040\111\156\143\056\061\055\060\053\006\003\125 \004\003\023\044\105\156\164\162\165\163\164\040\122\157\157\164 $\label{eq:103} \\ 145 \\ 162 \\ 164 \\ 151 \\ 146 \\ 151 \\ 143 \\ 141 \\ 164 \\ 151 \\ 157 \\ 156 \\ 040 \\ 101 \\$ \165\164\150\157\162\151\164\171\060\202\001\042\060\015\006\011 \052\206\110\206\367\015\001\001\005\000\003\202\001\017\000 \060\202\001\012\002\202\001\001\000\266\225\266\103\102\372\306 \155\052\157\110\337\224\114\071\127\005\356\303\171\021\101\150 \066\355\354\376\232\001\217\241\070\050\374\367\020\106\146\056 \115\036\032\261\032\116\306\321\300\225\210\260\311\377\061\213 \063\003\333\267\203\173\076\040\204\136\355\262\126\050\247\370 \340\271\100\161\067\305\313\107\016\227\052\150\300\042\225\142 \025\333\107\331\365\320\053\377\202\113\311\255\076\336\114\333 \220\200\120\077\011\212\204\000\354\060\012\075\030\315\373\375 \052\131\232\043\225\027\054\105\236\037\156\103\171\155\014\134 \230\376\110\247\305\043\107\134\136\375\156\347\036\264\366\150 \105\321\206\203\133\242\212\215\261\343\051\200\376\045\161\210 \255\276\274\217\254\122\226\113\252\121\215\344\023\061\031\350 $\label{eq:116} $$ 15237333254263152325274071124161312172177 $$ 161312172177 $$ 161312172177 $$ 161312172177 $$ 161312172177 $$ 161312172177 $$ 161312172177 $$ 161312172177 $$ 161312172177 $$ 161312172177 $$ 161312172177 $$ 161312172177 $$ 1613177 $$ 1613177 $$ 161377 $$ 161$ \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 $\label{eq:244} \\ 344 \\ 147 \\ 244 \\ 246 \\ 123 \\ 200 \\ 307 \\ 206 \\ 146 \\ 244 \\ 361 \\ 367 \\ 113 \\ 103 \\ 373 \\ 204 \\ 103 \\ 373 \\ 204 \\ 103 \\$ 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 $\label{eq:226} $$ $$ 226 373 124 132 031 054 014 010 367 262 274 205 250 235 177 155 $$$ \073\122\263\052\333\347\324\204\214\143\366\017\313\046\001\221 \120\154\364\137\024\342\223\164\300\023\236\060\072\120\343\264 \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 \365\144\034\012\115\321\274\252\254\237\052\320\377\177\177\332 \175\352\261\355\060\045\301\204\332\064\322\133\170\203\126\354 \234\066\303\046\342\021\366\147\111\035\222\253\214\373\353\377 \172\356\205\112\247\120\200\360\247\134\112\224\056\137\005\231 \073\363\132\264\264\173\256\332\013\220\070\165\357\201\035\146 \322\367\127\160\066\263\277\374\050\257\161\045\205\133\023\376 \036\177\132\264\074 **END** CKA NSS MOZILLA CA POLICY CK BBOOL CK TRUE CKA_NSS_SERVER_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 \263\036\261\267\100\343\154\204\002\332\334\067\324\115\365\324 \147\111\122\371 END CKA_CERT_MD5_HASH MULTILINE_OCTAL \326\245\303\355\135\335\076\000\301\075\207\222\037\035\077\344 END CKA_ISSUER MULTILINE_OCTAL \060\201\260\061\013\060\011\006\003\125\004\006\023\002\125\123 \061\026\060\024\006\003\125\004\012\023\015\105\156\164\162\165 \163\164\054\040\111\156\143\056\061\071\060\067\006\003\125\004 \013\023\060\167\167\167\056\145\156\164\162\165\163\164\056\156 \156\143\145\061\037\060\035\006\003\125\004\013\023\026\050\143 \051\040\062\060\060\066\040\105\156\164\162\165\163\164\054\040 \111\156\143\056\061\055\060\053\006\003\125\004\003\023\044\105 \156\164\162\165\163\164\040\122\157\157\164\040\103\145\162\164 $\label{eq:151} 146 151 143 141 164 151 157 156 040 101 165 164 150 157 162$ \151\164\171 END CKA_SERIAL_NUMBER MULTILINE_OCTAL \002\004\105\153\120\124 **END** CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST CKA TRUST CODE SIGNING CK TRUST CKT_NSS_MUST_VERIFY_TRUST CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE # # Certificate "Certum Root CA" # # Issuer: CN=Certum CA,O=Unizeto Sp. z o.o.,C=PL # Serial Number: 65568 (0x10020) # Subject: CN=Certum CA,O=Unizeto Sp. z o.o.,C=PL # Not Valid Before: Tue Jun 11 10:46:39 2002 # Not Valid After : Fri Jun 11 10:46:39 2027 # Fingerprint (SHA-256): D8:E0:FE:BC:1D:B2:E3:8D:00:94:0F:37:D2:7D:41:34:4D:99:3E:73:4B:99:D5:65:6D:97:78:D4:D8:14:36:24 # Fingerprint (SHA1): 62:52:DC:40:F7:11:43:A2:2F:DE:9E:F7:34:8E:06:42:51:B1:81:18

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "Certum Root CA"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL

\060\076\061\013\060\011\006\003\125\004\006\023\002\120\114\061 \033\060\031\006\003\125\004\012\023\022\125\156\151\172\145\164 \157\040\123\160\056\040\172\040\157\056\157\056\061\022\060\020 \006\003\125\004\003\023\011\103\145\162\164\165\155\040\103\101 END

CKA ID

UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

CKA_SERIAL_NUMBER MULTILINE_OCTAL

002003001000040

END

CKA_VALUE MULTILINE_OCTAL

\060\202\003\014\060\202\001\364\240\003\002\001\002\002\003\001 \000\040\060\015\006\011\052\206\110\206\367\015\001\001\005\005 \000\060\076\061\013\060\011\006\003\125\004\006\023\002\120\114 \061\033\060\031\006\003\125\004\012\023\022\125\156\151\172\145 \164\157\040\123\160\056\040\172\040\157\056\157\056\061\022\060 \020\006\003\125\004\003\023\011\103\145\162\164\165\155\040\103 \101\060\036\027\015\060\062\060\066\061\061\061\060\064\066\063 \071\132\027\015\062\067\060\066\061\061\061\060\064\066\063\071 \132\060\076\061\013\060\011\006\003\125\004\006\023\002\120\114 \061\033\060\031\006\003\125\004\012\023\022\125\156\151\172\145 \164\157\040\123\160\056\040\172\040\157\056\157\056\061\022\060 \020\006\003\125\004\003\023\011\103\145\162\164\165\155\040\103 \101\060\202\001\042\060\015\006\011\052\206\110\206\367\015\001 $\label{eq:202} \end{tabular} \end{tabular}$ $\label{eq:201} \end{tabular} \end{tabular}$ \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 $\label{eq:170} $$ 103\103\173\244\141\260\330\130\314\341\154\146\176\234$ \363\011\136\125\143\204\325\250\357\363\261\056\060\150\263\304 \074\330\254\156\215\231\132\220\116\064\334\066\232\217\201\210 \120\267\155\226\102\011\363\327\225\203\015\101\113\260\152\153 \370\374\017\176\142\237\147\304\355\046\137\020\046\017\010\117 \360\244\127\050\316\217\270\355\105\366\156\356\045\135\252\156

\071\276\344\223\057\331\107\240\162\353\372\246\133\257\312\123 \077\342\016\306\226\126\021\156\367\351\146\251\046\330\177\225 \123\355\012\205\210\272\117\051\245\102\214\136\266\374\205\040 \000\252\150\013\241\032\205\001\234\304\106\143\202\210\266\042 \261\356\376\252\106\131\176\317\065\054\325\266\332\135\367\110 \063\024\124\266\353\331\157\316\315\210\326\253\033\332\226\073 \035\131\002\003\001\000\001\243\023\060\021\060\017\006\003\125 \035\023\001\001\377\004\005\060\003\001\001\377\060\015\006\011 \052\206\110\206\367\015\001\001\005\005\000\003\202\001\001\000 \270\215\316\357\347\024\272\317\356\260\104\222\154\264\071\076 \114\353\075\252\147\157\055\324\315\376\145\061\160\305\033\246 \002\012\272\140\173\155\130\302\232\111\376\143\062\013\153\343 \072\300\254\253\073\260\350\323\011\121\214\020\203\306\064\340 \305\053\340\032\266\140\024\047\154\062\167\214\274\262\162\230 \317\315\314\077\271\310\044\102\024\326\127\374\346\046\103\251 \035\345\200\220\316\003\124\050\076\367\077\323\370\115\355\152 \012\072\223\023\233\073\024\043\023\143\234\077\321\207\047\171 \345\114\121\343\001\255\205\135\032\073\261\325\163\020\244\323 \362\274\156\144\365\132\126\220\250\307\016\114\164\017\056\161 $\label{eq:2.1} \end{tabular} \end{tabular}$ \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\334\100\367\021\103\242\057\336\236\367\064\216\006\102\$

\121\261\201\030

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL

\054\217\237\146\035\030\220\261\107\046\235\216\206\202\214\251 END

CKA_ISSUER MULTILINE_OCTAL

\060\076\061\013\060\011\006\003\125\004\006\023\002\120\114\061 \033\060\031\006\003\125\004\012\023\022\125\156\151\172\145\164 \157\040\123\160\056\040\172\040\157\056\157\056\061\022\060\020 \006\003\125\004\003\023\011\103\145\162\164\165\155\040\103\101 END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

002003001000040

END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST

CKA_TRUST_EMAIL_PROTECTION

CK_TRUST CKT_NSS_TRUSTED_DELEGATOR

CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST

CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#

Certificate "Comodo AAA Services root"

#

Issuer: CN=AAA Certificate Services,O=Comodo CA Limited,L=Salford,ST=Greater Manchester,C=GB

Serial Number: 1 (0x1)

Subject: CN=AAA Certificate Services,O=Comodo CA Limited,L=Salford,ST=Greater Manchester,C=GB

Not Valid Before: Thu Jan 01 00:00:00 2004

Not Valid After : Sun Dec 31 23:59:59 2028

Fingerprint (SHA-256):

D7:A7:A0:FB:5D:7E:27:31:D7:71:E9:48:4E:BC:DE:F7:1D:5F:0C:3E:0A:29:48:78:2B:C8:3E:E0:EA:69:9E:F4 # Fingerprint (SHA1): D1:EB:23:A4:6D:17:D6:8F:D9:25:64:C2:F1:F1:60:17:64:D8:E3:49

CKA CLASS CK OBJECT CLASS CKO CERTIFICATE

CKA_TOKEN CK_BBOOL CK_TRUE

CKA PRIVATE CK BBOOL CK FALSE

CKA MODIFIABLE CK BBOOL CK FALSE

CKA_LABEL UTF8 "Comodo AAA Services root"

```
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
```

CKA_SUBJECT MULTILINE_OCTAL

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\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
```

```
\label{eq:162} $$ 162\040\115\141\156\143\150\145\163\164\145\162\061\020\060\016\
```

\060\030\006\003\125\004\012\014\021\103\157\155\157\144\157\040

 $\label{eq:103} \end{tabular} $$ 103\101\040\114\151\155\151\164\145\144\061\041\060\037\006\003 \end{tabular} $$$

\143\141\164\145\040\123\145\162\166\151\143\145\163

END

CKA_ID

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 \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 $\label{eq:2.1} \end{tabular} \end{tabular}$ \141\164\145\040\123\145\162\166\151\143\145\163\060\036\027\015 \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 $\label{eq:2.107} \\ 003 \\ 125 \\ 004 \\ 010 \\ 014 \\ 022 \\ 107 \\ 162 \\ 145 \\ 141 \\ 164 \\ 145 \\ 162 \\ 040 \\ 115 \\ 141 \\ 164 \\ 145 \\ 162 \\ 040 \\ 115 \\ 141 \\ 164 \\ 145 \\ 162 \\ 040 \\ 115 \\ 141 \\ 164 \\ 145 \\ 162 \\ 040 \\ 115 \\ 141 \\ 164 \\ 145 \\ 162 \\ 040 \\ 115 \\ 141 \\ 164 \\ 145 \\ 162 \\ 040 \\ 115 \\ 141 \\ 164 \\ 145 \\ 162 \\ 040 \\ 115 \\ 141 \\ 164 \\ 145 \\ 162 \\ 040 \\ 115 \\ 141 \\ 164 \\ 145 \\ 162 \\ 040 \\ 115 \\ 141 \\ 164 \\ 145 \\ 162 \\ 040 \\ 115 \\ 141 \\ 164 \\ 145 \\ 162 \\ 040 \\ 115 \\ 141 \\ 164 \\ 145 \\ 162$ \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 \030\101\101\101\040\103\145\162\164\151\146\151\143\141\164\145 \040\123\145\162\166\151\143\145\163\060\202\001\042\060\015\006 \011\052\206\110\206\367\015\001\001\001\005\000\003\202\001\017 \000\060\202\001\012\002\202\001\001\000\276\100\235\364\156\341 \376\030\037\216\344\002\372\363\253\135\120\212\026\061\013\232 \006\320\305\160\042\315\111\055\124\143\314\266\156\150\106\013 \123\352\313\114\044\300\274\162\116\352\361\025\256\364\124\232 \022\012\303\172\262\063\140\342\332\211\125\363\042\130\363\336 \334\317\357\203\206\242\214\224\117\237\150\362\230\220\106\204 $\label{eq:20} \end{tabular} \end{tabular}$ \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

END

MULTILINE_OCTAL \002\001\001

CKA_SERIAL_NUMBER

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\040\103\145\162\164\151\146\151 \143\141\164\145\040\123\145\162\166\151\143\145\163

Open Source Used In vmoperator Crafton-3.0 576

\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 $\label{eq:237} $$ $$ 237 $$ 237 $$ 231 $$ 111 $$ 61 $$ 5337 $$ 254 $$ 164 $$ 115 $$ 230 $$$ \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 $\label{eq:336} \end{aligned} \end{aligned}$ \201\300\060\201\275\060\035\006\003\125\035\016\004\026\004\024 \240\021\012\043\076\226\361\007\354\342\257\051\357\202\245\177 \320\060\244\264\060\016\006\003\125\035\017\001\001\377\004\004 \003\002\001\006\060\017\006\003\125\035\023\001\001\377\004\005 \060\003\001\001\377\060\173\006\003\125\035\037\004\164\060\162 \060\070\240\066\240\064\206\062\150\164\164\160\072\057\057\143 \162\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 $\label{eq:146} \\ 146 \\ 151 \\ 143 \\ 141 \\ 164 \\ 145 \\ 123 \\ 145 \\ 162 \\ 166 \\ 151 \\ 143 \\ 145 \\ 163 \\ 056 \\ 143 \\ 145 \\ 163 \\ 056 \\ 143 \\ 145 \\ 162 \\ 166 \\ 151 \\ 143 \\ 145 \\ 163 \\ 056 \\ 143 \\ 145 \\ 162 \\ 166 \\ 151 \\ 143 \\ 145 \\ 163 \\ 056 \\ 143 \\ 145 \\ 162 \\ 166 \\ 151 \\ 143 \\ 145 \\ 163 \\ 056 \\ 143 \\ 145 \\ 162 \\ 166 \\ 151 \\ 143 \\ 145 \\ 163 \\ 056 \\ 143 \\ 145 \\ 162 \\ 166 \\ 151 \\ 143 \\ 145 \\ 163 \\ 165 \\ 163 \\ 163 \\ 165 \\ 163 \\$ \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 \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):

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

 $\label{eq:21} 353 043 244 155 027 326 217 331 045 144 302 361 361 140 027$

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\010\040\103\145\162\164\151\146\151 \143\141\164\145\040\123\145\162\166\151\143\145\163 END

CKA_SERIAL_NUMBER

MULTILINE_OCTAL

002 001 001

END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#

Certificate "QuoVadis Root CA 2"

#

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

Serial Number: 1289 (0x509)

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

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

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

Fingerprint (SHA-256):

85:A0:DD:7D:D7:20:AD:B7:FF:05:F8:3D:54:2B:20:9D:C7:FF:45:28:F7:D6:77:B1:83:89:FE:A5:E5:C4:9E:86

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

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

CKA_TOKEN CK_BBOOL CK_TRUE

```
CKA PRIVATE CK BBOOL CK FALSE
```

CKA MODIFIABLE CK BBOOL

CK FALSE

CKA LABEL UTF8 "QuoVadis Root CA 2"

CKA CERTIFICATE TYPE CK CERTIFICATE TYPE CKC X 509 CKA SUBJECT MULTILINE OCTAL

\060\105\061\013\060\011\006\003\125\004\006\023\002\102\115\061 \031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144 \151\163\040\114\151\155\151\164\145\144\061\033\060\031\006\003 \125\004\003\023\022\121\165\157\126\141\144\151\163\040\122\157 \157\164\040\103\101\040\062

END

CKA ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

\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

\060\105\061\013\060\011\006\003\125\004\006\023\002\102\115\061

\125\004\003\023\022\121\165\157\126\141\144\151\163\040\122\157

\157\164\040\103\101\040\062

END

CKA SERIAL NUMBER MULTILINE OCTAL

\002\002\005\011

END

CKA VALUE MULTILINE OCTAL

\060\202\005\267\060\202\003\237\240\003\002\001\002\002\002\005 \011\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000 \060\105\061\013\060\011\006\003\125\004\006\023\002\102\115\061 \031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144 \151\163\040\114\151\155\151\164\145\144\061\033\060\031\006\003 \125\004\003\023\022\121\165\157\126\141\144\151\163\040\122\157 \157\164\040\103\101\040\062\060\036\027\015\060\066\061\061\062 \064\061\070\062\067\060\060\132\027\015\063\061\061\061\062\064 \061\070\062\063\063\063\132\060\105\061\013\060\011\006\003\125 \004\006\023\002\102\115\061\031\060\027\006\003\125\004\012\023 $\label{eq:20} \end{tabular} \end{tabular}$ \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\062\060\202 $\label{eq:206} \end{tabular} \end{tabular}$ \000\003\202\002\017\000\060\202\002\012\002\202\002\001\000\232 \030\312\113\224\015\000\055\257\003\051\212\360\017\201\310\256 \114\031\205\035\010\237\253\051\104\205\363\057\201\255\062\036 \220\106\277\243\206\046\032\036\376\176\034\030\072\134\234\140 \027\052\072\164\203\063\060\175\141\124\021\313\355\253\340\346 \322\242\176\365\153\157\030\267\012\013\055\375\351\076\357\012 \306\263\020\351\334\302\106\027\370\135\375\244\332\377\236\111 \132\234\346\063\346\044\226\367\077\272\133\053\034\172\065\302 \326\147\376\253\146\120\213\155\050\140\053\357\327\140\303\307 \223\274\215\066\221\363\177\370\333\021\023\304\234\167\166\301

\256\267\002\152\201\172\251\105\203\342\005\346\271\126\301\224 \067\217\110\161\143\042\354\027\145\007\225\212\113\337\217\306 \132\012\345\260\343\137\136\153\021\253\014\371\205\353\104\351 \370\004\163\362\351\376\134\230\214\365\163\257\153\264\176\315 \324\134\002\053\114\071\341\262\225\225\055\102\207\327\325\263 \220\103\267\154\023\361\336\335\366\304\370\211\077\321\165\365 \222\303\221\325\212\210\320\220\354\334\155\336\211\302\145\161 \226\213\015\003\375\234\277\133\026\254\222\333\352\376\171\174 $\label{eq:255} $$ 257 367 026 313 333 315 045 053 345 037 373 232 237 342 $$$ \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 \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 $\label{eq:214} $$ $$ 26\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 $\label{eq:22} \end{tabular} \end{tabular} \label{eq:22} \end{tabular} \end{tabular}$ \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 \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 \203\370\215\374\007\270\332\137\115\056\147\262\204\375\331\104 \374\167\120\201\346\174\264\311\015\013\162\123\370\166\007\007 \101\107\226\014\373\340\202\046\223\125\214\376\042\037\140\145 \174\137\347\046\263\367\062\220\230\120\324\067\161\125\366\222 \041\170\367\225\171\372\370\055\046\207\146\126\060\167\246\067 \170\063\122\020\130\256\077\141\216\362\152\261\357\030\176\112 $\label{eq:131} 143 312 215 242 126 325 247 057 274 126 037 317 071 301 342$ \373\012\250\025\054\175\115\172\143\306\154\227\104\074\322\157 \303\112\027\012\370\220\322\127\242\031\121\245\055\227\101\332

\007\117\251\120\332\220\215\224\106\341\076\360\224\375\020\000 \070\365\073\350\100\341\264\156\126\032\040\314\157\130\215\355 \056\105\217\326\351\223\077\347\261\054\337\072\326\042\214\334 \204\273\042\157\320\370\344\306\071\351\004\210\074\303\272\353 \125\172\155\200\231\044\365\154\001\373\370\227\260\224\133\353 \375\322\157\361\167\150\015\065\144\043\254\270\125\241\003\321 \115\102\031\334\370\165\131\126\243\371\250\111\171\370\257\016 \271\021\240\174\267\152\355\064\320\266\046\142\070\032\207\014 \370\350\375\056\323\220\177\007\221\052\035\326\176\134\205\203 \231\260\070\010\077\351\136\371\065\007\344\311\142\156\127\177 \247\120\225\367\272\310\233\346\216\242\001\305\326\146\277\171 \242\021\024\031\156\262\206\033\150\076\110\067\032\210\267\135 \272\027\102\202\227\161\201\123\061\251\237\366\175\142\277\162 \341\243\223\035\314\212\046\132\011\070\320\316\327\015\200\026 \264\170\245\072\207\114\215\212\245\325\106\227\362\054\020\271 \274\124\042\300\001\120\151\103\236\364\262\357\155\370\354\332 \361\343\261\357\337\221\217\124\052\013\045\301\046\031\304\122 \020\005\145\325\202\020\352\302\061\315\056 END

CKA_NSS_MOZILLA_CA_POLICY

CK_BBOOL CK_TRUE

CKA_NSS_SERVER_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

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

\031\223\174\367

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL

END

CKA_ISSUER MULTILINE_OCTAL \060\105\061\013\060\011\006\003\125\004\006\023\002\102\115\061 \031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144 \151\163\040\114\151\155\151\164\145\144\061\033\060\031\006\003 \125\004\003\023\022\121\165\157\126\141\144\151\163\040\122\157 \157\164\040\103\101\040\062 END CKA_SERIAL_NUMBER MULTILINE_OCTAL \002\002\005\011 END CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST CKA_TRUST_SEP_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):

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:constraint} $$ 060\105\061\013\060\011\006\003\125\004\006\023\002\102\115\061\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144 $$$

 $\label{eq:151} $$ 151\163\040\114\151\155\151\164\145\144\061\033\060\031\006\003 \\$

157 164 040 103 101 040 063

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

\060\105\061\013\060\011\006\003\125\004\006\023\002\102\115\061 \031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144

\151\163\040\114\151\155\151\164\145\144\061\033\060\031\006\003

157 164 040 103 101 040 063

\002\002\005\306 END CKA VALUE MULTILINE OCTAL \060\202\006\235\060\202\004\205\240\003\002\001\002\002\002\005 \306\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000 \060\105\061\013\060\011\006\003\125\004\006\023\002\102\115\061 $\label{eq:2.1} \end{tabular} \end{tabular}$ \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 \276\001\242\131\317\161\346\017\051\166\377\261\126\171\105\053 \037\236\172\124\350\243\051\065\150\244\001\117\017\244\056\067 \357\033\277\343\217\020\250\162\253\130\127\347\124\206\310\311 \363\133\332\054\332\135\216\156\074\243\076\332\373\202\345\335 \362\134\262\005\063\157\212\066\316\320\023\116\377\277\112\014 \064\114\246\303\041\275\120\004\125\353\261\273\235\373\105\036 \144\025\336\125\001\214\002\166\265\313\241\077\102\151\274\057 \275\150\103\026\126\211\052\067\141\221\375\246\256\116\300\313 \024\145\224\067\113\222\006\357\004\320\310\234\210\333\013\173 \201\257\261\075\052\304\145\072\170\266\356\334\200\261\322\323 \231\234\072\356\153\132\153\263\215\267\325\316\234\302\276\245 \113\057\026\261\236\150\073\006\157\256\175\237\370\336\354\314 \051\247\230\243\045\103\057\357\361\137\046\341\210\115\370\136 \023\241\121\170\100\370\270\311\242\356\173\272\122\102\203\236 \024\355\005\122\132\131\126\247\227\374\235\077\012\051\330\334 \117\221\016\023\274\336\225\244\337\213\231\276\254\233\063\210 \357\265\201\257\033\306\042\123\310\366\307\356\227\024\260\305 \174\170\122\310\360\316\156\167\140\204\246\351\052\166\040\355 \130\001\027\060\223\351\032\213\340\163\143\331\152\222\224\111 \116\264\255\112\205\304\243\042\060\374\011\355\150\042\163\246 \210\014\125\041\130\305\341\072\237\052\335\312\341\220\340\331 $\label{eq:253} $$ 154\200\270\350\013\144\223\240\234\214\031\377\263\322 $$$

END

CKA SERIAL NUMBER MULTILINE OCTAL

Open Source Used In vmoperator Crafton-3.0 583

\014\354\221\046\207\212\263\242\341\160\217\054\012\345\315\155 \150\121\353\332\077\005\177\213\062\346\023\134\153\376\137\100 \342\042\310\264\264\144\117\326\272\175\110\076\250\151\014\327 \273\206\161\311\163\270\077\073\235\045\113\332\377\100\353\002 \003\001\000\001\243\202\001\225\060\202\001\221\060\017\006\003 \125\035\023\001\001\377\004\005\060\003\001\001\377\060\201\341 \006\003\125\035\040\004\201\331\060\201\326\060\201\323\006\011 \053\006\001\004\001\276\130\000\003\060\201\305\060\201\223\006 \010\053\006\001\005\005\007\002\002\060\201\206\032\201\203\101 \156\171\040\165\163\145\040\157\146\040\164\150\151\163\040\103 \145\162\164\151\146\151\143\141\164\145\040\143\157\156\163\164 $\label{eq:151} 164 165 164 145 163 040 141 143 143 145 160 164 141 156 143$ \163\040\122\157\157\164\040\103\101\040\063\040\103\145\162\164 \040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\120 \164\056\060\055\006\010\053\006\001\005\005\007\002\001\026\041 \150\164\160\072\057\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 \115\061\031\060\027\006\003\125\004\012\023\020\121\165\157\126 \006\003\125\004\003\023\022\121\165\157\126\141\144\151\163\040 \122\157\157\164\040\103\101\040\063\202\002\005\306\060\015\006 \011\052\206\110\206\367\015\001\001\005\005\000\003\202\002\001 \000\117\255\240\054\114\372\300\362\157\367\146\125\253\043\064 \356\347\051\332\303\133\266\260\203\331\320\320\342\041\373\363 \140\247\073\135\140\123\047\242\233\366\010\042\052\347\277\240 \162\345\234\044\152\061\261\220\172\047\333\204\021\211\047\246 \167\132\070\327\277\254\206\374\356\135\203\274\006\306\321\167 \153\017\155\044\057\113\172\154\247\007\226\312\343\204\237\255 \210\213\035\253\026\215\133\146\027\331\026\364\213\200\322\335 \370\262\166\303\374\070\023\252\014\336\102\151\053\156\363\074 \353\200\047\333\365\246\104\015\237\132\125\131\013\325\015\122 \110\305\256\237\362\057\200\305\352\062\120\065\022\227\056\301 \341\377\361\043\210\121\070\237\362\146\126\166\347\017\121\227 \245\122\014\115\111\121\225\066\075\277\242\113\014\020\035\206 \231\114\252\363\162\021\223\344\352\366\233\332\250\135\247\115 \267\236\002\256\163\000\310\332\043\003\350\371\352\031\164\142 $\label{eq:224} $$ 040\276\224\247\131\265\202\152\276\231\171\172 $$$ \251\362\112\044\122\367\164\375\272\116\346\250\035\002\156\261 \015\200\104\301\256\323\043\067\137\273\205\174\053\222\056\350

\176\245\213\335\231\341\277\047\157\055\135\252\173\207\376\012 \335\113\374\216\365\046\344\156\160\102\156\063\354\061\236\173 \223\301\344\311\151\032\075\300\153\116\042\155\356\253\130\115 \306\320\101\301\053\352\117\022\207\136\353\105\330\154\365\230 $\label{eq:23} \end{tabular} \end{tabular}$ \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"

 $\mathsf{CKA_CERTIFICATE_TYPE\ CK_CERTIFICATE_TYPE\ CKC_X_509}$

CKA_SUBJECT MULTILINE_OCTAL

\060\120\061\013\060\011\006\003\125\004\006\023\002\112\120\061 \030\060\026\006\003\125\004\012\023\017\123\105\103\117\115\040

\124\162\165\163\164\056\156\145\164\061\047\060\045\006\003\125

\004\013\023\036\123\145\143\165\162\151\164\171\040\103\157\155

 $\label{eq:155} $$ 155 156 151 143 141 164 151 157 156 040 122 157 157 164 103 $$$

101061

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

END

CKA_VALUE MULTILINE_OCTAL

\060\202\003\132\060\202\002\102\240\003\002\001\002\002\001\000 \060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060 \120\061\013\060\011\006\003\125\004\006\023\002\112\120\061\030 \060\026\006\003\125\004\012\023\017\123\105\103\117\115\040\124 \162\165\163\164\056\156\145\164\061\047\060\045\006\003\125\004 \013\023\036\123\145\143\165\162\151\164\171\040\103\157\155\155 $\label{eq:165} $$ 156 151 143 141 164 151 157 156 040 122 157 157 164 103 101 $$$ \061\060\036\027\015\060\063\060\071\063\060\060\064\062\060\064 \071\132\027\015\062\063\060\071\063\060\060\064\062\060\064\071 \132\060\120\061\013\060\011\006\003\125\004\006\023\002\112\120 $\label{eq:2.1} \end{tabular} \end{tabular}$ \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 \103\101\061\060\202\001\042\060\015\006\011\052\206\110\206\367 \015\001\001\001\005\000\003\202\001\017\000\060\202\001\012\002 \202\001\001\000\263\263\376\177\323\155\261\357\026\174\127\245 \014\155\166\212\057\113\277\144\373\114\356\212\360\363\051\174 \365\377\356\052\340\351\351\272\133\144\042\232\232\157\054\072 \046\151\121\005\231\046\334\325\034\152\161\306\232\175\036\235 \335\174\154\306\214\147\112\076\370\161\260\031\047\251\011 \014\246\225\277\113\214\014\372\125\230\073\330\350\042\241\113 \161\070\171\254\227\222\151\263\211\176\352\041\150\006\230\024 \226\207\322\141\066\274\155\047\126\236\127\356\300\300\126\375 \062\317\244\331\216\302\043\327\215\250\363\330\045\254\227\344 \160\070\364\266\072\264\235\073\227\046\103\243\241\274\111\131 \162\114\043\060\207\001\130\366\116\276\034\150\126\146\257\315 \101\135\310\263\115\052\125\106\253\037\332\036\342\100\075\333 \315\175\271\222\200\234\067\335\014\226\144\235\334\042\367\144 \213\337\141\336\025\224\122\025\240\175\122\311\113\250\041\311 \306\261\355\313\303\225\140\321\017\360\253\160\370\337\313\115 \176\354\326\372\253\331\275\177\124\362\245\351\171\372\331\326 \166\044\050\163\002\003\001\000\001\243\077\060\075\060\035\006 \003\125\035\016\004\026\004\024\240\163\111\231\150\334\205\133 \145\343\233\050\057\127\237\275\063\274\007\110\060\013\006\003 \125\035\017\004\004\003\002\001\006\060\017\006\003\125\035\023 \001\001\377\004\005\060\003\001\001\377\060\015\006\011\052\206 \110\206\367\015\001\001\005\005\000\003\202\001\001\000\150\100 \251\250\273\344\117\135\171\263\005\265\027\263\140\023\353\306 \222\135\340\321\323\152\376\373\276\233\155\277\307\005\155\131 \040\304\034\360\267\332\204\130\002\143\372\110\026\357\117\245 \013\367\112\230\362\077\236\033\255\107\153\143\316\010\107\353 \122\077\170\234\257\115\256\370\325\117\317\232\230\052\020\101 \071\122\304\335\331\233\016\357\223\001\256\262\056\312\150\102 \044\102\154\260\263\072\076\315\351\332\110\304\025\313\351\371

\007\017\222\120\111\212\335\061\227\137\311\351\067\252\073\131 \145\227\224\062\311\263\237\076\072\142\130\305\111\255\142\016 \161\245\062\252\057\306\211\166\103\100\023\023\147\075\242\124 \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 \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 \101\061 **END** CKA_SERIAL_NUMBER MULTILINE_OCTAL \002\001\000 **END**

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#

Certificate "Camerfirma Chambers of Commerce Root"

#

Issuer: CN=Chambers of Commerce Root,OU=http://www.chambersign.org,O=AC Camerfirma SA CIF

A82743287,C=EU

Serial Number: 0 (0x0)

Subject: CN=Chambers of Commerce Root,OU=http://www.chambersign.org,O=AC Camerfirma SA CIF A82743287,C=EU

Not Valid Before: Tue Sep 30 16:13:43 2003

Not Valid After : Wed Sep 30 16:13:44 2037

Fingerprint (SHA-256):

0C:25:8A:12:A5:67:4A:EF:25:F2:8B:A7:DC:FA:EC:EE:A3:48:E5:41:E6:F5:CC:4E:E6:3B:71:B3:61:60:6A:C3 # Fingerprint (SHA1): 6E:3A:55:A4:19:0C:19:5C:93:84:3C:C0:DB:72:2E:31:30:61:F0:B1

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "Camerfirma Chambers of Commerce Root"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL

\164

END

CKA_ID

UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

CKA VALUE MULTILINE OCTAL \060\202\004\275\060\202\003\245\240\003\002\001\002\002\001\000 \060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060 \177\061\013\060\011\006\003\125\004\006\023\002\105\125\061\047 \060\045\006\003\125\004\012\023\036\101\103\040\103\141\155\145 \162\146\151\162\155\141\040\123\101\040\103\111\106\040\101\070 \062\067\064\063\062\070\067\061\043\060\041\006\003\125\004\013 \023\032\150\164\164\160\072\057\057\167\167\167\056\143\150\141 $\label{eq:155142145162163151147156056157162147061042060040} \label{eq:155142145162163151147156056157162147061042060040}$ \006\003\125\004\003\023\031\103\150\141\155\142\145\162\163\040 $\label{eq:157} $$ 157\163\157\155\155\145\162\143\145\040\122\157\157\164\$ \060\036\027\015\060\063\060\071\063\060\061\066\061\063\064\063 \132\027\015\063\067\060\071\063\060\061\066\061\063\064\064\132 \060\177\061\013\060\011\006\003\125\004\006\023\002\105\125\061 \047\060\045\006\003\125\004\012\023\036\101\103\040\103\141\155 \145\162\146\151\162\155\141\040\123\101\040\103\111\106\040\101 \070\062\067\064\063\062\070\067\061\043\060\041\006\003\125\004 \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 $\label{eq:1040} \\ (040) \\ 157) \\ 146) \\ 040) \\ 103) \\ 157) \\ 155) \\ 145) \\ 162) \\ 143) \\ 145) \\ 040) \\ 122) \\ 157) \\ 157) \\ 157) \\ 155) \\ 145) \\ 162) \\ 143) \\ 145) \\ 040) \\ 122) \\ 1570 \\ 1570 \\ 15$ \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 \121\172\265\332\140\352\070\074\201\262\313\361\273\331\221\043 \077\110\001\160\165\251\005\052\255\037\161\363\311\124\075\035 \006\152\100\076\263\014\205\356\134\033\171\302\142\304\270\066 \216\065\135\001\014\043\004\107\065\252\233\140\116\240\146\075 \313\046\012\234\100\241\364\135\230\277\161\253\245\000\150\052 \355\203\172\017\242\024\265\324\042\263\200\260\074\014\132\121 \326\014\017\260\130\130\333\303\146\067\236\233\221\124\063\067 \322\224\034\152\110\311\311\362\245\332\245\014\043\367\043\016 \234\062\125\136\161\234\204\005\121\232\055\375\346\116\052\064 \132\336\312\100\067\147\014\124\041\125\167\332\012\014\314\227 \256\200\334\224\066\112\364\076\316\066\023\036\123\344\254\116 \072\005\354\333\256\162\234\070\213\320\071\073\211\012\076\167 \376\165\002\001\003\243\202\001\104\060\202\001\100\060\022\006 \003\125\035\023\001\001\377\004\010\060\006\001\001\377\002\001 \014\060\074\006\003\125\035\037\004\065\060\063\060\061\240\057 \240\055\206\053\150\164\164\160\072\057\057\143\162\154\056\143

END CKA_SERIAL_NUMBER MULTILINE_OCTAL \002\001\000 END

\150\141\155\142\145\162\163\151\147\156\056\157\162\147\057\143 $\label{eq:150141155142145162163162157157164056143162154060}$ \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\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 \157\162\147\060\130\006\003\125\035\040\004\121\060\117\060\115 \006\013\053\006\001\004\001\201\207\056\012\003\001\060\076\060 \074\006\010\053\006\001\005\005\007\002\001\026\060\150\164\164 \160\072\057\057\143\160\163\056\143\150\141\155\142\145\162\163 \151\147\156\056\157\162\147\057\143\160\163\057\143\150\141\155 $\label{eq:142} $$ 162\163\162\157\157\164\056\150\164\155\154\060\015\006\$ \011\052\206\110\206\367\015\001\001\005\005\000\003\202\001\001 \000\014\101\227\302\032\206\300\042\174\237\373\220\363\032\321 $\label{eq:22} \end{tabular} \end{tabular}$ \207\221\276\101\220\001\162\223\347\036\175\137\366\211\306\135 $\label{eq:247} $$ $$ 247 100 011 075 254 111 105 105 334 056 215 060 150 262 011 272 $$$ \373\303\057\314\272\013\337\077\167\173\106\175\072\022\044\216 \226\217\074\005\012\157\322\224\050\035\155\014\300\056\210\042 \325\330\317\035\023\307\360\110\327\327\005\247\317\307\107\236 \073\074\064\310\200\117\324\024\273\374\015\120\367\372\263\354 \102\137\251\335\155\310\364\165\317\173\301\162\046\261\001\034 \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 # 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

\164

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

\002\001\000

END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#

Certificate "Camerfirma Global Chambersign Root"

#

Issuer: CN=Global Chambersign Root,OU=http://www.chambersign.org,O=AC Camerfirma SA CIF A82743287,C=EU

Serial Number: 0 (0x0)

Subject: CN=Global Chambersign Root,OU=http://www.chambersign.org,O=AC Camerfirma SA CIF A82743287,C=EU

END CKA_VALUE MULTILINE_OCTAL \060\202\004\305\060\202\003\255\240\003\002\001\002\002\001\000 \060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060 \175\061\013\060\011\006\003\125\004\006\023\002\105\125\061\047 $\label{eq:2.1} \end{tabular} \end{tabular}$ \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} $$ 032\150\164\164\160\072\057\057\167\167\167\056\143\150\141 $$$ \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

\002\001\000

CKA SERIAL NUMBER MULTILINE OCTAL

\060\175\061\013\060\011\006\003\125\004\006\023\002\105\125\061 \047\060\045\006\003\125\004\012\023\036\101\103\040\103\141\155 \145\162\146\151\162\155\141\040\123\101\040\103\111\106\040\101 \070\062\067\064\063\062\070\067\061\043\060\041\006\003\125\004 \013\023\032\150\164\164\160\072\057\057\167\167\167\056\143\150 \141\155\142\145\162\163\151\147\156\056\157\162\147\061\040\060 \036\006\003\125\004\003\023\027\107\154\157\142\141\154\040\103 $\label{eq:150} $$ 141\155\142\145\162\163\151\147\156\040\122\157\157\164 $$$ **END**

CKA ISSUER MULTILINE OCTAL

UTF8 "0"

CKA ID

END

CKA_SUBJECT MULTILINE_OCTAL \060\175\061\013\060\011\006\003\125\004\006\023\002\105\125\061 $\label{eq:2.1} \end{tabular} \end{tabular}$ $\label{eq:145} $$ 145\102\155\141\040\123\101\040\103\111\106\040\101\$ \070\062\067\064\063\062\070\067\061\043\060\041\006\003\125\004 \013\023\032\150\164\164\160\072\057\057\167\167\167\056\143\150 \141\155\142\145\162\163\151\147\156\056\157\162\147\061\040\060 \036\006\003\125\004\003\023\027\107\154\157\142\141\154\040\103 $\label{eq:150} $$ 141\155\142\145\162\163\151\147\156\040\122\157\157\164 $$$

CKA LABEL UTF8 "Camerfirma Global Chambersign Root" 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: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

Fingerprint (SHA-256):

Not Valid After : Wed Sep 30 16:14:18 2037

Not Valid Before: Tue Sep 30 16:14:18 2003

\027\015\060\063\060\071\063\060\061\066\061\064\061\070\132\027 \015\063\067\060\071\063\060\061\066\061\064\061\070\132\060\175 \061\013\060\011\006\003\125\004\006\023\002\105\125\061\047\060 \045\006\003\125\004\012\023\036\101\103\040\103\141\155\145\162 \146\151\162\155\141\040\123\101\040\103\111\106\040\101\070\062 \067\064\063\062\070\067\061\043\060\041\006\003\125\004\013\023 \032\150\164\164\160\072\057\057\167\167\167\056\143\150\141\155 \142\145\162\163\151\147\156\056\157\162\147\061\040\060\036\006 $\label{eq:2.1} \\ 003 \\ 125 \\ 004 \\ 003 \\ 023 \\ 027 \\ 107 \\ 154 \\ 157 \\ 142 \\ 141 \\ 154 \\ 040 \\ 103 \\ 150 \\ 141 \\ 150 \\ 160 \\ 100 \\$ \155\142\145\162\163\151\147\156\040\122\157\157\164\060\202\001 \040\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000 \003\202\001\015\000\060\202\001\010\002\202\001\001\000\242\160 \242\320\237\102\256\133\027\307\330\175\317\024\203\374\117\311 \241\267\023\257\212\327\236\076\004\012\222\213\140\126\372\264 $\label{eq:240} \end{tabular} \end{tabular}$ \323\337\235\227\132\237\224\004\160\354\077\131\331\267\314\146 \213\230\122\050\011\002\337\305\057\204\215\172\227\167\277\354 \100\235\045\162\253\265\077\062\230\373\267\267\374\162\204\345 \065\207\371\125\372\243\037\016\157\056\050\335\151\240\331\102 $\label{eq:20} \end{aligned} \end{aligned}$ \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 $\label{eq:145} $$ 126 223 106 211 250 045 212 145 006 356 153 277 171 $$$ \007\320\361\267\257\355\054\115\222\273\300\250\137\247\147\175 \004\362\025\010\160\254\222\326\175\004\322\063\373\114\266\013 \013\373\032\311\304\215\003\251\176\134\362\120\253\022\245\241 \317\110\120\245\357\322\310\032\023\372\260\177\261\202\034\167 $\label{eq:152} $$ 152\017\137\334\013\225\217\357\103\176\346\105\011\045\002\001\$ \003\243\202\001\120\060\202\001\114\060\022\006\003\125\035\023 \001\001\377\004\010\060\006\001\001\377\002\001\014\060\077\006 \003\125\035\037\004\070\060\066\060\064\240\062\240\060\206\056 \150\164\164\160\072\057\057\143\162\154\056\143\150\141\155\142 \145\162\163\151\147\156\056\157\162\147\057\143\150\141\155\142 \145\162\163\151\147\156\162\157\157\164\056\143\162\154\060\035 \006\003\125\035\016\004\026\004\024\103\234\066\237\260\236\060 \115\306\316\137\255\020\253\345\003\245\372\251\024\060\016\006 \003\125\035\017\001\001\377\004\003\002\001\006\060\021\006 \011\140\206\110\001\206\370\102\001\001\004\004\003\002\000\007 \060\052\006\003\125\035\021\004\043\060\041\201\037\143\150\141 \155\142\145\162\163\151\147\156\056\157\162\147\060\052\006\003 \125\035\022\004\043\060\041\201\037\143\150\141\155\142\145\162 $\label{eq:163} \\ 151 \\ 147 \\ 156 \\ 162 \\ 157 \\ 157 \\ 164 \\ 100 \\ 143 \\ 150 \\ 141 \\ 155 \\ 142 \\ 145 \\ 162 \\ 100 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 100 \\ 162 \\$ \163\151\147\156\056\157\162\147\060\133\006\003\125\035\040\004 \124\060\122\060\120\006\013\053\006\001\004\001\201\207\056\012 \001\001\060\101\060\077\006\010\053\006\001\005\005\007\002\001 \026\063\150\164\164\160\072\057\057\143\160\163\056\143\150\141 $\label{eq:155142145162163151147156056157162147057143160163}$

\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 $\label{eq:221} $$ 047 $$ 21 $$ 41 $$ 5 $$ 355 $$ 76 $$ 150 $$ 177 $$ 141 $$ 345 $$ 101 $$ 145 $$ 117 $$ 062 $$ 361 $$ 107 $$ 1$ \030\005\224\152\034\336\037\160\333\076\173\062\002\064\265\014 \077\130\200\342\201\131\210\276\300\343\106\223\044\376\220\275 \046\242\060\055\350\227\046\127\065\211\164\226\030\366\025\342 \257\044\031\126\002\002\262\272\017\024\352\306\212\146\301\206 \105\125\213\276\222\276\234\244\004\307\111\074\236\350\051\172 \211\327\376\257\377\150\365\245\027\220\275\254\231\314\245\206 \222\025\323\137\076\306\000\111\072\156\130\262\321\321\047\015 \045\310\062\370\040\021\315\175\062\063\110\224\124\114\335\334 \171\304\060\237\353\216\270\125\265\327\210\134\305\152\044\075 \262\323\005\003\121\306\007\357\314\024\162\164\075\156\162\316 $\label{eq:240} \\ 030 \\ 050 \\ 214 \\ 112 \\ 240 \\ 167 \\ 345 \\ 011 \\ 053 \\ 105 \\ 104 \\ 107 \\ 254 \\ 267 \\ 147 \\ 177 \\$ $\label{eq:223} $$ 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

A82/4328/,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

\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

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:DF:C5:B1:D2:09:B7:37:CB:E2:C1:8C:FB:2C:10:C0:FF:0B:CF:0D:32:86:FC:1A:A2:DF:C5:B1:D2:09:B7:37:CB:E2:C1:8C:FB:2C:10:C0:FF:0B:CF:0D:32:86:FC:1A:A2:DF:C5:B1:D2:09:B7:37:CB:E2:C1:8C:FB:2C:10:C0:FF:0B:CF:0D:32:86:FC:1A:A2:DF:C5:B1:D2:09:B7:37:CB:E2:C1:8C:FB:2C:10:C0:FF:0B:CF:0D:32:86:FC:1A:A2:DF:C5:B1:D2:09:B7:37:CB:E2:C1:8C:FB:2C:10:C0:FF:0B:CF:0D:32:86:FC:1A:A2:DF:C5:B1:D2:09:B7:37:CB:E2:C1:8C:FB:2C:10:C0:FF:0B:CF:0D:32:86:FC:1A:A2:DF:C5:B1:D2:09:B7:37:CB:E2:C1:8C:FB:2C:10:C0:FF:0B:CF:0D:32:86:FC:1A:A2:DF:C5:B1:D2:09:B7:37:CB:E2:C1:8C:FB:2C:10:C0:FF:0B:CF:0D:32:86:FC:1A:A2:DF:C5:DF:C

Fingerprint (SHA1): B8:01:86:D1:EB:9C:86:A5:41:04:CF:30:54:F3:4C:52:B7:E5:58:C6

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "XRamp Global CA Root"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT

MULTILINE_OCTAL

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

\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 $\label{eq:122} $$ 122\141\155\160\040\107\154\157\142\141\154\040\103\145\162\164\$ $\label{eq:151} $$ 151\143\141\164\151\157\156\040\101\165\164\150\157\162 $$ \151\164\171\060\036\027\015\060\064\061\061\060\061\061\067\061 \064\060\064\132\027\015\063\065\060\061\060\061\060\065\063\067 $\label{eq:201} \end{tabular} \end{tabular}$ \002\125\123\061\036\060\034\006\003\125\004\013\023\025\167\167 \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 $\label{eq:2.141} \\ 004 \\ 003 \\ 023 \\ 044 \\ 130 \\ 122 \\ 141 \\ 155 \\ 160 \\ 040 \\ 107 \\ 154 \\ 157 \\ 142 \\ 141 \\ 154 \\ 154 \\ 154 \\ 157 \\ 142 \\ 141 \\ 154 \\ 154 \\ 157 \\ 142 \\ 141 \\ 154 \\ 154 \\ 157 \\ 142 \\ 141 \\ 154 \\ 154 \\ 157 \\ 142 \\ 141 \\ 154 \\ 154 \\ 157 \\ 142 \\ 141 \\ 154 \\ 154 \\ 157 \\ 142 \\ 141 \\ 154 \\ 157 \\ 142 \\ 157 \\ 142 \\ 141 \\ 157 \\ 142 \\ 141 \\ 157 \\ 142 \\ 141 \\ 157 \\ 142 \\ 141 \\ 157 \\ 142 \\ 141 \\ 157 \\ 142 \\ 141 \\ 157 \\ 142 \\ 141 \\ 157 \\ 142 \\ 141 \\ 157 \\ 142 \\ 141 \\ 157 \\ 142 \\ 141 \\ 157 \\ 142 \\ 141 \\ 157 \\ 142 \\ 141 \\ 157 \\ 142 \\ 141 \\ 157 \\ 142 \\ 157 \\ 142 \\ 141 \\ 157 \\ 157 \\ 157 \\ 142 \\ 141 \\ 157 \\ 141 \\ 157 \\ 141 \\ 157 \\ 141 \\ 141 \\ 157 \\ 141 \\ 141 \\ 157 \\ 141 \\ 157 \\ 141$ \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

CKA_VALUE MULTILINE_OCTAL

END

240255

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

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\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

\337\307\214\245\047\266\070\013\151\363\266\116\250\054\056\041 \035\134\104\337\041\135\176\043\164\376\136\176\264\112\267\246 \255\037\256\340\006\026\342\233\133\331\147\164\153\135\200\217 \051\235\206\033\331\234\015\230\155\166\020\050\130\344\145\260 \177\112\230\171\237\340\303\061\176\200\053\265\214\300\100\073 \021\206\320\313\242\206\066\140\244\325\060\202\155\331\156\320 \017\022\004\063\227\137\117\141\132\360\344\371\221\253\347\035 \073\274\350\317\364\153\055\064\174\342\110\141\034\216\363\141 \250\101\314\074\224\021\175\353\310\246\214\267\206\313\312\063 \073\331\075\067\213\373\172\076\206\054\347\163\327\012\127\254 \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 $\label{eq:273} \\ 102 \\ 033 \\ 147 \\ 252 \\ 045 \\ 355 \\ 105 \\ 203 \\ 041 \\ 374 \\ 301 \\ 311 \\ 174 \\ 325 \\ 142 \\$ \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 $\label{eq:171} $$ 171\056\143\157\155\057\130\107\103\101\056\143\162\154\060\020 $$ \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 $\label{eq:202} $$ $$ 202 01 001 000 221 025 071 003 001 033 147 373 112 034 371 012 $$$ \140\133\241\332\115\227\142\371\044\123\047\327\202\144\116\220 \056\303\111\033\053\232\334\374\250\170\147\065\361\035\360\021 $\label{eq:275} $$ 267 110 343 020 366 015 337 077 322 311 266 252 125 244 110 $$$ \272\002\333\336\131\056\025\133\073\235\026\175\107\327\067\352 \137\115\166\022\066\273\037\327\241\201\004\106\040\243\054\155 \251\236\001\176\077\051\316\000\223\337\375\311\222\163\211\211 \144\236\347\053\344\034\221\054\322\271\316\175\316\157\061\231 \323\346\276\322\036\220\360\011\024\171\134\043\253\115\322\332 \041\037\115\231\171\235\341\317\047\237\020\233\034\210\015\260 \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 $\label{eq:2.1} \end{tabular} \end{tabular}$ \264\003\045\274 END CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE CKA NSS_SERVER_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:DF:C5:B1:D2:09:B7:37:CB:E2:C1:8C:FB:2C:10:C0:FF:0B:CF:0D:32:86:FC:1A:A2:DF:C5:B1:D2:09:B7:37:CB:E2:C1:8C:FB:2C:10:C0:FF:0B:CF:0D:32:86:FC:1A:A2:DF:C5:B1:D2:09:B7:37:CB:E2:C1:8C:FB:2C:10:C0:FF:0B:CF:0D:32:86:FC:1A:A2:DF:C5:B1:D2:09:B7:37:CB:E2:C1:8C:FB:2C:10:C0:FF:0B:CF:0D:32:86:FC:1A:A2:DF:C5:B1:D2:09:B7:37:CB:E2:C1:8C:FB:2C:10:C0:FF:0B:CF:0D:32:86:FC:1A:A2:DF:C5:B1:D2:09:B7:37:CB:E2:C1:8C:FB:2C:10:C0:FF:0B:CF:0D:32:86:FC:1A:A2:DF:C5:B1:D2:09:B7:37:CB:E2:C1:8C:FB:2C:10:C0:FF:0B:CF:0D:32:86:FC:1A:A2:DF:C5:B1:D2:09:B7:37:CB:E2:C1:8C:FB:2C:10:C0:FF:0B:CF:0D:32:86:FC:1A:A2:DF:C5:DF:D2:DF:D

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

157 162 151 164 171

END

CKA_SERIAL_NUMBER

MULTILINE_OCTAL

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

\240\255

END

```
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
```

#

Open Source Used In vmoperator Crafton-3.0 600

CKA_VALUE MULTILINE_OCTAL \060\202\004\000\060\202\002\350\240\003\002\001\002\002\001\000 \060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060 \143\061\013\060\011\006\003\125\004\006\023\002\125\123\061\041 \060\037\006\003\125\004\012\023\030\124\150\145\040\107\157\040 $\label{eq:104} $$ 104\141\144\144\171\040\107\162\157\165\160\054\040\111\156\143 $$$ \056\061\061\060\057\006\003\125\004\013\023\050\107\157\040\104 $\label{eq:141} $$ 144\171\040\103\154\141\163\163\040\062\040\103\145\162\$

\041\060\037\006\003\125\004\012\023\030\124\150\145\040\107\157 $\label{eq:104} \end{tabular} 104 \end{tabular} 144 \end{tabular} 1040 \end{tabular} 107 \end{tabular} 162 \end{tabular} 165 \end{tabular} 160 \end{tabular} 054 \end{tabular} 040 \end{tabular} 111 \end{tabular} 156 \end{tabular}$ \143\056\061\061\060\057\006\003\125\004\013\023\050\107\157\040 \104\141\144\144\171\040\103\154\141\163\163\040\062\040\103\145 \162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150 \157\162\151\164\171 END

CKA_ISSUER MULTILINE_OCTAL \060\143\061\013\060\011\006\003\125\004\006\023\002\125\123\061

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509 CKA SUBJECT MULTILINE OCTAL \060\143\061\013\060\011\006\003\125\004\006\023\002\125\123\061 \143\056\061\061\060\057\006\003\125\004\013\023\050\107\157\040 $\label{eq:104} \\ 104\\144\\144\\171\\040\\103\\154\\141\\163\\163\\040\\062\\040\\103\\145$

CKA TOKEN CK BBOOL CK TRUE

Not Valid Before: Tue Jun 29

Issuer: OU=Go Daddy Class 2 Certification Authority,O="The Go Daddy Group, Inc.",C=US

Subject: OU=Go Daddy Class 2 Certification Authority,O="The Go Daddy Group, Inc.",C=US

17:06:20 2004

Serial Number: 0 (0x0)

#

Not Valid After : Thu Jun 29 17:06:20 2034

Certificate "Go Daddy Class 2 CA"

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_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA LABEL UTF8 "Go Daddy Class 2 CA"

 $\label{eq:2.1} \end{tabular} \end{tabular}$ $\label{eq:104} \\ 040\\104\\144\\144\\144\\171\\040\\107\\162\\157\\165\\160\\054\\040\\111\\156$

CKA ID UTF8 "0"

\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

\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157 \162\151\164\171\060\036\027\015\060\064\060\066\062\071\061\067 \060\066\062\060\132\027\015\063\064\060\066\062\071\061\067\060 \066\062\060\132\060\143\061\013\060\011\006\003\125\004\006\023 \002\125\123\061\041\060\037\006\003\125\004\012\023\030\124\150 $\label{eq:145}040\107\157\040\104\141\144\144\171\040\107\162\157\165\160$ \054\040\111\156\143\056\061\061\060\057\006\003\125\004\013\023 \050\107\157\040\104\141\144\171\040\103\154\141\163\163\040 $\label{eq:1062} \end{tabular} 1062 \end{tabular} 103 \end{tabular} 162 \end{tabular} 146 \end{tabular} 141 \end{tabular} 164 \end{tabular} 151 \end{tabular} 141 \end{tabular} 164 \end{tabular} 151 \end{tabula$ \101\165\164\150\157\162\151\164\171\060\202\001\040\060\015\006 \011\052\206\110\206\367\015\001\001\001\005\000\003\202\001\015 \000\060\202\001\010\002\202\001\001\000\336\235\327\352\127\030 \111\241\133\353\327\137\110\206\352\276\335\377\344\357\147\034 $\label{eq:20} \end{tabular} $$ 364\145\150\263\127\161\240\136\167\273\355\233\111\351\160\200 $$$ \020\330\262\201\324\300\165\075\113\177\307\167\303\076\170\253 \032\003\265\040\153\057\152\053\261\305\210\176\304\273\036\260 \301\330\105\047\157\252\067\130\367\207\046\327\330\055\366\251 \027\267\037\162\066\116\246\027\077\145\230\222\333\052\156\135 \242\376\210\340\013\336\177\345\215\025\341\353\313\072\325\342 \022\242\023\055\330\216\257\137\022\075\240\010\005\010\266\134 \245\145\070\004\105\231\036\243\140\140\164\305\101\245\162\142 \033\142\305\037\157\137\032\102\276\002\121\145\250\256\043\030 \152\374\170\003\251\115\177\200\303\372\253\132\374\241\100\244 \312\031\026\376\262\310\357\136\163\015\356\167\275\232\366\171 \230\274\261\007\147\242\025\015\335\240\130\306\104\173\012\076 \142\050\137\272\101\007\123\130\317\021\176\070\164\305\370\377 \265\151\220\217\204\164\352\227\033\257\002\001\003\243\201\300 \060\201\275\060\035\006\003\125\035\016\004\026\004\024\322\304 \260\322\221\324\114\021\161\263\141\313\075\241\376\335\250\152 \324\343\060\201\215\006\003\125\035\043\004\201\205\060\201\202 \200\024\322\304\260\322\221\324\114\021\161\263\141\313\075\241 \376\335\250\152\324\343\241\147\244\145\060\143\061\013\060\011 \006\003\125\004\006\023\002\125\123\061\041\060\037\006\003\125 $\label{eq:2.1} \end{tabular} \end{tabular}$ \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 $\label{eq:103} \\ 103 \\ 154 \\ 141 \\ 163 \\ 163 \\ 040 \\ 062 \\ 040 \\ 103 \\ 145 \\ 162 \\ 164 \\ 151 \\ 146 \\ 151 \\ 143 \\ 143 \\ 143 \\ 144 \\ 151 \\ 151 \\ 144 \\ 151 \\$ $\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 \114\312\063\043\350\034\210\252\235\213\101\156\026\311\040\345

\211\236\315\073\332\160\367\176\231\046\040\024\124\045\253\156 \163\205\346\233\041\235\012\154\202\016\250\370\302\014\372\020 \036\154\226\357\207\015\304\017\141\213\255\356\203\053\225\370 \216\222\204\162\071\353\040\352\203\355\203\315\227\156\010\274 \353\116\046\266\163\053\344\323\366\114\376\046\161\342\141\021 \164\112\377\127\032\207\017\165\110\056\317\121\151\027\240\002 \022\141\225\325\321\100\262\020\114\356\304\254\020\103\246\245 \236\012\325\225\142\232\015\317\210\202\305\062\014\344\053\237 \105\346\015\237\050\234\261\271\052\132\127\255\067\017\257\035 \177\333\275\237 END CKA_NSS_MOZILLA_CA_POLICY CK BBOOL CK TRUE CKA_NSS_SERVER_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\141\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

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

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

END

CKA_SERIAL_NUMBER

MULTILINE_OCTAL \002\001\000

\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 $\label{eq:154} $$ 154\144\040\124\145\143\150\156\157\154\157\147\151\145\163\054\$ \040\111\156\143\056\061\062\060\060\006\003\125\004\013\023\051 $\label{eq:123} \\ 123 \\ 164 \\ 141 \\ 162 \\ 146 \\ 151 \\ 145 \\ 154 \\ 144 \\ 040 \\ 103 \\ 154 \\ 141 \\ 163 \\ 163 \\ 040 \\ 040 \\ 103 \\ 154 \\ 141 \\ 163 \\ 163 \\ 040 \\ 103 \\ 154 \\ 141 \\ 163 \\ 163 \\ 040 \\ 103 \\ 154 \\ 141 \\ 163 \\ 163 \\ 040 \\ 103 \\ 154 \\ 141 \\ 163 \\ 163 \\ 040 \\ 103 \\ 154 \\ 141 \\ 163 \\ 163 \\ 040 \\ 103 \\ 154 \\ 141 \\ 163 \\ 163 \\ 040 \\ 103 \\ 154 \\ 141 \\ 163 \\ 163 \\ 040 \\ 103 \\ 154 \\ 141 \\ 163 \\ 163 \\ 040 \\ 103 \\ 154 \\ 141 \\ 163 \\ 163 \\ 040 \\ 103 \\ 154 \\ 141 \\ 163 \\ 163 \\ 040 \\ 103 \\ 154 \\ 141 \\ 163 \\ 163 \\ 163 \\ 163 \\ 163 \\ 163 \\ 163 \\ 163 \\ 163 \\ 163 \\ 163 \\ 163 \\ 163 \\ 103 \\ 154 \\ 114 \\ 163 \\$ \062\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040 \101\165\164\150\157\162\151\164\171\060\036\027\015\060\064\060 \066\062\071\061\067\063\071\061\066\132\027\015\063\064\060\066 \062\071\061\067\063\071\061\066\132\060\150\061\013\060\011\006 \003\125\004\006\023\002\125\123\061\045\060\043\006\003\125\004 \150\156\157\154\157\147\151\145\163\054\040\111\156\143\056\061 \062\060\060\006\003\125\004\013\023\051\123\164\141\162\146\151 \145\154\144\040\103\154\141\163\163\040\062\040\103\145\162\164 $\label{eq:151} $$ 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 \360\303\241\332\324\330\156\053\123\220\373\044\244\076\204\360 \236\350\137\354\345\047\104\365\050\246\077\173\336\340\052\360 \310\257\123\057\236\312\005\001\223\036\217\146\034\071\247\115 \372\132\266\163\004\045\146\353\167\177\347\131\306\112\231\045 \024\124\353\046\307\363\177\031\325\060\160\217\257\260\106\052 \377\255\353\051\355\327\237\252\004\207\243\324\371\211\245\064 \137\333\103\221\202\066\331\146\074\261\270\271\202\375\234\072 \076\020\310\073\357\006\145\146\172\233\031\030\075\377\161\121 \074\060\056\137\276\075\167\163\262\135\006\154\303\043\126\232 \053\205\046\222\034\247\002\263\344\077\015\257\010\171\202\270 \066\075\352\234\323\065\263\274\151\312\365\314\235\350\375\144 \215\027\200\063\156\136\112\135\231\311\036\207\264\235\032\300 \325\156\023\065\043\136\337\233\137\075\357\326\367\166\302\352 \076\273\170\015\034\102\147\153\004\330\370\326\332\157\213\362 \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 $\label{eq:2.125} 004 013 023 051 123 164 141 162 146 151 145 154 144 040 103$

CKA VALUE MULTILINE OCTAL

\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} $$ 146 037 311 124 372 162 314 075 114 100 330 201 257 167 236 203 $$$ $\label{eq:273} $$ 172 273 242 307 365 064 027 216 331 021 100 364 374 054 052 115 $$$ \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 \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

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

\002\001\000

END

CKA_TRUST_SERVER_AUTH

CK_TRUST CKT_NSS_TRUSTED_DELEGATOR

 $CKA_TRUST_EMAIL_PROTECTION\ CK_TRUST\ CKT_NSS_TRUSTED_DELEGATOR$

CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST

CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#

Certificate "DigiCert Assured ID Root CA"

#

Issuer: CN=DigiCert Assured ID Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US

Serial Number:0c:e7:e0:e5:17:d8:46:fe:8f:e5:60:fc:1b:f0:30:39

Subject: CN=DigiCert Assured ID Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US

Not Valid Before: Fri Nov 10 00:00:00 2006

Not Valid After : Mon Nov 10 00:00:00 2031

Fingerprint (SHA-256):

3E:90:99:B5:01:5E:8F:48:6C:00:BC:EA:9D:11:1E:E7:21:FA:BA:35:5A:89:BC:F1:DF:69:56:1E:3D:C6:32:5C

Fingerprint (SHA1): 05:63:B8:63:0D:62:D7:5A:BB:C8:AB:1E:4B:DF:B5:A8:99:B2:4D:43

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "DigiCert Assured ID Root CA"

CKA_CERTIFICATE_TYPE

CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL

\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

 $\label{eq:103} \\ 103 \\ 145 \\ 162 \\ 164 \\ 040 \\ 101 \\ 163 \\ 163 \\ 165 \\ 162 \\ 145 \\ 144 \\ 040 \\ 111 \\ 104 \\ 040 \\ 101 \\ 101 \\ 101 \\ 104 \\ 101 \\$

122 157 157 164 040 103 101

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

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

CKA SERIAL NUMBER MULTILINE OCTAL

END

\060\071 END

CKA VALUE

MULTILINE OCTAL \347\340\345\027\330\106\376\217\345\140\374\033\360\060\071\060 \015\006\011\052\206\110\206\367\015\001\001\005\005\000\060\145 \061\013\060\011\006\003\125\004\006\023\002\125\123\061\025\060 \023\006\003\125\004\012\023\014\104\151\147\151\103\145\162\164 \040\111\156\143\061\031\060\027\006\003\125\004\013\023\020\167 \044\060\042\006\003\125\004\003\023\033\104\151\147\151\103\145 \162\164\040\101\163\163\165\162\145\144\040\111\104\040\122\157 \157\164\040\103\101\060\036\027\015\060\066\061\061\061\060\060 \060\060\060\060\060\132\027\015\063\061\061\061\061\060\060\060 \060\060\060\060\132\060\145\061\013\060\011\006\003\125\004\006 \023\002\125\123\061\025\060\023\006\003\125\004\012\023\014\104 \151\147\151\103\145\162\164\040\111\156\143\061\031\060\027\006 $\label{eq:2.1} \end{tabular} \end{tabular}$ \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 $\label{eq:114} $$ 144\040\111\104\040\122\157\157\164\040\103\101\060\202\001\042 $$$ \060\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003 \202\001\017\000\060\202\001\012\002\202\001\001\000\255\016\025 \316\344\103\200\134\261\207\363\267\140\371\161\022\245\256\334 \046\224\210\252\364\316\365\040\071\050\130\140\014\370\200\332 \251\025\225\062\141\074\265\261\050\204\212\212\334\237\012\014 \203\027\172\217\220\254\212\347\171\123\134\061\204\052\366\017 \230\062\066\166\314\336\335\074\250\242\357\152\373\041\362\122 \371\130\030\065\274\107\315\241\066\371\153\177\324\260\070\076 \301\033\303\214\063\331\330\057\030\376\050\017\263\247\203\326 \303\156\104\300\141\065\226\026\376\131\234\213\166\155\327\361 \242\113\015\053\377\013\162\332\236\140\320\216\220\065\306\170 \125\207\040\241\317\345\155\012\310\111\174\061\230\063\154\042 \351\207\320\062\132\242\272\023\202\021\355\071\027\235\231\072 \162\241\346\372\244\331\325\027\061\165\256\205\175\042\256\077 \001\106\206\366\050\171\310\261\332\344\127\027\304\176\034\016 \260\264\222\246\126\263\275\262\227\355\252\247\360\267\305\250

\077\225\026\320\377\241\226\353\010\137\030\167\117\002\003\001 \000\001\243\143\060\141\060\016\006\003\125\035\017\001\001\377 \004\003\002\001\206\060\017\006\003\125\035\023\001\001\377 \004\005\060\003\001\001\377\060\035\006\003\125\035\016\004\026 \004\024\105\353\242\257\364\222\313\202\061\055\121\213\247\247 \041\235\363\155\310\017\060\037\006\003\125\035\043\004\030\060 \026\200\024\105\353\242\257\364\222\313\202\061\055\121\213\247 \247\041\235\363\155\310\017\060\015\006\011\052\206\110\206\367 \015\001\001\005\005\000\003\202\001\001\000\242\016\274\337\342 \355\360\343\162\163\172\144\224\277\367\162\146\330\062\344\102 \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 $\label{eq:2.1} $$ 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 $\label{eq:2.106} \end{tabular} \end{tabula$ \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

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

\231\262\115\103

END CKA_CERT_MD5_HASH MULTILINE_OCTAL \207\316\013\173\052\016\111\000\341\130\161\233\067\250\223\162 END CKA_ISSUER MULTILINE_OCTAL \060\145\061\013\060\011\006\003\125\004\006\023\002\125\123\061 \025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145 \162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023 \020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157 \155\061\044\060\042\006\003\125\004\003\023\033\104\151\147\151

\122\157\157\164\040\103\101 END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

\002\020\014\347\340\345\027\330\106\376\217\345\140\374\033\360 \060\071

 $\label{eq:103145162164040101163163165162145144040111104040} \\$

END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#

Certificate "DigiCert Global Root CA"

#

Issuer: CN=DigiCert Global Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US

Serial

Number:08:3b:e0:56:90:42:46:b1:a1:75:6a:c9:59:91:c7:4a

Subject: CN=DigiCert Global Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US

Not Valid Before: Fri Nov 10 00:00:00 2006

Not Valid After : Mon Nov 10 00:00:00 2031

Fingerprint (SHA-256):

43:48:A0:E9:44:4C:78:CB:26:5E:05:8D:5E:89:44:B4:D8:4F:96:62:BD:26:DB:25:7F:89:34:A4:43:C7:01:61 # Fingerprint (SHA1): A8:98:5D:3A:65:E5:E5:C4:B2:D7:D6:6D:40:C6:DD:2F:B1:9C:54:36

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "DigiCert Global Root CA"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL

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

CKA VALUE MULTILINE OCTAL \060\202\003\257\060\202\002\227\240\003\002\001\002\002\020\010 $\label{eq:20} $$ 073\340\126\220\102\106\261\241\165\152\311\131\221\307\112\060 $$$ \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 $\label{eq:23} 006 003 125 004 012 023 014 104 151 147 151 103 145 162 164$ \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 $\label{eq:162} $$ 162\164\040\107\154\157\142\141\154\040\122\157\157\164\040\103$ \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 $\label{eq:151} 103 145 162 164 040 107 154 157 142 141 154 040 122 157 157$ \164\040\103\101\060\202\001\042\060\015\006\011\052\206\110\206 \367\015\001\001\001\005\000\003\202\001\017\000\060\202\001\012 \002\202\001\001\000\342\073\341\021\162\336\250\244\323\243\127 \252\120\242\217\013\167\220\311\242\245\356\022\316\226\133\001 \011\040\314\001\223\247\116\060\267\123\367\103\304\151\000\127 \235\342\215\042\335\207\006\100\000\201\011\316\316\033\203\277 \337\315\073\161\106\342\326\146\307\005\263\166\047\026\217\173 \236\036\225\175\356\267\110\243\010\332\326\257\172\014\071\006 \145\177\112\135\037\274\027\370\253\276\356\050\327\164\177\172 \170\231\131\205\150\156\134\043\062\113\277\116\300\350\132\155 \343\160\277\167\020\277\374\001\366\205\331\250\104\020\130\062 \251\165\030\325\321\242\276\107\342\047\152\364\232\063\370\111 \010\140\213\324\137\264\072\204\277\241\252\112\114\175\076\317

END

\307\112

END

\040\103\101

CKA_ISSUER MULTILINE_OCTAL \060\141\061\013\060\011\006\003\125\004\006\023\002\125\123\061 \025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145 \162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023 \020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157 \155\061\040\060\036\006\003\125\004\003\023\027\104\151\147\151 \103\145\162\164\040\107\154\157\142\141\154\040\122\157\164

\040\103\101 END

CKA_ID UTF8 "0"

\117\137\154\166\136\240\113\067\221\236\334\042\346\155\316\024 \032\216\152\313\376\315\263\024\144\027\307\133\051\236\062\277 \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 \114\273\146\360\243\342\033\033\303\227\262\075\321\125\060\037 \006\003\125\035\043\004\030\060\026\200\024\003\336\120\065\126 \321\114\273\146\360\243\342\033\033\303\227\262\075\321\125\060 \015\006\011\052\206\110\206\367\015\001\001\005\005\000\003\202 \001\001\000\313\234\067\252\110\023\022\012\372\335\104\234\117 \122\260\364\337\256\004\365\171\171\010\243\044\030\374\113\053 \204\300\055\271\325\307\376\364\301\037\130\313\270\155\234\172 \214\221\160\342\253\017\034\276\223\251\377\143\325\344\007\140 \323\243\277\235\133\011\361\325\216\343\123\364\216\143\372\077 $\label{eq:247} $$ 247 333 264 146 337 142 146 326 321 156 101 215 362 055 265 352 $$$ \167\112\237\235\130\342\053\131\300\100\043\355\055\050\202\105 $\label{eq:22} \end{tabular} 1076 \end{tabular} 124 \end{tabular} 222 \end{tabular} 0340 \end{tabular} 200 \end{tabular} 110 \end{tabular} 250 \end{tabular} 067 \end{tabular} 357 \end{tabular} 360 \end{tabular} 326 \end{tabular} 171 \end{tabular} 140 \end{tabular}$ \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} $$ 024\351\30\211\301\271\070\154\342\221\154\212\377\144\271\167\$ \045\127\060\300\033\044\243\341\334\351\337\107\174\265\264\044 \010\005\060\354\055\275\013\277\105\277\120\271\251\363\353\230 \001\022\255\310\210\306\230\064\137\215\012\074\306\351\325\225 \225\155\336 END CKA NSS MOZILLA CA POLICY CK BBOOL CK TRUE

CKA_NSS_SERVER_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):

43:48:A0:E9:44:4C:78:CB:26:5E:05:8D:5E:89:44:B4:D8:4F:96:62:BD:26:DB:25:7F:89:34:A4:43:C7:01:61 # Fingerprint (SHA1): A8:98:5D:3A:65:E5:E5:C4:B2:D7:D6:6D:40:C6:DD:2F:B1:9C:54:36 CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST CKA_TOKEN CK_BBOOL CK_TRUE

CKA PRIVATE CK BBOOL CK FALSE CKA MODIFIABLE CK BBOOL CK FALSE CKA_LABEL UTF8 "DigiCert Global Root CA" CKA_CERT_SHA1_HASH MULTILINE_OCTAL \250\230\135\072\145\345\345\304\262\327\326\155\100\306\335\057 \261\234\124\066 END CKA CERT MD5 HASH MULTILINE OCTAL $\label{eq:171} $$ 1204\015\175\072\226\327\300\117\342\103\114\211\056\$ END CKA ISSUER MULTILINE OCTAL \060\141\061\013\060\011\006\003\125\004\006\023\002\125\123\061 \025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145 $\label{eq:20} \end{tabular} \end{tabular}$ \155\061\040\060\036\006\003\125\004\003\023\027\104\151\147\151 $\label{eq:103} \\ 103 \\ 145 \\ 162 \\ 164 \\ 040 \\ 107 \\ 154 \\ 157 \\ 142 \\ 141 \\ 154 \\ 040 \\ 122 \\ 157 \\ 157 \\ 164 \\$ \040\103\101 **END** CKA_SERIAL_NUMBER MULTILINE OCTAL \002\020\010\073\340\126\220\102\106\261\241\165\152\311\131\221 \307\112 END CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR CKA TRUST EMAIL PROTECTION CK TRUST CKT NSS TRUSTED DELEGATOR CKA TRUST CODE SIGNING CK TRUST CKT NSS MUST VERIFY TRUST CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#

Certificate "DigiCert High Assurance EV Root CA"

#

Issuer: CN=DigiCert High Assurance EV Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US

Serial Number:02:ac:5c:26:6a:0b:40:9b:8f:0b:79:f2:ae:46:25:77

Subject: CN=DigiCert High Assurance EV Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US

Not Valid Before: Fri Nov 10 00:00:00 2006

Not Valid After : Mon Nov 10 00:00:00 2031

Fingerprint (SHA-256):

74:31:E5:F4:C3:C1:CE:46:90:77:4F:0B:61:E0:54:40:88:3B:A9:A0:1E:D0:0B:A6:AB:D7:80:6E:D3:B1:18:CF # Fingerprint (SHA1): 5F:B7:EE:06:33:E2:59:DB:AD:0C:4C:9A:E6:D3:8F:1A:61:C7:DC:25

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

CKA_TOKEN

CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "DigiCert High Assurance EV Root CA"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL

\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 \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 \051\006\003\125\004\003\023\042\104\151\147\151\103\145\162\164 \040\110\151\147\150\040\101\163\163\165\162\141\156\143\145\040 \105\126\040\122\157\157\164\040\103\101\060\202\001\042\060\015 \006\011\052\206\110\206\367\015\001\001\001\005\000\003\202\001 \017\000\060\202\001\012\002\202\001\001\000\306\314\345\163\346 \373\324\273\345\055\055\062\246\337\345\201\077\311\315\045\111 \266\161\052\303\325\224\064\147\242\012\034\260\137\151\246\100 \261\304\267\262\217\320\230\244\251\101\131\072\323\334\224\326

CKA_VALUE MULTILINE_OCTAL

END

045 167

MULTILINE_OCTAL \002\020\002\254\134\046\152\013\100\233\217\013\171\362\256\106

CKA_SERIAL_NUMBER

END

CKA_ISSUER MULTILINE_OCTAL \060\154\061\013\060\011\006\003\125\004\006\023\002\125\123\061 \025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145 \162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023 \020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157 \155\061\053\060\051\006\003\125\004\003\023\042\104\151\147\151 \103\145\162\164\040\110\151\147\150\040\101\163\163\165\162\141 \156\143\145\040\105\126\040\122\157\157\164\040\103\101

CKA_ID UTF8 "0"

END

\074\333\164\070\244\112\314\115\045\202\367\112\245\123\022\070 \356\363\111\155\161\221\176\143\266\253\246\137\303\244\204\370 \304\050\101\125\373\313\132\211\025\176\161\350\065\277\115\162 \011\075\276\072\070\120\133\167\061\033\215\263\307\044\105\232 $\label{eq:247} $$ \ 247 \ 254 \ 155 \ 000 \ 024 \ 132 \ 004 \ 267 \ 272 \ 023 \ 353 \ 121 \ 012 \ 230 \ 101 \ 10$ \042\116\145\141\207\201\101\120\246\171\134\211\336\031\112\127 \325\056\346\135\034\123\054\176\230\315\032\006\026\244\150\163 \320\064\004\023\134\241\161\323\132\174\125\333\136\144\341\067 \207\060\126\004\345\021\264\051\200\022\361\171\071\210\242\002 \302\277\146\135\225\204\301\241\045\036\207\135\032\120\013\040 \022\314\101\273\156\013\121\070\270\113\313\002\003\001\000\001 \243\143\060\141\060\016\006\003\125\035\017\001\001\377\004\004 \003\002\001\206\060\017\006\003\125\035\023\001\001\377\004\005 \060\003\001\001\377\060\035\006\003\125\035\016\004\026\004\024 \261\076\303\151\003\370\277\107\001\324\230\046\032\010\002\357 \143\144\053\303\060\037\006\003\125\035\043\004\030\060\026\200 $\label{eq:261} $$ $ 024 $$ 076 $$ 03 $$ 151 $$ 003 $$ 370 $$ 277 $$ 107 $$ 001 $$ 324 $$ 230 $$ 046 $$ 032 $$ 010 $$ 002 $$ 010 $$ 002 $$ 010 $$ 001 $$ 011 $$$ 011 $$ 011 $$ 011 $$$ 011 $$ 011 $$ 011 $$ 011 $$$ \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 $\label{eq:20} \end{tabular} \end{tabular}$ \155\061\053\060\051\006\003\125\004\003\023\042\104\151\147\151 \103\145\162\164\040\110\151\147\150\040\101\163\163\165\162\141 \156\143\145\040\105\126\040\122\157\157\164\040\103\101 END CKA SERIAL NUMBER MULTILINE OCTAL \002\020\002\254\134\046\152\013\100\233\217\013\171\362\256\106 \045\167 **END** CKA_TRUST_SERVER_AUTH CK_TRUST CKT NSS TRUSTED DELEGATOR CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR CKA TRUST CODE SIGNING CK TRUST CKT NSS MUST VERIFY TRUST CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE # # Certificate "SwissSign Platinum CA - G2" # # Issuer: CN=SwissSign Platinum CA - G2,O=SwissSign AG,C=CH # Serial Number:4e:b2:00:67:0c:03:5d:4f # Subject: CN=SwissSign Platinum CA - G2,O=SwissSign AG,C=CH # Not Valid Before: Wed Oct 25 08:36:00 2006 # Not Valid After : Sat Oct 25 08:36:00 2036 # Fingerprint (SHA-256): 3B:22:2E:56:67:11:E9:92:30:0D:C0:B1:5A:B9:47:3D:AF:DE:F8:C8:4D:0C:EF:7D:33:17:B4:C1:82:1D:14:36 # Fingerprint (SHA1): 56:E0:FA:C0:3B:8F:18:23:55:18:E5:D3:11:CA:E8:C2:43:31:AB:66 CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

Open Source Used In vmoperator Crafton-3.0 616

\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 $\label{eq:2.123} \\ 006 \\ 003 \\ 125 \\ 004 \\ 003 \\ 023 \\ 032 \\ 123 \\ 167 \\ 151 \\ 163 \\ 163 \\ 123 \\ 151 \\ 147 \\ 156 \\ 151 \\ 163 \\ 123 \\ 151 \\ 147 \\ 156 \\ 151 \\ 163 \\ 123 \\ 151 \\ 147 \\ 156 \\ 151 \\ 163 \\ 123 \\ 151 \\ 147 \\ 156 \\ 151 \\ 163 \\ 123 \\ 151 \\ 147 \\ 156 \\ 151 \\ 163 \\ 123 \\ 151 \\ 147 \\ 156 \\ 151 \\ 163 \\ 123 \\ 151 \\ 147 \\ 156 \\ 151 \\ 163 \\ 123 \\ 151 \\ 147 \\ 156 \\ 151 \\ 151 \\ 163 \\ 123 \\ 151 \\ 147 \\ 156 \\ 151$ \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 $\label{eq:2.123} \\ 123$ \151\156\165\155\040\103\101\040\055\040\107\062\060\202\002\042 \060\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003 \202\002\017\000\060\202\002\012\002\202\002\001\000\312\337\242 \002\342\332\370\374\007\026\261\336\140\252\336\226\134\144\037 \307\057\176\317\147\372\104\102\326\166\143\225\256\353\257\162 \040\212\105\107\206\142\170\206\326\040\071\046\364\256\243\375 \043\347\245\234\265\042\041\031\267\067\223\042\300\120\234\202 \173\324\325\004\104\134\313\264\302\237\222\276\044\330\173\147 \042\342\151\137\345\005\170\324\207\331\161\160\063\045\123\264 \207\073\051\220\050\066\232\125\104\060\150\244\203\227\177\015

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

CKA SERIAL NUMBER MULTILINE OCTAL

\060\111\061\013\060\011\006\003\125\004\006\023\002\103\110\061 \025\060\023\006\003\125\004\012\023\014\123\167\151\163\163\123 \151\147\156\040\101\107\061\043\060\041\006\003\125\004\003\023 \032\123\167\151\163\163\123\151\147\156\040\120\154\141\164\151 \156\165\155\040\103\101\040\055\040\107\062 **END** CKA ID

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

CKA TOKEN CK BBOOL CK TRUE

UTF8 "0"

END

\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 $\label{eq:116} $$ 106\115\141\152\205\114\122\164\057\006\037\173\021\342\204\227\$ \306\231\363\155\177\327\147\203\176\023\150\330\161\050\132\330 \316\335\350\020\024\232\376\155\043\207\156\216\132\160\074\325 \215\011\000\247\252\274\260\061\067\155\310\204\024\036\133\275 \105\143\040\153\113\164\214\275\333\072\016\301\317\132\026\217 \245\230\362\166\211\262\023\022\073\013\167\167\254\273\345\074 \051\112\222\162\312\141\032\053\136\114\342\203\164\167\372\065 \110\172\205\115\215\232\123\304\337\170\312\227\221\110\053\105 \053\001\367\034\032\242\355\030\272\012\275\203\372\157\274\215 \127\223\073\324\324\246\316\036\361\240\261\316\253\375\053\050 \232\117\033\327\303\162\333\244\304\277\135\114\365\335\173\226 \151\356\150\200\346\347\230\272\066\267\376\156\355\053\275\040 \370\145\031\332\125\011\176\045\334\376\141\142\162\371\176\030 \002\357\143\264\320\373\257\345\073\143\214\147\217\002\003\001 \000\001\243\201\254\060\201\251\060\016\006\003\125\035\017\001 \001\377\004\003\002\001\006\060\017\006\003\125\035\023\001 \001\377\004\005\060\003\001\001\377\060\035\006\003\125\035\016 \004\026\004\024\120\257\314\007\207\025\107\157\070\305\264\145 \321\336\225\252\351\337\234\314\060\037\006\003\125\035\043\004 \030\060\026\200\024\120\257\314\007\207\025\107\157\070\305\264 \145\321\336\225\252\351\337\234\314\060\106\006\003\125\035\040 \004\077\060\075\060\073\006\011\140\205\164\001\131\001\001\001 \001\060\056\060\054\006\010\053\006\001\005\005\007\002\001\026 \040\150\164\164\160\072\057\057\162\145\160\157\163\151\164\157 \057\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000 \003\202\002\001\000\010\205\246\365\026\014\374\104\032\301\143 \340\371\125\106\010\374\160\034\102\050\226\216\267\305\301\101 $\label{eq:165} $$ 165\10\1\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 \061\246\340\061\266\224\346\104\111\164\305\026\345\367\037\003 \141\050\305\310\313\022\240\102\113\371\153\210\010\215\264\062 \030\363\165\237\304\177\000\117\005\225\234\243\027\002\303\263 \123\233\252\040\071\051\053\146\372\235\257\136\263\222\322\265 \246\341\032\371\055\101\151\201\024\264\264\265\355\211\075\316 \373\251\235\065\102\104\261\034\024\163\201\317\052\001\065\232 \061\325\055\217\155\204\337\200\115\127\343\077\305\204\165\332 \211\306\060\273\353\217\313\042\010\240\256\252\361\003\154\072 \256\166\012\174\014\007\160\144\371\232\057\366\005\071\046\306 $\label{eq:217} $$ 014\217\031\177\103\136\156\364\133\025\057\333\141\135\346\147\$ $\label{eq:223} $$ 057\07\010\224\371\140\264\230\061\332\164\361\204\223\161\115 $$$ \137\373\140\130\321\373\304\301\155\211\242\273\040\037\235\161 \221\313\062\233\023\075\076\175\222\122\065\254\222\224\242\323 \030\302\174\307\352\257\166\005\026\335\147\047\302\176\034\007 \042\041\363\100\012\033\064\007\104\023\302\204\152\216\337\031 $\label{eq:222} $$ 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 \032\123\167\151\163\163\123\151\147\156\040\120\154\141\164\151 \156\165\155\040\103\101\040\055\040\107\062 **END**

CKA SERIAL NUMBER

MULTILINE OCTAL

\002\010\116\262\000\147\014\003\135\117

END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#

Certificate "SwissSign Gold CA - G2"

#

Issuer: CN=SwissSign Gold CA - G2,O=SwissSign AG,C=CH

Serial Number:00:bb:40:1c:43:f5:5e:4f:b0

Subject: CN=SwissSign Gold CA - G2,O=SwissSign AG,C=CH

Not Valid Before: Wed Oct 25 08:30:35 2006

Not Valid After : Sat Oct 25 08:30:35 2036

Fingerprint (SHA-256):

62:DD:0B:E9:B9:F5:0A:16:3E:A0:F8:E7:5C:05:3B:1E:CA:57:EA:55:C8:68:8F:64:7C:68:81:F2:C8:35:7B:95

Fingerprint (SHA1): D8:C5:38:8A:B7:30:1B:1B:6E:D4:7A:E6:45:25:3A:6F:9F:1A:27:61

CKA CLASS CK OBJECT CLASS CKO CERTIFICATE

CKA_TOKEN CK_BBOOL CK_TRUE

CKA PRIVATE CK BBOOL CK FALSE

CKA MODIFIABLE CK BBOOL

CK FALSE

CKA_LABEL UTF8 "SwissSign Gold CA - G2"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA SUBJECT MULTILINE OCTAL

\060\105\061\013\060\011\006\003\125\004\006\023\002\103\110\061

\025\060\023\006\003\125\004\012\023\014\123\167\151\163\163\123

\151\147\156\040\101\107\061\037\060\035\006\003\125\004\003\023

\026\123\167\151\163\163\123\151\147\156\040\107\157\154\144\040

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

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

\060\105\061\013\060\011\006\003\125\004\006\023\002\103\110\061 \025\060\023\006\003\125\004\012\023\014\123\167\151\163\163\123

\151\147\156\040\101\107\061\037\060\035\006\003\125\004\003\023

\026\123\167\151\163\123\151\147\156\040\107\157\154\144\040 \103\101\040\055\040\107\062 END

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

CKA_VALUE MULTILINE_OCTAL

\060\202\005\272\060\202\003\242\240\003\002\001\002\002\011\000 \273\100\034\103\365\136\117\260\060\015\006\011\052\206\110\206 \367\015\001\001\005\005\000\060\105\061\013\060\011\006\003\125 \004\006\023\002\103\110\061\025\060\023\006\003\125\004\012\023 \035\006\003\125\004\003\023\026\123\167\151\163\163\123\151\147 \156\040\107\157\154\144\040\103\101\040\055\040\107\062\060\036 \027\015\060\066\061\060\062\065\060\070\063\060\063\065\132\027 \015\063\066\061\060\062\065\060\070\063\060\063\065\132\060\105 \061\013\060\011\006\003\125\004\006\023\002\103\110\061\025\060 \023\006\003\125\004\012\023\014\123\167\151\163\163\123\151\147 \156\040\101\107\061\037\060\035\006\003\125\004\003\023\026\123 \040\055\040\107\062\060\202\002\042\060\015\006\011\052\206\110 \206\367\015\001\001\001\005\000\003\202\002\017\000\060\202\002 \012\002\202\002\001\000\257\344\356\176\213\044\016\022\156\251 \120\055\026\104\073\222\222\134\312\270\135\204\222\102\023\052 \274\145\127\202\100\076\127\044\315\120\213\045\052\267\157\374 \357\242\320\300\037\002\044\112\023\226\217\043\023\346\050\130 \000\243\107\307\006\247\204\043\053\273\275\226\053\177\125\314 \213\301\127\037\016\142\145\017\335\075\126\212\163\332\256\176 \155\272\201\034\176\102\214\040\065\331\103\115\204\372\204\333 \122\054\363\016\047\167\013\153\277\021\057\162\170\237\056\330 \076\346\030\067\132\052\162\371\332\142\220\222\225\312\037\234 \351\263\074\053\313\363\001\023\277\132\317\301\265\012\140\275 \335\265\231\144\123\270\240\226\263\157\342\046\167\221\214\340 \142\020\002\237\064\017\244\325\222\063\121\336\276\215\272\204 \172\140\074\152\333\237\053\354\336\336\001\077\156\115\345\120 \206\313\264\257\355\104\100\305\312\132\214\332\322\053\174\250 \356\276\246\345\012\252\016\245\337\005\122\267\125\307\042\135 \062\152\227\227\143\023\333\311\333\171\066\173\205\072\112\305 \321\002\044\362\263\046\324\153\332\004\125\345\301\012\307\155 \060\067\220\052\344\236\024\063\136\026\027\125\305\133\265\313 \064\211\222\361\235\046\217\241\007\324\306\262\170\120\333\014 \014\013\174\013\214\101\327\271\351\335\214\210\367\243\115\262 \062\314\330\027\332\315\267\316\146\235\324\375\136\377\275\227 $\label{eq:24} \end{tabular} \end{tabular}$ \015\120\312\003\003\017\010\132\037\225\163\170\142\277\257\162 \024\151\016\245\345\003\016\170\216\046\050\102\360\007\013\142 \040\020\147\071\106\372\251\003\314\004\070\172\146\357\040\203

\265\214\112\126\216\221\000\374\216\134\202\336\210\240\303\342 \150\156\175\215\357\074\335\145\364\135\254\121\357\044\200\256 \252\126\227\157\371\255\175\332\141\077\230\167\074\245\221\266 \034\214\046\332\145\242\011\155\301\342\124\343\271\312\114\114 \200\217\167\173\140\232\036\337\266\362\110\036\016\272\116\124 \155\230\340\341\242\032\242\167\120\317\304\143\222\354\107\031 \235\353\346\153\316\301\002\003\001\000\001\243\201\254\060\201 \251\060\016\006\003\125\035\017\001\001\377\004\004\003\002\001 \006\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001 \001\377\060\035\006\003\125\035\016\004\026\004\024\133\045\173 \226\244\145\121\176\270\071\363\300\170\146\136\350\072\347\360 \356\060\037\006\003\125\035\043\004\030\060\026\200\024\133\045 \173\226\244\145\121\176\270\071\363\300\170\146\136\350\072\347 \360\356\060\106\006\003\125\035\040\004\077\060\075\060\073\006 \011\140\205\164\001\131\001\002\001\001\060\056\060\054\006\010 \053\006\001\005\005\007\002\001\026\040\150\164\164\160\072\057 \057\162\145\160\157\163\151\164\157\162\171\056\163\167\151\163 \163\163\151\147\156\056\143\157\155\057\060\015\006\011\052\206 \110\206\367\015\001\001\005\005\000\003\202\002\001\000\047\272 \343\224\174\361\256\300\336\027\346\345\330\325\365\124\260\203 \364\273\315\136\005\173\117\237\165\146\257\074\350\126\176\374 \162\170\070\003\331\053\142\033\000\271\370\351\140\315\314\316 $\label{eq:121} $$ 121\20\061\156\341\112\176\030\057\151\131\266\075\144 $$$ \201\053\343\203\204\346\042\207\216\175\340\356\002\231\141\270 \036\364\270\053\210\022\026\204\302\061\223\070\226\061\246\271 \073\123\077\303\044\223\126\133\151\222\354\305\301\273\070\000 \343\354\027\251\270\334\307\174\001\203\237\062\107\272\122\042 $\label{eq:20} \end{tabular} \end{tabular}$ \157\012\273\022\310\207\113\047\021\371\036\055\307\223\077\236 \333\137\046\153\122\331\056\212\361\024\306\104\215\025\251\267 \277\275\336\246\032\356\256\055\373\110\167\027\376\273\354\257 \030\365\052\121\360\071\204\227\225\154\156\033\303\053\304\164 \140\171\045\260\012\047\337\337\136\322\071\317\105\175\102\113 \337\263\054\036\305\306\135\312\125\072\240\234\151\232\217\332 \357\262\260\074\237\207\154\022\053\145\160\025\122\061\032\044 \317\157\061\043\120\037\214\117\217\043\303\164\101\143\034\125 \250\024\335\076\340\121\120\317\361\033\060\126\016\222\260\202 $\label{eq:205} \end{tabular} 205 \end{tabular} 203 \end{tabular} 214 \end{tabular} 274 \end{tabular} 055 \end{tabular} 270 \end{tabular} 045 \end{tabular} 235 \end{tabular} 242 \end{tabular} 270 \end{tabular} 066 \end{tabular} 255 \end{tabular}$ \255\222\244\044\240\301\206\265\112\023\152\107\317\056\013\126 \225\124\313\316\232\333\152\264\246\262\333\101\010\206\047\167 \367\152\240\102\154\013\070\316\327\165\120\062\222\302\337\053 \060\042\110\320\325\101\070\045\135\244\351\135\237\306\224\165 \320\105\375\060\227\103\217\220\253\012\307\206\163\140\112\151 \055\336\245\170\327\006\332\152\236\113\076\167\072\040\023\042 \001\320\277\150\236\143\140\153\065\115\013\155\272\241\075\300 \223\340\177\043\263\125\255\162\045\116\106\371\322\026\357\260 \144\301\001\236\351\312\240\152\230\016\317\330\140\362\057\111 \270\344\102\341\070\065\026\364\310\156\117\367\201\126\350\272

\243\276\043\257\256\375\157\003\340\002\073\060\166\372\033\155 \101\317\001\261\351\270\311\146\364\333\046\363\072\244\164\362 \111\044\133\311\260\320\127\301\372\076\172\341\227\311 END CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE CKA NSS SERVER DISTRUST AFTER CK BBOOL CK FALSE CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE # Trust for "SwissSign Gold CA - G2" # Issuer: CN=SwissSign Gold CA - G2,O=SwissSign AG,C=CH # Serial Number:00:bb:40:1c:43:f5:5e:4f:b0 # Subject: CN=SwissSign Gold CA - G2,O=SwissSign AG,C=CH # Not Valid Before: Wed Oct 25 08:30:35 2006 # Not Valid After : Sat Oct 25 08:30:35 2036 # Fingerprint (SHA-256): 62:DD:0B:E9:B9:F5:0A:16:3E:A0:F8:E7:5C:05:3B:1E:CA:57:EA:55:C8:68:8F:64:7C:68:81:F2:C8:35:7B:95 # Fingerprint (SHA1): D8:C5:38:8A:B7:30:1B:1B:6E:D4:7A:E6:45:25:3A:6F:9F:1A:27:61 CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST CKA TOKEN CK BBOOL CK TRUE CKA_PRIVATE CK_BBOOL CK_FALSE CKA_MODIFIABLE CK_BBOOL CK_FALSE CKA LABEL UTF8 "SwissSign Gold CA - G2" CKA_CERT_SHA1_HASH MULTILINE_OCTAL \330\305\070\212\267\060\033\033\156\324\172\346\105\045\072\157 \237\032\047\141 END CKA CERT MD5 HASH MULTILINE OCTAL \044\167\331\250\221\321\073\372\210\055\302\377\370\315\063\223 **END** CKA ISSUER MULTILINE OCTAL \060\105\061\013\060\011\006\003\125\004\006\023\002\103\110\061 \025\060\023\006\003\125\004\012\023\014\123\167\151\163\163\123 \151\147\156\040\101\107\061\037\060\035\006\003\125\004\003\023 \026\123\167\151\163\163\123\151\147\156\040\107\157\154\144\040 \103\101\040\055\040\107\062 **END** CKA_SERIAL_NUMBER MULTILINE_OCTAL \002\011\000\273\100\034\103\365\136\117\260 **END** CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#

Certificate "SwissSign Silver CA - G2" # # Issuer: CN=SwissSign Silver CA - G2,O=SwissSign AG,C=CH # Serial Number:4f:1b:d4:2f:54:bb:2f:4b # Subject: CN=SwissSign Silver CA - G2,O=SwissSign AG,C=CH # Not Valid Before: Wed Oct 25 08:32:46 2006 # Not Valid After : Sat Oct 25 08:32:46 2036 # Fingerprint (SHA-256): BE:6C:4D:A2:BB:B9:BA:59:B6:F3:93:97:68:37:42:46:C3:C0:05:99:3F:A9:8F:02:0D:1D:ED:BE:D4:8A:81:D5 # Fingerprint (SHA1): 9B:AA:E5:9F:56:EE:21:CB:43:5A:BE:25:93:DF:A7:F0:40:D1:1D:CB CKA CLASS CK_OBJECT_CLASS CKO_CERTIFICATE CKA TOKEN CK BBOOL CK TRUE CKA_PRIVATE CK_BBOOL CK_FALSE CKA_MODIFIABLE CK_BBOOL CK_FALSE CKA LABEL UTF8 "SwissSign Silver CA - G2" CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509 CKA SUBJECT MULTILINE OCTAL \060\107\061\013\060\011\006\003\125\004\006\023\002\103\110\061 \025\060\023\006\003\125\004\012\023\014\123\167\151\163\163\123 \151\147\156\040\101\107\061\041\060\037\006\003\125\004\003\023 \030\123\167\151\163\163\123\151\147\156\040\123\151\154\166\145 \162\040\103\101\040\055\040\107\062 END CKA ID UTF8 "0" CKA ISSUER MULTILINE OCTAL \060\107\061\013\060\011\006\003\125\004\006\023\002\103\110\061 \025\060\023\006\003\125\004\012\023\014\123\167\151\163\163\123 \151\147\156\040\101\107\061\041\060\037\006\003\125\004\003\023 \030\123\167\151\163\163\123\151\147\156\040\123\151\154\166\145 $\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 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 \040\123\151\154\166\145\162\040\103\101\040\055\040\107\062\060 \036\027\015\060\066\061\060\062\065\060\070\063\062\064\066\132 \027\015\063\066\061\060\062\065\060\070\063\062\064\066\132\060 \107\061\013\060\011\006\003\125\004\006\023\002\103\110\061\025 \060\023\006\003\125\004\012\023\014\123\167\151\163\163\123\151 \147\156\040\101\107\061\041\060\037\006\003\125\004\003\023\030

\123\167\151\163\163\123\151\147\156\040\123\151\154\166\145\162 \040\103\101\040\055\040\107\062\060\202\002\042\060\015\006\011 \052\206\110\206\367\015\001\001\001\005\000\003\202\002\017\000 \060\202\002\012\002\202\002\001\000\304\361\207\177\323\170\061 \367\070\311\370\303\231\103\274\307\367\274\067\347\116\161\272 \113\217\245\163\035\134\156\230\256\003\127\256\070\067\103\057 \027\075\037\310\316\150\020\301\170\256\031\003\053\020\372\054 \171\203\366\350\271\150\271\125\362\004\104\247\071\371\374\004 \213\036\361\242\115\047\371\141\173\272\267\345\242\023\266\353 \141\076\320\154\321\346\373\372\136\355\035\264\236\240\065\133 \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 \245\367\107\022\037\164\321\121\236\206\363\302\242\043\100\013 \163\333\113\246\347\163\006\214\301\240\351\301\131\254\106\372 \346\057\370\317\161\234\106\155\271\304\025\215\070\171\003\105 \110\357\304\135\327\010\356\207\071\042\206\262\015\017\130\103 \367\161\251\110\056\375\352\326\037\002\003\001\000\001\243\201 \254\060\201\251\060\016\006\003\125\035\017\001\001\377\004\004 \003\002\001\006\060\017\006\003\125\035\023\001\001\377\004\005 \060\003\001\001\377\060\035\006\003\125\035\016\004\026\004\024 \027\240\315\301\344\101\266\072\133\073\313\105\235\275\034\302 \230\372\206\130\060\037\006\003\125\035\043\004\030\060\026\200 \024\027\240\315\301\344\101\266\072\133\073\313\105\235\275\034 \302\230\372\206\130\060\106\006\003\125\035\040\004\077\060\075 \060\073\006\011\140\205\164\001\131\001\003\001\001\060\056\060 \054\006\010\053\006\001\005\005\007\002\001\026\040\150\164\164 \160\072\057\057\162\145\160\157\163\151\164\157\162\171\056\163 \167\151\163\163\163\151\147\156\056\143\157\155\057\060\015\006 \011\052\206\110\206\367\015\001\001\005\005\000\003\202\002\001

\000\163\306\201\340\047\322\055\017\340\225\060\342\232\101\177 \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 $\label{eq:177} $$ 177 105 21151 331 176 273 170 162 301 006 017 052 316 217 205 $$$ $\label{eq:160} $$ 160\141\254\240\315\013\270\071\051\126\204\062\116\206\273\075\$ \304\052\331\327\037\162\356\376\121\241\042\101\261\161\002\143 \032\202\260\142\253\136\127\022\037\337\313\335\165\240\300\135 \171\220\214\033\340\120\346\336\061\376\230\173\160\137\245\220 \330\255\370\002\266\157\323\140\335\100\113\042\305\075\255\072 \172\237\032\032\107\221\171\063\272\202\334\062\151\003\226\156 \037\113\360\161\376\343\147\162\240\261\277\134\213\344\372\231 \042\307\204\271\033\215\043\227\077\355\045\340\317\145\273\365 $\label{eq:141} $$ 141\004\357\35\036\262\132\101\042\132\241\237\135\054\350\133 $$ \311\155\251\014\014\170\252\140\306\126\217\001\132\014\150\274 \151\031\171\304\037\176\227\005\277\305\351\044\121\136\324\325 \113\123\355\331\043\132\066\003\145\243\301\003\255\101\060\363 \106\033\205\220\257\145\265\325\261\344\026\133\170\165\035\227 \172\155\131\251\052\217\173\336\303\207\211\020\231\111\163\170 \310\075\275\121\065\164\052\325\361\176\151\033\052\273\073\275 \045\270\232\132\075\162\141\220\146\207\356\014\326\115\324\021 \164\013\152\376\013\003\374\243\125\127\211\376\112\313\256\133 \027\005\310\362\215\043\061\123\070\322\055\152\077\202\271\215 \010\152\367\136\101\164\156\303\021\176\007\254\051\140\221\077 \070\312\127\020\015\275\060\057\307\245\346\101\240\332\256\005 \207\232\240\244\145\154\114\011\014\211\272\270\323\271\300\223 \212\060\372\215\345\232\153\025\001\116\147\252\332\142\126\076 \204\010\146\322\304\066\175\247\076\020\374\210\340\324\200\345 \000\275\252\363\116\006\243\172\152\371\142\162\343\011\117\353 \233\016\001\043\361\237\273\174\334\334\154\021\227\045\262\362 $\label{eq:264} $$ $$ 264 143 024 322 006 052 147 214 203 365 316 352 007 330 232 152 $$$ \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 \162\040\103\101\040\055\040\107\062 END CKA SERIAL NUMBER MULTILINE OCTAL \002\010\117\033\324\057\124\273\057\113 **END** CKA TRUST SERVER AUTH CK TRUST CKT NSS TRUSTED DELEGATOR CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR CKA TRUST CODE SIGNING CK TRUST CKT NSS MUST VERIFY TRUST CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE # # Certificate "SecureTrust CA" # # Issuer: CN=SecureTrust CA,O=SecureTrust Corporation,C=US # Serial Number:0c:f0:8e:5c:08:16:a5:ad:42:7f:f0:eb:27:18:59:d0 # Subject: CN=SecureTrust CA,O=SecureTrust Corporation,C=US # Not Valid Before: Tue Nov 07 19:31:18 2006 # Not Valid After : Mon Dec 31 19:40:55 2029 # Fingerprint (SHA-256): F1:C1:B5:0A:E5:A2:0D:D8:03:0E:C9:F6:BC:24:82:3D:D3:67:B5:25:57:59:B4:E7:1B:61:FC:E9:F7:37:5D:73 # Fingerprint (SHA1): 87:82:C6:C3:04:35:3B:CF:D2:96:92:D2:59:3E:7D:44:D9:34:FF:11 CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE CKA_TOKEN CK_BBOOL CK_TRUE CKA_PRIVATE CK_BBOOL CK_FALSE CKA_MODIFIABLE CK_BBOOL CK_FALSE CKA_LABEL UTF8 "SecureTrust CA" CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL

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

CKA VALUE MULTILINE OCTAL \060\202\003\270\060\202\002\240\240\003\002\001\002\002\020\014 \360\216\134\010\026\245\255\102\177\360\353\047\030\131\320\060 \015\006\011\052\206\110\206\367\015\001\001\005\005\000\060\110 \061\013\060\011\006\003\125\004\006\023\002\125\123\061\040\060 \036\006\003\125\004\012\023\027\123\145\143\165\162\145\124\162 $\label{eq: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 $\label{eq:2.102} \\ (023) \\ (027) \\ 123) \\ 145) \\ 143) \\ 165) \\ 162) \\ 145) \\ 124) \\ 162) \\ 165) \\ 163) \\ 164) \\ 040) \\ 103) \\ 157$ \162\160\157\162\141\164\151\157\156\061\027\060\025\006\003\125 \004\003\023\016\123\145\143\165\162\145\124\162\165\163\164\040 \103\101\060\202\001\042\060\015\006\011\052\206\110\206\367\015 \001\001\001\005\000\003\202\001\017\000\060\202\001\012\002\202 \001\001\000\253\244\201\345\225\315\365\366\024\216\302\117\312 \324\342\170\225\130\234\101\341\015\231\100\044\027\071\221\063 $\label{eq:146} $$ 1276 341 203 257 142 134 211 321 374 044 133 141 263 340 $$$ $\label{eq:21} \end{tabular} \end{tabular}$ \306\237\035\275\276\216\251\101\076\270\224\355\051\032\324\216 \322\003\035\003\357\155\015\147\034\127\327\006\255\312\310\365 \376\016\257\146\045\110\004\226\013\135\243\272\026\303\010\117 \321\106\370\024\134\362\310\136\001\231\155\375\210\314\206\250 \301\157\061\102\154\122\076\150\313\363\031\064\337\273\207\030 \126\200\046\304\320\334\300\157\337\336\240\302\221\026\240\144 \021\113\104\274\036\366\347\372\143\336\146\254\166\244\161\243 \354\066\224\150\172\167\244\261\347\016\057\201\172\342\265\162 \206\357\242\153\213\360\017\333\323\131\077\272\162\274\104\044

END

\131\320

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

CKA_SERIAL_NUMBER

END

\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

CKA_ID UTF8 "0" CKA ISSUER MULTILINE OCTAL

END

\234\343\163\263\367\257\127\057\102\046\235\251\164\272\000\122 \362\113\315\123\174\107\013\066\205\016\146\251\010\227\026\064 \127\301\146\367\200\343\355\160\124\307\223\340\056\050\025\131 \207\272\273\002\003\001\000\001\243\201\235\060\201\232\060\023 \006\011\053\006\001\004\001\202\067\024\002\004\006\036\004\000 \103\000\101\060\013\006\003\125\035\017\004\004\003\002\001\206 \060\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001 \377\060\035\006\003\125\035\016\004\026\004\024\102\062\266\026 \372\004\375\376\135\113\172\303\375\367\114\100\035\132\103\257 \060\064\006\003\125\035\037\004\055\060\053\060\051\240\047\240 \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 \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 CKA_NSS_EMAIL_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 Before: Tue Nov 07 19:42:28 2006 # Not Valid After : Mon Dec 31 19:52:06 2029 # Fingerprint (SHA-256): 42:00:F5:04:3A:C8:59:0E:BB:52:7D:20:9E:D1:50:30:29:FB:CB:D4:1C:A1:B5:06:EC:27:F1:5A:DE:7D:AC:69 # Fingerprint (SHA1): 3A:44:73:5A:E5:81:90:1F:24:86:61:46:1E:3B:9C:C4:5F:F5:3A:1B CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "Secure Global CA"

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

CKA_SUBJECT MULTILINE_OCTAL

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

CKA VALUE MULTILINE OCTAL \060\202\003\274\060\202\002\244\240\003\002\001\002\002\020\007 \126\042\244\350\324\212\211\115\364\023\310\360\370\352\245\060 \015\006\011\052\206\110\206\367\015\001\001\005\005\000\060\112 \061\013\060\011\006\003\125\004\006\023\002\125\123\061\040\060 $\label{eq:2.162} \end{tabular} \end{tabula$ \165\163\164\040\103\157\162\160\157\162\141\164\151\157\156\061 \031\060\027\006\003\125\004\003\023\020\123\145\143\165\162\145 \040\107\154\157\142\141\154\040\103\101\060\036\027\015\060\066 \061\061\060\067\061\071\064\062\062\070\132\027\015\062\071\061 \062\063\061\061\071\065\062\060\066\132\060\112\061\013\060\011 \006\003\125\004\006\023\002\125\123\061\040\060\036\006\003\125 \004\012\023\027\123\145\143\165\162\145\124\162\165\163\164\040 \103\157\162\160\157\162\141\164\151\157\156\061\031\060\027\006 \003\125\004\003\023\020\123\145\143\165\162\145\040\107\154\157 \142\141\154\040\103\101\060\202\001\042\060\015\006\011\052\206 \110\206\367\015\001\001\001\005\000\003\202\001\017\000\060\202 \001\012\002\202\001\001\000\257\065\056\330\254\154\125\151\006 \211\003\351\275\352\136\106\123\011\334\134\365\132\350\367\105 \052\002\353\061\141\327\051\063\114\316\307\174\012\067\176\017 \272\062\230\341\035\227\257\217\307\334\311\070\226\363\333\032 \374\121\355\150\306\320\156\244\174\044\321\256\102\310\226\120 \143\056\340\376\165\376\230\247\137\111\056\225\343\071\063\144 \216\036\244\137\220\322\147\074\262\331\376\101\271\125\247\011 \216\162\005\036\213\335\104\205\202\102\320\111\300\035\140\360 \321\027\054\225\353\366\245\301\222\243\305\302\247\010\140\015 \140\004\020\226\171\236\026\064\346\251\266\372\045\105\071\310 \036\145\371\223\365\252\361\122\334\231\230\075\245\206\032\014 \065\063\372\113\245\004\006\025\034\061\200\357\252\030\153\302 \173\327\332\316\371\063\040\325\365\275\152\063\055\201\004\373

END

\352\245

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

CKA_SERIAL_NUMBER

END

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

CKA_ISSUER MULTILINE_OCTAL \060\112\061\013\060\011\006\003\125\004\006\023\002\125\123\061 \040\060\036\006\003\125\004\012\023\027\123\145\143\165\162\145 \124\162\165\163\164\040\103\157\162\160\157\162\141\164\151\157 \156\061\031\060\027\006\003\125\004\003\023\020\123\145\143\165

CKA ISSUER MULTILINE OCT

CKA ID UTF8 "0"

END

\162\145\040\107\154\157\142\141\154\040\103\101

\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

\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 $\label{eq:142} $$ 142\321\163\347\217\172\103\002\003\001\000\001\243\201\235\060\$ \201\232\060\023\006\011\053\006\001\004\001\202\067\024\002\004 \006\036\004\000\103\000\101\060\013\006\003\125\035\017\004\004 \003\002\001\206\060\017\006\003\125\035\023\001\001\377\004\005 \060\003\001\001\377\060\035\006\003\125\035\016\004\026\004\024 $\label{eq:257} $$ $$ 257 104 004 302 101 176 110 203 333 116 071 002 354 354 204 172 $$$ \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 $\label{eq:154} $$ 163\145\143\165\162\145\164\162\165\163\164\056\143\157\$ \155\057\123\107\103\101\056\143\162\154\060\020\006\011\053\006 \001\004\001\202\067\025\001\004\003\002\001\000\060\015\006\011 \052\206\110\206\367\015\001\001\005\005\000\003\202\001\001\000 \121\026\003\357\030\174\310\343\257\152\130\223\024\140\221\262 \204\334\210\116\276\071\212\072\363\346\202\211\135\001\067\263 \253\044\244\025\016\222\065\132\112\104\136\116\127\372\165\316 \037\110\316\146\364\074\100\046\222\230\154\033\356\044\106\014 $\label{eq:263} $$ $ 027 $ 263 $ 122 $ 245 $ 221 $ 21 $ 17 $ 67 $ 323 $ 157 $ 347 $ 047 $ 010 $ 072 $ 167 $ 127 $$ \116\031\037\072\247\130\134\027\317\171\077\213\344\247\323\046 \043\235\046\017\130\151\374\107\176\262\320\215\213\223\277\051 $\label{eq:117} $$ 151\164\166\147\113\317\007\214\346\002\367\265\341\264 $$$ \103\265\113\055\024\237\371\334\046\015\277\246\107\164\006\330 \210\321\072\051\060\204\316\322\071\200\142\033\250\307\127\111 \274\152\125\121\147\025\112\276\065\007\344\325\165\230\067\171 \060\024\333\051\235\154\305\151\314\107\125\242\060\367\314\134 $\label{eq:177} $$ 177 302 303 230 034 153 116 026 200 353 172 170 145 105 242 000 $$$ \032\257\014\015\125\144\064\110\270\222\271\361\264\120\051\362 \117\043\037\332\154\254\037\104\341\335\043\170\121\133\307\026 END

CKA_NSS_MOZILLA_CA_POLICY

CK_BBOOL CK_TRUE

CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA_NSS_EMAIL_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):

42:00:F5:04:3A:C8:59:0E:BB:52:7D:20:9E:D1:50:30:29:FB:CB:D4:1C:A1:B5:06:EC:27:F1:5A:DE:7D:AC:69

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

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA MODIFIABLE CK BBOOL CK FALSE CKA_LABEL UTF8 "Secure Global CA" CKA_CERT_SHA1_HASH MULTILINE_OCTAL \072\104\163\132\345\201\220\037\044\206\141\106\036\073\234\304 \137\365\072\033 END CKA_CERT_MD5_HASH MULTILINE_OCTAL \317\364\047\015\324\355\334\145\026\111\155\075\332\277\156\336 END CKA_ISSUER MULTILINE_OCTAL \060\112\061\013\060\011\006\003\125\004\006\023\002\125\123\061 \040\060\036\006\003\125\004\012\023\027\123\145\143\165\162\145 \156\061\031\060\027\006\003\125\004\003\023\020\123\145\143\165 162145040107154157142141154040103101**END** CKA SERIAL NUMBER MULTILINE OCTAL \002\020\007\126\042\244\350\324\212\211\115\364\023\310\360\370 \352\245 END CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR CKA TRUST CODE SIGNING CK TRUST CKT NSS MUST VERIFY TRUST CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE # # Certificate "COMODO Certification Authority" # # Issuer: CN=COMODO Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester.C=GB # Serial Number:4e:81:2d:8a:82:65:e0:0b:02:ee:3e:35:02:46:e5:3d # Subject: CN=COMODO Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester.C=GB # Not Valid Before: Fri Dec 01 00:00:00 2006 # Not Valid After : Mon Dec 31 23:59:59 2029 # Fingerprint (SHA-256): 0C:2C:D6:3D:F7:80:6F:A3:99:ED:E8:09:11:6B:57:5B:F8:79:89:F0:65:18:F9:80:8C:86:05:03:17:8B:AF:66 # Fingerprint (SHA1): 66:31:BF:9E:F7:4F:9E:B6:C9:D5:A6:0C:BA:6A:BE:D1:F7:BD:EF:7B CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE CKA_TOKEN CK_BBOOL CK_TRUE CKA_PRIVATE CK_BBOOL CK_FALSE CKA_MODIFIABLE CK_BBOOL CK_FALSE CKA_LABEL UTF8 "COMODO Certification Authority" CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509 CKA_SUBJECT MULTILINE_OCTAL \060\201\201\061\013\060\011\006\003\125\004\006\023\002\107\102

\060\202\004\035\060\202\003\005\240\003\002\001\002\002\020\116 \201\055\212\202\145\340\013\002\356\076\065\002\106\345\075\060 \015\006\011\052\206\110\206\367\015\001\001\005\005\000\060\201 \201\061\013\060\011\006\003\125\004\006\023\002\107\102\061\033 \060\031\006\003\125\004\010\023\022\107\162\145\141\164\145\162 \040\115\141\156\143\150\145\163\164\145\162\061\020\060\016\006 \003\125\004\007\023\007\123\141\154\146\157\162\144\061\032\060 \030\006\003\125\004\012\023\021\103\117\115\117\104\117\040\103 \101\040\114\151\155\151\164\145\144\061\047\060\045\006\003\125 $\label{eq:2.1} \end{tabular} \end{tabular}$ $\label{eq:146} \\ 146 \\ 151 \\ 143 \\ 141 \\ 164 \\ 151 \\ 157 \\ 156 \\ 040 \\ 101 \\ 165 \\ 164 \\ 150 \\ 157 \\ 162 \\ 151 \\ 162 \\$ \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 $\label{eq:141} $$ 141\164\145\162\040\115\141\156\143\150\145\163\164\145\162\061\$ \020\060\016\006\003\125\004\007\023\007\123\141\154\146\157\162 \144\061\032\060\030\006\003\125\004\012\023\021\103\117\115\117 $\label{eq:104} $$ 104\103\101\040\114\151\155\151\164\145\144\061\047\060\$ \045\006\003\125\004\003\023\036\103\117\115\117\104\117\040\103

CKA_VALUE MULTILINE_OCTAL

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 \164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157

UTF8 "0"

CKA_ID

END

162 151 164 171

\145\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164 \150\157\162\151\164\171\060\202\001\042\060\015\006\011\052\206 \110\206\367\015\001\001\001\005\000\003\202\001\017\000\060\202 \001\012\002\202\001\001\000\320\100\213\213\162\343\221\033\367 \121\301\033\124\004\230\323\251\277\301\346\212\135\073\207\373 \273\210\316\015\343\057\077\006\226\360\242\051\120\231\256\333 \073\241\127\260\164\121\161\315\355\102\221\115\101\376\251\310 \330\152\206\167\104\273\131\146\227\120\136\264\324\054\160\104 \317\332\067\225\102\151\074\060\304\161\263\122\360\041\115\241 \330\272\071\174\034\236\243\044\235\362\203\026\230\252\026\174 \103\233\025\133\267\256\064\221\376\324\142\046\030\106\232\077 \353\301\371\361\220\127\353\254\172\015\213\333\162\060\152\146 \325\340\106\243\160\334\150\331\377\004\110\211\167\336\265\351 \373\147\155\101\351\274\071\275\062\331\142\002\361\261\250\075 $\label{eq:156} $$ 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 \101\165\164\150\157\162\151\164\171\056\143\162\154\060\015\006 \011\052\206\110\206\367\015\001\001\005\005\000\003\202\001\001 \000\076\230\236\233\366\033\351\327\071\267\170\256\035\162\030 \111\323\207\344\103\202\353\077\311\252\365\250\265\357\125\174 \041\122\145\371\325\015\341\154\364\076\214\223\163\221\056\002 \304\116\007\161\157\300\217\070\141\010\250\036\201\012\300\057 \040\057\101\213\221\334\110\105\274\361\306\336\272\166\153\063 \310\000\055\061\106\114\355\347\235\317\210\224\377\063\300\126 \350\044\206\046\270\330\070\070\337\052\153\335\022\314\307\077 \107\027\114\242\302\006\226\011\326\333\376\077\074\106\101\337 \130\342\126\017\074\073\301\034\223\065\331\070\122\254\356\310 \354\056\060\116\224\065\264\044\037\113\170\151\332\362\002\070 \314\225\122\223\360\160\045\131\234\040\147\304\356\371\213\127 \141\364\222\166\175\077\204\215\125\267\350\345\254\325\361\365 \031\126\246\132\373\220\034\257\223\353\345\034\324\147\227\135 \004\016\276\013\203\246\027\203\271\060\022\240\305\063\025\005 \271\015\373\307\005\166\343\330\112\215\374\064\027\243\306\041 \050\276\060\105\061\036\307\170\276\130\141\070\254\073\342\001 \145

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 **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 $\label{eq:164} \end{tabular} 164 \end{tabular} 146 \end{tabular} 141 \end{tabular} 151 \end{tabular} 157 \end{tabular} 156 \end{tabular} 040 \end{tabular} 101 \end{tabular} 164 \end{tabular} 157 \end{tabular}$ \162\151\164\171 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
```

#

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

 $\label{eq:153} 040 123 157 154 165 164 151 157 156 163 040 114 056 114 056$

\103\056\061\060\060\056\006\003\125\004\003\023\047\116\145\164

 $\label{eq:167} $$ 167\157\162\153\040\123\157\154\165\164\151\157\156\163\040\103$

162 151 164 171

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

 $\label{eq:spinor} $$ $ 1060 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 \end{tabular}$

162 151 164 171

END

CKA_SERIAL_NUMBER

MULTILINE_OCTAL

\002\020\127\313\063\157\302\134\026\346\107\026\027\343\220\061 \150\340

END

CKA_VALUE MULTILINE_OCTAL

\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 $\label{eq:164} \end{tabular} 164 \end{tabular} 146 \end{tabular} 141 \end{tabular} 164 \end{tabular}$ \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 $\label{eq:103} \\ 145 \\ 162 \\ 164 \\ 151 \\ 146 \\ 151 \\ 143 \\ 141 \\ 164 \\ 145 \\ 040 \\ 101 \\ 165 \\ 164 \\ 165 \\ 165 \\ 164 \\ 165 \\ 165 \\ 165 \\ 165 \\ 165 \\ 165 \\ 105 \\ 165 \\ 105 \\$ \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 $\label{eq:2.14} \end{tabular} \end{tabular$ \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 $\label{eq:251} $$ $$ 251 - 156 - 263 - 166 - 230 - 121 - 340 - 005 - 343 - 041 - 253 - 032 - 205 - 056 - 0$ \042\074\051\265\232\026\305\200\250\364\273\153\060\217\057\106 \002\242\261\014\042\340\323\002\003\001\000\001\243\201\227\060 \201\224\060\035\006\003\125\035\016\004\026\004\024\041\060\311 \373\000\327\116\230\332\207\252\052\320\247\056\261\100\061\247 \114\060\016\006\003\125\035\017\001\001\377\004\004\003\002\001 \006\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001 \001\377\060\122\006\003\125\035\037\004\113\060\111\060\107\240 \164\167\157\162\153\123\157\154\165\164\151\157\156\163\103\145 \162\164\151\146\151\143\141\164\145\101\165\164\150\157\162\151 \164\171\056\143\162\154\060\015\006\011\052\206\110\206\367\015 \001\001\005\005\000\003\202\001\001\000\273\256\113\347\267\127 \353\177\252\055\267\163\107\205\152\301\344\245\035\344\347\074 \351\364\131\145\167\265\172\133\132\215\045\066\340\172\227\056 \070\300\127\140\203\230\006\203\237\271\166\172\156\120\340\272 \210\054\374\105\314\030\260\231\225\121\016\354\035\270\210\377

\207\120\034\202\302\343\340\062\200\277\240\013\107\310\303\061 \357\231\147\062\200\117\027\041\171\014\151\134\336\136\064\256 \002\265\046\352\120\337\177\030\145\054\311\362\143\341\251\007 \376\174\161\037\153\063\044\152\036\005\367\005\150\300\152\022 \313\056\136\141\313\256\050\323\176\302\264\146\221\046\137\074 \056\044\137\313\130\017\353\050\354\257\021\226\363\334\173\157 \300\247\210\362\123\167\263\140\136\256\256\050\332\065\054\157 \064\105\323\046\341\336\354\133\117\047\153\026\174\275\104\004 \030\202\263\211\171\027\020\161\075\172\242\026\116\365\001\315 \244\154\145\150\241\111\166\134\103\311\330\274\066\147\154\245 \224\265\324\314\271\275\152\065\126\041\336\330\303\353\373\313 \244\140\114\260\125\240\240\173\127\262 END

CKA_NSS_MOZILLA_CA_POLICY

CK_BBOOL CK_TRUE

CKA_NSS_SERVER_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

\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

 $\label{eq:spinor} $$ \ (060) 142 \ (013) \ (060) \ (011) \ (060) \ (031) \ (25) \ (004) \ (006) \ (023) \ (022) \ (25)$

END CKA SERIAL NUMBER MULTILINE OCTAL \002\020\127\313\063\157\302\134\026\346\107\026\027\343\220\061 \150\340 END CKA_TRUST_SERVER_AUTH CK TRUST CKT NSS TRUSTED DELEGATOR CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST CKA TRUST STEP UP APPROVED CK BBOOL CK FALSE # # Certificate "COMODO ECC Certification Authority" # # Issuer: CN=COMODO ECC Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester.C=GB # Serial Number:1f:47:af:aa:62:00:70:50:54:4c:01:9e:9b:63:99:2a # Subject: CN=COMODO ECC Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester.C=GB # Not Valid Before: Thu Mar 06 00:00:00 2008 # Not Valid After : Mon Jan 18 23:59:59 2038 # Fingerprint (SHA-256): 17:93:92:7A:06:14:54:97:89:AD:CE:2F:8F:34:F7:F0:B6:6D:0F:3A:E3:A3:B8:4D:21:EC:15:DB:BA:4F:AD:C7 # Fingerprint (SHA1): 9F:74:4E:9F:2B:4D:BA:EC:0F:31:2C:50:B6:56:3B:8E:2D:93:C3:11 CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE CKA TOKEN CK BBOOL CK TRUE CKA PRIVATE CK BBOOL CK FALSE CKA_MODIFIABLE CK BBOOL CK FALSE CKA LABEL UTF8 "COMODO ECC Certification Authority" CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509 CKA SUBJECT MULTILINE OCTAL \060\201\205\061\013\060\011\006\003\125\004\006\023\002\107\102 \061\033\060\031\006\003\125\004\010\023\022\107\162\145\141\164 \145\162\040\115\141\156\143\150\145\163\164\145\162\061\020\060

 $\label{eq:145}162\040\115\141\156\143\150\145\163\164\145\162\061\020\060\003\125\004\007\023\007\123\141\154\146\157\162\144\061\003\105\1006\003\125\004\003\125\004\0012\023\021\103\117\115\117\104\117\040\105\1006\005\1006\003\125\004\003\023\042\103\117\115\117\104\117\040\105\103\103\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101\1165\164\157\156\040\101\165\164\157\162\151\164\171$

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

\032\060\030\006\003\125\004\012\023\021\103\117\115\117\104\117 \040\103\101\040\114\151\155\151\164\145\144\061\053\060\051\006 \003\125\004\003\023\042\103\117\115\117\104\117\040\105\103\103 $\label{eq:103} \\ 145 \\ 162 \\ 164 \\ 151 \\ 146 \\ 151 \\ 143 \\ 141 \\ 164 \\ 151 \\ 157 \\ 156 \\ 040 \\ 101 \\$ $165\164\150\157\162\151\164\171$

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

\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 $\label{eq:2.107} \\ (003) \\ 125 \\ (004) \\ (010) \\ (023) \\ (022) \\ 107 \\ (162) \\ 145 \\ (145) \\ 164 \\ (145) \\ 162 \\ (040) \\ (115) \\ 141 \\ (164) \\ (145) \\ 162 \\ (040) \\ (115) \\ 141 \\ (164) \\ (162) \\ ($ \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 $\label{eq:125} 004 012 023 021 103 117 115 117 104 117 040 103 101 040 114$ \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} $$ 151\143\141\164\151\157\156\040\101\165\164\150\157\162\$ \151\164\171\060\036\027\015\060\070\060\063\060\066\060\060\060 \060\060\060\132\027\015\063\070\060\061\061\070\062\063\065\071 \065\071\132\060\201\205\061\013\060\011\006\003\125\004\006\023 \002\107\102\061\033\060\031\006\003\125\004\010\023\022\107\162 $\label{eq:145} $$ 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} $$ 117\04\103\101\040\114\151\155\151\164\145\144\061\053 $$$ \060\051\006\003\125\004\003\023\042\103\117\115\117\104\117\040 \105\103\103\040\103\145\162\164\151\146\151\143\141\164\151\157 \156\040\101\165\164\150\157\162\151\164\171\060\166\060\020\006 \007\052\206\110\316\075\002\001\006\005\053\201\004\000\042\003 \142\000\004\003\107\173\057\165\311\202\025\205\373\165\344\221 \026\324\253\142\231\365\076\122\013\006\316\101\000\177\227\341 \012\044\074\035\001\004\356\075\322\215\011\227\014\340\165\344 \372\373\167\212\052\365\003\140\113\066\213\026\043\026\255\011 $\label{eq:161} $$ 161\364\112\364\050\120\264\376\210\034\156\077\154\057\057\011\$

END

CKA_VALUE MULTILINE_OCTAL

MULTILINE OCTAL

\231\052 **END**

CKA SERIAL NUMBER

\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

Open Source Used In vmoperator Crafton-3.0 640

\004\024\165\161\247\031\110\031\274\235\235\352\101\107\337\224 \304\110\167\231\323\171\060\016\006\003\125\035\017\001\001\377 \004\004\003\002\001\006\060\017\006\003\125\035\023\001\001\377 \004\005\060\003\001\001\377\060\012\006\010\052\206\110\316\075 \004\003\003\003\150\000\060\145\002\061\000\357\003\133\172\254 \267\170\012\162\267\210\337\377\265\106\024\011\012\372\240\346

\175\010\306\032\207\275\030\250\163\275\046\312\140\014\235\316 \231\237\317\134\017\060\341\276\024\061\352\002\060\024\364\223 \074\111\247\063\172\220\106\107\263\143\175\023\233\116\267\157 \030\067\200\123\376\335\040\340\065\232\066\321\307\001\271\346 \334\335\363\377\035\054\072\026\127\331\222\071\326 END CKA NSS MOZILLA CA POLICY CK_BBOOL CK_TRUE CKA_NSS_SERVER_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 \237\164\116\237\053\115\272\354\017\061\054\120\266\126\073\216 \055\223\303\021 END CKA CERT MD5 HASH MULTILINE OCTAL \174\142\377\164\235\061\123\136\150\112\325\170\252\036\277\043 END CKA ISSUER MULTILINE OCTAL \060\201\205\061\013\060\011\006\003\125\004\006\023\002\107\102 $\label{eq:2.145} $$ 061\03\060\03\1006\003\125\004\010\023\022\107\162\145\141\164$ $\label{eq:145} $$ 145\162\040\115\141\156\143\150\145\163\164\145\162\061\020\060\$ \016\006\003\125\004\007\023\007\123\141\154\146\157\162\144\061 \032\060\030\006\003\125\004\012\023\021\103\117\115\117\104\117 \040\103\101\040\114\151\155\151\164\145\144\061\053\060\051\006 \003\125\004\003\023\042\103\117\115\117\104\117\040\105\103\103 \040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101 165164150157162151164171END CKA_SERIAL_NUMBER MULTILINE_OCTAL

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

\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

\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

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

 $141\\154\\040\\122\\157\\157\\164\\040\\107\\101\\040\\103\\101$

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

CKA VALUE MULTILINE OCTAL \060\202\003\361\060\202\002\331\240\003\002\001\002\002\020\101 \075\162\307\364\153\037\201\103\175\361\322\050\124\337\232\060 \015\006\011\052\206\110\206\367\015\001\001\005\005\000\060\201 \212\061\013\060\011\006\003\125\004\006\023\002\103\110\061\020 $\label{eq:2.1} \end{tabular} \end{tabular}$ \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 $\label{eq:2.1} \end{tabular} \end{tabular}$ \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 \040\122\157\157\164\040\107\101\040\103\101\060\036\027\015\060 \065\061\062\061\061\061\066\060\063\064\064\132\027\015\063\067 \061\062\061\061\061\066\060\071\065\061\132\060\201\212\061\013 \060\011\006\003\125\004\006\023\002\103\110\061\020\060\016\006 \003\125\004\012\023\007\127\111\123\145\113\145\171\061\033\060 \031\006\003\125\004\013\023\022\103\157\160\171\162\151\147\150 \164\040\050\143\051\040\062\060\060\065\061\042\060\040\006\003 \125\004\013\023\031\117\111\123\124\105\040\106\157\165\156\144 \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 \335\371\321\111\152\153\020\111\037\354\330\053\262\306\370\062 \201\051\103\225\114\232\031\043\041\025\105\336\343\310\034\121 \125\133\256\223\350\067\377\053\153\351\324\352\276\052\335\250 \121\053\327\146\303\141\134\140\002\310\365\316\162\173\073\270 \362\116\145\010\232\315\244\152\031\301\001\273\163\246\327\366 \303\335\315\274\244\213\265\231\141\270\001\242\243\324\115\324 \005\075\221\255\370\264\010\161\144\257\160\361\034\153\176\366 \303\167\235\044\163\173\344\014\214\341\331\066\341\231\213\005 \231\013\355\105\061\011\312\302\000\333\367\162\240\226\252\225 \207\320\216\307\266\141\163\015\166\146\214\334\033\264\143\242 $\label{eq:237} $$ 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

END

\337\232

MULTILINE OCTAL \002\020\101\075\162\307\364\153\037\201\103\175\361\322\050\124

CKA SERIAL NUMBER

END

141154040122157157164040107101040103101

 $\label{eq:123} \\ 123 \\ 124 \\ 105 \\ 040 \\ 127 \\ 111 \\ 123 \\ 145 \\ 113 \\ 145 \\ 171 \\ 040 \\ 107 \\ 154 \\ 157 \\ 142 \\ 142 \\ 145 \\ 113 \\ 145 \\ 171 \\ 040 \\ 107 \\ 154 \\ 157 \\ 142 \\ 145 \\ 113 \\ 113 \\ 113 \\ 145 \\ 113 \\ 145 \\ 113 \\ 145 \\ 113 \\ 113 \\ 113 \\ 1145 \\ 113 \\ 113 \\ 1145 \\ 113 \\ 113 \\ 110$

\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 $$ 060 $$ $$ 266 $$ 21 $$ 276 $$ 041 $$ 262 $$ 151 $$ 206 $$ 224 $$ 060 $$ $$ 266 $$ 21 $$ 266 $$ 224 $$ 060 $$ 266 $$ 21 $$ 266 $$ 21 $$ 266 $$ 21 $$ 266 $$ 224 $$ 266 $$ 224 $$ 266 $$ 21 $$ 266 $$ 21 $$ 266 $$ 21 $$ 266 $$ 224 $$ 266 $$ 21 $$ 266 $$ 224 $$ 266 $$ 266 $$ 21 $$ 266 $$ 226 $$ 266 $$ 226 $$ 266 $$ 2$ \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 $\label{eq:20} \end{tabular} \end{tabular}$ \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

 $\label{eq:274} $$ $$ 274\154\121\063\247\351\323\146\143\124\025\162\033\041\222\223 $$ END $$$

CKA_ISSUER MULTILINE_OCTAL

 $\label{eq:2012120610130600110060031250040060230021031100061020060016006003125004012023007127111123145111314517106100306003125004013023022103157160171162151147150164040050143051040062060060065061042060040006003125004013023031117111123124105040106157165156144141164151157156040105156144157162163145144061050060046006003125004003023037117111112312410504001051561441571621631451440610500600460060031250040030230371171111123124105040127111123145113145171040107154157142141154040122157157164040107101040103101$

END

CKA_SERIAL_NUMBER

MULTILINE_OCTAL

\337\232

END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#

Certificate "Certigna"

#

Issuer: CN=Certigna,O=Dhimyotis,C=FR

Serial Number:00:fe:dc:e3:01:0f:c9:48:ff

Subject: CN=Certigna,O=Dhimyotis,C=FR

Not Valid Before: Fri Jun 29 15:13:05 2007

Not Valid After : Tue Jun 29 15:13:05 2027

Fingerprint (SHA-256):

E3:B6:A2:DB:2E:D7:CE:48:84:2F:7A:C5:32:41:C7:B7:1D:54:14:4B:FB:40:C1:1F:3F:1D:0B:42:F5:EE:A1:2D #

Fingerprint (SHA1): B1:2E:13:63:45:86:A4:6F:1A:B2:60:68:37:58:2D:C4:AC:FD:94:97

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "Certigna"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL

CKA_VALUE MULTILINE_OCTAL \060\202\003\250\060\202\002\220\240\003\002\001\002\002\011\000 \376\334\343\001\017\311\110\377\060\015\006\011\052\206\110\206 \367\015\001\001\005\005\000\060\064\061\013\060\011\006\003\125 \004\006\023\002\106\122\061\022\060\020\006\003\125\004\012\014 \011\104\150\151\155\171\157\164\151\163\061\021\060\017\006\003 \125\004\003\014\010\103\145\162\164\151\147\156\141\060\036\027 \015\060\067\060\066\062\071\061\065\061\063\060\065\132\027\015 \062\067\060\066\062\071\061\065\061\063\060\065\132\060\064\061 \013\060\011\006\003\125\004\006\023\002\106\122\061\022\060\020 \006\003\125\004\012\014\011\104\150\151\155\171\157\164\151\163 \061\021\060\017\006\003\125\004\003\014\010\103\145\162\164\151 \147\156\141\060\202\001\042\060\015\006\011\052\206\110\206\367 \015\001\001\001\005\000\003\202\001\017\000\060\202\001\012\002 \202\001\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 $\label{eq:100} $$ 100\041\344\140\236\132\310\143\341\304\261\226\222\377\030\155\$ \151\043\341\053\142\367\335\342\066\057\221\007\271\110\317\016 \354\171\266\054\347\064\113\160\010\045\243\074\207\033\031\362 \201\007\017\070\220\031\323\021\376\206\264\362\321\136\036\036 \226\315\200\154\316\073\061\223\266\362\240\320\251\225\022\175 \245\232\314\153\310\204\126\212\063\251\347\042\025\123\026\360 \314\027\354\127\137\351\242\012\230\011\336\343\137\234\157\334 \110\343\205\013\025\132\246\272\237\254\110\343\011\262\367\364 $\label{eq:22} \end{tabular} \end{tabular}$ \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 \046\310\045\256\005\112\264\347\143\054\363\214\026\123\176\134 \373\021\032\010\301\106\142\237\042\270\361\302\215\151\334\372 \072\130\006\337\002\003\001\000\001\243\201\274\060\201\271\060 \017\006\003\125\035\023\001\001\377\004\005\060\003\001\001\377 \060\035\006\003\125\035\016\004\026\004\024\032\355\376\101\071 \220\264\044\131\276\001\362\122\325\105\366\132\071\334\021\060

Open Source Used In vmoperator Crafton-3.0 646

END

\002\011\000\376\334\343\001\017\311\110\377

CKA_SERIAL_NUMBER MULTILINE_OCTAL

END

162 164 151 147 156 141

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_ID UTF8 "0"

END

162 164 151 147 156 141

\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

\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 $\label{eq:101} \end{tabular} 103\145\162\164\151\147\156\141\202\011\000\376\334\343$ \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 $\label{eq:161} $$ 161\366\102\257\341\243\141\236\353\363\300\017\362\245\324\332$ \225\346\326\276\150\066\075\176\156\037\114\212\357\321\017\041 \155\136\245\122\143\316\022\370\357\052\332\157\353\067\376\023 \002\307\313\073\076\042\153\332\141\056\177\324\162\075\335\060 \341\036\114\100\031\214\017\327\234\321\203\060\173\230\131\334 \175\306\271\014\051\114\241\063\242\353\147\072\145\204\323\226 \342\355\166\105\160\217\265\053\336\371\043\326\111\156\074\024 \265\306\237\065\036\120\320\301\217\152\160\104\002\142\313\256 \035\150\101\247\252\127\350\123\252\007\322\006\366\325\024\006 \013\221\003\165\054\154\162\265\141\225\232\015\213\271\015\347 \365\337\124\315\336\346\330\326\011\010\227\143\345\301\056\260 \267\104\046\300\046\300\257\125\060\236\073\325\066\052\031\004 \364\134\036\377\317\054\267\377\320\375\207\100\021\325\021\043 \273\110\300\041\251\244\050\055\375\025\370\260\116\053\364\060 \133\041\374\021\221\064\276\101\357\173\235\227\165\377\227\225 \300\226\130\057\352\273\106\327\273\344\331\056 END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE CKA_NSS_SERVER_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 \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 141END CKA SERIAL NUMBER MULTILINE OCTAL \002\011\000\376\334\343\001\017\311\110\377 END CKA TRUST SERVER AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR CKA TRUST EMAIL PROTECTION CK TRUST CKT NSS TRUSTED DELEGATOR CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE # # Certificate "ePKI Root Certification Authority" # # Issuer: OU=ePKI Root Certification Authority,O="Chunghwa Telecom Co., Ltd.",C=TW # Serial Number:15:c8:bd:65:47:5c:af:b8:97:00:5e:e4:06:d2:bc:9d # Subject: OU=ePKI Root Certification Authority,O="Chunghwa Telecom Co., Ltd.",C=TW # Not Valid Before: Mon Dec 20 02:31:27 2004 # Not Valid After : Wed Dec 20 02:31:27 2034 # Fingerprint (SHA-256): C0:A6:F4:DC:63:A2:4B:FD:CF:54:EF:2A:6A:08:2A:0A:72:DE:35:80:3E:2F:F5:FF:52:7A:E5:D8:72:06:DF:D5 # Fingerprint (SHA1): 67:65:0D:F1:7E:8E:7E:5B:82:40:A4:F4:56:4B:CF:E2:3D:69:C6:F0 CKA CLASS CK OBJECT CLASS CKO CERTIFICATE CKA TOKEN CK BBOOL CK TRUE CKA PRIVATE CK BBOOL CK FALSE CKA MODIFIABLE CK BBOOL CK FALSE CKA LABEL UTF8 "ePKI Root Certification Authority" CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509 CKA_SUBJECT MULTILINE_OCTAL \060\136\061\013\060\011\006\003\125\004\006\023\002\124\127\061 \043\060\041\006\003\125\004\012\014\032\103\150\165\156\147\150 \167\141\040\124\145\154\145\143\157\155\040\103\157\056\054\040 \114\164\144\056\061\052\060\050\006\003\125\004\013\014\041\145 $\label{eq:143} \\ 141 \\ 164 \\ 151 \\ 157 \\ 156 \\ 040 \\ 101 \\ 165 \\ 164 \\ 150 \\ 157 \\ 162 \\ 151 \\ 164 \\ 171 \\ 164 \\$ **END**

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

CKA_SERIAL_NUMBER MULTILINE_OCTAL

\002\020\025\310\275\145\107\134\257\270\227\000\136\344\006\322 \274\235

END

CKA_VALUE

MULTILINE_OCTAL

\060\202\005\260\060\202\003\230\240\003\002\001\002\002\020\025 \310\275\145\107\134\257\270\227\000\136\344\006\322\274\235\060 \015\006\011\052\206\110\206\367\015\001\001\005\005\000\060\136 \061\013\060\011\006\003\125\004\006\023\002\124\127\061\043\060 \041\006\003\125\004\012\014\032\103\150\165\156\147\150\167\141 $\label{eq:1040} \\ (040) \\ 124) \\ 145) \\ 154) \\ 145) \\ 143) \\ 157) \\ 155) \\ 040) \\ 103) \\ 157) \\ 056) \\ 054) \\ 040) \\ 114) \\ 164$ \144\056\061\052\060\050\006\003\125\004\013\014\041\145\120\113 $\label{eq:111} 040 122 157 157 164 040 103 145 162 164 151 146 151 143 141$ \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 $\label{eq:1040} \\ (040) \\ 124) \\ 145) \\ 154) \\ 145) \\ 143) \\ 157) \\ 155) \\ 040) \\ 103) \\ 157) \\ 056) \\ 054) \\ 040) \\ 114) \\ 164$ \144\056\061\052\060\050\006\003\125\004\013\014\041\145\120\113 $\label{eq:111} 040 122 157 157 164 040 103 145 162 164 151 146 151 143 141$ $\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\341 \045\017\356\215\333\210\063\165\147\315\255\037\175\072\116\155 \235\323\057\024\363\143\164\313\001\041\152\067\352\204\120\007 \113\046\133\011\103\154\041\236\152\310\325\003\365\140\151\217 \314\360\042\344\037\347\367\152\042\061\267\054\025\362\340\376 \000\152\103\377\207\145\306\265\032\301\247\114\155\042\160\041 \212\061\362\227\164\211\011\022\046\034\236\312\331\022\242\225 \074\332\351\147\277\010\240\144\343\326\102\267\105\357\227\364 \366\365\327\265\112\025\002\130\175\230\130\113\140\274\315\327 \015\232\023\063\123\321\141\371\172\325\327\170\263\232\063\367 \000\206\316\035\115\224\070\257\250\354\170\121\160\212\134\020 \203\121\041\367\021\075\064\206\136\345\110\315\227\201\202\065 \114\031\354\145\366\153\305\005\241\356\107\023\326\263\041\047 \224\020\012\331\044\073\272\276\104\023\106\060\077\227\074\330 \327\327\152\356\073\070\343\053\324\227\016\271\033\347\007\111 $\label{eq:177} $$ 177\052\371\167\170\317\124\355\133\106\235\243\200\016\221 $$$

\103\301\326\133\137\024\272\237\246\215\044\107\100\131\277\162 \070\262\066\154\067\377\231\321\135\016\131\012\253\151\367\300 \262\004\105\172\124\000\256\276\123\366\265\347\341\370\074\243 \061\322\251\376\041\122\144\305\246\147\360\165\007\006\224\024 \201\125\306\047\344\001\217\027\301\152\161\327\276\113\373\224 \130\175\176\021\063\261\102\367\142\154\030\326\317\011\150\076 $\label{eq:177} $$ 154\366\036\217\142\255\245\143\333\011\247\037\042\102\101\$ $\label{eq:22} \end{tabular} \end{tabular}$ \235\075\010\025\245\020\001\055\263\062\166\250\225\015\263\172 \232\373\007\020\170\021\157\341\217\307\272\017\045\032\164\052 \345\034\230\101\231\337\041\207\350\225\006\152\012\263\152\107 \036\041\307\054\277\276\377\141\150\267\147\033\273\170\115\215 \316\147\345\344\301\216\267\043\146\342\235\220\165\064\230\251 \266\057\214\037\155\171\044\247\122\150\303\204\065\342\146\215 $\label{eq:143} $$ 143\016\045\115\325\031\262\346\171\067\247\042\235\124\061\002$ \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 $\label{eq:246} $$ 123\31\237\362\246\261\044\007\104\152\052\306\245\216\170\022 $$$ \350\107\331\130\033\023\052\136\171\233\237\012\052\147\246\045 \077\006\151\126\163\303\212\146\110\373\051\201\127\164\006\312 \234\352\050\350\070\147\046\053\361\325\265\077\145\223\370\066 \135\216\215\215\100\040\207\031\352\357\047\300\075\264\071\017 \045\173\150\120\164\125\234\014\131\175\132\075\101\224\045\122 \010\340\107\054\025\061\031\325\277\007\125\306\273\022\265\227 \364\137\203\205\272\161\301\331\154\201\021\166\012\012\260\277 \202\227\367\352\075\372\372\354\055\251\050\224\073\126\335\322 \121\056\256\300\275\010\025\214\167\122\064\226\326\233\254\323 \035\216\141\017\065\173\233\256\071\151\013\142\140\100\040\066 \217\257\373\066\356\055\010\112\035\270\277\233\134\370\352\245 \033\240\163\246\330\370\156\340\063\004\137\150\252\047\207\355 \331\301\220\234\355\275\343\152\065\257\143\337\253\030\331\272 \346\351\112\352\120\212\017\141\223\036\342\055\031\342\060\224 \065\222\135\016\266\007\257\031\200\217\107\220\121\113\056\115 \335\205\342\322\012\122\012\027\232\374\032\260\120\002\345\001 \243\143\067\041\114\104\304\233\121\231\021\016\163\234\006\217 $\label{eq:24} $$ 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} $$ 145 015 361 176 176 133 202 100 244 364 126 113 317 342 $$$ \075\151\306\360 END CKA_CERT_MD5_HASH MULTILINE OCTAL $\label{eq:20} \end{tabular} $$ \000\312\046\006\220\075\255\376\157\025\150\323\153\263 $$$ **END** CKA_ISSUER MULTILINE_OCTAL \060\136\061\013\060\011\006\003\125\004\006\023\002\124\127\061 \043\060\041\006\003\125\004\012\014\032\103\150\165\156\147\150 \114\164\144\056\061\052\060\050\006\003\125\004\013\014\041\145 $\label{eq:143} \\ 143 \\ 141 \\ 164 \\ 151 \\ 157 \\ 156 \\ 040 \\ 101 \\ 165 \\ 164 \\ 150 \\ 157 \\ 162 \\ 151 \\ 164 \\ 171 \\ 164 \\ 164 \\ 164 \\ 171 \\ 164 \\$ END 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):

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

\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

 $\label{eq:164123111107116040122117117124040103101} \\$

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

\060\073\061\013\060\011\006\003\125\004\006\023\002\122\117\061 \021\060\017\006\003\125\004\012\023\010\143\145\162\164\123\111

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

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

END

CKA_SERIAL_NUMBER

MULTILINE_OCTAL

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

END

CKA_VALUE MULTILINE_OCTAL

\020\143\145\162\164\123\111\107\116\040\122\117\117\124\040\103 \101\060\036\027\015\060\066\060\067\060\064\061\067\062\060\060 \064\132\027\015\063\061\060\067\060\064\061\067\062\060\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 $\label{eq:150124204115212400200537733723322052256135} \label{eq:150124204115212400200537733723322052256135}$ \007\217\112\303\050\177\357\373\053\372\171\361\307\255\360\020 \123\044\220\213\146\311\250\210\253\257\132\243\000\351\276\272 \106\356\133\163\173\054\027\202\201\136\142\054\241\002\145\263 \275\305\053\000\176\304\374\003\063\127\015\355\342\372\316\135 \105\326\070\315\065\266\262\301\320\234\201\112\252\344\262\001 \134\035\217\137\231\304\261\255\333\210\041\353\220\010\202\200 \363\060\243\103\346\220\202\256\125\050\111\355\133\327\251\020 \070\016\376\217\114\133\233\106\352\101\365\260\010\164\303\320 \210\063\266\174\327\164\337\334\204\321\103\016\165\071\241\045 \100\050\352\170\313\016\054\056\071\235\214\213\156\026\034\057 \046\202\020\342\343\145\224\012\004\300\136\367\135\133\370\020 \342\320\272\172\113\373\336\067\000\000\032\133\050\343\322\234 \163\076\062\207\230\241\311\121\057\327\336\254\063\263\117\002 \003\001\000\001\243\102\060\100\060\017\006\003\125\035\023\001 \001\377\004\005\060\003\001\001\377\060\016\006\003\125\035\017 \001\001\377\004\003\002\001\306\060\035\006\003\125\035\016 \004\026\004\024\340\214\233\333\045\111\263\361\174\206\326\262 \102\207\013\320\153\240\331\344\060\015\006\011\052\206\110\206 \367\015\001\001\005\005\000\003\202\001\001\000\076\322\034\211 \056\065\374\370\165\335\346\177\145\210\364\162\114\311\054\327 \062\116\363\335\031\171\107\275\216\073\133\223\017\120\111\044 \023\153\024\006\162\357\011\323\241\241\343\100\204\311\347\030 \062\164\074\110\156\017\237\113\324\367\036\323\223\206\144\124 \227\143\162\120\325\125\317\372\040\223\002\242\233\303\043\223 \116\026\125\166\240\160\171\155\315\041\037\317\057\055\274\031 \343\210\061\370\131\032\201\011\310\227\246\164\307\140\304\133 \314\127\216\262\165\375\033\002\011\333\131\157\162\223\151\367 \061\101\326\210\070\277\207\262\275\026\171\371\252\344\276\210 \045\335\141\047\043\034\265\061\007\004\066\264\032\220\275\240 \164\161\120\211\155\274\024\343\017\206\256\361\253\076\307\240 \011\314\243\110\321\340\333\144\347\222\265\317\257\162\103\160 \213\371\303\204\074\023\252\176\222\233\127\123\223\372\160\302 \221\016\061\371\233\147\135\351\226\070\136\137\263\163\116\210 \025\147\336\236\166\020\142\040\276\125\151\225\103\000\071\115 \366\356\260\132\116\111\104\124\130\137\102\203 END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "certSIGN ROOT CA" # Issuer: OU=certSIGN ROOT CA,O=certSIGN,C=RO # Serial Number:20:06:05:16:70:02 # Subject: OU=certSIGN ROOT CA,O=certSIGN,C=RO # Not Valid Before: Tue Jul 04 17:20:04 2006 # Not Valid After : Fri Jul 04 17:20:04 2031 # Fingerprint (SHA-256): EA:A9:62:C4:FA:4A:6B:AF:EB:E4:15:19:6D:35:1C:CD:88:8D:4F:53:F3:FA:8A:E6:D7:C4:66:A9:4E:60:42:BB # Fingerprint (SHA1): FA:B7:EE:36:97:26:62:FB:2D:B0:2A:F6:BF:03:FD:E8:7C:4B:2F:9B CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST CKA TOKEN CK BBOOL CK TRUE CKA_PRIVATE CK_BBOOL CK_FALSE CKA MODIFIABLE CK BBOOL CK FALSE CKA_LABEL UTF8 "certSIGN ROOT CA" CKA_CERT_SHA1_HASH MULTILINE_OCTAL \372\267\356\066\227\046\142\373\055\260\052\366\277\003\375\350 \174\113\057\233 END CKA CERT MD5 HASH MULTILINE OCTAL \030\230\300\326\351\072\374\371\260\365\014\367\113\001\104\027 **END** CKA ISSUER MULTILINE OCTAL \060\073\061\013\060\011\006\003\125\004\006\023\002\122\117\061 \021\060\017\006\003\125\004\012\023\010\143\145\162\164\123\111 \107\116\061\031\060\027\006\003\125\004\013\023\020\143\145\162 $\label{eq:164123111107116040122117117124040103101} \\$ **END** CKA SERIAL NUMBER MULTILINE OCTAL \002\006\040\006\005\026\160\002 **END** CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE # # Certificate "NetLock Arany (Class Gold) Ftanúsítvány"

Issuer: CN=NetLock Arany (Class Gold) F..tan..s..tv..ny,OU=Tan..s..tv..nykiad..k (Certification Services),O=NetLock Kft.,L=Budapest,C=HU

Serial Number:49:41:2c:e4:00:10

Subject: CN=NetLock Arany (Class Gold) F..tan..s..tv..ny,OU=Tan..s..tv..nykiad..k (Certification

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Services),O=NetLock Kft.,L=Budapest,C=HU
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Not Valid Before: Thu Dec 11 15:08:21 2008

Not Valid After : Wed Dec 06 15:08:21 2028

Fingerprint (SHA-256):

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

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

END

CKA_SERIAL_NUMBER

MULTILINE_OCTAL

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

END

CKA_VALUE MULTILINE_OCTAL

\023\002\110\125\061\021\060\017\006\003\125\004\007\014\010\102 \165\144\141\160\145\163\164\061\025\060\023\006\003\125\004\012 \014\014\116\145\164\114\157\143\153\040\113\146\164\056\061\067 \060\065\006\003\125\004\013\014\056\124\141\156\303\272\163\303 \255\164\166\303\241\156\171\153\151\141\144\303\263\153\040\050 $\label{eq:103145164151146151143141164151157156040123145} \\$ \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 \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 \157\143\153\040\113\146\164\056\061\067\060\065\006\003\125\004 $\label{eq:1013} \\ 013 \\ 014 \\ 056 \\ 124 \\ 141 \\ 156 \\ 303 \\ 272 \\ 163 \\ 303 \\ 255 \\ 164 \\ 166 \\ 303 \\ 241 \\ 156$ $\label{eq:171} $$ 151 141 144 303 263 153 040 050 103 145 162 164 151 146 $$$ \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 \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 \124\015\145\165\331\025\101\224\001\257\136\354\366\215\361\377 \255\144\376\040\232\327\134\353\376\246\037\010\144\243\213\166 \125\255\036\073\050\140\056\207\045\350\252\257\037\306\144\106 \040\267\160\177\074\336\110\333\226\123\267\071\167\344\032\342 \307\026\204\166\227\133\057\273\031\025\205\370\151\205\365\231 \247\251\362\064\247\251\266\246\003\374\157\206\075\124\174\166 \004\233\153\371\100\135\000\064\307\056\231\165\235\345\210\003 \252\115\370\003\322\102\166\300\033\002\003\000\250\213\243\105 \060\103\060\022\006\003\125\035\023\001\001\377\004\010\060\006 \001\001\377\002\001\004\060\016\006\003\125\035\017\001\001\377 \004\004\003\002\001\006\060\035\006\003\125\035\016\004\026\004 \024\314\372\147\223\360\266\270\320\245\300\036\363\123\375\214 \123\337\203\327\226\060\015\006\011\052\206\110\206\367\015\001 \001\013\005\000\003\202\001\001\000\253\177\356\034\026\251\234 \074\121\000\240\300\021\010\005\247\231\346\157\001\210\124\141

\156\361\271\030\255\112\255\376\201\100\043\224\057\373\165\174 \057\050\113\142\044\201\202\013\365\141\361\034\156\270\141\070 $\label{eq:201} 353 \\ 201 \\ 372 \\ 142 \\ 241 \\ 073 \\ 132 \\ 142 \\ 323 \\ 224 \\ 145 \\ 304 \\ 341 \\ 346 \\ 155 \\ 202 \\ 145 \\ 304 \\ 341 \\ 346 \\ 155 \\ 202 \\ 145 \\ 304 \\ 341 \\ 346 \\ 155 \\ 202 \\ 145 \\ 304 \\ 341 \\ 346 \\ 155 \\ 202 \\ 145 \\ 304 \\ 341 \\ 346 \\ 155 \\ 202 \\ 145 \\ 304 \\ 341 \\ 346 \\ 155 \\ 202 \\ 145 \\ 304 \\ 341 \\ 346 \\ 155 \\ 202 \\ 145 \\ 304 \\ 341 \\ 346 \\ 155 \\ 202 \\ 145 \\ 304 \\ 341 \\ 346 \\ 155 \\ 202 \\ 145 \\ 304 \\ 341 \\ 346 \\ 155 \\ 202 \\ 145 \\ 304 \\ 341 \\ 346 \\ 155 \\ 202 \\ 145 \\ 304 \\ 341 \\ 346 \\ 155 \\ 202 \\ 145 \\ 304 \\ 341 \\ 346 \\ 155 \\ 202 \\ 145 \\ 304 \\ 341 \\ 346 \\ 155 \\ 202 \\ 145 \\ 341 \\ 346 \\ 155 \\ 202 \\ 145 \\ 341 \\ 346 \\ 155 \\ 202 \\ 145 \\ 341 \\ 346 \\ 155 \\ 202 \\ 145 \\ 341 \\ 346 \\ 155 \\ 202 \\ 145 \\ 341 \\ 346 \\ 155 \\ 202 \\ 145 \\ 145 \\ 145 \\ 155 \\ 1$ \370\057\045\160\262\041\046\301\162\121\037\214\054\303\204\220 \303\132\217\272\317\364\247\145\245\353\230\321\373\005\262\106 \165\025\043\152\157\205\143\060\200\360\325\236\037\051\034\302 \154\260\120\131\135\220\133\073\250\015\060\317\277\175\177\316 \361\235\203\275\311\106\156\040\246\371\141\121\272\041\057\173 \276\245\025\143\241\324\225\207\361\236\271\363\211\363\075\205 \270\270\333\276\265\271\051\371\332\067\005\000\111\224\003\204 $\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 330316304143165077131107261END CKA_NSS_MOZILLA_CA_POLICY CK BBOOL CK TRUE CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK FALSE # Trust for "NetLock Arany (Class Gold) Ftanúsítvány" # Issuer: CN=NetLock Arany (Class Gold) F.tan..s..tv..ny,OU=Tan..s..tv..nykiad..k (Certification Services),O=NetLock Kft.,L=Budapest,C=HU # Serial Number:49:41:2c:e4:00:10 # Subject: CN=NetLock Arany (Class Gold) F.tan..s.tv..ny,OU=Tan..s.tv..nykiad..k (Certification Services),O=NetLock Kft.,L=Budapest,C=HU # Not Valid Before: Thu Dec 11 15:08:21 2008 # Not Valid After : Wed Dec 06 15:08:21 2028 # Fingerprint (SHA-256): 6C:61:DA:C3:A2:DE:F0:31:50:6B:E0:36:D2:A6:FE:40:19:94:FB:D1:3D:F9:C8:D4:66:59:92:74:C4:46:EC:98 # Fingerprint (SHA1): 06:08:3F:59:3F:15:A1:04:A0:69:A4:6B:A9:03:D0:06:B7:97:09:91 CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST CKA_TOKEN CK_BBOOL CK_TRUE CKA_PRIVATE CK_BBOOL CK_FALSE CKA_MODIFIABLE CK_BBOOL CK_FALSE CKA_LABEL UTF8 "NetLock Arany (Class Gold) Ftanúsítvány" CKA_CERT_SHA1_HASH MULTILINE_OCTAL \006\010\077\131\077\025\241\004\240\151\244\153\251\003\320\006 \267\227\011\221 END CKA_CERT_MD5_HASH MULTILINE_OCTAL \305\241\267\377\163\335\326\327\064\062\030\337\374\074\255\210 END CKA_ISSUER MULTILINE_OCTAL \060\201\247\061\013\060\011\006\003\125\004\006\023\002\110\125

\061\021\060\017\006\003\125\004\007\014\010\102\165\144\141\160 \145\163\164\061\025\060\023\006\003\125\004\012\014\014\116\145 \164\114\157\143\153\040\113\146\164\056\061\067\060\065\006\003 \125\004\013\014\056\124\141\156\303\272\163\303\255\164\166\303 $\label{eq:151} 146 151 143 141 164 151 157 156 040 123 145 162 166 151 143$ \145\163\051\061\065\060\063\006\003\125\004\003\014\054\116\145 \163\163\040\107\157\154\144\051\040\106\305\221\164\141\156\303 \272\163\303\255\164\166\303\241\156\171 END CKA_SERIAL_NUMBER MULTILINE_OCTAL \002\006\111\101\054\344\000\020 END CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR CKA TRUST EMAIL PROTECTION CK TRUST CKT NSS TRUSTED DELEGATOR CKA_TRUST_CODE_SIGNING

CK_TRUST CKT_NSS_MUST_VERIFY_TRUST CKA TRUST STEP UP APPROVED CK BBOOL CK FALSE

#

Certificate "Hongkong Post Root CA 1"

#

Issuer: CN=Hongkong Post Root CA 1,O=Hongkong Post,C=HK

Serial Number: 1000 (0x3e8)

Subject: CN=Hongkong Post Root CA 1,O=Hongkong Post,C=HK

Not Valid Before: Thu May 15 05:13:14 2003

Not Valid After : Mon May 15 04:52:29 2023

Fingerprint (SHA-256):

F9:E6:7D:33:6C:51:00:2A:C0:54:C6:32:02:2D:66:DD:A2:E7:E3:FF:F1:0A:D0:61:ED:31:D8:BB:B4:10:CF:B2

Fingerprint (SHA1): D6:DA:A8:20:8D:09:D2:15:4D:24:B5:2F:CB:34:6E:B2:58:B2:8A:58

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "Hongkong Post Root CA 1"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL

 $\label{eq:1060} \end{tabular} \end{tabular$

 $\label{eq:23} \\ 023 \\ 027 \\ 110 \\ 157 \\ 156 \\ 147 \\ 153 \\ 157 \\ 156 \\ 147 \\ 040 \\ 120 \\ 157 \\ 163 \\ 164 \\ 100 \\$

 $\label{eq:122157157164040103101040061} \label{eq:122157157164040103101040061}$

END

CKA_ID

UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

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

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 \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 $\label{eq:1012} 023 015 110 157 156 147 153 157 156 147 040 120 157 163 164$ \061\040\060\036\006\003\125\004\003\023\027\110\157\156\147\153 $\label{eq:157} $$ 157 156 147 040 120 157 163 164 040 122 157 157 164 040 103 101 $$$ \040\061\060\202\001\042\060\015\006\011\052\206\110\206\367\015 \001\001\001\005\000\003\202\001\017\000\060\202\001\012\002\202 \001\001\000\254\377\070\266\351\146\002\111\343\242\264\341\220 \371\100\217\171\371\342\275\171\376\002\275\356\044\222\035\042 \366\332\205\162\151\376\327\077\011\324\335\221\265\002\234\320 \215\132\341\125\303\120\206\271\051\046\302\343\331\240\361\151 \003\050\040\200\105\042\055\126\247\073\124\225\126\042\131\037 \050\337\037\040\075\155\242\066\276\043\240\261\156\265\261\047 $\label{eq:2.1} \end{tabular} \end{tabular}$ \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 \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 $\label{eq:202} \end{tabular} \end{tabular}$ \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

CKA_SERIAL_NUMBER MULTILINE_OCTAL \002\002\003\350

END

END

 $\label{eq:list} $$ 122\157\157\164\040\103\101\040\061 $$

 $\label{eq:solution} $$ \frac{356}{230} \frac{227}{266} \frac{66}{147} \frac{47}{324} \frac{246}{111} \frac{375}{034} \frac{223}{145} \\ \frac{6236}{102} \frac{57}{334} \frac{42}{154} \frac{232}{117} \frac{362}{132} \frac{25}{071} \frac{261}{161} \frac{327}{253} \\ \frac{53}{121} \frac{30}{155} \frac{34}{230} \frac{300}{331} \frac{52}{364} \frac{241}{202} \frac{173}{325} \frac{311}{101} \\ \frac{242}{043} \frac{164}{070} \frac{125}{213} \frac{17}{271} \frac{56}{147} \frac{242}{040} \frac{004}{067} \frac{332}{323} \\ \frac{234}{013} \frac{323}{027} \frac{041}{340} \frac{217}{227} \frac{171}{064} \frac{157}{204} \frac{100}{002} \frac{040}{063} \\ \frac{033}{346} \frac{664}{104} \frac{237}{221} \frac{160}{364} \frac{200}{136} \frac{204}{103} \frac{302}{051} \frac{322}{154} \\ \frac{022}{024} \frac{344}{141} \frac{125}{254} \frac{020}{220} \frac{236}{204} \frac{120}{273} \frac{360}{226} \frac{157}{105} \\ \frac{237}{212} \frac{363}{312} \frac{154}{117} \frac{372}{021} \frac{072}{025} \frac{025}{106} \frac{303}{315} \frac{312}{203} \\ \frac{1133}{055} \frac{101}{022} \frac{355}{120} \frac{147}{101} \frac{023}{075} \frac{141}{253} \frac{224}{212} \frac{252}{116} \\ \frac{174}{301} \frac{261}{373} \frac{247}{326} \frac{265}{047} \frac{57}{227} \frac{253}{156} \frac{340}{305} \frac{342}{321} \\ \frac{034}{054} \frac{037}{104} \frac{342}{374} \frac{276}{221} \frac{241}{234} \frac{373}{326} \frac{51}{123} \frac{163}{206} \\ \frac{237}{123} \frac{330}{103} \frac{16}{135} \frac{326}{143} \frac{202}{161} \frac{35}{200} \frac{164}{312} \frac{366}{342} \\ \frac{002}{153} \frac{31}{132} \\ \end{array}$

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_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "Hongkong Post Root CA 1"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL

 $\label{eq:26} \end{tabular} \label{eq:26} \end{tabular} \label{eq:26} \end{tabular} \label{eq:26} \end{tabular} \label{eq:26} \end{tabular} \label{eq:26} \end{tabular} \end{tabular} \label{eq:26} \end{tabular} \end{tabular}$

 $130\262\212\130$

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL

 $\label{eq:250} $$ $$ 250\015\157\071\170\271\103\155\167\102\155\230\132\314\043\312\ END $$$

CKA_ISSUER MULTILINE_OCTAL

\060\107\061\013\060\011\006\003\125\004\006\023\002\110\113\061 \026\060\024\006\003\125\004\012\023\015\110\157\156\147\153\157 \156\147\040\120\157\163\164\061\040\060\036\006\003\125\004\003 \023\027\110\157\156\147\153\157\156\147\040\120\157\163\164\040 \122\157\157\164\040\103\101\040\061 END

CKA_SERIAL_NUMBER MULTILINE OCTAL \002\002\003\350 END CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST CKA TRUST CODE SIGNING CK TRUST CKT NSS MUST VERIFY TRUST CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE # # Certificate "SecureSign RootCA11" # # Issuer: CN=SecureSign RootCA11,O="Japan Certification Services, Inc.",C=JP # Serial Number: 1 (0x1) # Subject: CN=SecureSign RootCA11,O="Japan Certification Services, Inc.",C=JP # Not Valid Before: Wed Apr 08 04:56:47 2009 # Not Valid After : Sun Apr 08 04:56:47 2029 # Fingerprint (SHA-256): BF:0F:EE:FB:9E:3A:58:1A:D5:F9:E9:DB:75:89:98:57:43:D2:61:08:5C:4D:31:4F:6F:5D:72:59:AA:42:16:12 # Fingerprint (SHA1): 3B:C4:9F:48:F8:F3:73:A0:9C:1E:BD:F8:5B:B1:C3:65:C7:D8:11:B3 CKA CLASS CK_OBJECT_CLASS CKO_CERTIFICATE CKA_TOKEN CK_BBOOL CK_TRUE CKA PRIVATE CK BBOOL CK FALSE CKA_MODIFIABLE CK_BBOOL CK_FALSE CKA LABEL UTF8 "SecureSign RootCA11" CKA CERTIFICATE TYPE CK CERTIFICATE TYPE CKC X 509 CKA_SUBJECT MULTILINE_OCTAL \060\130\061\013\060\011\006\003\125\004\006\023\002\112\120\061 \053\060\051\006\003\125\004\012\023\042\112\141\160\141\156\040 $\label{eq:103145164151146151143141164151157156040123145} \\$ \162\166\151\143\145\163\054\040\111\156\143\056\061\034\060\032 \006\003\125\004\003\023\023\123\145\143\165\162\145\123\151\147 \156\040\122\157\157\164\103\101\061\061 END CKA ID UTF8 "0" CKA_ISSUER MULTILINE_OCTAL \060\130\061\013\060\011\006\003\125\004\006\023\002\112\120\061 \053\060\051\006\003\125\004\012\023\042\112\141\160\141\156\040 \103\145\162\164\151\146\151\143\141\164\151\157\156\040\123\145 \162\166\151\143\145\163\054\040\111\156\143\056\061\034\060\032 \006\003\125\004\003\023\023\123\145\143\165\162\145\123\151\147 \156\040\122\157\157\164\103\101\061\061 END CKA_SERIAL_NUMBER MULTILINE_OCTAL \002\001\001 **END**

CKA VALUE MULTILINE OCTAL \060\202\003\155\060\202\002\125\240\003\002\001\002\002\001\001 \060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060 \130\061\013\060\011\006\003\125\004\006\023\002\112\120\061\053 \060\051\006\003\125\004\012\023\042\112\141\160\141\156\040\103 \166\151\143\145\163\054\040\111\156\143\056\061\034\060\032\006 \003\125\004\003\023\023\123\145\143\165\162\145\123\151\147\156 \040\122\157\157\164\103\101\061\061\060\036\027\015\060\071\060 \064\060\070\060\064\065\066\064\067\132\027\015\062\071\060\064 \060\070\060\064\065\066\064\067\132\060\130\061\013\060\011\006 \003\125\004\006\023\002\112\120\061\053\060\051\006\003\125\004 \012\023\042\112\141\160\141\156\040\103\145\162\164\151\146\151 $\label{eq:143} \\ 143 \\ 141 \\ 164 \\ 151 \\ 157 \\ 156 \\ 040 \\ 123 \\ 145 \\ 162 \\ 166 \\ 151 \\ 143 \\ 145 \\ 163 \\ 054 \\ 163 \\ 165 \\ 161 \\ 161 \\ 163 \\ 165 \\ 161 \\$ \040\111\156\143\056\061\034\060\032\006\003\125\004\003\023\023 $\label{eq:123} 145 143 165 162 145 123 151 147 156 040 122 157 157 164 103$ \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 $\label{eq:21} \\ 006 \\ 323 \\ 000 \\ 221 \\ 362 \\ 224 \\ 010 \\ 145 \\ 114 \\ 261 \\ 064 \\ 006 \\ 000 \\ 172 \\ 211 \\ 342 \\ 104 \\ 104 \\ 106 \\ 106 \\ 106 \\ 100 \\$ \360\307\003\131\317\325\326\350\247\062\263\346\230\100\206\305 \315\047\022\213\314\173\316\267\021\074\142\140\007\043\076\053 \100\156\224\200\011\155\266\263\157\167\157\065\010\120\373\002 \207\305\076\211\002\003\001\000\001\243\102\060\100\060\035\006 \003\125\035\016\004\026\004\024\133\370\115\117\262\245\206\324 \072\322\361\143\232\240\276\011\366\127\267\336\060\016\006\003 \125\035\017\001\001\377\004\003\002\001\006\060\017\006\003 \125\035\023\001\001\377\004\005\060\003\001\001\377\060\015\006 \011\052\206\110\206\367\015\001\001\005\005\000\003\202\001\001 \000\240\241\070\026\146\056\247\126\037\041\234\006\372\035\355 \271\042\305\070\046\330\116\117\354\243\177\171\336\106\041\241 \207\167\217\007\010\232\262\244\305\257\017\062\230\013\174\146 \051\266\233\175\045\122\111\103\253\114\056\053\156\172\160\257 \026\016\343\002\154\373\102\346\030\235\105\330\125\310\350\073 \335\347\341\364\056\013\034\064\134\154\130\112\373\214\210\120 \137\225\034\277\355\253\042\265\145\263\205\272\236\017\270\255 $\label{eq:2.12} \end{tabular} \end{tabular$

\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 \$ \143\173\132\151\226\002\041\250\275\122\131\351\175\065\313\310 \122\312\177\201\376\331\153\323\367\021\355\045\337\370\347\371 \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:F3:73:A0:9C:1E:BD:F8:5B:B1:C3:65:C7:D8:11:B3 CKA CLASS CK OBJECT CLASS CKO NSS TRUST CKA TOKEN CK BBOOL CK TRUE CKA_PRIVATE CK_BBOOL CK_FALSE CKA MODIFIABLE CK BBOOL CK FALSE CKA LABEL UTF8 "SecureSign RootCA11" CKA_CERT_SHA1_HASH MULTILINE_OCTAL \073\304\237\110\370\363\163\240\234\036\275\370\133\261\303\145 \307\330\021\263 END CKA_CERT_MD5_HASH MULTILINE_OCTAL \267\122\164\342\222\264\200\223\362\165\344\314\327\362\352\046 END CKA_ISSUER MULTILINE_OCTAL \060\130\061\013\060\011\006\003\125\004\006\023\002\112\120\061 \053\060\051\006\003\125\004\012\023\042\112\141\160\141\156\040 \103\145\162\164\151\146\151\143\141\164\151\157\156\040\123\145 \162\166\151\143\145\163\054\040\111\156\143\056\061\034\060\032 \006\003\125\004\003\023\023\123\145\143\165\162\145\123\151\147 \156\040\122\157\157\164\103\101\061\061 **END** CKA_SERIAL_NUMBER MULTILINE_OCTAL \002\001\001

END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#

Certificate "Microsec e-Szigno Root CA 2009"

#

Issuer: E=info@e-szigno.hu,CN=Microsec e-Szigno Root CA 2009,O=Microsec Ltd.,L=Budapest,C=HU

Serial Number:00:c2:7e:43:04:4e:47:3f:19

Subject: E=info@e-szigno.hu,CN=Microsec e-Szigno Root CA 2009,O=Microsec Ltd.,L=Budapest,C=HU

Not Valid Before: Tue Jun 16 11:30:18 2009

Not Valid After : Sun Dec 30 11:30:18 2029

Fingerprint (SHA-256):

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

156 157 056 150 165

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

END

CKA_SERIAL_NUMBER

MULTILINE_OCTAL

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

CKA VALUE MULTILINE OCTAL

\060\202\004\012\060\202\002\362\240\003\002\001\002\002\011\000 $\label{eq:206} \end{tabular} \end{tabular}$ \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 \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 $\label{eq:147} $$ 157\040\122\157\157\164\040\103\101\040\062\060\071\$ \061\037\060\035\006\011\052\206\110\206\367\015\001\011\001\026 \020\151\156\146\157\100\145\055\163\172\151\147\156\157\056\150 \165\060\202\001\042\060\015\006\011\052\206\110\206\367\015\001 \001\001\005\000\003\202\001\017\000\060\202\001\012\002\202\001 \001\000\351\370\217\363\143\255\332\206\330\247\340\102\373\317 \221\336\246\046\370\231\245\143\160\255\233\256\312\063\100\175 \155\226\156\241\016\104\356\341\023\235\224\102\122\232\275\165 $\label{eq:205} $$ 205\164\054\250\016\035\223\266\030\267\214\054\250\317\373\134\$ \161\271\332\354\376\350\176\217\344\057\035\262\250\165\207\330 \267\241\345\073\317\231\112\106\320\203\031\175\300\241\022\034 \225\155\112\364\330\307\245\115\063\056\205\071\100\165\176\024 \174\200\022\230\120\307\101\147\270\240\200\141\124\246\154\116 \037\340\235\016\007\351\311\272\063\347\376\300\125\050\054\002 \200\247\031\365\236\334\125\123\003\227\173\007\110\377\231\373 \206\371\137\273\261\120\156\244\321\012\314\325\161\176\037\247 \033\174\365\123\156\042\137\313\053\346\324\174\135\256\326\302 \306\114\345\005\001\331\355\127\374\301\043\171\374\372\310\044 \203\225\363\265\152\121\001\320\167\326\351\022\241\371\032\203 \373\202\033\271\260\227\364\166\006\063\103\111\240\377\013\265 \372\265\002\003\001\000\001\243\201\200\060\176\060\017\006\003 \125\035\023\001\001\377\004\005\060\003\001\001\377\060\016\006 \003\125\035\017\001\001\377\004\003\002\001\006\060\035\006 \003\125\035\016\004\026\004\024\313\017\306\337\102\103\314\075 \313\265\110\043\241\032\172\246\052\273\064\150\060\037\006\003

\125\035\043\004\030\060\026\200\024\313\017\306\337\102\103\314 \075\313\265\110\043\241\032\172\246\052\273\064\150\060\033\006 \003\125\035\021\004\024\060\022\201\020\151\156\146\157\100\145 \055\163\172\151\147\156\157\056\150\165\060\015\006\011\052\206 \110\206\367\015\001\001\013\005\000\003\202\001\001\000\311\321 \016\136\056\325\314\263\174\076\313\374\075\377\015\050\225\223 \004\310\277\332\315\171\270\103\220\360\244\276\357\362\357\041 \230\274\324\324\135\006\366\356\102\354\060\154\240\252\251\312 \361\257\212\372\077\013\163\152\076\352\056\100\176\037\256\124 \141\171\353\056\010\067\327\043\363\214\237\276\035\261\341\244 \165\333\240\342\124\024\261\272\034\051\244\030\366\022\272\242 \024\024\343\061\065\310\100\377\267\340\005\166\127\301\034\131 \362\370\277\344\355\045\142\134\204\360\176\176\037\263\276\371 \267\041\021\314\003\001\126\160\247\020\222\036\033\064\201\036 \255\234\032\303\004\074\355\002\141\326\036\006\363\137\072\207 \362\053\361\105\207\345\075\254\321\307\127\204\275\153\256\334 \330\371\266\033\142\160\013\075\066\311\102\362\062\327\172\141 \346\322\333\075\317\310\251\311\233\334\333\130\104\327\157\070 \257\177\170\323\243\255\032\165\272\034\301\066\174\217\036\155 \034\303\165\106\256\065\005\246\366\134\075\041\356\126\360\311 \202\042\055\172\124\253\160\303\175\042\145\202\160\226 END CKA_NSS_MOZILLA_CA_POLICY CK BBOOL CK TRUE CKA_NSS_SERVER_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

 $\label{eq:2.11} $$370\111\364\003\274\104\055\203\276\110\151\175\051\144\374\261$

END

CKA_ISSUER MULTILINE_OCTAL

END

CKA_SERIAL_NUMBER

MULTILINE_OCTAL

 $\label{eq:2.1} $$ 002\011\000\302\176\103\004\116\107\077\031 $$$

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:DF:1C:D4:10:2E:7D:07:59:AF:63:5A:7C:F4:72:0D:C9:63:C5:3B:DF:1C:D4:10:2E:7D:07:59:AF:63:5A:7C:F4:72:0D:C9:63:C5:3B:DF:1C:D4:10:2E:7D:07:59:AF:63:5A:7C:F4:72:0D:C9:63:C5:3B:DF:1C:D4:10:2E:7D:07:59:AF:63:5A:7C:F4:72:0D:C9:63:C5:3B:DF:1C:D4:10:2E:7D:07:59:AF:63:5A:7C:F4:72:0D:C9:63:C5:3B:DF:1C:D4:10:2E:7D:07:59:AF:63:5A:7C:F4:72:0D:C9:63:C5:3B:DF:1C:D4:10:2E:7D:07:59:AF:63:5A:7C:F4:72:0D:C9:63:C5:3B:DF:1C:D4:10:2E:7D:07:59:AF:63:5A:7C:F4:72:0D:C9:63:C5:3B:DF:1C:D4:10:2E:7D:07:59:AF:63:5A:7C:F4:72:0D:C9:63:C5:3B:DF:1C:D4:10:2E:7D:07:59:AF:63:5A:7C:F4:72:0D:C9:63:C5:3B:DF:1C:D4:10:2E:7D:07:59:AF:63:5A:7C:F4:72:0D:C9:63:C5:3B:DF:1C:D4:10:2E:7D:07:59:AF:63:5A:7C:F4:72:0D:C9:63:C5:3B:DF:1C:D4:10:2E:7D:07:50:AF:63:5A:7C:F4:72:0D:C9:63:C5:3B:DF:1C:D4:10:2E:7D:07:50:AF:63:5A:7C:F4:72:0D:C9:63:C5:3B:DF:1C:D4:10:2E:7D:07:50:AF:63:5A:7C:F4:72:0D:C9:63:C5:2A:7C:F4:72:0D:C9:63:C5:2A:7C:F4:72:0D:C9:63:C5:2A:7C:F4:72:0D:C9:7A:7C:F4:72:2A:7C:F4:7

Fingerprint (SHA1): D6:9B:56:11:48:F0:1C:77:C5:45:78:C1:09:26:DF:5B:85:69:76:AD

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "GlobalSign Root CA - R3"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL

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

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

\002\013\004\000\000\000\000\001\041\130\123\010\242 END CKA VALUE MULTILINE OCTAL \060\202\003\137\060\202\002\107\240\003\002\001\002\002\013\004 \000\000\000\000\001\041\130\123\010\242\060\015\006\011\052\206 \110\206\367\015\001\001\013\005\000\060\114\061\040\060\036\006 $\label{eq:2.1} \end{tabular} \end{tabular}$ \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 $\label{eq:2.12} $$ 004\013\023\027\107\154\157\142\141\154\123\151\147\156\040\122 $$$ \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 \017\202\075\014\053\256\227\327\266\024\206\020\171\273\073\023 \200\167\214\010\341\111\322\152\142\057\037\136\372\226\150\337 \211\047\225\070\237\006\327\076\311\313\046\131\015\163\336\260 \310\351\046\016\203\025\306\357\133\213\322\004\140\312\111\246 \050\366\151\073\366\313\310\050\221\345\235\212\141\127\067\254 \164\024\334\164\340\072\356\162\057\056\234\373\320\273\277\365 \075\000\341\006\063\350\202\053\256\123\246\072\026\163\214\335 $\label{eq:101} \end{tabular} 101 \end{tabular}$ \127\313\271\004\222\150\150\345\070\046\140\165\262\237\167\377 \221\024\357\256\040\111\374\255\100\025\110\321\002\061\141\031 \136\270\227\357\255\167\267\144\232\172\277\137\301\023\357\233 $\label{eq:142} $$ 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

END

CKA_SERIAL_NUMBER MULTILINE OCTAL

Open Source Used In vmoperator Crafton-3.0 668

\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 $\label{eq:153} $$ 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 $\label{eq:22} \end{tabular} \end{tabular}$ \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 \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 **END** CKA_SERIAL_NUMBER MULTILINE OCTAL \002\013\004\000\000\000\000\001\041\130\123\010\242 END CKA TRUST SERVER AUTH CK TRUST CKT NSS TRUSTED DELEGATOR CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST CKA TRUST STEP UP APPROVED CK BBOOL CK FALSE # # Certificate "Autoridad de Certificacion Firmaprofesional CIF A62634068" #

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

Serial Number:53:ec:3b:ee:fb:b2:48:5f

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

Not Valid Before: Wed May 20 08:38:15 2009

Not Valid After : Tue Dec 31 08:38:15 2030

Fingerprint (SHA-256):

04:04:80:28:BF:1F:28:64:D4:8F:9A:D4:D8:32:94:36:6A:82:88:56:55:3F:3B:14:30:3F:90:14:7F:5D:40:EF #

Fingerprint (SHA1): AE:C5:FB:3F:C8:E1:BF:C4:E5:4F:03:07:5A:9A:E8:00:B7:F7:B6:FA

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "Autoridad de Certificacion Firmaprofesional CIF A62634068"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL

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

\102\060\100\006\003\125\004\003\014\071\101\165\164\157\162\151

 $\label{eq:151} $$ 151\157\156\141\154\040\103\111\106\040\101\066\062\066\063\064 $$$

\060\066\070

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

 $\label{eq:starter} $$ $ 1060\121\061\013\060\011\006\003\125\004\006\023\002\105\123\061\102\060\100\006\003\125\004\003\014\071\101\165\164\157\162\151\146\151\145\162\151\146\151\146\151\143\141\143\151\157\156\040\106\151\162\155\141\160\162\157\146\145\163\151\157\156\141\154\040\103\111\106\040\101\066\062\066\063\064 $$$

\060\066\070

END CKA SERIAL NUMBER MULTILINE OCTAL \002\010\123\354\073\356\373\262\110\137

END CKA VALUE MULTILINE OCTAL

\060\202\006\024\060\202\003\374\240\003\002\001\002\002\010\123 \354\073\356\373\262\110\137\060\015\006\011\052\206\110\206\367 \015\001\001\005\005\000\060\121\061\013\060\011\006\003\125\004 \006\023\002\105\123\061\102\060\100\006\003\125\004\003\014\071 $\label{eq:10116516415716215114414144040144145040103145162$ $\label{eq:164} \end{tabular} 164 \end{tabular} 146 \end{tabular} 141 \end{tabular} 151 \end{tabular} 157 \end{tabular} 156 \end{tabular} 040 \end{tabular} 106 \end{tabular} 151 \end{tabular}$ \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 \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 \271\340\076\064\376\147\364\076\146\321\323\364\100\317\136\142 \064\017\160\006\076\040\030\132\316\367\162\033\045\154\223\164 \024\223\243\163\261\016\252\207\020\043\131\137\040\005\031\107 \355\150\216\222\022\312\135\374\326\053\262\222\074\040\317\341 \137\257\040\276\240\166\177\166\345\354\032\206\141\063\076\347 \210\246\120\375\152\143\013\365\223\026\033\031\217\262\355\233 \233\311\220\365\001\014\337\031\075\017\076\070\043\311\057\217 \014\321\002\376\033\125\326\116\320\215\074\257\117\244\363\376 \257\052\323\005\235\171\010\241\313\127\061\264\234\310\220\262 \147\364\030\026\223\072\374\107\330\321\170\226\061\037\272\053 \014\137\135\231\255\143\211\132\044\040\166\330\337\375\253\116 \246\042\252\235\136\346\047\212\175\150\051\243\347\212\270\332 \021\273\027\055\231\235\023\044\106\367\305\342\330\237\216\177 \307\217\164\155\132\262\350\162\365\254\356\044\020\255\057\024 \332\377\055\232\106\161\107\276\102\337\273\001\333\364\177\323

\050\217\061\131\133\323\311\002\246\264\122\312\156\227\373\103 \305\010\046\157\212\364\273\375\237\050\252\015\325\105\363\023 \072\035\330\300\170\217\101\147\074\036\224\144\256\173\013\305 \350\331\001\210\071\032\227\206\144\101\325\073\207\014\156\372 \017\306\275\110\024\277\071\115\324\236\101\266\217\226\035\143 \226\223\331\225\006\170\061\150\236\067\006\073\200\211\105\141 \071\043\307\033\104\243\025\345\034\370\222\060\273\002\003\001 \000\001\243\201\357\060\201\354\060\022\006\003\125\035\023\001 \001\377\004\010\060\006\001\001\377\002\001\001\060\016\006\003 \125\035\017\001\001\377\004\004\003\002\001\006\060\035\006\003 \125\035\016\004\026\004\024\145\315\353\253\065\036\000\076\176 \325\164\300\034\264\163\107\016\032\144\057\060\201\246\006\003 \125\035\040\004\201\236\060\201\233\060\201\230\006\004\125\035 \040\000\060\201\217\060\057\006\010\053\006\001\005\005\007\002 $\label{eq:2.1} \end{tabular} \end{tabular}$ \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 \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 $\label{eq:336} \label{322} 117 044 005 363 154 116 365 114 111 146 215 321 377 322$ $\label{eq:101} \end{tabular} 101\0\376\121\204\306\102\257\200\004\317\320\176\144$ \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

\112\324\137\347\275\150\173\145\362\025\036\322\072\251\055\351 \330\153\044\254\227\130\104\107\255\131\030\361\041\145\160\336 \316\064\140\250\100\361\363\074\244\303\050\043\214\376\047\063 \103\100\240\027\074\353\352\073\260\162\246\243\271\112\113\136 \026\110\364\262\274\310\214\222\305\235\237\254\162\066\274\064 \200\064\153\251\213\222\300\270\027\355\354\166\123\365\044\001 \214\263\042\350\113\174\125\306\235\372\243\024\273\145\205\156 \156\117\022\176\012\074\235\225 END CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE # Trust for "Autoridad de Certificacion Firmaprofesional CIF A62634068"

Trust for Autoridad de Certificación Firmaprofesional CIF A02034008

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

 $\label{eq:256} $$ 256 305 373 077 310 341 277 304 345 117 003 007 132 232 350 000 $$$

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

\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

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

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

111172145156160145056143157155

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

 $\label{eq:starter} $$ $ 1060 \ 070 \ 061 \ 013 \ 060 \ 011 \ 006 \ 003 \ 125 \ 004 \ 006 \ 023 \ 002 \ 105 \ 123 \ 061 \ 024 \ 060 \ 022 \ 006 \ 003 \ 125 \ 004 \ 012 \ 014 \ 013 \ 111 \ 132 \ 105 \ 116 \ 120 \ 105 \ 040 \ 123 \ 056 \ 101 \ 056 \ 061 \ 023 \ 060 \ 021 \ 006 \ 003 \ 125 \ 004 \ 003 \ 014 \ 012 \ 111 \ 172 \ 145 \ 156 \ 160 \ 145 \ 056 \ 143 \ 157 \ 155 $$$

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

\002\020\000\260\267\132\026\110\137\277\341\313\365\213\327\031 \346\175

END

CKA_VALUE MULTILINE_OCTAL

\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 \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 \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} $$ 100\132\215\171\277\213\317\113\317\252\026\301\225\344\255\114$ \212\076\027\221\324\261\142\345\202\345\200\004\244\003\176\215 \277\332\177\242\017\227\117\014\323\015\373\327\321\345\162\176 \034\310\167\377\133\232\017\267\256\005\106\345\361\250\026\354 \107\244\027\002\003\001\000\001\243\201\366\060\201\363\060\201 \260\006\003\125\035\021\004\201\250\060\201\245\201\017\151\156 $\label{eq:146} $$ 146 157 100 151 172 145 156 160 145 056 143 157 155 244 201 221 $$$ \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 $\label{eq:126} \label{eq:126} \label{eq:151} \lab$ \124\061\060\065\065\040\106\066\062\040\123\070\061\103\060\101 $\label{eq:2.101} \\ 006 \\ 003 \\ 125 \\ 004 \\ 011 \\ 014 \\ 072 \\ 101 \\ 166 \\ 144 \\ 141 \\ 040 \\ 144 \\ 145 \\ 154 \\ 154 \\ 040 \\ 144 \\ 145 \\ 154 \\ 154 \\ 154 \\ 154 \\ 145 \\ 154 \\ 145 \\ 154$

 $\label{eq:115} \\ 145 \\ 144 \\ 151 \\ 164 \\ 145 \\ 162 \\ 162 \\ 141 \\ 156 \\ 145 \\ 157 \\ 040 \\ 105 \\ 164 \\ 157 \\ 040 \\ 105 \\ 164 \\ 157 \\ 040 \\ 105 \\ 164 \\ 157 \\ 040 \\ 105 \\ 164 \\ 157 \\ 040 \\ 105 \\ 164 \\ 157 \\ 040 \\ 105 \\ 164 \\ 157 \\ 040 \\ 105 \\ 164 \\ 157 \\ 040 \\ 105 \\ 164 \\ 157 \\ 040 \\ 105 \\ 164 \\ 157 \\ 040 \\ 105 \\ 164 \\ 157 \\ 040 \\ 105 \\ 164 \\ 157 \\ 040 \\ 105 \\ 164 \\ 157 \\ 040 \\ 105 \\ 164 \\ 157 \\ 040 \\ 105 \\ 164 \\ 157 \\ 105 \\$ \162\142\151\144\145\141\040\061\064\040\055\040\060\061\060\061 \060\040\126\151\164\157\162\151\141\055\107\141\163\164\145\151 \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 $\label{eq: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 $\label{eq:103} \\ 103 \\ 046 \\ 001 \\ 065 \\ 143 \\ 140 \\ 125 \\ 211 \\ 003 \\ 072 \\ 165 \\ 330 \\ 272 \\ 112 \\ 331 \\ 124 \\ 125 \\ 121 \\ 1003 \\ 1072 \\ 165 \\ 130 \\ 272 \\ 112 \\ 331 \\ 124 \\ 125 \\ 121 \\ 1003 \\ 1072 \\ 165 \\ 130 \\ 127 \\ 112 \\ 125 \\ 121 \\ 124 \\ 125 \\ 121 \\ 1003 \\ 1072 \\ 165 \\ 130 \\ 127 \\ 112 \\ 123 \\ 112 \\ 124 \\ 125 \\ 121 \\ 1003 \\ 1072 \\ 165 \\ 130 \\ 127 \\ 112 \\ 123 \\ 112 \\ 124 \\ 125$ \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:20:24:25:20:25:25:20:25:20:25:20:25:20:25:20:25:20:25:20:25:20:25:20:25:20:25:25:2

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

 $\label{eq:2.10} $$ 057\170\075\045\122\030\247\112\145\071\161\265\054\242\234\105\$

 $025\157\351\031$

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

 $\label{eq:2.105} \end{tabular} \end{tabula$

\024\060\022\006\003\125\004\012\014\013\111\132\105\116\120\105

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

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

END

CKA_SERIAL_NUMBER

MULTILINE_OCTAL

 $\label{eq:260} \end{tabular} \end{tabular}$

346175

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

MULTILINE OCTAL \060\202\007\117\060\202\005\067\240\003\002\001\002\002\011\000 \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

CKA_VALUE

END

\002\011\000\243\332\102\176\244\261\256\332

CKA_SERIAL_NUMBER MULTILINE_OCTAL

END

\070

\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 $\label{eq:144} \\ 144 \\ 162 \\ 145 \\ 163 \\ 163 \\ 040 \\ 141 \\ 164 \\ 040 \\ 167 \\ 167 \\ 167 \\ 167 \\ 056 \\ 143 \\ 141 \\ 164 \\ 167 \\$ \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 \155\145\162\143\145\040\122\157\157\164\040\055\040\062\060\060

CKA ISSUER MULTILINE OCTAL

UTF8 "0"

CKA_ID

END

\070

CKA CERTIFICATE TYPE CK CERTIFICATE TYPE CKC X 509 CKA SUBJECT 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 $\label{eq:144} \\ 144 \\ 162 \\ 145 \\ 163 \\ 163 \\ 040 \\ 141 \\ 164 \\ 040 \\ 167 \\ 167 \\ 167 \\ 167 \\ 056 \\ 143 \\ 141 \\ 164 \\ 167 \\$ \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 \155\145\162\143\145\040\122\157\157\164\040\055\040\062\060\060

CKA_LABEL UTF8 "Chambers of Commerce Root - 2008"

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): 78:6A:74:AC:76:AB:14:7F:9C:6A:30:50:BA:9E:A8:7E:FE:9A:CE:3C

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

\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 \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 $\label{eq:1040} \\ (040) \\ 157) \\ 146) \\ 040) \\ 103) \\ 157) \\ 155) \\ 145) \\ 162) \\ 143) \\ 145) \\ 040) \\ 122) \\ 157) \\ 157) \\ 157) \\ 155) \\ 145) \\ 162) \\ 143) \\ 145) \\ 040) \\ 122) \\ 1570 \\ 1570 \\ 15$ \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 $\label{eq:2.1} \end{tabular} \end{tabular}$ \165\162\162\162\145\156\164\040\141\144\162\145\163\163\040\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\051 \060\047\006\003\125\004\003\023\040\103\150\141\155\142\145\162 \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\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 $\label{eq:240} $$ 124\240\062\031\131\376\037\213\327\075\140\206\205\044\157\343 $$$ \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 \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 $\label{eq:111} 337 251 146 013 314 074 306 170 174 247 234 035 343 316 216$ \123\276\005\336\140\017\153\345\032\333\077\343\341\041\311\051 \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 \141\144\162\151\144\040\050\163\145\145\040\143\165\162\162\145 \167\056\143\141\155\145\162\146\151\162\155\141\056\143\157\155 \057\141\144\144\162\145\163\163\051\061\022\060\020\006\003\125 \004\005\023\011\101\070\062\067\064\063\062\070\067\061\033\060 \031\006\003\125\004\012\023\022\101\103\040\103\141\155\145\162 \146\151\162\155\141\040\123\056\101\056\061\051\060\047\006\003 \125\004\003\023\040\103\150\141\155\142\145\162\163\040\157\146 \040\103\157\155\155\145\162\143\145\040\122\157\157\164\040\055 \040\062\060\060\070\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 \351\170\174\110\276\077\175\105\222\136\351\332\261\031\374\026 \074\237\264\133\146\236\152\347\303\271\135\210\350\017\255\317 $\label{eq:2.136} \\ (043) \\ (017) \\ (336) \\ (045) \\ (072) \\ (136) \\ (314) \\ (117) \\ (245) \\ (301) \\ (265) \\ (055) \\ (254) \\ (044) \\ (322) \\ (130) \\ ($ \007\336\242\317\151\204\140\063\350\020\015\023\251\043\320\205 \345\216\173\246\236\075\162\023\162\063\365\252\175\306\143\037 \010\364\376\001\177\044\317\053\054\124\011\336\342\053\155\222 \306\071\117\026\352\074\176\172\106\324\105\152\106\250\353\165 \202\126\247\253\240\174\150\023\063\366\235\060\360\157\047\071 \044\043\052\220\375\220\051\065\362\223\337\064\245\306\367\370 \357\214\017\142\112\174\256\323\365\124\370\215\266\232\126\207 \026\202\072\063\253\132\042\010\367\202\272\352\056\340\107\232 \264\265\105\243\005\073\331\334\056\105\100\073\352\334\177\350 \073\353\321\354\046\330\065\244\060\305\072\254\127\236\263\166

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):

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

 $\label{eq: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

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END
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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
\label{eq:144} \\ 144 \\ 162 \\ 145 \\ 163 \\ 163 \\ 040 \\ 141 \\ 164 \\ 040 \\ 167 \\ 167 \\ 167 \\ 056 \\ 143 \\ 141 \\ 164 \\ 040 \\ 167 \\ 167 \\ 167 \\ 056 \\ 143 \\ 141 \\ 164 \\ 164 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 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
\label{eq:103} \\ 103 \\ 150 \\ 141 \\ 155 \\ 142 \\ 145 \\ 162 \\ 163 \\ 040 \\ 157 \\ 146 \\ 040 \\ 103 \\ 157 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\
\155\145\162\143\145\040\122\157\157\164\040\055\040\062\060\060
\070
END
CKA SERIAL NUMBER
  MULTILINE_OCTAL
\002\011\000\243\332\102\176\244\261\256\332
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA TRUST EMAIL PROTECTION CK TRUST CKT NSS TRUSTED DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
 #
```

Certificate

"Global Chambersign Root - 2008"

#

Issuer: CN=Global Chambersign Root - 2008,O=AC Camerfirma S.A.,serialNumber=A82743287,L=Madrid (see current address at www.camerfirma.com/address),C=EU

Serial Number:00:c9:cd:d3:e9:d5:7d:23:ce

Subject: CN=Global Chambersign Root - 2008,O=AC Camerfirma S.A.,serialNumber=A82743287,L=Madrid (see current address at www.camerfirma.com/address),C=EU

Not Valid Before: Fri Aug 01 12:31:40 2008

Not Valid After : Sat Jul 31 12:31:40 2038

Fingerprint (SHA-256):

13:63:35:43:93:34:A7:69:80:16:A0:D3:24:DE:72:28:4E:07:9D:7B:52:20:BB:8F:BD:74:78:16:EE:BE:BA:CA # Fingerprint (SHA1): 4A:BD:EE:EC:95:0D:35:9C:89:AE:C7:52:A1:2C:5B:29:F6:D6:AA:0C

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "Global Chambersign Root - 2008"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL

 $\label{eq:103} \\ 060 \\ 101 \\ 006 \\ 003 \\ 125 \\ 004 \\ 007 \\ 023 \\ 072 \\ 115 \\ 141 \\ 144 \\ 162 \\ 151 \\ 141 \\ 141 \\ 144 \\ 162 \\ 151 \\ 141 \\ 141 \\ 144 \\ 162 \\ 151 \\ 141 \\$

 $\label{eq:144} \\ 144 \\ 040 \\ 050 \\ 163 \\ 145 \\ 145 \\ 040 \\ 143 \\ 165 \\ 162 \\ 162 \\ 145 \\ 156 \\ 164 \\ 040 \\ 141 \\ 165 \\ 162 \\$

CKA VALUE MULTILINE OCTAL \060\202\007\111\060\202\005\061\240\003\002\001\002\002\011\000 \311\315\323\351\325\175\043\316\060\015\006\011\052\206\110\206 \367\015\001\001\005\005\000\060\201\254\061\013\060\011\006\003 \125\004\006\023\002\105\125\061\103\060\101\006\003\125\004\007 \023\072\115\141\144\162\151\144\040\050\163\145\145\040\143\165 \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 \045\006\003\125\004\003\023\036\107\154\157\142\141\154\040\103 \150\141\155\142\145\162\163\151\147\156\040\122\157\157\164\040 \055\040\062\060\060\070\060\036\027\015\060\070\060\070\060\061 \061\062\063\061\064\060\132\027\015\063\070\060\067\063\061\061 \062\063\061\064\060\132\060\201\254\061\013\060\011\006\003\125 \004\006\023\002\105\125\061\103\060\101\006\003\125\004\007\023 \072\115\141\144\162\151\144\040\050\163\145\145\040\143\165\162

END

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

MULTILINE_OCTAL

CKA_SERIAL_NUMBER

END

UTF8 "0" CKA_ISSUER MULTILINE_OCTAL \060\201\254\061\013\060\011\006\003\125\004\006\023\002\105\125 \061\103\060\101\006\003\125\004\007\023\072\115\141\144\162\151 \144\040\050\163\145\145\040\143\165\162\162\145\156\164\040\141 \144\144\162\145\163\163\040\141\164\040\167\167\167\056\143\141 \155\145\162\146\151\162\155\141\056\143\157\155\057\141\144\144 \162\145\163\163\051\061\022\060\020\006\003\125\004\005\023\011 \101\070\062\067\064\063\062\070\067\061\033\060\031\006\003\125 \004\012\023\022\101\103\040\103\141\155\145\162\146\151\162\155 \141\040\123\056\101\056\061\047\060\045\006\003\125\004\003\023 \036\107\154\157\142\141\154\040\103\150\141\155\142\145\162\163

UTF8 "0"

CKA ID

END

\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 \162\145\163\163\051\061\022\060\020\006\003\125\004\005\023\011 \101\070\062\067\064\063\062\070\067\061\033\060\031\006\003\125 \004\012\023\022\101\103\040\103\141\155\145\162\146\151\162\155 \141\040\123\056\101\056\061\047\060\045\006\003\125\004\003\023 \036\107\154\157\142\141\154\040\103\150\141\155\142\145\162\163 \151\147\156\040\122\157\157\164\040\055\040\062\060\060\070\202 \011\000\311\315\323\351\325\175\043\316\060\016\006\003\125\035 \017\001\001\377\004\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 $\label{eq:160} $$ 160\072\057\057\160\157\154\151\143\171\056\143\141\155\145\162 $$ 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 $\label{eq:153} \\ 372 \\ 174 \\ 016 \\ 034 \\ 111 \\ 044 \\ 171 \\ 047 \\ 330 \\ 106 \\ 252 \\ 157 \\ 051 \\ 131 \\$ \122\210\160\022\352\335\075\365\233\123\124\157\341\140\242\250 \011\271\354\353\131\174\306\065\361\334\030\351\361\147\345\257 \272\105\340\011\336\312\104\017\302\027\016\167\221\105\172\063 \137\137\226\054\150\213\301\107\217\230\233\075\300\354\313\365 \325\202\222\204\065\321\276\066\070\126\162\061\133\107\055\252 \027\244\143\121\353\012\001\255\177\354\165\236\313\241\037\361 \177\022\261\271\344\144\177\147\326\043\052\364\270\071\135\230 \350\041\247\341\275\075\102\032\164\232\160\257\150\154\120\135 \111\317\377\373\016\135\346\054\107\327\201\072\131\000\265\163 \153\143\040\366\061\105\010\071\016\364\160\176\100\160\132\077 \320\153\102\251\164\075\050\057\002\155\165\162\225\011\215\110 \143\306\306\043\127\222\223\136\065\301\215\371\012\367\054\235 \142\034\366\255\174\335\246\061\036\266\261\307\176\205\046\372 \244\152\265\332\143\060\321\357\223\067\262\146\057\175\005\367 \347\267\113\230\224\065\300\331\072\051\301\235\262\120\063\035 \112\251\132\246\311\003\357\355\364\347\250\156\212\264\127\204 \353\244\077\320\356\252\252\207\133\143\350\223\342\153\250\324 \270\162\170\153\033\355\071\344\135\313\233\252\207\325\117\116 \000\376\331\152\237\074\061\017\050\002\001\175\230\350\247\260 \242\144\236\171\370\110\362\025\251\314\346\310\104\353\077\170 \231\362\173\161\076\074\361\230\247\305\030\022\077\346\273\050 \063\102\351\105\012\174\155\362\206\171\057\305\202\031\175\011 \211\174\262\124\166\210\256\336\301\363\314\341\156\333\061\326 \223\256\231\240\357\045\152\163\230\211\133\072\056\023\210\036 \277\300\222\224\064\033\343\047\267\213\036\157\102\377\347\351 \067\233\120\035\055\242\371\002\356\313\130\130\072\161\274\150 \343\252\301\257\034\050\037\242\334\043\145\077\201\352\256\231 \323\330\060\317\023\015\117\025\311\204\274\247\110\055\370\060

```
\043\167\330\106\113\171\155\366\214\355\072\177\140\021\170\364
\351\233\256\325\124\300\164\200\321\013\102\237\301
END
CKA_NSS_MOZILLA_CA_POLICY
CK BBOOL CK TRUE
CKA_NSS_SERVER_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
\112\275\356\354\225\015\065\234\211\256\307\122\241\054\133\051
\366\326\252\014
END
CKA CERT MD5 HASH MULTILINE OCTAL
\236\200\377\170\001\014\056\301\066\275\376\226\220\156\010\363
END
CKA ISSUER MULTILINE OCTAL
\060\201\254\061\013\060\011\006\003\125\004\006\023\002\105\125
\061\103\060\101\006\003\125\004\007\023\072\115\141\144\162\151
\144\040\050\163\145\145\040\143\165\162\162\145\156\164\040\141
\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
\151\147\156\040\122\157\157\164\040\055\040\062\060\060\070
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
```

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

END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#

Certificate "Go Daddy Root Certificate Authority - G2"

#

Issuer: CN=Go Daddy Root Certificate Authority - G2,O="GoDaddy.com, Inc.",L=Scottsdale,ST=Arizona,C=US

Serial Number: 0 (0x0)

Subject: CN=Go Daddy Root Certificate Authority - G2,O="GoDaddy.com,

Inc.",L=Scottsdale,ST=Arizona,C=US

Not Valid Before: Tue Sep 01 00:00:00 2009

Not Valid After : Thu Dec 31 23:59:59 2037

Fingerprint (SHA-256):

45:14:0B:32:47:EB:9C:C8:C5:B4:F0:D7:B5:30:91:F7:32:92:08:9E:6E:5A:63:E2:74:9D:D3:AC:A9:19:8E:DA

Fingerprint (SHA1): 47:BE:AB:C9:22:EA:E8:0E:78:78:34:62:A7:9F:45:C2:54:FD:E6:8B

CKA_CLASS

CK_OBJECT_CLASS CKO_CERTIFICATE

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "Go Daddy Root Certificate Authority - G2"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL

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

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL \002\001\000 END

CKA_VALUE MULTILINE_OCTAL

\060\202\003\305\060\202\002\255\240\003\002\001\002\002\001\000 \060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060 \201\203\061\013\060\011\006\003\125\004\006\023\002\125\123\061 \020\060\016\006\003\125\004\010\023\007\101\162\151\172\157\156 \141\061\023\060\021\006\003\125\004\007\023\012\123\143\157\164 \164\163\144\141\154\145\061\032\060\030\006\003\125\004\012\023 \143\056\061\061\060\057\006\003\125\004\003\023\050\107\157\040 $\label{eq:104} \\ 104\\144\\144\\144\\171\\040\\122\\157\\157\\164\\040\\103\\145\\162\\164\\151$ $\label{eq:146} \\ 146 \\ 151 \\ 143 \\ 141 \\ 164 \\ 145 \\ 040 \\ 101 \\ 165 \\ 164 \\ 150 \\ 157 \\ 162 \\ 151 \\ 164 \\ 171 \\ 164 \\ 164 \\ 171 \\ 164 \\$ \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 $\label{eq:101162151172157156141061023060021006003125004007} \label{eq:101162151172157156141061023060021006003125004007}$ \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 \150\157\162\151\164\171\040\055\040\107\062\060\202\001\042\060 \015\006\011\052\206\110\206\367\015\001\001\001\005\000\003\202 \001\017\000\060\202\001\012\002\202\001\001\000\277\161\142\010 \361\372\131\064\367\033\311\030\243\367\200\111\130\351\042\203 \023\246\305\040\103\001\073\204\361\346\205\111\237\047\352\366 \204\033\116\240\264\333\160\230\307\062\001\261\005\076\007\116 \356\364\372\117\057\131\060\042\347\253\031\126\153\342\200\007 \374\363\026\165\200\071\121\173\345\371\065\266\164\116\251\215 \202\023\344\266\077\251\003\203\372\242\276\212\025\152\177\336 \013\303\266\031\024\005\312\352\303\250\004\224\073\106\174\062 \015\363\000\146\042\310\215\151\155\066\214\021\030\267\323\262 \034\140\264\070\372\002\214\316\323\335\106\007\336\012\076\353 \032\104\201\214\054\251\103\226\043\337\254\072\201\232\016\051 \305\034\251\351\135\036\266\236\236\060\012\071\316\361\210\200 \373\113\135\314\062\354\205\142\103\045\064\002\126\047\001\221 \264\073\160\052\077\156\261\350\234\210\001\175\237\324\371\333 \123\155\140\235\277\054\347\130\253\270\137\106\374\316\304\033 \003\074\011\353\111\061\134\151\106\263\340\107\002\003\001\000 \001\243\102\060\100\060\017\006\003\125\035\023\001\001\377\004 \005\060\003\001\001\377\060\016\006\003\125\035\017\001\001\377 \004\004\003\002\001\006\060\035\006\003\125\035\016\004\026\004 \024\072\232\205\007\020\147\050\266\357\366\275\005\101\156\040

\301\224\332\017\336\060\015\006\011\052\206\110\206\367\015\001 \001\013\005\000\003\202\001\001\000\231\333\135\171\325\371\227 \131\147\003\141\361\176\073\006\061\165\055\241\040\216\117\145 \207\264\367\246\234\274\330\351\057\320\333\132\356\317\164\214 \163\264\070\102\332\005\173\370\002\165\270\375\245\261\327\256 \366\327\336\023\313\123\020\176\212\106\321\227\372\267\056\053 \021\253\220\260\047\200\371\350\237\132\351\067\237\253\344\337 $\label{eq:263} $$ 154\263\205\027\235\075\331\044\117\171\221\065\326\137\004\353$ \200\203\253\232\002\055\265\020\364\330\220\307\004\163\100\355 \162\045\240\251\237\354\236\253\150\022\231\127\306\217\022\072 \011\244\275\104\375\006\025\067\301\233\344\062\243\355\070\350 \330\144\363\054\176\024\374\002\352\237\315\377\007\150\027\333 \042\220\070\055\172\215\321\124\361\151\343\137\063\312\172\075 \173\012\343\312\177\137\071\345\342\165\272\305\166\030\063\316 $\label{eq:262} \end{tabular} \end{tabular}$ \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 # Serial Number: 0 (0x0)

Subject: CN=Go Daddy Root Certificate Authority - G2,O="GoDaddy.com,

Inc.",L=Scottsdale,ST=Arizona,C=US

Not Valid Before: Tue Sep 01 00:00:00 2009

Not Valid After : Thu Dec 31 23:59:59 2037

Fingerprint (SHA-256):

45:14:0B:32:47:EB:9C:C8:C5:B4:F0:D7:B5:30:91:F7:32:92:08:9E:6E:5A:63:E2:74:9D:D3:AC:A9:19:8E:DA #

Fingerprint (SHA1): 47:BE:AB:C9:22:EA:E8:0E:78:78:34:62:A7:9F:45:C2:54:FD:E6:8B

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "Go Daddy Root Certificate Authority - G2"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL

 $\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 $\label{eq:164} $$ 164\163\144\141\154\145\061\032\060\030\006\003\125\004\012 $$$ \156\143\056\061\061\060\057\006\003\125\004\003\023\050\107\157 $\label{eq:104} \\ 040\\104\\141\\144\\144\\171\\040\\122\\157\\157\\164\\040\\103\\145\\162\\164$ $\label{eq:151} 146 151 143 141 164 145 040 101 165 164 150 157 162 151 164$ \171\040\055\040\107\062 END CKA_SERIAL_NUMBER MULTILINE_OCTAL \002\001\000 END CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST CKA TRUST STEP UP APPROVED CK BBOOL CK FALSE # # Certificate "Starfield Root Certificate Authority - G2" # # Issuer: CN=Starfield Root Certificate Authority - G2,O="Starfield Technologies, Inc.",L=Scottsdale,ST=Arizona,C=US # Serial Number: 0 (0x0) # Subject: CN=Starfield Root Certificate Authority - G2,O="Starfield Technologies, Inc.",L=Scottsdale,ST=Arizona,C=US # Not Valid Before: Tue Sep 01 00:00:00 2009 # Not Valid After : Thu Dec 31 23:59:59 2037 # Fingerprint (SHA-256): 2C:E1:CB:0B:F9:D2:F9:E1:02:99:3F:BE:21:51:52:C3:B2:DD:0C:AB:DE:1C:68:E5:31:9B:83:91:54:DB:B7:F5 # Fingerprint (SHA1): B5:1C:06:7C:EE:2B:0C:3D:F8:55:AB:2D:92:F4:FE:39:D4:E7:0F:0E CKA CLASS CK OBJECT CLASS CKO CERTIFICATE CKA_TOKEN CK_BBOOL CK_TRUE CKA_PRIVATE CK_BBOOL CK_FALSE CKA_MODIFIABLE CK_BBOOL CK_FALSE CKA_LABEL UTF8 "Starfield Root Certificate Authority - G2" CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509 CKA_SUBJECT MULTILINE_OCTAL \060\201\217\061\013\060\011\006\003\125\004\006\023\002\125\123 \061\020\060\016\006\003\125\004\010\023\007\101\162\151\172\157 \156\141\061\023\060\021\006\003\125\004\007\023\012\123\143\157 \164\163\144\141\154\145\061\045\060\043\006\003\125\004\012 $\label{eq:22} \\ 023 \\ 034 \\ 123 \\ 164 \\ 141 \\ 162 \\ 146 \\ 151 \\ 145 \\ 154 \\ 144 \\ 040 \\ 124 \\ 145 \\ 143 \\ 150 \\ 151 \\ 145 \\ 154 \\ 144 \\ 040 \\ 124 \\ 145 \\ 145 \\ 151 \\ 151 \\ 151 \\ 154 \\$ $\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

\312\075\065\056\211\103\367\241\151\233\336\212\032\375\023\040

CKA VALUE MULTILINE OCTAL \060\202\003\335\060\202\002\305\240\003\002\001\002\002\001\000 \060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060 \201\217\061\013\060\011\006\003\125\004\006\023\002\125\123\061 \020\060\016\006\003\125\004\010\023\007\101\162\151\172\157\156 \141\061\023\060\021\006\003\125\004\007\023\012\123\143\157\164 \164\163\144\141\154\145\061\045\060\043\006\003\125\004\012\023 $\label{eq:2.146} \\ (034) \\ 123) \\ 164) \\ 141) \\ 162) \\ 146) \\ 151) \\ 145) \\ 154) \\ 144) \\ 040) \\ 124) \\ 145) \\ 143) \\ 150) \\ 156$ \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 \164\145\040\101\165\164\150\157\162\151\164\171\040\055\040\107 \062\060\036\027\015\060\071\060\071\060\061\060\060\060\060\060 \060\132\027\015\063\067\061\062\063\061\062\063\065\071\065\071 \132\060\201\217\061\013\060\011\006\003\125\004\006\023\002\125 \123\061\020\060\016\006\003\125\004\010\023\007\101\162\151\172 \157\156\141\061\023\060\021\006\003\125\004\007\023\012\123\143 \157\164\163\144\141\154\145\061\045\060\043\006\003\125\004 $\label{eq:150} $$ 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 $\label{eq:143} \\ 141 \\ 164 \\ 145 \\ 040 \\ 101 \\ 165 \\ 164 \\ 150 \\ 157 \\ 162 \\ 151 \\ 164 \\ 171 \\ 040 \\ 055 \\ 164 \\ 171 \\ 040 \\ 055 \\ 164 \\ 171 \\ 040 \\ 055 \\ 164 \\ 171 \\ 040 \\ 055 \\ 164 \\ 150 \\ 157 \\ 162 \\ 151 \\ 164 \\ 171 \\ 040 \\ 055 \\ 164 \\ 150 \\ 157 \\ 162 \\ 151 \\ 164 \\ 171 \\ 040 \\ 055 \\ 164 \\ 150 \\ 157 \\ 162 \\ 151 \\ 164 \\ 171 \\ 040 \\ 055 \\ 164 \\ 150 \\ 157 \\ 162 \\ 151 \\ 164 \\ 171 \\ 040 \\ 055 \\ 164 \\ 150 \\ 157 \\ 162 \\ 151 \\ 164 \\ 171 \\ 040 \\ 055 \\ 164 \\ 150 \\ 157 \\ 162 \\ 151 \\ 164 \\ 150 \\ 157 \\ 162 \\ 151 \\ 164 \\ 171 \\ 040 \\ 055 \\ 164 \\ 150 \\ 157 \\ 162 \\ 151 \\ 164 \\ 150 \\ 157 \\ 164 \\ 150 \\ 157 \\ 162 \\ 151 \\ 164 \\ 150 \\ 157 \\ 164 \\ 150 \\ 157 \\ 162 \\ 151 \\ 164 \\ 171 \\ 104 \\ 101 \\ 104 \\ 101 \\ 104 \\ 101 \\$ \040\107\062\060\202\001\042\060\015\006\011\052\206\110\206\367 \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

END

\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\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 $\label{eq:154} $$ 154\144\040\122\157\157\164\040\103\145\162\164\151\146\151\143$

CKA ID UTF8 "0"

END

\107\062

\141\164\145\040\101\165\164\150\157\162\151\164\171\040\055\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 $\label{eq:2.1} \end{tabular} \end{tabular}$ \131\353\036\050\007\164\305\235\110\276\154\264\364\244\260\363 \037\013\143\273\072\235\373\374\171\000\230\141\164\317\046\202 \100\143\363\262\162\152\031\015\231\312\324\016\165\314\067\373 \213\211\301\131\361\142\177\137\263\137\145\060\370\247\267\115 \166\132\036\166\136\064\300\350\226\126\231\212\263\360\177\244 \315\275\334\062\061\174\221\317\340\137\021\370\153\252\111\134 \321\231\224\321\242\343\143\133\011\166\265\126\142\341\113\164 \035\226\324\046\324\010\004\131\320\230\016\016\346\336\374\303 \354\037\220\361\002\003\001\000\001\243\102\060\100\060\017\006 \003\125\035\023\001\001\377\004\005\060\003\001\001\377\060\016 \006\003\125\035\017\001\001\377\004\004\003\002\001\006\060\035 \006\003\125\035\016\004\026\004\024\174\014\062\037\247\331\060 \177\304\175\150\243\142\250\241\316\253\007\133\047\060\015\006 \011\052\206\110\206\367\015\001\001\013\005\000\003\202\001\001 \000\021\131\372\045\117\003\157\224\231\073\232\037\202\205\071 \324\166\005\224\136\341\050\223\155\142\135\011\302\240\250\324 \260\165\070\361\064\152\235\344\237\212\206\046\121\346\054\321 \306\055\156\225\040\112\222\001\354\270\212\147\173\061\342\147 \056\214\225\003\046\056\103\235\112\061\366\016\265\014\273\267 $\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 \324\347\017\016 END CKA CERT MD5 HASH MULTILINE OCTAL \326\071\201\306\122\176\226\151\374\374\312\146\355\005\362\226 **END** CKA ISSUER MULTILINE OCTAL \060\201\217\061\013\060\011\006\003\125\004\006\023\002\125\123 \061\020\060\016\006\003\125\004\010\023\007\101\162\151\172\157 \156\141\061\023\060\021\006\003\125\004\007\023\012\123\143\157 $\label{eq:164} $$ 164\163\144\141\154\145\061\045\060\043\006\003\125\004\012 $$$ $\label{eq:23} 034 123 164 141 162 146 151 145 154 144 040 124 145 143 150$ \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 $\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

MULTILINE_OCTAL \060\202\003\357\060\202\002\327\240\003\002\001\002\002\001\000 \060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060 \201\230\061\013\060\011\006\003\125\004\006\023\002\125\123\061 \020\060\016\006\003\125\004\010\023\007\101\162\151\172\157\156 \141\061\023\060\021\006\003\125\004\007\023\012\123\143\157\164 \164\163\144\141\154\145\061\045\060\043\006\003\125\004\012\023 \034\123\164\141\162\146\151\145\154\144\040\124\145\143\150\156

CKA_VALUE

END

\002\001\000

CKA SERIAL NUMBER MULTILINE OCTAL

END

 $\label{eq:150} $$ 150\157\162\151\164\171\040\055\040\107\062 $$$

Not Valid After : Thu Dec 31 23:59:59 2037

CKA_TOKEN CK_BBOOL CK_TRUE CKA PRIVATE CK BBOOL CK FALSE CKA MODIFIABLE CK BBOOL CK FALSE

CKA SUBJECT MULTILINE OCTAL

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

CKA CLASS CK OBJECT CLASS CKO CERTIFICATE

CKA_LABEL UTF8 "Starfield Services Root Certificate Authority - G2" CKA CERTIFICATE TYPE CK CERTIFICATE TYPE CKC X 509

\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 $\label{eq: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 \060\071\006\003\125\004\003\023\062\123\164\141\162\146\151\145 $\label{eq:154} $$ 154\144\040\123\145\162\166\151\143\145\163\040\122\157\157\164$ $\label{eq:104} \end{tabular} \end{tabular}$

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

Fingerprint (SHA-256):

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 \023\034\123\164\141\162\146\151\145\154\144\040\124\145\143\150 \060\071\006\003\125\004\003\023\062\123\164\141\162\146\151\145 $\label{eq:154} $$ 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

UTF8 "0"

CKA_ID

END

\157\154\157\147\151\145\163\054\040\111\156\143\056\061\073\060 \071\006\003\125\004\003\023\062\123\164\141\162\146\151\145\154 \144\040\123\145\162\166\151\143\145\163\040\122\157\157\164\040 $\label{eq:103} \\ 145 \\ 162 \\ 164 \\ 151 \\ 146 \\ 151 \\ 143 \\ 141 \\ 164 \\ 145 \\ 040 \\ 101 \\ 165 \\ 164 \\ 150 \\ 164 \\ 150 \\ 164 \\ 150 \\ 164 \\ 150 \\ 164 \\ 150 \\ 164 \\ 150 \\ 164 \\ 150 \\ 164 \\$ \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 \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 $\label{eq:146} \\ 146 \\ 151 \\ 145 \\ 154 \\ 144 \\ 040 \\ 124 \\ 145 \\ 143 \\ 150 \\ 156 \\ 157 \\ 154 \\ 157 \\ 147 \\ 151 \\ 157 \\$ \145\163\054\040\111\156\143\056\061\073\060\071\006\003\125\004 $\label{eq:2.123} \\ 003 \\ 023 \\ 062 \\ 123 \\ 164 \\ 141 \\ 162 \\ 146 \\ 151 \\ 145 \\ 154 \\ 144 \\ 040 \\ 123 \\ 145 \\ 162$ $\label{eq:146} \\ 146 \\ 151 \\ 143 \\ 141 \\ 164 \\ 145 \\ 040 \\ 101 \\ 165 \\ 164 \\ 150 \\ 157 \\ 162 \\ 151 \\ 164 \\ 171 \\ 164 \\$ \040\055\040\107\062\060\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 \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 $\label{eq:2.140} $$ 072 347 274 061 371 105 366 302 140 317 023 131 002 053 200 314 0.57 023 131 002 053 200 314 0.57 023 131 002 053 200 314 0.57 023 131 002 053 200 314 0.57 023 131 002 053 200 314 0.57 023 131 002 053 200 314 0.57 023 131 002 053 200 314 0.57 023 131 002 053 200 314 0.57 023 131 002 053 200 314 0.57 023 131 002 053 200 314 0.57 023 131 002 053 200 314 0.57 023 131 002 053 200 314 0.57 023 131 0.57 023 0.57 023 0.57 023 0.57 023 0.57 023 0.57 023 0.57 023 0.57 023 0.57 023 0.57 023 0.57 023 0.57 023 0.57 023 0.57 023 0.57 023 0.57 023 0.$ \064\107\337\271\336\220\145\155\002\317\054\221\246\246\347\336 \205\030\111\174\146\116\243\072\155\251\265\356\064\056\272\015 \003\270\063\337\107\353\261\153\215\045\331\233\316\201\321\105 \106\062\226\160\207\336\002\016\111\103\205\266\154\163\273\144 \352\141\101\254\311\324\124\337\207\057\307\042\262\046\314\237 \131\124\150\237\374\276\052\057\304\125\034\165\100\140\027\205 \002\125\071\213\177\005\002\003\001\000\001\243\102\060\100\060 \017\006\003\125\035\023\001\001\377\004\005\060\003\001\001\377 \060\016\006\003\125\035\017\001\001\377\004\004\003\002\001\006 \060\035\006\003\125\035\016\004\026\004\024\234\137\000\337\252 \001\327\060\053\070\210\242\270\155\112\234\362\021\221\203\060 \015\006\011\052\206\110\206\367\015\001\001\013\005\000\003\202 \001\001\000\113\066\246\204\167\151\335\073\031\237\147\043\010 \157\016\141\311\375\204\334\137\330\066\201\315\330\033\101\055 \237\140\335\307\032\150\331\321\156\206\341\210\043\317\023\336 \103\317\342\064\263\004\235\037\051\325\277\370\136\310\325\301 \275\356\222\157\062\164\362\221\202\057\275\202\102\172\255\052 \267\040\175\115\274\172\125\022\302\025\352\275\367\152\225\056 \154\164\237\317\034\264\362\305\001\243\205\320\162\076\255\163 \253\013\233\165\014\155\105\267\216\224\254\226\067\265\240\320

\217\025\107\016\343\350\203\335\217\375\357\101\001\167\314\047 \251\142\205\063\362\067\010\357\161\317\167\006\336\310\031\035 \210\100\317\175\106\035\377\036\307\341\316\377\043\333\306\372 \215\125\116\251\002\347\107\021\106\076\364\375\275\173\051\046 \273\251\141\142\067\050\266\055\052\366\020\206\144\311\160\247 \322\255\267\051\160\171\352\074\332\143\045\237\375\150\267\060 \354\160\373\165\212\267\155\140\147\262\036\310\271\351\330\250 $\label{eq:157} $$ 157\02\213\147\015\115\046\127\161\332\040\374\301\112\120\215\$ \261\050\272 END CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE CKA NSS SERVER DISTRUST AFTER CK BBOOL CK FALSE CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE # Trust for "Starfield Services Root Certificate Authority - G2" # Issuer: CN=Starfield Services Root Certificate Authority - G2,O="Starfield Technologies, Inc.",L=Scottsdale,ST=Arizona,C=US # Serial Number: 0 (0x0) # Subject: CN=Starfield Services Root Certificate Authority - G2,O="Starfield Technologies, Inc.",L=Scottsdale,ST=Arizona,C=US # Not Valid Before: Tue Sep 01 00:00:00 2009 # Not Valid After : Thu Dec 31 23:59:59 2037 # Fingerprint (SHA-256): 56:8D:69:05:A2:C8:87:08:A4:B3:02:51:90:ED:CF:ED:B1:97:4A:60:6A:13:C6:E5:29:0F:CB:2A:E6:3E:DA:B5 # Fingerprint (SHA1): 92:5A:8F:8D:2C:6D:04:E0:66:5F:59:6A:FF:22:D8:63:E8:25:6F:3F CKA CLASS CK OBJECT CLASS CKO NSS TRUST CKA_TOKEN CK_BBOOL CK_TRUE CKA PRIVATE CK BBOOL CK FALSE CKA MODIFIABLE CK_BBOOL CK_FALSE CKA_LABEL UTF8 "Starfield Services Root Certificate Authority - G2" CKA_CERT_SHA1_HASH MULTILINE_OCTAL \222\132\217\215\054\155\004\340\146\137\131\152\377\042\330\143 \350\045\157\077 **END** CKA CERT MD5 HASH MULTILINE OCTAL \027\065\164\257\173\141\034\353\364\371\074\342\356\100\371\242 **END** CKA_ISSUER MULTILINE_OCTAL \060\201\230\061\013\060\011\006\003\125\004\006\023\002\125\123 \061\020\060\016\006\003\125\004\010\023\007\101\162\151\172\157 \156\141\061\023\060\021\006\003\125\004\007\023\012\123\143\157 \164\163\144\141\154\145\061\045\060\043\006\003\125\004\012 $\label{eq:22} \\ 023 \\ 034 \\ 123 \\ 164 \\ 141 \\ 162 \\ 146 \\ 151 \\ 145 \\ 154 \\ 144 \\ 040 \\ 124 \\ 145 \\ 143 \\ 150 \\ 151 \\ 145 \\ 154 \\ 144 \\ 040 \\ 124 \\ 145 \\ 145 \\ 151 \\ 151 \\ 151 \\ 154 \\$ $\label{eq:156} $$ 157 154 157 147 151 145 163 054 040 111 156 143 056 061 073 $$$ \060\071\006\003\125\004\003\023\062\123\164\141\162\146\151\145 $\label{eq:154} $$ 154\144\040\123\145\162\166\151\143\145\163\040\122\157\157\164$

\040\103\145\162\164\151\146\151\143\141\164\145\040\101\165\164 \150\157\162\151\164\171\040\055\040\107\062 END CKA SERIAL NUMBER MULTILINE OCTAL \002\001\000 END CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST CKA TRUST CODE SIGNING CK TRUST CKT NSS MUST VERIFY TRUST CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE # # Certificate "AffirmTrust Commercial" # # Issuer: CN=AffirmTrust Commercial.O=AffirmTrust.C=US # Serial Number:77:77:06:27:26:a9:b1:7c # Subject: CN=AffirmTrust Commercial,O=AffirmTrust,C=US # Not Valid Before: Fri Jan 29 14:06:06 2010 # Not Valid After : Tue Dec 31 14:06:06 2030 # Fingerprint (SHA-256): 03:76:AB:1D:54:C5:F9:80:3C:E4:B2:E2:01:A0:EE:7E:EF:7B:57:B6:36:E8:A9:3C:9B:8D:48:60:C9:6F:5F:A7 # Fingerprint (SHA1): F9:B5:B6:32:45:5F:9C:BE:EC:57:5F:80:DC:E9:6E:2C:C7:B2:78:B7 CKA CLASS CK OBJECT CLASS CKO CERTIFICATE CKA_TOKEN CK_BBOOL CK_TRUE CKA PRIVATE CK BBOOL CK FALSE CKA MODIFIABLE CK BBOOL CK FALSE CKA_LABEL UTF8 "AffirmTrust Commercial" CKA CERTIFICATE TYPE CK CERTIFICATE TYPE CKC X 509 CKA SUBJECT MULTILINE OCTAL $\label{eq:2.123} \\ 060\104\061\013\060\011\006\003\125\004\006\023\002\125\123\061$ \024\060\022\006\003\125\004\012\014\013\101\146\146\151\162\155 \124\162\165\163\164\061\037\060\035\006\003\125\004\003\014\026 \101\146\146\151\162\155\124\162\165\163\164\040\103\157\155\155 145162143151141154**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 $\label{eq:124162165163164061037060035006003125004003014026} \label{eq:124162165163164061037060035006003125004003014026}$ 145 162 143 151 141 154**END** CKA_SERIAL_NUMBER MULTILINE_OCTAL \002\010\167\167\006\047\046\251\261\174 **END**

CKA VALUE MULTILINE OCTAL \060\202\003\114\060\202\002\064\240\003\002\001\002\002\010\167 \167\006\047\046\251\261\174\060\015\006\011\052\206\110\206\367 \015\001\001\013\005\000\060\104\061\013\060\011\006\003\125\004 \006\023\002\125\123\061\024\060\022\006\003\125\004\012\014\013 $\label{eq:101146146151162155124162165163164061037060035006} \\$ \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 $\label{eq:2.15} $$ 155 $$ 005 $$ 360 $$ 372 $$ 255 $$ 013 $$ 17 $$ 232 $$ 45 $$ 360 $$ 120 $$ 244 $$ 213 $$ 073 $$ 107 $$ 165$ \245\043\133\172\172\370\063\077\270\357\231\227\343\040\301\326 \050\211\317\224\373\271\105\355\343\100\027\021\324\164\360\013 \061\342\053\046\152\233\114\127\256\254\040\076\272\105\172\005 \363\275\233\151\025\256\175\116\040\143\304\065\166\072\007\002 \311\067\375\307\107\356\350\361\166\035\163\025\362\227\244\265 \310\172\171\331\102\252\053\177\134\376\316\046\117\243\146\201 \065\257\104\272\124\036\034\060\062\145\235\346\074\223\136\120 \116\172\343\072\324\156\314\032\373\371\322\067\256\044\052\253 \127\003\042\050\015\111\165\177\267\050\332\165\277\216\343\334 \016\171\061\002\003\001\000\001\243\102\060\100\060\035\006\003 \125\035\016\004\026\004\024\235\223\306\123\213\136\312\257\077 \237\036\017\345\231\225\274\044\366\224\217\060\017\006\003\125 \035\023\001\001\377\004\005\060\003\001\001\377\060\016\006\003 \125\035\017\001\001\377\004\003\002\001\006\060\015\006\011 \052\206\110\206\367\015\001\001\013\005\000\003\202\001\001\000 $\label{eq:130} \\ 130 \\ 254 \\ 364 \\ 004 \\ 016 \\ 315 \\ 300 \\ 015 \\ 377 \\ 012 \\ 375 \\ 324 \\ 272 \\ 026 \\ 137 \\ 051 \\$ \275\173\150\231\130\111\322\264\035\067\115\177\047\175\106\006 \135\103\306\206\056\076\163\262\046\175\117\223\251\266\304\052 \232\253\041\227\024\261\336\214\323\253\211\025\330\153\044\324 \361\026\256\330\244\134\324\177\121\216\355\030\001\261\223\143 \275\274\370\141\200\232\236\261\316\102\160\342\251\175\006\045 \175\047\241\376\157\354\263\036\044\332\343\113\125\032\000\073 \065\264\073\331\327\135\060\375\201\023\211\362\302\006\053\355 \147\304\216\311\103\262\134\153\025\211\002\274\142\374\116\362 \265\063\252\262\157\323\012\242\120\343\366\073\350\056\104\302

\333\146\070\251\063\126\110\361\155\033\063\215\015\214\077\140 \067\235\323\312\155\176\064\176\015\237\162\166\213\033\237\162 \375\122\065\101\105\002\226\057\034\262\232\163\111\041\261\111 \107\105\107\264\357\152\064\021\311\115\232\314\131\267\326\002 \236\132\116\145\265\224\256\033\337\051\260\026\361\277\000\236 \007\072\027\144\265\004\265\043\041\231\012\225\073\227\174\357 END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE CKA_NSS_SERVER_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):

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

 $\label{eq:2.105} $$ 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

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

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

002010167167006047046251261174

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

Open Source Used In vmoperator Crafton-3.0 700

\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 \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\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

CKA_SUBJECT MULTILINE_OCTAL

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

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

\157\162\153\151\156\147

CKA_ISSUER MULTILINE_OCTAL

CKA ID UTF8 "0"

END

Fingerprint (SHA-256):

#

#

#

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

Issuer: CN=AffirmTrust Networking,O=AffirmTrust,C=US

Subject: CN=AffirmTrust Networking,O=AffirmTrust,C=US

Fingerprint (SHA1): 29:36:21:02:8B:20:ED:02:F5:66:C5:32:D1:D6:ED:90:9F:45:00:2F

CKA PRIVATE CK BBOOL CK FALSE CKA_MODIFIABLE CK_BBOOL CK_FALSE CKA LABEL UTF8 "AffirmTrust Networking"

Certificate "AffirmTrust Networking"

Serial Number:7c:4f:04:39:1c:d4:99:2d

Not Valid Before: Fri Jan 29 14:08:24 2010 # Not Valid After : Tue Dec 31 14:08:24 2030

\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 \156\147\060\202\001\042\060\015\006\011\052\206\110\206\367\015 \001\001\001\005\000\003\202\001\017\000\060\202\001\012\002\202 \001\001\000\264\204\314\063\027\056\153\224\154\153\141\122\240 \353\243\317\171\224\114\345\224\200\231\313\125\144\104\145\217 \147\144\342\006\343\134\067\111\366\057\233\204\204\036\055\362 \140\235\060\116\314\204\205\342\054\317\036\236\376\066\253\063 \167\065\104\330\065\226\032\075\066\350\172\016\330\325\107\241 \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 $\label{eq:361} 361 \\ 043 \\ 123 \\ 334 \\ 277 \\ 145 \\ 227 \\ 157 \\ 331 \\ 371 \\ 100 \\ 161 \\ 215 \\ 175 \\ 275 \\ 275 \\ 100 \\ 161 \\ 215 \\ 175 \\ 275 \\ 100 \\ 161 \\ 215 \\ 175 \\ 275 \\ 100 \\ 161 \\ 215 \\ 175 \\ 275 \\ 100 \\ 161 \\ 215 \\ 175 \\ 275 \\ 100 \\ 161 \\ 215 \\ 175 \\ 275 \\ 100 \\ 161 \\ 215 \\ 175 \\ 275 \\ 100 \\ 161 \\ 215 \\ 175 \\ 275 \\ 100 \\ 161 \\ 215 \\ 175 \\ 275 \\ 100 \\ 161 \\ 215 \\ 175 \\ 275 \\ 100 \\ 161 \\ 215 \\ 175 \\ 275 \\ 100 \\ 100 \\ 161 \\ 215 \\ 175 \\ 275 \\ 100 \\ 1$ \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 \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

Trust for "AffirmTrust Networking" # Issuer: CN=AffirmTrust Networking,O=AffirmTrust,C=US # Serial Number:7c:4f:04:39:1c:d4:99:2d # Subject: CN=AffirmTrust Networking,O=AffirmTrust,C=US # Not Valid Before: Fri Jan 29 14:08:24 2010 # Not Valid After : Tue Dec 31 14:08:24 2030 # Fingerprint (SHA-256): 0A:81:EC:5A:92:97:77:F1:45:90:4A:F3:8D:5D:50:9F:66:B5:E2:C5:8F:CD:B5:31:05:8B:0E:17:F3:F0:B4:1B # Fingerprint (SHA1): 29:36:21:02:8B:20:ED:02:F5:66:C5:32:D1:D6:ED:90:9F:45:00:2F CKA CLASS CK OBJECT CLASS CKO NSS TRUST CKA_TOKEN CK_BBOOL CK_TRUE CKA_PRIVATE CK_BBOOL CK_FALSE CKA MODIFIABLE CK BBOOL CK FALSE CKA_LABEL UTF8 "AffirmTrust Networking" CKA CERT SHA1 HASH MULTILINE OCTAL \051\066\041\002\213\040\355\002\365\146\305\062\321\326\355\220 \237\105\000\057 END CKA_CERT_MD5_HASH MULTILINE_OCTAL \102\145\312\276\001\232\232\114\251\214\101\111\315\300\325\177 END CKA_ISSUER MULTILINE_OCTAL \060\104\061\013\060\011\006\003\125\004\006\023\002\125\123\061 \024\060\022\006\003\125\004\012\014\013\101\146\146\151\162\155 \124\162\165\163\164\061\037\060\035\006\003\125\004\003\014\026 \101\146\146\151\162\155\124\162\165\163\164\040\116\145\164\167 \157\162\153\151\156\147 END CKA SERIAL NUMBER MULTILINE OCTAL \002\010\174\117\004\071\034\324\231\055 END CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE # # Certificate "AffirmTrust Premium"

Issuer: CN=AffirmTrust Premium,O=AffirmTrust,C=US

Serial Number:6d:8c:14:46:b1:a6:0a:ee

Subject: CN=AffirmTrust Premium,O=AffirmTrust,C=US

Not Valid Before: Fri Jan 29 14:10:36 2010

Not Valid After : Mon Dec 31 14:10:36 2040

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 $\label{eq:1012} 012 014 013 101 146 146 151 162 155 124 162 165 163 164 061 034$ \060\032\006\003\125\004\003\014\023\101\146\146\151\162\155\124 \162\165\163\164\040\120\162\145\155\151\165\155\060\202\002\042 \060\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003 \202\002\017\000\060\202\002\012\002\202\002\001\000\304\022\337 \251\137\376\101\335\335\365\237\212\343\366\254\341\074\170\232 \274\330\360\177\172\240\063\052\334\215\040\133\256\055\157\347 \223\331\066\160\152\150\317\216\121\243\205\133\147\004\240\020 \044\157\135\050\202\301\227\127\330\110\051\023\266\341\276\221

END

002 010 155 214 024 106 261 246 012 356

CKA_SERIAL_NUMBER MULTILINE_OCTAL

END

151 165 155

CKA_ISSUER MULTILINE_OCTAL \060\101\061\013\060\011\006\003\125\004\006\023\002\125\123\061 \024\060\022\006\003\125\004\012\014\013\101\146\146\151\162\155 \124\162\165\163\164\061\034\060\032\006\003\125\004\003\014\023 \101\146\146\151\162\155\124\162\165\163\164\040\120\162\145\155

CKA_ID UIF8 U

CKA ID UTF8 "0"

END

\151\165\155

\101\146\146\151\162\155\124\162\165\163\164\040\120\162\145\155

 $\label{eq:2.106} $$ \022\006\003\125\004\012\014\013\101\146\146\151\162\155\124\162\165\163\164\061\034\060\032\006\003\125\004\003\014\023 $$$

\060\101\061\013\060\011\006\003\125\004\006\023\002\125\123\061

CKA_SUBJECT MULTILINE_OCTAL

CK_CERTIFICATE_TYPE CKC_X_509

CKA_CERTIFICATE_TYPE

CKA_LABEL UTF8 "AffirmTrust Premium"

CKA_WOUTFIADLE CK_BBOUL CK_FA

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): D8:A6:33:2C:E0:03:6F:B1:85:F6:63:4F:7D:6A:06:65:26:32:28:27

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

\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 $\label{eq:22} \\ 322 \\ 166 \\ 346 \\ 341 \\ 214 \\ 275 \\ 074 \\ 263 \\ 323 \\ 110 \\ 113 \\ 342 \\ 310 \\ 370 \\ 177 \\ 222 \\ 100 \\ 177 \\ 222 \\ 100 \\$ \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 $\label{eq:2.1} \end{tabular} \end{tabular}$ \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 $\label{eq:2.102} \\ 003 \\ 311 \\ 232 \\ 102 \\ 000 \\ 154 \\ 305 \\ 224 \\ 176 \\ 141 \\ 304 \\ 212 \\ 337 \\ 177 \\ 202 \\ 032 \\ 032 \\ 032 \\ 032 \\ 032 \\ 033$ \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 \066\336\174\017\151\023\210\245\165\066\230\010\246\306\337\254 \316\343\130\326\267\076\336\272\363\353\064\100\330\242\201\365 \170\077\057\325\245\374\331\242\324\136\004\016\027\255\376\101 \360\345\262\162\372\104\202\063\102\350\055\130\367\126\214\142 \077\272\102\260\234\014\134\176\056\145\046\134\123\117\000\262 \170\176\241\015\231\055\215\270\035\216\242\304\260\375\140\320 \060\244\216\310\004\142\251\304\355\065\336\172\227\355\016\070 \136\222\057\223\160\245\251\234\157\247\175\023\035\176\306\010 \110\261\136\147\353\121\010\045\351\346\045\153\122\051\221\234 \322\071\163\010\127\336\231\006\264\133\235\020\006\341\302\000

\250\270\034\112\002\012\024\320\301\101\312\373\214\065\041\175 \202\070\362\251\124\221\031\065\223\224\155\152\072\305\262\320 \273\211\206\223\350\233\311\017\072\247\172\270\241\360\170\106 \372\374\067\057\345\212\204\363\337\376\004\331\241\150\240\057 \044\342\011\225\006\325\225\312\341\044\226\353\174\366\223\005 \273\355\163\351\055\321\165\071\327\347\044\333\330\116\137\103 \217\236\320\024\071\277\125\160\110\231\127\061\264\234\356\112 \230\003\226\060\037\140\006\356\033\043\376\201\140\043\032\107 \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

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

END

CKA_ISSUER MULTILINE_OCTAL

\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

\124\162\165\163\164\061\040\060\036\006\003\125\004\003\014\027

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

15116515040105103103

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

\101\146\146\151\162\155\124\162\165\163\164\040\120\162\145\155

151165155040105103103

END

CKA_SERIAL_NUMBER

MULTILINE_OCTAL

 $\label{eq:22} $$ 002\010\164\227\045\212\307\077\172\124 END $$$

CKA VALUE MULTILINE OCTAL \060\202\001\376\060\202\001\205\240\003\002\001\002\002\010\164 \227\045\212\307\077\172\124\060\012\006\010\052\206\110\316\075 \004\003\003\060\105\061\013\060\011\006\003\125\004\006\023\002 \125\123\061\024\060\022\006\003\125\004\012\014\013\101\146\146 \151\162\155\124\162\165\163\164\061\040\060\036\006\003\125\004 $\label{eq:2.12} $$ 003\014\027\101\146\146\151\162\155\124\162\165\163\164\040\120 $$$ \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 $\label{eq:2.1} \end{tabular} \end{tabular}$ \040\060\036\006\003\125\004\003\014\027\101\146\146\151\162\155 \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 \333\364\017\244\150\114\125\162\153\225\035\116\030\102\225\170 \314\067\074\221\342\233\145\053\051\243\102\060\100\060\035\006 \003\125\035\016\004\026\004\024\232\257\051\172\300\021\065\065 \046\121\060\000\303\152\376\100\325\256\326\074\060\017\006\003 \125\035\023\001\001\377\004\005\060\003\001\001\377\060\016\006 \003\125\035\017\001\001\377\004\003\002\001\006\060\012\006 \010\052\206\110\316\075\004\003\003\003\147\000\060\144\002\060 \152\206\340\304\047\164\344\070\123\327\005\177\033\064\343\306 \057\263\312\011\074\067\235\327\347\270\106\361\375\241\342\161 \002\060\102\131\207\103\324\121\337\272\323\011\062\132\316\210 \176\127\075\234\137\102\153\365\007\055\265\360\202\223\371\131 \157\256\144\372\130\345\213\036\343\143\276\265\201\315\157\002 \214\171

END

CKA_NSS_MOZILLA_CA_POLICY

CK_BBOOL CK_TRUE

CKA_NSS_SERVER_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

 $\label{eq:270} $$ \270\043\153\000\057\035\026\206\123\001\125\154\021\244\067\312 $$

353 377 303 273

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL

\144\260\011\125\317\261\325\231\342\276\023\253\246\135\352\115

END

CKA_ISSUER MULTILINE_OCTAL

\060\105\061\013\060\011\006\003\125\004\006\023\002\125\123\061 \024\060\022\006\003\125\004\012\014\013\101\146\146\151\162\155

\124\162\165\163\164\061\040\060\036\006\003\125\004\003\014\027

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

15116515040105103103

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

 $\label{eq:constraint} $$ 002\010\164\227\045\212\307\077\172\124 $$$

END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR

CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST

CKA_TRUST_CODE_SIGNING

CK_TRUST CKT_NSS_MUST_VERIFY_TRUST

 $CKA_TRUST_STEP_UP_APPROVED\ CK_BBOOL\ CK_FALSE$

#

Certificate "Certum Trusted Network CA"

#

Issuer: CN=Certum Trusted Network CA,OU=Certum Certification Authority,O=Unizeto Technologies S.A.,C=PL

Serial Number: 279744 (0x444c0)

Subject: CN=Certum Trusted Network CA,OU=Certum Certification Authority,O=Unizeto Technologies

S.A.,C=PL

Not Valid Before: Wed Oct 22 12:07:37 2008

Not Valid After : Mon Dec 31 12:07:37 2029

Fingerprint (SHA-256):

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_VALUE MULTILINE_OCTAL \060\202\003\273\060\202\002\243\240\003\002\001\002\002\003\004 \104\300\060\015\006\011\052\206\110\206\367\015\001\001\005\005 \000\060\176\061\013\060\011\006\003\125\004\006\023\002\120\114 \061\042\060\040\006\003\125\004\012\023\031\125\156\151\172\145 $\label{eq:164} $$ 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 \040\006\003\125\004\003\023\031\103\145\162\164\165\155\040\124 \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

CKA_ISSUER MULTILINE_OCTAL \060\176\061\013\060\011\006\003\125\004\006\023\002\120\114\061 \042\060\040\006\003\125\004\012\023\031\125\156\151\172\145\164 \056\101\056\061\047\060\045\006\003\125\004\013\023\036\103\145 \006\003\125\004\003\023\031\103\145\162\164\165\155\040\124\162 $\label{eq:165} $$ 163 164 145 144 040 116 145 164 167 157 162 153 040 103 101 $$$ **END**

CKA CERTIFICATE TYPE CK CERTIFICATE TYPE CKC X 509

\060\176\061\013\060\011\006\003\125\004\006\023\002\120\114\061 \042\060\040\006\003\125\004\012\023\031\125\156\151\172\145\164 \056\101\056\061\047\060\045\006\003\125\004\013\023\036\103\145 \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

CKA SERIAL NUMBER MULTILINE_OCTAL \002\003\004\104\300

CKA PRIVATE CK BBOOL CK FALSE CKA MODIFIABLE CK BBOOL CK FALSE CKA LABEL UTF8 "Certum Trusted Network CA"

CKA SUBJECT MULTILINE OCTAL

UTF8 "0"

END

END

CKA ID

\151\157\156\040\101\165\164\150\157\162\151\164\171\061\042\060 \040\006\003\125\004\003\023\031\103\145\162\164\165\155\040\124 \162\165\163\164\145\144\040\116\145\164\167\157\162\153\040\103 \101\060\202\001\042\060\015\006\011\052\206\110\206\367\015\001 \001\001\005\000\003\202\001\017\000\060\202\001\012\002\202\001 \001\000\343\373\175\243\162\272\302\360\311\024\207\365\153\001 \116\341\156\100\007\272\155\047\135\177\367\133\055\263\132\307 \121\137\253\244\062\246\141\207\266\156\017\206\322\060\002\227 \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 \131\076\325\140\116\346\005\050\355\111\171\023\113\272\110\333 \057\371\162\323\071\312\376\037\330\064\162\365\264\100\317\061 \001\303\354\336\021\055\027\135\037\270\120\321\136\031\247\151 \336\007\063\050\312\120\225\371\247\124\313\124\206\120\105\251 \371\111\002\003\001\000\001\243\102\060\100\060\017\006\003\125 \035\023\001\001\377\004\005\060\003\001\001\377\060\035\006\003 \125\035\016\004\026\004\024\010\166\315\313\007\377\044\366\305 \315\355\273\220\274\342\204\067\106\165\367\060\016\006\003\125 \035\017\001\001\377\004\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 \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 $\label{eq:171} $$ 171\101\133\042\262\260\232\101\134\246\160\340\324\320\167\313 $$$ \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 $\label{eq:244} $$ 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 \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

CKA_ISSUER MULTILINE_OCTAL

```
\label{eq:starter} $$ $ 1060 176 061 013 060 011 006 003 125 004 006 023 002 120 114 061 042 060 040 006 003 125 004 012 023 031 125 156 151 172 145 164 157 040 124 145 143 150 156 157 154 157 147 151 145 163 040 123 056 101 056 061 047 060 045 006 003 125 004 013 023 036 103 145 162 164 165 155 040 103 145 162 164 151 146 151 143 141 164 151 157 156 040 101 165 164 150 157 162 151 164 171 061 042 060 040 006 003 125 004 003 023 031 103 145 162 164 165 155 040 124 162 165 165 155 040 124 162 165 165 165 164 120 126 165 165 165 164 120 126 165 165 125 040 124 162 165 163 164 145 144 040 116 145 164 167 157 162 153 040 103 101 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

END CKA VALUE MULTILINE OCTAL \060\202\003\173\060\202\002\143\240\003\002\001\002\002\001\001 \060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060 \137\061\013\060\011\006\003\125\004\006\023\002\124\127\061\022 \060\020\006\003\125\004\012\014\011\124\101\111\127\101\116\055 \103\101\061\020\060\016\006\003\125\004\013\014\007\122\157\157 \164\040\103\101\061\052\060\050\006\003\125\004\003\014\041\124 $\label{eq:127} 103 101 040 122 157 157 164 040 103 145 162 164 151 146 151$ $\label{eq:143} \\ 143 \\ 141 \\ 164 \\ 151 \\ 157 \\ 156 \\ 040 \\ 101 \\ 165 \\ 164 \\ 150 \\ 157 \\ 162 \\ 151 \\ 164 \\ 171 \\ 164 \\$ \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

\002\001\001

CKA SERIAL NUMBER MULTILINE OCTAL

END

\171

CKA_ISSUER MULTILINE_OCTAL \060\137\061\013\060\011\006\003\125\004\006\023\002\124\127\061 \022\060\020\006\003\125\004\012\014\011\124\101\111\127\101\116 \055\103\101\061\020\060\016\006\003\125\004\013\014\007\122\157 \157\164\040\103\101\061\052\060\050\006\003\125\004\003\014\041 \124\127\103\101\040\122\157\157\164\040\103\145\162\164\151\146

UTF8 "0"

CKA_ID

END

\171

\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

CKA_SUBJECT MULTILINE_OCTAL

CKA_LABEL UTF8 "TWCA Root Certification Authority" 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

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

Fingerprint (SHA-256):

Not Valid After : Tue Dec 31 15:59:59 2030

Not Valid Before: Thu Aug 28 07:24:33 2008

Subject: CN=TWCA Root Certification Authority,OU=Root CA,O=TAIWAN-CA,C=TW

Serial Number: 1 (0x1)

\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} $$ 151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164$ \171\060\202\001\042\060\015\006\011\052\206\110\206\367\015\001 \001\001\005\000\003\202\001\017\000\060\202\001\012\002\202\001 \001\000\260\176\162\270\244\003\224\346\247\336\011\070\221\112 \021\100\207\247\174\131\144\024\173\265\021\020\335\376\277\325 \300\273\126\342\205\045\364\065\162\017\370\123\320\101\341\104 \001\302\264\034\303\061\102\026\107\205\063\042\166\262\012\157 \017\345\045\120\117\205\206\276\277\230\056\020\147\036\276\021 \005\206\005\220\304\131\320\174\170\020\260\200\134\267\341\307 \233\255\251\126\351\301\377\255\251\130\207\060\266\201\367\227 \227\243\210\035\067\034\134\217\340\166\045\232\120\370\240\124 \377\104\220\166\043\322\062\306\303\253\006\277\374\373\277\363 \262\372\062\377\073\004\257\115\100\152\371\307\343\357\043\375 \153\313\345\017\213\070\015\356\012\374\376\017\230\237\060\061 \335\154\122\145\371\213\201\276\042\341\034\130\003\272\221\033 \211\007\002\003\001\000\001\243\102\060\100\060\016\006\003\125 \035\017\001\001\377\004\003\002\001\006\060\017\006\003\125 \035\023\001\001\377\004\005\060\003\001\001\377\060\035\006\003 \125\035\016\004\026\004\024\152\070\133\046\215\336\213\132\362 $\label{eq:117} $$ 172\124\203\031\030\343\010\065\246\272\060\015\006\011\052\$ \206\110\206\367\015\001\001\005\005\000\003\202\001\001\000\074 \325\167\075\332\337\211\272\207\014\010\124\152\040\120\222\276 \260\101\075\271\046\144\203\012\057\350\100\300\227\050\047\202 \060\112\311\223\377\152\347\246\000\177\211\102\232\326\021\345 \123\316\057\314\362\332\005\304\376\342\120\304\072\206\175\314 \332\176\020\011\073\222\065\052\123\262\376\353\053\005\331\154 \135\346\320\357\323\152\146\236\025\050\205\172\350\202\000\254 \272\111\276\040\272\151\134\356\270\167\315\316\154\037\255\203 \226\030\175\016\265\024\071\204\361\050\351\055\243\236\173\036 \172\162\132\203\263\171\157\357\264\374\320\012\245\130\117\106 \337\373\155\171\131\362\204\042\122\256\017\314\373\174\073\347 \152\312\107\141\303\172\370\323\222\004\037\270\040\204\341\066 \124\026\307\100\336\073\212\163\334\337\306\011\114\337\354\332 \377\324\123\102\241\311\362\142\035\042\203\074\227\305\371\031 \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 $\label{eq:151} 143 141 164 151 157 156 040 101 165 164 150 157 162 151 164$ \171 **END** CKA_SERIAL_NUMBER MULTILINE_OCTAL \002\001\001 END CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Certificate "Explicitly Distrust DigiNotar Root CA"

#

Issuer: E=info@diginotar.nl,CN=DigiNotar Root CA,O=DigiNotar,C=NL

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 \020\006\003\125\004\012\023\011\104\151\147\151\116\157\164\141 \162\061\032\060\030\006\003\125\004\003\023\021\104\151\147\151 $\label{eq: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

CKA SERIAL NUMBER MULTILINE OCTAL

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 $\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

\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 \151\156\146\157\100\144\151\147\151\156\157\164\141\162\056\156 \154 **END**

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA MODIFIABLE CK BBOOL CK FALSE

CKA_LABEL UTF8 "Explicitly Distrust DigiNotar Root CA"

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 SUBJECT MULTILINE OCTAL

CKA ID UTF8 "0"

END

\377\377

\137\061\013\060\011\006\003\125\004\006\023\002\116\114\061\022 \060\020\006\003\125\004\012\023\011\104\151\147\151\116\157\164 \141\162\061\032\060\030\006\003\125\004\003\023\021\104\151\147 \060\036\006\011\052\206\110\206\367\015\001\011\001\026\021\151 \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 \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 $\label{eq:2.155} $$ 04\100\205\116\166\231\174\202\363\363\267\002\131\324 $$$ \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 $\label{eq:167} $$ 167\11\315\243\145\34\367\271\234\270\344\013\137\223\317\314$ \060\032\062\034\316\034\143\225\245\371\352\341\164\213\236\351 \053\251\060\173\240\030\037\016\030\013\345\133\251\323\321\154 \036\007\147\217\221\113\251\212\274\322\146\252\223\001\210\262 \221\372\061\134\325\246\301\122\010\011\315\012\143\242\323\042 \246\350\241\331\071\006\227\365\156\215\002\220\214\024\173\077 200\315\033\234\272\304\130\162\043\257\266\126\237\306\172\102 \063\051\007\077\202\311\346\037\005\015\315\114\050\066\213\323 \310\076\034\306\210\357\136\356\211\144\351\035\353\332\211\176 \062\246\151\321\335\314\210\237\321\320\311\146\041\334\006\147 $\label{eq:224} $$ 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 \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 \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 \014\167\164\303\325\015\307\250\022\114\307\247\124\161\107\056 $\label{eq:263} \end{tabular} $$ \054\032\175\311\343\053\073\110\336\047\204\247\143\066\263\175\8\\$ \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

#

\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 $\label{eq:244} $$ 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 \151\156\146\157\100\144\151\147\151\156\157\164\141\162\056\156 \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_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE CKA_TOKEN CK_BBOOL CK_TRUE CKA_PRIVATE CK_BBOOL CK_FALSE CKA_MODIFIABLE CK_BBOOL CK_FALSE CKA_LABEL UTF8 "Security Communication RootCA2" CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509 CKA_SUBJECT MULTILINE_OCTAL \060\135\061\013\060\011\006\003\125\004\006\023\002\112\120\061 \045\060\043\006\003\125\004\012\023\034\123\105\103\117\115\040 \124\162\165\163\164\040\123\171\163\164\145\155\163\040\103\117

\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 $\label{eq:2.1} \end{tabular} \end{tabular}$ \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 $\label{eq:145} $$ 143 165 162 151 164 171 040 103 157 155 155 165 156 151 143 $$$ \141\164\151\157\156\040\122\157\157\164\103\101\062\060\202\001 \042\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000 \003\202\001\017\000\060\202\001\012\002\202\001\001\000\320\025 \071\122\261\122\263\272\305\131\202\304\135\122\256\072\103\145 \200\113\307\362\226\274\333\066\227\326\246\144\214\250\136\360 \343\012\034\367\337\227\075\113\256\366\135\354\041\265\101\253 \315\271\176\166\237\276\371\076\066\064\240\073\301\366\061\021 \105\164\223\075\127\200\305\371\211\231\312\345\253\152\324\265 \332\101\220\020\301\326\326\102\211\302\277\364\070\022\225\114 \124\005\367\066\344\105\203\173\024\145\326\334\014\115\321\336 \176\014\253\073\304\025\276\072\126\246\132\157\166\151\122\251 \172\271\310\353\152\232\135\122\320\055\012\153\065\026\011\020 \204\320\152\312\072\006\000\067\107\344\176\127\117\077\213\353 \147\270\210\252\305\276\123\125\262\221\304\175\271\260\205\031 \006\170\056\333\141\032\372\205\365\112\221\241\347\026\325\216 \242\071\337\224\270\160\037\050\077\213\374\100\136\143\203\074 \203\052\032\231\153\317\336\131\152\073\374\157\026\327\037\375

END

\002\001\000

CKA_SERIAL_NUMBER MULTILINE_OCTAL

CKA VALUE MULTILINE OCTAL

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

CKA_ID UTF8 "0"

END

\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

\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 $\label{eq:22} \end{tabular} \end{tabular}$ \070\361\012\354\074\317\060\016\006\003\125\035\017\001\001\377 \004\004\003\002\001\006\060\017\006\003\125\035\023\001\001\377 \004\005\060\003\001\001\377\060\015\006\011\052\206\110\206\367 \015\001\001\013\005\000\003\202\001\001\000\114\072\243\104\254 \271\105\261\307\223\176\310\013\012\102\337\144\352\034\356\131 \154\010\272\211\137\152\312\112\225\236\172\217\007\305\332\105 $\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 \227\117\150\072\365\351\056\012\103\266\257\127\134\142\150\174 \267\375\243\212\204\240\254\142\276\053\011\207\064\360\152\001 \273\233\051\126\074\376\000\067\317\043\154\361\116\252\266\164 \106\022\154\221\356\064\325\354\232\221\347\104\276\220\061\162 \325\111\002\366\002\345\364\037\353\174\331\226\125\251\377\354 \212\371\231\107\377\065\132\002\252\004\313\212\133\207\161\051 $\label{eq:221} 275 \\ 244 \\ 264 \\ 172 \\ 015 \\ 275 \\ 232 \\ 365 \\ 127 \\ 043 \\ 000 \\ 007 \\ 041 \\ 027 \\ 077 \\ 0$ \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

064271307164

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL

\154\071\175\244\016\125\131\262\077\326\101\261\022\120\336\103 END

CKA_ISSUER MULTILINE_OCTAL

\060\135\061\013\060\011\006\003\125\004\006\023\002\112\120\061 \045\060\043\006\003\125\004\012\023\034\123\105\103\117\115\040 \124\162\165\163\164\040\123\171\163\164\145\155\163\040\103\117 \056\054\114\124\104\056\061\047\060\045\006\003\125\004\013\023 \036\123\145\143\165\162\151\164\171\040\103\157\155\155\165\156 \151\143\141\164\151\157\156\040\122\157\157\164\103\101\062 END

CKA SERIAL NUMBER

MULTILINE_OCTAL

002 001 000

END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#

Certificate "EC-ACC"

#

Issuer: CN=EC-ACC,OU=Jerarquia Entitats de Certificacio Catalanes,OU=Vegeu https://www.catcert.net/verarrel (c)03,OU=Serveis Publics de Certificacio,O=Agencia Catalana de Certificacio (NIF Q-0801176-I),C=ES

Serial Number:ee:2b:3d:eb:d4:21:de:14:a8:62:ac:04:f3:dd:c4:01

Subject: CN=EC-ACC,OU=Jerarquia Entitats de Certificacio Catalanes,OU=Vegeu

https://www.catcert.net/verarrel (c)03,OU=Serveis Publics de Certificacio,O=Agencia Catalana de Certificacio (NIF Q-0801176-I),C=ES

Not Valid Before: Tue Jan 07 23:00:00 2003

Not Valid After : Tue Jan 07 22:59:59 2031

Fingerprint (SHA-256):

88:49:7F:01:60:2F:31:54:24:6A:E2:8C:4D:5A:EF:10:F1:D8:7E:BB:76:62:6F:4A:E0:B7:F9:5B:A7:96:87:99 #

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

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "EC-ACC"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL

 $\label{eq:201} \\ 060\201\363\061\013\060\011\006\003\125\004\006\023\002\105\123$

 $\label{eq:1061} \\ 061 \\ 073 \\ 060 \\ 071 \\ 006 \\ 003 \\ 125 \\ 004 \\ 012 \\ 023 \\ 062 \\ 101 \\ 147 \\ 145 \\ 156 \\ 143 \\ 156 \\ 143 \\ 156 \\ 143 \\ 156 \\ 143 \\ 156 \\ 143 \\ 156 \\ 143 \\ 156 \\ 143 \\ 156 \\ 143 \\ 156 \\ 143 \\ 156$

 $\label{eq:1040} \end{tabular} \end{tabular$

CKA_VALUE MULTILINE_OCTAL \060\202\005\126\060\202\004\076\240\003\002\001\002\002\020\356 \053\075\353\324\041\336\024\250\142\254\004\363\335\304\001\060 \015\006\011\052\206\110\206\367\015\001\001\005\005\000\060\201 \363\061\013\060\011\006\003\125\004\006\023\002\105\123\061\073 \060\071\006\003\125\004\012\023\062\101\147\145\156\143\151\141 \040\103\141\164\141\154\141\156\141\040\144\145\040\103\145\162 \164\151\146\151\143\141\143\151\157\040\050\116\111\106\040\121 \055\060\070\060\061\061\067\066\055\111\051\061\050\060\046\006 \003\125\004\013\023\037\123\145\162\166\145\151\163\040\120\165 \142\154\151\143\163\040\144\145\040\103\145\162\164\151\146\151

END

304001

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

CKA_SERIAL_NUMBER

END

105103055101103103

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 \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 \145\162\164\151\146\151\143\141\143\151\157\040\103\141\164\141 \154\141\156\145\163\061\017\060\015\006\003\125\004\003\023\006

UTF8 "0"

CKA_ID

END

\105\103\055\101\103\103

\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 $\label{eq:164} \\ 164 \\ 151 \\ 146 \\ 151 \\ 143 \\ 141 \\ 143 \\ 151 \\ 157 \\ 040 \\ 103 \\ 141 \\ 164 \\ 141 \\ 154 \\ 154 \\$ \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} $$ 145 040 103 145 162 164 151 146 151 143 141 143 151 157 040 $$$ \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\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 $\label{eq:163} \\ 163 \\ 072 \\ 057 \\ 167 \\ 167 \\ 167 \\ 167 \\ 1056 \\ 143 \\ 141 \\ 164 \\ 143 \\ 145 \\ 162 \\ 164 \\ 056 \\ 164 \\ 056 \\ 143 \\ 141 \\ 164 \\ 143 \\ 145 \\ 162 \\ 164 \\ 056 \\ 164 \\ 056 \\ 143 \\ 141 \\ 164 \\ 143 \\ 145 \\ 162 \\ 164 \\ 056 \\ 164 \\ 056 \\ 164 \\ 056 \\ 164 \\ 056 \\ 164 \\ 056 \\ 164 \\ 056 \\ 164 \\ 056 \\ 164 \\ 056 \\ 164 \\ 056 \\ 164 \\ 056 \\ 164 \\ 056 \\ 164 \\ 056 \\ 164 \\ 056 \\ 164 \\ 056 \\ 164 \\ 056 \\ 164 \\ 056 \\ 164 \\ 056 \\ 164 \\ 056$ \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 \144\145\040\103\145\162\164\151\146\151\143\141\143\151\157\040 \103\141\164\141\154\141\156\145\163\061\017\060\015\006\003\125 \004\003\023\006\105\103\055\101\103\060\202\001\042\060\015 \006\011\052\206\110\206\367\015\001\001\001\005\000\003\202\001 \017\000\060\202\001\012\002\202\001\001\000\263\042\307\117\342 \227\102\225\210\107\203\100\366\035\027\363\203\163\044\036\121 \363\230\212\303\222\270\377\100\220\005\160\207\140\311\000\251 \265\224\145\031\042\025\027\302\103\154\146\104\232\015\004\076 \071\157\245\113\172\252\143\267\212\104\235\331\143\221\204\146 \340\050\017\272\102\343\156\216\367\024\047\223\151\356\221\016 \243\137\016\261\353\146\242\162\117\022\023\206\145\172\076\333 \117\007\364\247\011\140\332\072\102\231\307\262\177\263\026\225 \034\307\371\064\265\224\205\325\231\136\240\110\240\176\347\027 \145\270\242\165\270\036\363\345\102\175\257\355\363\212\110\144 \135\202\024\223\330\300\344\377\263\120\162\362\166\366\263\135 $\label{eq:102120171320224076153014000276330153016116052354} \label{eq:102120171320224076153014000276330153016116052354}$ \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 \164\056\156\145\164\060\017\006\003\125\035\023\001\001\377\004 \005\060\003\001\001\377\060\016\006\003\125\035\017\001\001\377

\004\004\003\002\001\006\060\035\006\003\125\035\016\004\026\004 \024\240\303\213\104\252\067\245\105\277\227\200\132\321\361\170 \242\233\351\135\215\060\177\006\003\125\035\040\004\170\060\166 \060\164\006\013\053\006\001\004\001\365\170\001\003\001\012\060 \145\060\054\006\010\053\006\001\005\005\007\002\001\026\040\150 $\label{eq:162} $$ 162\163\156\145\164\057\166\145\162\141\162\162\145\154\060\$ \065\006\010\053\006\001\005\005\007\002\002\060\051\032\047\126 \056\143\141\164\143\145\162\164\056\156\145\164\057\166\145\162 \001\001\005\005\000\003\202\001\001\000\240\110\133\202\001\366 \115\110\270\071\125\065\234\200\172\123\231\325\132\377\261\161 $\label{eq:2.1} \end{tabular} \end{tabular}$ \375\175\117\315\240\101\340\064\223\277\313\342\206\234\067\222 \220\126\034\334\353\051\005\345\304\236\307\065\337\212\014\315 \305\041\103\351\252\210\345\065\300\031\102\143\132\002\136\244 $\label{eq:110} $$ 10000072 205 157 334 235 274 077 235 234 301 207 270 172 141 $$$ \010\351\167\013\177\160\253\172\335\331\227\054\144\036\205\277 $\label{eq:274} $$ $$ 26\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 \210\277\102\325\053\075\345\371\272\236\056\263\312\364\163\222 \002\013\276\114\146\353\040\376\271\313\265\231\177\346\266\023 \372\312\113\115\331\356\123\106\006\073\306\116\255\223\132\201 \176\154\052\113\152\005\105\214\362\041\244\061\220\207\154\145 \234\235\245\140\225\072\122\177\365\321\253\010\156\363\356\133 \371\210\075\176\270\157\156\003\344\102 **END**

CKA_NSS_MOZILLA_CA_POLICY

CK_BBOOL CK_TRUE

For Server Distrust After: Sat Dec 28 00:00:00 2019

CKA_NSS_SERVER_DISTRUST_AFTER MULTILINE_OCTAL

\061\071\061\062\062\070\060\060\060\060\060\060\132

END

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

CKA_NSS_EMAIL_DISTRUST_AFTER MULTILINE_OCTAL

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

END

Trust for "EC-ACC"

Issuer: CN=EC-ACC,OU=Jerarquia Entitats de Certificacio Catalanes,OU=Vegeu https://www.catcert.net/verarrel (c)03,OU=Serveis Publics de Certificacio,O=Agencia Catalana de Certificacio (NIF Q-0801176-I),C=ES # Serial Number:ee:2b:3d:eb:d4:21:de:14:a8:62:ac:04:f3:dd:c4:01

Subject: CN=EC-ACC,OU=Jerarquia Entitats de Certificacio Catalanes,OU=Vegeu

https://www.catcert.net/verarrel (c)03,OU=Serveis Publics de Certificacio,O=Agencia Catalana de Certificacio (NIF Q-0801176-I),C=ES

Not Valid

Before: Tue Jan 07 23:00:00 2003 # Not Valid After : Tue Jan 07 22:59:59 2031 # Fingerprint (SHA-256): 88:49:7F:01:60:2F:31:54:24:6A:E2:8C:4D:5A:EF:10:F1:D8:7E:BB:76:62:6F:4A:E0:B7:F9:5B:A7:96:87:99 # Fingerprint (SHA1): 28:90:3A:63:5B:52:80:FA:E6:77:4C:0B:6D:A7:D6:BA:A6:4A:F2:E8 CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST CKA TOKEN CK BBOOL CK TRUE CKA_PRIVATE CK_BBOOL CK_FALSE CKA_MODIFIABLE CK_BBOOL CK_FALSE CKA LABEL UTF8 "EC-ACC" CKA_CERT_SHA1_HASH MULTILINE_OCTAL \050\220\072\143\133\122\200\372\346\167\114\013\155\247\326\272 \246\112\362\350 END CKA_CERT_MD5_HASH MULTILINE_OCTAL \353\365\235\051\015\141\371\102\037\174\302\272\155\343\025\011 **END** CKA ISSUER MULTILINE OCTAL \060\201\363\061\013\060\011\006\003\125\004\006\023\002\105\123 \061\073\060\071\006\003\125\004\012\023\062\101\147\145\156\143 \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 $\label{eq:120} \\ 120 \\ 165 \\ 142 \\ 154 \\ 151 \\ 143 \\ 163 \\ 040 \\ 144 \\ 145 \\ 040 \\ 103 \\ 145 \\ 162 \\ 164 \\ 151 \\ 164 \\ 151 \\ 164 \\ 151 \\ 164 \\ 151 \\ 164 \\ 151 \\ 164 \\ 151 \\ 164 \\ 151 \\ 164 \\$ \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 \145\162\164\151\146\151\143\141\143\151\157\040\103\141\164\141 \154\141\156\145\163\061\017\060\015\006\003\125\004\003\023\006 \105\103\055\101\103\103 **END** CKA SERIAL NUMBER MULTILINE OCTAL \002\020\356\053\075\353\324\041\336\024\250\142\254\004\363\335 \304\001 END CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST

CKA_TRUST_STEP_UP_APPROVED

CK_BBOOL CK_FALSE

#

Certificate "Actalis Authentication Root CA"

END CKA_VALUE MULTILINE_OCTAL \060\202\005\273\060\202\003\243\240\003\002\001\002\002\010\127 \012\021\227\102\304\343\314\060\015\006\011\052\206\110\206\367 \015\001\001\013\005\000\060\153\061\013\060\011\006\003\125\004 \006\023\002\111\124\061\016\060\014\006\003\125\004\007\014\005 \115\151\154\141\156\061\043\060\041\006\003\125\004\012\014\032 \101\143\164\141\154\151\163\040\123\056\160\056\101\056\057\060 \063\063\065\070\065\062\060\071\066\067\061\047\060\045\006\003 \125\004\003\014\036\101\143\164\141\154\151\163\040\101\165\164 $\label{eq:150} $$ 150\164\151\143\141\164\151\157\156\040\122\157\157\164$

CKA_ID UTF8 "0" CKA ISSUER MULTILINE OCTAL \060\153\061\013\060\011\006\003\125\004\006\023\002\111\124\061 \016\060\014\006\003\125\004\007\014\005\115\151\154\141\156\061 \043\060\041\006\003\125\004\012\014\032\101\143\164\141\154\151

\163\040\123\056\160\056\101\056\057\060\063\063\065\070\065\062 \060\071\066\067\061\047\060\045\006\003\125\004\003\014\036\101 \143\164\141\154\151\163\040\101\165\164\150\145\156\164\151\143

141164151157156040122157157164040103101

CKA SERIAL NUMBER MULTILINE OCTAL \002\010\127\012\021\227\102\304\343\314

END

\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**

\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

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509 CKA SUBJECT MULTILINE OCTAL

CKA_LABEL UTF8 "Actalis Authentication Root CA"

CKA MODIFIABLE CK BBOOL CK FALSE

Not Valid After : Sun Sep 22 11:22:02 2030

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

Issuer: CN=Actalis Authentication Root CA,O=Actalis S.p.A./03358520967,L=Milan,C=IT

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

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

Fingerprint (SHA-256):

\040\103\101\060\036\027\015\061\061\060\071\062\062\061\061\062 \062\060\062\132\027\015\063\060\060\071\062\062\061\061\062\062 \060\062\132\060\153\061\013\060\011\006\003\125\004\006\023\002 \111\124\061\016\060\014\006\003\125\004\007\014\005\115\151\154 \141\156\061\043\060\041\006\003\125\004\012\014\032\101\143\164 \141\154\151\163\040\123\056\160\056\101\056\057\060\063\063\065 \070\065\062\060\071\066\067\061\047\060\045\006\003\125\004\003 \014\036\101\143\164\141\154\151\163\040\101\165\164\150\145\156 \060\202\002\042\060\015\006\011\052\206\110\206\367\015\001\001 \001\005\000\003\202\002\017\000\060\202\002\012\002\202\002\001 \000\247\306\304\245\051\244\054\357\345\030\305\260\120\243\157 \121\073\237\012\132\311\302\110\070\012\302\034\240\030\177\221 \265\207\271\100\077\335\035\150\037\010\203\325\055\036\210\240 \370\217\126\217\155\231\002\222\220\026\325\137\010\154\211\327 \341\254\274\040\302\261\340\203\121\212\151\115\000\226\132\157 \057\300\104\176\243\016\344\221\315\130\356\334\373\307\036\105 \107\335\047\271\010\001\237\246\041\035\365\101\055\057\114\375 \050\255\340\212\255\042\264\126\145\216\206\124\217\223\103\051 \336\071\106\170\243\060\043\272\315\360\175\023\127\300\135\322 \203\153\110\114\304\253\237\200\132\133\072\275\311\247\042\077 \200\047\063\133\016\267\212\014\135\007\067\010\313\154\322\172 $\label{eq:107} $$ 107\042\104\065\305\314\314\056\216\335\052\355\267\175\146\015\$ \137\141\121\042\125\033\343\106\343\343\075\320\065\142\232\333 \257\024\310\133\241\314\211\033\341\060\046\374\240\233\037\201 \247\107\037\004\353\243\071\222\006\237\231\323\277\323\352\117 \120\234\031\376\226\207\036\074\145\366\243\030\044\203\206\020 \347\124\076\250\072\166\044\117\201\041\305\343\017\002\370\223 \224\107\040\273\376\324\016\323\150\271\335\304\172\204\202\343 \123\124\171\335\333\234\322\362\007\233\056\266\274\076\355\205 $\label{eq:155} $$ 155 357 045 021 362 227 032 102 141 367 112 227 350 213 261 020 $$$ \007\372\145\201\262\242\071\317\367\074\377\030\373\306\361\132 \213\131\342\002\254\173\222\320\116\024\117\131\105\366\014\136 \050\137\260\350\077\105\317\317\257\233\157\373\204\323\167\132 \225\157\254\224\204\236\356\274\300\112\217\112\223\370\104\041 \342\061\105\141\120\116\020\330\343\065\174\114\031\264\336\005 \277\243\006\237\310\265\315\344\037\327\027\006\015\172\225\164 $\label{eq:125} $$ 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 \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 $\label{eq:242} $$ \ 242\064\045\223\165\122\336\247\235\255\016\207\211\122\161\152\$ \026\074\031\035\203\370\232\051\145\276\364\077\232\331\360\363 \132\207\041\161\200\115\313\340\070\233\077\273\372\340\060\115 \317\206\323\145\020\031\030\321\227\002\261\053\162\102\150\254 \240\275\116\132\332\030\277\153\230\201\320\375\232\276\136\025 \110\315\021\025\271\300\051\134\264\350\210\367\076\066\256\267 $\label{eq:142} $$ 142\36\160\170\020\034\110\133\322\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 $\label{eq:206} \end{tabular} \end{tabular}$ \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} $$ 144\054\311\047\265\113\222\176\145\377\323\055\341\271\116\274$ \177\244\101\041\220\101\167\246\071\037\352\236\343\237\320\146 \157\005\354\252\166\176\277\153\026\240\353\265\307\374\222\124 \057\053\021\047\045\067\170\114\121\152\260\363\314\130\135\024 \361\152\110\025\377\302\007\266\261\215\017\216\134\120\106\263 \075\277\001\230\117\262\131\124\107\076\064\173\170\155\126\223 \056\163\352\146\050\170\315\035\024\277\240\217\057\056\270\056 $\label{eq:216} $$ \frac{216}{362} \frac{212}{314} \frac{351}{265} \frac{174}{373} \frac{154}{235} \frac{14}{245} \frac{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

#

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

 $\label{eq:2.1} \end{tabular} $$ 363\163\263\207\006\132\050\204\212\362\363\112\316\031\053\335 $$$

307 216 234 254

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL

 $\label{eq:151} $$ 151\005\100\243\033\303\376\126\075\004\274\021\366\246\ END $$$

CKA_ISSUER MULTILINE_OCTAL

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

END

CKA_SERIAL_NUMBER

MULTILINE_OCTAL

 $\label{eq:constraint} $$ 002\01\127\012\021\227\102\304\343\314 $$$

END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#

Certificate "Buypass Class 2 Root CA"

#

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

Serial Number: 2 (0x2)

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

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

Not Valid After :

Fri Oct 26 08:38:03 2040

Fingerprint (SHA-256):

9A:11:40:25:19:7C:5B:B9:5D:94:E6:3D:55:CD:43:79:08:47:B6:46:B2:3C:DF:11:AD:A4:A0:0E:FF:15:FB:48

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

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_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\062\040\122\157\157\164\040\103\101\060 \036\027\015\061\060\061\060\062\066\060\070\063\070\060\063\132 \027\015\064\060\061\060\062\066\060\070\063\070\060\063\132\060 \116\061\013\060\011\006\003\125\004\006\023\002\116\117\061\035 \060\033\006\003\125\004\012\014\024\102\165\171\160\141\163\163 \040\101\123\055\071\070\063\061\066\063\063\062\067\061\040\060 \036\006\003\125\004\003\014\027\102\165\171\160\141\163\163\040 \103\154\141\163\163\040\062\040\122\157\157\164\040\103\101\060 \202\002\042\060\015\006\011\052\206\110\206\367\015\001\001\001 \005\000\003\202\002\017\000\060\202\002\012\002\202\002\001\000 \327\307\136\367\301\007\324\167\373\103\041\364\364\365\151\344 \356\062\001\333\243\206\037\344\131\015\272\347\165\203\122\353 \352\034\141\025\110\273\035\007\312\214\256\260\334\226\235\352 \303\140\222\206\202\050\163\234\126\006\377\113\144\360\014\052 \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

END

MULTILINE_OCTAL \002\001\002

CKA SERIAL NUMBER

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 $\label{eq:103} \\ 103 \\ 154 \\ 141 \\ 163 \\ 163 \\ 040 \\ 062 \\ 040 \\ 122 \\ 157 \\ 157 \\ 164 \\ 040 \\ 103 \\ 101 \\$

CKA ID UTF8 "0"

END

CKA SUBJECT MULTILINE OCTAL \060\116\061\013\060\011\006\003\125\004\006\023\002\116\117\061 \035\060\033\006\003\125\004\012\014\024\102\165\171\160\141\163 \163\040\101\123\055\071\070\063\061\066\063\063\062\067\061\040 \060\036\006\003\125\004\003\014\027\102\165\171\160\141\163\163 \040\103\154\141\163\163\040\062\040\122\157\157\164\040\103\101

CKA LABEL UTF8 "Buypass Class 2 Root CA" CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA MODIFIABLE CK BBOOL CK FALSE

\341\046\031\131\300\044\272\201\161\171\220\104\120\150\044\224 \137\270\263\021\361\051\101\141\243\101\313\043\066\325\301\361 \062\120\020\116\177\364\206\223\354\204\323\216\274\113\277\134 \001\116\007\075\334\024\212\224\012\244\352\163\373\013\121\350 \023\007\030\372\016\361\053\321\124\025\175\074\341\367\264\031 \102\147\142\136\167\340\242\125\354\266\331\151\027\325\072\257 \104\355\112\305\236\344\172\047\174\345\165\327\252\313\045\347 \337\153\012\333\017\115\223\116\250\240\315\173\056\362\131\001 \152\267\015\270\007\201\176\213\070\033\070\346\012\127\231\075 \356\041\350\243\365\014\026\335\213\354\064\216\234\052\034\000 \025\027\215\150\203\322\160\237\030\010\315\021\150\325\311\153 $\label{eq:21} $$ 122\315\304\106\217\334\265\363\330\127\163\036\351\224\071\004$ \277\323\336\070\336\264\123\354\151\034\242\176\304\217\344\033 $\label{eq:25} \end{tabular} \end{tabular}$ \276\351\230\017\062\327\035\113\074\056\132\001\122\221\011\362 \337\352\215\330\006\100\143\252\021\344\376\303\067\236\024\122 \077\364\342\314\362\141\223\321\375\147\153\327\122\256\277\150 \253\100\103\240\127\065\123\170\360\123\370\141\102\007\144\306 $\label{eq:22} $$ 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 $\label{eq:260} \\ 046 \\ 260 \\ 165 \\ 136 \\ 173 \\ 264 \\ 007 \\ 040 \\ 230 \\ 241 \\ 166 \\ 062 \\ 270 \\ 115 \\ 154 \\ 117 \\ 117 \\ 154 \\ 117 \\ 117 \\ 154 \\ 117 \\ 117 \\ 117 \\ 117 \\ 117 \\ 117 \\ 117 \\$ \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 \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 $$$ \051\306\173\134\055\271\313\146\266\267\250\133\022\121\205\265 $\label{eq:11116} $$ 142\170\160\376\251\152\140\266\035\016\171\014\375\312 $$$ \352\044\200\162\303\227\077\362\167\253\103\042\012\307\353\266 \014\204\202\054\200\153\101\212\010\300\353\245\153\337\231\022 \313\212\325\136\200\014\221\340\046\010\066\110\305\372\070\021 \065\377\045\203\055\362\172\277\332\375\216\376\245\313\105\054 \037\304\210\123\256\167\016\331\232\166\305\216\054\035\243\272

\325\354\062\256\300\252\254\367\321\172\115\353\324\007\342\110 \367\042\216\260\244\237\152\316\216\262\262\140\364\243\042\320 \043\353\224\132\172\151\335\017\277\100\127\254\153\131\120\331 \243\231\341\156\376\215\001\171\047\043\025\336\222\235\173\011 \115\132\347\113\110\060\132\030\346\012\155\346\217\340\322\273 \346\337\174\156\041\202\301\150\071\115\264\230\130\146\142\314 \112\220\136\303\372\047\004\261\171\025\164\231\314\276\255\040 \336\046\140\034\353\126\121\246\243\352\344\243\077\247\377\141 \334\361\132\115\154\062\043\103\356\254\250\356\356\112\022\011 \074\135\161\302\276\171\372\302\207\150\035\013\375\134\151\314 \006\320\232\175\124\231\052\311\071\032\031\257\113\052\103\363 \143\135\132\130\342\057\343\035\344\251\326\320\012\320\236\277 \327\201\011\361\311\307\046\015\254\230\026\126\240 **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 \106\247\322\376\105\373\144\132\250\131\220\233\170\104\233\051 **END** CKA ISSUER MULTILINE OCTAL

 $\label{eq:starter} $$ $ 163 \ 116 \ 1013 \ 060 \ 11006 \ 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 \ 060 \ 036 \ 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 \ 062 \ 0$

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 ISSUER MULTILINE OCTAL \060\116\061\013\060\011\006\003\125\004\006\023\002\116\117\061 \035\060\033\006\003\125\004\012\014\024\102\165\171\160\141\163 \163\040\101\123\055\071\070\063\061\066\063\063\062\067\061\040 \060\036\006\003\125\004\003\014\027\102\165\171\160\141\163\163 \040\103\154\141\163\163\040\063\040\122\157\157\164\040\103\101 **END** CKA_SERIAL_NUMBER MULTILINE_OCTAL \002\001\002 **END** CKA_VALUE MULTILINE_OCTAL \060\202\005\131\060\202\003\101\240\003\002\001\002\002\001\002

\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 $\label{eq:103} \\ 103 \\ 154 \\ 141 \\ 163 \\ 163 \\ 040 \\ 063 \\ 040 \\ 122 \\ 157 \\ 157 \\ 164 \\ 040 \\ 103 \\ 101 \\ 060 \\ 103 \\ 101 \\ 060 \\ 103 \\ 101 \\ 100 \\ 103 \\ 101 \\ 100 \\ 103 \\ 101 \\ 100 \\$ \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 $\label{eq:144} $$ 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 \306\304\212\343\360\050\013\364\166\230\241\213\207\125\262\072 \023\374\267\076\047\067\216\042\343\250\117\052\357\140\273\075 \267\071\303\016\001\107\231\135\022\117\333\103\372\127\241\355 \371\235\276\021\107\046\133\023\230\253\135\026\212\260\067\034 \127\235\105\377\210\226\066\277\273\312\007\173\157\207\143\327 \320\062\152\326\135\154\014\361\263\156\071\342\153\061\056\071 \000\047\024\336\070\300\354\031\146\206\022\350\235\162\026\023 \144\122\307\251\067\034\375\202\060\355\204\030\035\364\256\134 \377\160\023\000\353\261\365\063\172\113\326\125\370\005\215\113 \151\260\365\263\050\066\134\024\304\121\163\115\153\013\361\064 \007\333\027\071\327\334\050\173\153\365\237\363\056\301\117\027 \052\020\363\314\312\350\353\375\153\253\056\232\237\055\202\156 \004\324\122\001\223\055\075\206\374\176\374\337\357\102\035\246 \153\357\271\040\306\367\275\240\247\225\375\247\346\211\044\330 \314\214\064\154\342\043\057\331\022\032\041\271\125\221\157\013 \221\171\031\014\255\100\210\013\160\342\172\322\016\330\150\110 \273\202\023\071\020\130\351\330\052\007\306\022\333\130\333\322 \067\132\045\320\010\022\167\324\157\011\120\227\075\310\035\303 \337\214\105\060\126\306\323\144\253\146\363\300\136\226\234\303 \304\357\303\174\153\213\072\171\177\263\111\317\075\342\211\237 \240\060\113\205\271\234\224\044\171\217\175\153\251\105\150\017 \053\320\361\332\034\313\151\270\312\111\142\155\310\320\143\142 \335\140\017\130\252\217\241\274\005\245\146\242\317\033\166\262 \204\144\261\114\071\122\300\060\272\360\214\113\002\260\266\267 \002\003\001\000\001\243\102\060\100\060\017\006\003\125\035\023 \001\001\377\004\005\060\003\001\001\377\060\035\006\003\125\035

\016\004\026\004\024\107\270\315\377\345\157\356\370\262\354\057 \116\016\371\045\260\216\074\153\303\060\016\006\003\125\035\017 \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 \362\074\370\012\237\330\201\345\273\133\332\045\054\244\247\125 $\label{eq:161} $$ 161\044\062\366\310\013\362\274\152\370\223\254\262\007\302\137\$ $\label{eq:237} 333 314 310 212 252 276 152 157 341 111 020 314 061 327 200$ \273\273\310\330\242\016\144\127\352\242\365\302\251\061\025\322 \074\362\026\263\107\235\374\322\200\041\304\313\320\107\160\101 \241\312\203\031\010\054\155\362\135\167\234\212\024\023\324\066 \034\222\360\345\006\067\334\246\346\220\233\070\217\134\153\033 $\label{eq:106} $$ 106 \ 103 \ 102 \ 137 \ 076 \ 001 \ 007 \ 123 \ 124 \ 135 \ 145 \ 175 \ 367 \ 212 \ 163 \ 163 \ 165$ \241\232\124\132\037\051\103\024\047\302\205\017\265\210\173\032 $\label{eq:23} \end{tabular} 1073 \end{tabular} 224 \end{tabular} 267 \end{tabular} 140 \end{tabular} 247 \end{tabular} 265 \end{tabular} 234 \end{tabular} 347 \end{tabular} 051 \end{tabular} 151 \end{tabular} 127 \end{tabular} 132 \end{tabular} 233 \end{tabular} 172 \end{tabular} 127 \end{tabular}$ \103\060\033\003\327\142\310\100\246\252\374\144\344\112\327\221 \123\001\250\040\210\156\234\137\104\271\313\140\201\064\354\157 \323\175\332\110\137\353\264\220\274\055\251\034\013\254\034\325 \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 $\label{eq:166} $$ 166\143\112\172\100\145\223\207\370\036\200\214\206\345\206\326\$ \217\016\374\123\054\140\350\026\141\032\242\076\103\173\315\071 \140\124\152\365\362\211\046\001\150\203\110\242\063\350\311\004 \221\262\021\064\021\076\352\320\103\031\037\003\223\220\014\377 \121\075\127\364\101\156\341\313\240\276\353\311\143\315\155\314 \344\370\066\252\150\235\355\275\135\227\160\104\015\266\016\065 \334\341\014\135\273\240\121\224\313\176\026\353\021\057\243\222 \105\310\114\161\331\274\311\231\122\127\106\057\120\317\275\065 $\label{eq:151} $$ 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):

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

 $\label{eq:332} 372 367 372 146 204 354 006 217 024 120 275 307 302 201 245$

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL

\075\073\030\236\054\144\132\350\325\210\316\016\371\067\302\354 END

CKA_ISSUER MULTILINE_OCTAL

\060\116\061\013\060\011\006\003\125\004\006\023\002\116\117\061 \035\060\033\006\003\125\004\012\014\024\102\165\171\160\141\163 \163\040\101\123\055\071\070\063\061\066\063\063\062\067\061\040 \060\036\006\003\125\004\003\014\027\102\165\171\160\141\163\163 \040\103\154\141\163\163\040\063\040\122\157\157\164\040\103\101 END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

002 001 002

END

CKA_TRUST_SERVER_AUTH

CK_TRUST CKT_NSS_TRUSTED_DELEGATOR

CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST

CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST

- CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
- #

Certificate "T-TeleSec GlobalRoot Class 3"

#

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

Serial Number: 1 (0x1)

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

Not Valid Before: Wed Oct 01 10:29:56 2008

Not Valid After : Sat Oct 01 23:59:59 2033

Fingerprint (SHA-256):

FD:73:DA:D3:1C:64:4F:F1:B4:3B:EF:0C:CD:DA:96:71:0B:9C:D9:87:5E:CA:7E:31:70:7A:F3:E9:6D:52:2B:BD

Fingerprint (SHA1): 55:A6:72:3E:CB:F2:EC:CD:C3:23:74:70:19:9D:2A:BE:11:E3:81:D1

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

END CKA VALUE MULTILINE OCTAL \060\202\003\303\060\202\002\253\240\003\002\001\002\002\001\001 \060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060 \201\202\061\013\060\011\006\003\125\004\006\023\002\104\105\061 \053\060\051\006\003\125\004\012\014\042\124\055\123\171\163\164 \145\155\163\040\105\156\164\145\162\160\162\151\163\145\040\123 \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 $\label{eq:143} \\ 143 \\ 107 \\ 154 \\ 157 \\ 142 \\ 141 \\ 154 \\ 122 \\ 157 \\ 157 \\ 164 \\ 040 \\ 103 \\ 154 \\ 141 \\ 141 \\ 154 \\ 122 \\ 157 \\ 164 \\ 040 \\ 103 \\ 154 \\ 141 \\ 141 \\ 154 \\ 122 \\ 157 \\ 164 \\ 104 \\ 103 \\ 154 \\ 141 \\ 141 \\ 154 \\ 122 \\ 157 \\ 164 \\ 104 \\ 103 \\ 154 \\ 141 \\$ \163\163\040\063\060\036\027\015\060\070\061\060\060\061\061\060 \062\071\065\066\132\027\015\063\063\061\060\060\061\062\063\065 \071\065\071\132\060\201\202\061\013\060\011\006\003\125\004\006 \023\002\104\105\061\053\060\051\006\003\125\004\012\014\042\124 \055\123\171\163\164\145\155\163\040\105\156\164\145\162\160\162 $\label{eq:151} $$ 151\163\145\040\123\145\162\166\151\143\145\163\040\107\155\142 $$

\002\001\001

MULTILINE OCTAL

CKA_SERIAL_NUMBER

END

\141\163\163\040\063

\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 \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 \060\043\006\003\125\004\003\014\034\124\055\124\145\154\145\123

END CKA ID UTF8 "0"

\141\163\163\040\063

\060\043\006\003\125\004\003\014\034\124\055\124\145\154\145\123

CKA_ISSUER MULTILINE_OCTAL

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509 CKA SUBJECT MULTILINE OCTAL

\060\201\202\061\013\060\011\006\003\125\004\006\023\002\104\105 \061\053\060\051\006\003\125\004\012\014\042\124\055\123\171\163 \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

CKA LABEL UTF8 "T-TeleSec GlobalRoot Class 3"

\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 \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} $$ 104\274\223\075\141\253\116\315\015\276\360\040\047\130\016\104\$ \177\004\032\207\245\327\226\024\066\220\320\111\173\241\165\373 \032\153\163\261\370\316\251\011\054\362\123\325\303\024\104\270 \206\245\366\213\053\071\332\243\063\124\331\372\162\032\367\042 \025\034\210\221\153\177\146\345\303\152\200\260\044\363\337\206 \105\210\375\031\177\165\207\037\037\261\033\012\163\044\133\271 $\label{eq:145} $$ 145\340\054\124\310\140\323\146\027\077\341\314\124\063\163\221 $$$ \002\072\246\177\173\166\071\242\037\226\266\070\256\265\310\223 \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 $\label{eq:2.1} \end{tabular} \label{eq:2.2} \end{tabular} \end{tabular$ \332\322\171\311\363\227\051\340\206\207\336\004\131\017\361\131 \324\144\205\113\231\257\045\004\036\311\106\251\227\336\202\262 \033\160\237\234\366\257\161\061\335\173\005\245\054\323\271\312 \107\366\312\362\366\347\255\271\110\077\274\026\267\301\155\364 \352\011\257\354\363\265\347\005\236\246\036\212\123\121\326\223 \201\314\164\223\366\271\332\246\045\005\164\171\132\176\100\076 \202\113\046\021\060\156\341\077\101\307\107\000\065\325\365\323 \367\124\076\201\075\332\111\152\232\263\357\020\075\346\353\157 \321\310\042\107\313\314\317\001\061\222\331\030\343\042\276\011 \036\032\076\132\262\344\153\014\124\172\175\103\116\270\211\245 \173\327\242\075\226\206\314\362\046\064\055\152\222\235\232\032 \320\060\342\135\116\004\260\137\213\040\176\167\301\075\225\202 \321\106\232\073\074\170\270\157\241\320\015\144\242\170\036\051 \116\223\303\244\124\024\133 END

CKA_NSS_MOZILLA_CA_POLICY

CK_BBOOL CK_TRUE CKA_NSS_SERVER_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

 $\label{eq:246} $$ 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

\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

```
Open Source Used In vmoperator Crafton-3.0 740
```

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 \014\036\104\055\124\122\125\123\124\040\122\157\157\164\040\103 \154\141\163\163\040\063\040\103\101\040\062\040\062\060\060\071 \060\036\027\015\060\071\061\061\060\065\060\070\063\065\065\070 \132\027\015\062\071\061\061\060\065\060\070\063\065\065\070\132 \060\115\061\013\060\011\006\003\125\004\006\023\002\104\105\061 \025\060\023\006\003\125\004\012\014\014\104\055\124\162\165\163

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 \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

\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"

\060\115\061\013\060\011\006\003\125\004\006\023\002\104\105\061

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

Issuer: CN=D-TRUST Root Class 3 CA 2 2009,O=D-Trust GmbH,C=DE

Subject: CN=D-TRUST Root Class 3 CA 2 2009,O=D-Trust GmbH,C=DE

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 SUBJECT MULTILINE OCTAL

CKA LABEL UTF8 "D-TRUST Root Class 3 CA 2 2009"

CKA TOKEN CK BBOOL CK TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

Certificate "D-TRUST Root Class 3 CA 2 2009"

Not Valid Before: Thu Nov 05 08:35:58 2009 # Not Valid After : Mon Nov 05 08:35:58 2029

Serial Number: 623603 (0x983f3)

Fingerprint (SHA-256):

#

CKA_MODIFIABLE CK_BBOOL CK_FALSE

\164\040\107\155\142\110\061\047\060\045\006\003\125\004\003\014 \036\104\055\124\122\125\123\124\040\122\157\157\164\040\103\154 \141\163\163\040\063\040\103\101\040\062\040\062\060\060\071\060 \202\001\042\060\015\006\011\052\206\110\206\367\015\001\001\001 \005\000\003\202\001\017\000\060\202\001\012\002\202\001\001\000 \323\262\112\317\172\107\357\165\233\043\372\072\057\326\120\105 \211\065\072\306\153\333\376\333\000\150\250\340\003\021\035\067 \120\010\237\115\112\150\224\065\263\123\321\224\143\247\040\126 $\label{eq:257} $$ $$ 257 36 121 170 354 052 075 363 110 120 076 012 337 106 125 $$$ \213\047\155\303\020\115\015\221\122\103\330\207\340\135\116\066 \265\041\312\137\071\100\004\137\133\176\314\243\306\053\251\100 \036\331\066\204\326\110\363\222\036\064\106\040\044\301\244\121 \216\112\032\357\120\077\151\135\031\177\105\303\307\001\217\121 \311\043\350\162\256\264\274\126\011\177\022\313\034\261\257\051 \220\012\311\125\314\017\323\264\032\355\107\065\132\112\355\234 \163\004\041\320\252\275\014\023\265\000\312\046\154\304\153\014 $\label{eq:224} $$ $$ 225 $$ 224 $$ 32 $$ 20 $$ 232 $$ 61 $$ 377 $$ 245 $$ 053 $$ 146 $$ 061 $$ 244 $$ 311 $$ 070 $$ 166$ \240\337\035\037\270\011\056\363\247\350\147\122\253\225\037\340 \106\076\330\244\303\312\132\305\061\200\350\110\232\237\224\151 \376\031\335\330\163\174\201\312\226\336\216\355\263\062\005\145 \204\064\346\346\375\127\020\265\137\166\277\057\260\020\015\305 \002\003\001\000\001\243\202\001\032\060\202\001\026\060\017\006 \003\125\035\023\001\001\377\004\005\060\003\001\001\377\060\035 \006\003\125\035\016\004\026\004\024\375\332\024\304\237\060\336 \041\275\036\102\071\374\253\143\043\111\340\361\204\060\016\006 \003\125\035\017\001\001\377\004\003\002\001\006\060\201\323 \006\003\125\035\037\004\201\313\060\201\310\060\201\200\240\176 \240\174\206\172\154\144\141\160\072\057\057\144\151\162\145\143 \164\157\162\171\056\144\055\164\162\165\163\164\056\156\145\164 \057\103\116\075\104\055\124\122\125\123\124\045\062\060\122\157 \157\164\045\062\060\103\154\141\163\163\045\062\060\063\045\062 \060\103\101\045\062\060\062\045\062\060\062\060\060\071\054\117 \075\104\055\124\162\165\163\164\045\062\060\107\155\142\110\054 $\label{eq:103}075\104\105\077\143\145\162\164\151\146\151\143\141\164\145$ \162\145\166\157\143\141\164\151\157\156\154\151\163\164\060\103 \240\101\240\077\206\075\150\164\164\160\072\057\057\167\167\167 \056\144\055\164\162\165\163\164\056\156\145\164\057\143\162\154 \143\162\154\060\015\006\011\052\206\110\206\367\015\001\001\013 \005\000\003\202\001\001\000\177\227\333\060\310\337\244\234\175 \041\172\200\160\316\024\022\151\210\024\225\140\104\001\254\262 \351\060\117\233\120\302\146\330\176\215\060\265\160\061\351\342 \151\307\363\160\333\040\025\206\320\015\360\276\254\001\165\204 \316\176\237\115\277\267\140\073\234\363\312\035\342\136\150\330 \243\235\227\345\100\140\322\066\041\376\320\264\270\027\332\164 \243\177\324\337\260\230\002\254\157\153\153\054\045\044\162\241 $\label{eq:145} $$ 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 $\label{eq:223} \end{tabular} 1074 \end{tabular} 225 \end{tabular} 246 \end{tabular} 153 \end{tabular} 015 \end{tabular} 340 \end{tabular} 223 \end{tabular} 230 \end{tabular} 140 \end{tabular} 256 \end{tabular} 176 \end{tabular} 306 \end{tabular} 044 \end{tabular} 227 \end{tabular} 1074 \end{tabu$ \212\141\137\221\216\146\222\011\207\066\315\213\233\055\076\366 \121\324\120\324\131\050\275\203\362\314\050\173\123\206\155\330 \046\210\160\327\352\221\315\076\271\312\300\220\156\132\306\136 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 \130\350\253\260\066\025\063\373\200\367\233\033\155\051\323\377 \215\137\000\360 END CKA CERT MD5 HASH MULTILINE OCTAL \315\340\045\151\215\107\254\234\211\065\220\367\375\121\075\057 END CKA_ISSUER MULTILINE_OCTAL \060\115\061\013\060\011\006\003\125\004\006\023\002\104\105\061 \025\060\023\006\003\125\004\012\014\014\104\055\124\162\165\163 \164\040\107\155\142\110\061\047\060\045\006\003\125\004\003\014 \036\104\055\124\122\125\123\124\040\122\157\157\164\040\103\154 \141\163\163\040\063\040\103\101\040\062\040\062\060\060\071 **END** CKA_SERIAL_NUMBER MULTILINE_OCTAL \002\003\011\203\363 END CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR

Issuer: CN=D-TRUST Root Class 3 CA 2 EV 2009,O=D-Trust GmbH,C=DE # Serial Number: 623604 (0x983f4) # Subject: CN=D-TRUST Root Class 3 CA 2 EV 2009,O=D-Trust GmbH,C=DE # Not Valid Before: Thu Nov 05 08:50:46 2009 # Not Valid After : Mon Nov 05 08:50:46 2029 # Fingerprint (SHA-256): EE:C5:49:6B:98:8C:E9:86:25:B9:34:09:2E:EC:29:08:BE:D0:B0:F3:16:C2:D4:73:0C:84:EA:F1:F3:D3:48:81 # Fingerprint (SHA1): 96:C9:1B:0B:95:B4:10:98:42:FA:D0:D8:22:79:FE:60:FA:B9:16:83 CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE CKA TOKEN CK BBOOL CK TRUE CKA PRIVATE CK BBOOL CK FALSE CKA_MODIFIABLE CK_BBOOL CK_FALSE CKA LABEL UTF8 "D-TRUST Root Class 3 CA 2 EV 2009" CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509 CKA_SUBJECT MULTILINE_OCTAL \060\120\061\013\060\011\006\003\125\004\006\023\002\104\105\061 \025\060\023\006\003\125\004\012\014\014\104\055\124\162\165\163 \164\040\107\155\142\110\061\052\060\050\006\003\125\004\003\014 \041\104\055\124\122\125\123\124\040\122\157\157\164\040\103\154 \141\163\163\040\063\040\103\101\040\062\040\105\126\040\062\060 \060\071 **END** CKA_ID UTF8 "0" CKA ISSUER MULTILINE OCTAL \060\120\061\013\060\011\006\003\125\004\006\023\002\104\105\061 \025\060\023\006\003\125\004\012\014\014\104\055\124\162\165\163 \164\040\107\155\142\110\061\052\060\050\006\003\125\004\003\014 \041\104\055\124\122\125\123\124\040\122\157\157\164\040\103\154 \141\163\163\040\063\040\103\101\040\062\040\105\126\040\062\060 \060\071 **END** CKA_SERIAL_NUMBER MULTILINE_OCTAL \002\003\011\203\364 END CKA_VALUE MULTILINE_OCTAL \060\202\004\103\060\202\003\053\240\003\002\001\002\002\003\011 \203\364\060\015\006\011\052\206\110\206\367\015\001\001\013\005 \000\060\120\061\013\060\011\006\003\125\004\006\023\002\104\105 \061\025\060\023\006\003\125\004\012\014\014\104\055\124\162\165

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"

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Open Source Used In vmoperator Crafton-3.0 743

\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 \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 $\label{eq:216} $$ 174\004\317\276\142\274\231\375\202\227\322\172\012\147\$ \226\070\011\366\020\116\225\042\163\231\215\332\025\055\347\005 \374\031\163\042\267\216\230\000\274\074\075\254\241\154\373\326 \171\045\113\255\360\314\144\332\210\076\051\270\017\011\323\064 \335\063\365\142\321\341\315\031\351\356\030\117\114\130\256\342 \036\326\014\133\025\132\330\072\270\304\030\144\036\343\063\262 \265\211\167\116\014\277\331\224\153\023\227\157\022\243\376\231 \251\004\314\025\354\140\150\066\355\010\173\267\365\277\223\355 \146\061\203\214\306\161\064\207\116\027\352\257\213\221\215\034 $\label{eq:126} $$ 126 101 256 042 067 136 067 362 035 331 321 055 015 057 151 121 $$$ \247\276\146\246\212\072\052\275\307\032\261\341\024\360\276\072 \035\271\317\133\261\152\376\264\261\106\040\242\373\036\073\160 \357\223\230\175\214\163\226\362\305\357\205\160\255\051\046\374 \036\004\076\034\240\330\017\313\122\203\142\174\356\213\123\225 \220\251\127\242\352\141\005\330\371\115\304\047\372\156\255\355 \371\327\121\367\153\245\002\003\001\000\001\243\202\001\044\060 \202\001\040\060\017\006\003\125\035\023\001\001\377\004\005\060 \003\001\001\377\060\035\006\003\125\035\016\004\026\004\024\323 \224\212\114\142\023\052\031\056\314\257\162\212\175\066\327\232 \034\334\147\060\016\006\003\125\035\017\001\001\377\004\004\003 \002\001\006\060\201\335\006\003\125\035\037\004\201\325\060\201 \322\060\201\207\240\201\204\240\201\201\206\177\154\144\141\160 \072\057\057\144\151\162\145\143\164\157\162\171\056\144\055\164 \162\165\163\164\056\156\145\164\057\103\116\075\104\055\124\122 \163\163\045\062\060\063\045\062\060\103\101\045\062\060\062\045 \062\060\105\126\045\062\060\062\060\060\071\054\117\075\104\055 \124\162\165\163\164\045\062\060\107\155\142\110\054\103\075\104 \105\077\143\145\162\164\151\146\151\143\141\164\145\162\145\166 $\label{eq:157} $$ 157\143\141\164\151\157\156\154\151\163\164\060\106\240\104\240$ \102\206\100\150\164\164\160\072\057\057\167\167\167\056\144\055 \137\063\137\143\141\137\062\137\145\166\137\062\060\060\071\056 \143\162\154\060\015\006\011\052\206\110\206\367\015\001\001\013

\005\000\003\202\001\001\000\064\355\173\132\074\244\224\210\357 \032\021\165\007\057\263\376\074\372\036\121\046\353\207\366\051 \336\340\361\324\306\044\011\351\301\317\125\033\264\060\331\316 \032\376\006\121\246\025\244\055\357\262\113\277\040\050\045\111 \321\246\066\167\064\350\144\337\122\261\021\307\163\172\315\071 \236\302\255\214\161\041\362\132\153\257\337\074\116\125\257\262 $\label{eq:204} $$ \204\145\024\211\271\167\313\052\061\276\317\243\155\317\157\110$ \224\062\106\157\347\161\214\240\246\204\031\067\007\362\003\105 \011\053\206\165\174\337\137\151\127\000\333\156\330\246\162\042 \113\120\324\165\230\126\337\267\030\377\103\103\120\256\172\104 \306\227\206\320\202\303\344\102\155\376\260\342\144\116\016\046 \347\100\064\046\265\010\211\327\010\143\143\070\047\165\036\063 \352\156\250\335\237\231\117\164\115\201\211\200\113\335\232\227 \051\134\057\276\201\101\271\214\377\352\175\140\006\236\315\327 \075\323\056\243\025\274\250\346\046\345\157\303\334\270\003\041 \352\237\026\361\054\124\265

END

CKA_NSS_MOZILLA_CA_POLICY

CK_BBOOL CK_TRUE

CKA_NSS_SERVER_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):

EE:C5:49:6B:98:8C:E9:86:25:B9:34:09:2E:EC:29:08:BE:D0:B0:F3:16:C2:D4:73:0C:84:EA:F1:F3:D3:48:81

Fingerprint (SHA1): 96:C9:1B:0B:95:B4:10:98:42:FA:D0:D8:22:79:FE:60:FA:B9:16:83

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "D-TRUST Root Class 3 CA 2 EV 2009"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL

 $\label{eq:226} $$ $$ 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

 $\label{eq:2.163} \end{tabular} \end{tabula$

\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\040\063\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"

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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):

Fingerprint (SHA1): B5:61:EB:EA:A4:DE:E4:25:4B:69:1A:98:A5:57:47:C2:34:C7:D9:71

CKA_CLASS

CK_OBJECT_CLASS CKO_CERTIFICATE

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "CA Disig Root R2"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL

\060\122\061\013\060\011\006\003\125\004\006\023\002\123\113\061

\023\060\021\006\003\125\004\007\023\012\102\162\141\164\151\163

\154\141\166\141\061\023\060\021\006\003\125\004\012\023\012\104

\151\163\151\147\040\141\056\163\056\061\031\060\027\006\003\125

\004\003\023\020\103\101\040\104\151\163\151\147\040\122\157\157

\164\040\122\062

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

END CKA VALUE MULTILINE OCTAL \060\202\005\151\060\202\003\121\240\003\002\001\002\002\011\000 \222\270\210\333\260\212\301\143\060\015\006\011\052\206\110\206 $\label{eq:2.1} \end{tabular} \label{eq:2.1} \end{tabular} \end{tabular$ \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 \061\031\060\027\006\003\125\004\003\023\020\103\101\040\104\151 \163\151\147\040\122\157\157\164\040\122\062\060\036\027\015\061 \062\060\067\061\071\060\071\061\065\063\060\132\027\015\064\062 \060\067\061\071\060\071\061\065\063\060\132\060\122\061\013\060 \011\006\003\125\004\006\023\002\123\113\061\023\060\021\006\003 $\label{eq:2.125} 004 007 023 012 102 162 141 164 151 163 154 141 166 141 061$ \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 $\label{eq:2.16} \end{tabular} \end{tabular$ \253\171\130\074\332\377\174\034\237\330\227\002\170\076\153\101 \004\351\101\275\276\003\054\105\366\057\144\324\253\135\243\107 \075\144\233\351\150\232\306\314\033\077\272\276\262\213\064\002 \056\230\125\031\374\214\157\252\137\332\114\316\115\003\041\243 \330\322\064\223\126\226\313\114\014\000\026\074\137\032\315\310 \307\154\246\255\323\061\247\274\350\345\341\146\326\322\373\003 \264\101\145\311\020\256\016\005\143\306\200\152\151\060\375\322 \356\220\357\015\047\337\237\225\163\364\341\045\332\154\026\336 \101\070\064\352\213\374\321\350\004\024\141\055\101\176\254\307 \167\116\313\121\124\373\136\222\030\033\004\132\150\306\311\304 \372\267\023\240\230\267\021\053\267\326\127\314\174\236\027\321 \313\045\376\206\116\044\056\126\014\170\115\236\001\022\246\053 $\label{eq:247} $$ $$ 247 001 145 156 174 142 035 204 204 337 352 300 153 265 245 052 $$$ \225\203\303\123\021\014\163\035\013\262\106\220\321\102\072\316 $\label{eq:100} $$ 100\156\225\255\377\306\224\255\156\227\204\216\175\157\236\212 $$$ \200\015\111\155\163\342\173\222\036\303\363\301\363\353\056\005 \157\331\033\317\067\166\004\310\264\132\344\027\247\313\335\166 \037\320\031\166\350\054\005\263\326\234\064\330\226\334\141\207 \221\005\344\104\010\063\301\332\271\010\145\324\256\262\066\015 \353\272\070\272\014\345\233\236\353\215\146\335\231\317\326\211 \101\366\004\222\212\051\051\155\153\072\034\347\165\175\002\161 \016\363\300\347\275\313\031\335\235\140\262\302\146\140\266\261 \004\356\311\346\206\271\232\146\100\250\347\021\355\201\105\003

CKA_SERIAL_NUMBER

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

END

\213\366\147\131\350\301\006\021\275\335\317\200\002\117\145\100 \170\134\107\120\310\233\346\037\201\173\344\104\250\133\205\232 \342\336\132\325\307\371\072\104\146\113\344\062\124\174\344\154 \234\263\016\075\027\242\262\064\022\326\176\262\250\111\273\321 \172\050\100\276\242\026\037\337\344\067\037\021\163\373\220\012 \145\103\242\015\174\370\006\001\125\063\175\260\015\270\364\365 \256\245\102\127\174\066\021\214\173\136\304\003\235\214\171\235 \002\003\001\000\001\243\102\060\100\060\017\006\003\125\035\023 \001\001\377\004\005\060\003\001\001\377\060\016\006\003\125\035 \017\001\001\377\004\003\002\001\006\060\035\006\003\125\035 \016\004\026\004\024\265\231\370\257\260\224\365\343\040\326\012 \255\316\116\126\244\056\156\102\355\060\015\006\011\052\206\110 \206\367\015\001\001\013\005\000\003\202\002\001\000\046\006\136 \160\347\145\063\310\202\156\331\234\027\072\033\172\146\262\001 \264\044\022\212\175\155\021\024\367\234\265\312\346\274\236\047 \216\114\031\310\251\275\172\300\327\066\016\155\205\162\156\250 \306\242\155\366\372\163\143\177\274\156\171\010\034\235\212\237 \032\212\123\246\330\273\331\065\125\261\021\305\251\003\263\126 $\label{eq:2.12} $$ 073\271\204\223\042\136\176\301\366\022\122\213\352\054\147\274$ \376\066\114\365\270\317\321\263\111\222\073\323\051\016\231\033 \226\367\141\270\073\304\053\266\170\154\264\043\157\360\375\323 \262\136\165\037\231\225\250\254\366\332\341\305\061\173\373\321 $\label{eq:263} $$ 106\263\322\274\147\264\142\124\272\011\367\143\260\223\242\232\$ \371\351\122\056\213\140\022\253\374\365\140\126\357\020\134\213 \304\032\102\334\203\133\144\016\313\265\274\326\117\301\174\074 \156\215\023\155\373\173\353\060\320\334\115\257\305\325\266\245 $\label{eq:114} $$ 114\3\161\311\350\061\276\350\070\006\110\241\032\342\352\322\$ \336\022\071\130\032\377\200\016\202\165\346\267\311\007\154\016 \357\377\070\361\230\161\304\267\177\016\025\320\045\151\275\042 \235\053\355\005\366\106\107\254\355\300\360\324\073\342\354\356 \226\133\220\023\116\036\126\072\353\260\357\226\273\226\043\021 \272\362\103\206\164\144\225\310\050\165\337\035\065\272\322\067 \203\070\123\070\066\073\317\154\351\371\153\016\320\373\004\350 $\label{eq:117} $$ 117 167 327 145 001 170 206 014 172 076 041 142 361 177 143 161 $$$ \014\311\237\104\333\250\047\242\165\276\156\201\076\327\300\353 \033\230\017\160\134\064\262\212\314\300\205\030\353\156\172\263 \367\132\241\007\277\251\102\222\363\140\042\227\344\024\241\007 \233\116\166\300\216\175\375\244\045\307\107\355\377\037\163\254 \314\303\245\351\157\012\216\233\145\302\120\205\265\243\240\123 \075\164\317\176\044\065\372\034\007\016\233\075\042\312\357\061 \057\214\254\022\275\357\100\050\374\051\147\237\262\023\117\146 \044\304\123\031\351\036\051\025\357\346\155\260\177\055\147\375 \363\154\033\165\106\243\345\112\027\351\244\327\013 END

CKA_NSS_MOZILLA_CA_POLICY

CK_BBOOL CK_TRUE CKA_NSS_SERVER_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):

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

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

 $\label{eq:sphere:sphe$

164040122062

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

 $\label{eq:local_$

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

\060\102\061\022\060\020\006\003\125\004\003\014\011\101\103\103 \126\122\101\111\132\061\061\020\060\016\006\003\125\004\013\014 \007\120\113\111\101\103\103\126\061\015\060\013\006\003\125\004 \012\014\004\101\103\103\126\061\013\060\011\006\003\125\004\006 \023\002\105\123

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

002 010 136 303 267 246 103 177 244 340

END

CKA_VALUE MULTILINE_OCTAL

\060\202\007\323\060\202\005\273\240\003\002\001\002\002\010\136 \303\267\246\103\177\244\340\060\015\006\011\052\206\110\206\367 \015\001\001\005\005\000\060\102\061\022\060\020\006\003\125\004 \003\014\011\101\103\103\126\122\101\111\132\061\061\020\060\016 $\label{eq:2.1} \end{tabular} \end{tabular}$ \060\013\006\003\125\004\012\014\004\101\103\103\126\061\013\060 \011\006\003\125\004\006\023\002\105\123\060\036\027\015\061\061 \060\065\060\065\060\071\063\067\063\067\132\027\015\063\060\061 \062\063\061\060\071\063\067\063\067\132\060\102\061\022\060\020 \006\003\125\004\003\014\011\101\103\103\126\122\101\111\132\061 \061\020\060\016\006\003\125\004\013\014\007\120\113\111\101\103 \103\126\061\015\060\013\006\003\125\004\012\014\004\101\103\103 \126\061\013\060\011\006\003\125\004\006\023\002\105\123\060\202 \002\042\060\015\006\011\052\206\110\206\367\015\001\001\001\005 \000\003\202\002\017\000\060\202\002\012\002\202\002\001\000\233 \251\253\277\141\112\227\257\057\227\146\232\164\137\320\331\226

\375\317\342\344\146\357\037\037\107\063\302\104\243\337\232\336 \037\265\124\335\025\174\151\065\021\157\273\310\014\216\152\030 \036\330\217\331\026\274\020\110\066\134\360\143\263\220\132\134 \044\067\327\243\326\313\011\161\271\361\001\162\204\260\175\333 \115\200\315\374\323\157\311\370\332\266\016\202\322\105\205\250 \033\150\250\075\350\364\104\154\275\241\302\313\003\276\214\076 \023\000\204\337\112\110\300\343\042\012\350\351\067\247\030\114 \261\011\015\043\126\177\004\115\331\027\204\030\245\310\332\100 \224\163\353\316\016\127\074\003\201\072\235\012\241\127\103\151 \254\127\155\171\220\170\345\265\264\073\330\274\114\215\050\241 \247\243\247\272\002\116\045\321\052\256\355\256\003\042\270\153 \040\017\060\050\124\225\177\340\356\316\012\146\235\321\100\055 \156\042\257\235\032\301\005\031\322\157\300\362\237\370\173\263 \002\102\373\120\251\035\055\223\017\043\253\306\301\017\222\377 \320\242\025\365\123\011\161\034\377\105\023\204\346\046\136\370 \340\210\034\012\374\026\266\250\163\006\270\360\143\204\002\240 \306\132\354\347\164\337\160\256\243\203\045\352\326\307\227\207 \223\247\306\212\212\063\227\140\067\020\076\227\076\156\051\025 \326\241\017\321\210\054\022\237\157\252\244\306\102\353\101\242 \343\225\103\323\001\205\155\216\273\073\363\043\066\307\376\073 \340\241\045\007\110\253\311\211\164\377\010\217\200\277\300\226 \145\363\356\354\113\150\275\235\210\303\061\263\100\361\350\317 \366\070\273\234\344\321\177\324\345\130\233\174\372\324\363\016 \233\165\221\344\272\122\056\031\176\321\365\315\132\031\374\272 \006\366\373\122\250\113\231\004\335\370\371\264\213\120\243\116 \142\211\360\207\044\372\203\102\301\207\372\325\055\051\052\132 $\label{eq:161} $$ 161\172\144\152\327\047\140\143\015\333\316\111\365\215\037\220 $$$ $\label{eq:211} 062 027 370 163 103 270 322 132 223 206 141 326 341 165 012$ \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 \003\001\000\001\243\202\002\313\060\202\002\307\060\175\006\010 \053\006\001\005\005\007\001\001\004\161\060\157\060\114\006\010 \053\006\001\005\005\007\060\002\206\100\150\164\164\160\072\057 \057\167\167\167\056\141\143\143\166\056\145\163\057\146\151\154 $\label{eq:143} \\ 143 \\ 145 \\ 162 \\ 164 \\ 151 \\ 146 \\ 151 \\ 143 \\ 141 \\ 144 \\ 157 \\ 163 \\ 057 \\ 162 \\ 141 \\ 151 \\$ \172\141\143\143\166\061\056\143\162\164\060\037\006\010\053\006 \001\005\005\007\060\001\206\023\150\164\164\160\072\057\057\157 \143\163\160\056\141\143\143\166\056\145\163\060\035\006\003\125 \035\016\004\026\004\024\322\207\264\343\337\067\047\223\125\366 \126\352\201\345\066\314\214\036\077\275\060\017\006\003\125\035 \023\001\001\377\004\005\060\003\001\001\377\060\037\006\003\125 \035\043\004\030\060\026\200\024\322\207\264\343\337\067\047\223 \125\366\126\352\201\345\066\314\214\036\077\275\060\202\001\163 \006\003\125\035\040\004\202\001\152\060\202\001\146\060\202\001 \142\006\004\125\035\040\000\060\202\001\130\060\202\001\042\006 \010\053\006\001\005\005\007\002\002\060\202\001\024\036\202\001

\020\000\101\000\165\000\164\000\157\000\162\000\151\000\144\000 \141\000\144\000\040\000\144\000\145\000\040\000\103\000\145\000 \162\000\164\000\151\000\146\000\151\000\143\000\141\000\143\000 \151\000\363\000\156\000\040\000\122\000\141\000\355\000\172\000 \040\000\144\000\145\000\040\000\154\000\141\000\040\000\101\000 \103\000\103\000\126\000\040\000\050\000\101\000\147\000\145\000 \156\000\143\000\151\000\141\000\040\000\144\000\145\000\040\000 \124\000\145\000\143\000\156\000\157\000\154\000\157\000\147\000 \355\000\141\000\040\000\171\000\040\000\103\000\145\000\162\000 \164\000\151\000\146\000\151\000\143\000\141\000\143\000\151\000 \363\000\156\000\040\000\105\000\154\000\145\000\143\000\164\000 \162\000\363\000\156\000\151\000\143\000\141\000\054\000\040\000 \103\000\111\000\106\000\040\000\121\000\064\000\066\000\060\000 \061\000\061\000\065\000\066\000\105\000\051\000\056\000\040\000 \103\000\120\000\123\000\040\000\145\000\156\000\040\000\150\000 \164\000\164\000\160\000\072\000\057\000\057\000\167\000\167\000 \167\000\056\000\141\000\143\000\143\000\166\000\056\000\145\000 \163\060\060\006\010\053\006\001\005\005\007\002\001\026\044\150 \164\164\160\072\057\057\167\167\167\056\141\143\143\166\056\145 $\label{eq:163} \\ 163 \\ 057 \\ 154 \\ 145 \\ 147 \\ 151 \\ 163 \\ 154 \\ 141 \\ 143 \\ 151 \\ 157 \\ 156 \\ 137 \\ 143 \\ 056 \\ 137 \\ 143 \\ 143 \\ 151 \\ 157 \\$ \150\164\155\060\125\006\003\125\035\037\004\116\060\114\060\112 \240\110\240\106\206\104\150\164\164\160\072\057\057\167\167\167 \151\156\057\101\162\143\150\151\166\157\163\057\143\145\162\164 \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 \112\227\115\265\333\220\340\005\056\016\306\171\320\362\227\151 \017\275\004\107\331\276\333\265\051\332\233\331\256\251\231\325 \323\074\060\223\365\215\241\250\374\006\215\104\364\312\026\225 \174\063\334\142\213\250\067\370\047\330\011\055\033\357\310\024 \047\040\251\144\104\377\056\326\165\252\154\115\140\100\031\111 $\label{eq:103} \\ 124 \\ 143 \\ 332 \\ 342 \\ 314 \\ 272 \\ 146 \\ 345 \\ 117 \\ 104 \\ 172 \\ 133 \\ 331 \\ 152 \\ 201 \\ 152 \\$ $\label{eq:246} $$ 053\100\325\177\371\001\047\130\054\310\355\110\221\174\077\246 $$$ \000\317\304\051\163\021\066\336\206\031\076\235\356\031\212\033 \325\260\355\216\075\234\052\300\015\330\075\146\343\074\015\275 \325\224\134\342\342\247\065\033\004\000\366\077\132\215\352\103 \275\137\211\035\251\301\260\314\231\342\115\000\012\332\311\047 \133\347\023\220\134\344\365\063\242\125\155\334\340\011\115\057 \261\046\133\047\165\000\011\304\142\167\051\010\137\236\131\254 \266\176\255\237\124\060\042\003\301\036\161\144\376\371\070\012 \226\030\335\002\024\254\043\313\006\034\036\244\175\215\015\336 \047\101\350\255\332\025\267\260\043\335\053\250\323\332\045\207 $\label{eq:2.1} \end{tabular} $$ 355 \end{tabular} $$ 350 \end{tabular}$

 $\label{eq:stabular} $$ 111 016 326 063 045 326 204 120 102 154 040 022 035 052 325 276 274 362 160 201 244 160 140 276 005 265 233 236 004 104 276 141 043 254 351 245 044 214 021 200 224 132 242 242 271 111 322 301 334 321 247 355 061 021 054 236 031 246 356 341 125 341 300 352 317 015 204 344 027 267 242 174 245 336 125 045 006 356 314 300 207 134 100 332 314 225 077 125 340 065 307 270 204 276 264 135 315 172 203 001 162 356 207 346 137 035 256 265 205 306 046 337 346 301 232 351 036 002 107 237 052 250 155 251 133 317 354 105 167 177 230 047 232 062 135 052 343 204 356 305 230 146 057 226 040 035 335 330 303 047 327 260 371 376 331 175 315 320 237 217 013 024 130 121 237 057 213 303 070 055 336 350 217 326 215 207 244 365 126 103 026 231 054 364 244 126 264 064 270 141 067 311 302 130 200 033 240 227 241 374 131 215 351 021 366 321 017 113 125 064 106 052 213 206 073$

END

CKA_NSS_MOZILLA_CA_POLICY

CK_BBOOL CK_TRUE

CKA_NSS_SERVER_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

\223\005\172\210\025\306\117\316\210\057\372\221\026\122\050\170

\274\123\144\027

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL

\320\240\132\356\005\266\011\224\041\241\175\361\262\051\202\002 END

CKA ISSUER

MULTILINE_OCTAL

\060\102\061\022\060\020\006\003\125\004\003\014\011\101\103\103 \126\122\101\111\132\061\061\020\060\016\006\003\125\004\013\014 \007\120\113\111\101\103\103\126\061\015\060\013\006\003\125\004 \012\014\004\101\103\103\126\061\013\060\011\006\003\125\004\006 \023\002\105\123 **END** CKA SERIAL NUMBER MULTILINE OCTAL \002\010\136\303\267\246\103\177\244\340 END CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR CKA TRUST CODE SIGNING CK TRUST CKT NSS MUST VERIFY TRUST CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE # # Certificate "TWCA Global Root CA" # # Issuer: CN=TWCA Global Root CA,OU=Root CA,O=TAIWAN-CA,C=TW # Serial Number: 3262 (0xcbe) # Subject: CN=TWCA Global Root CA,OU=Root CA,O=TAIWAN-CA,C=TW # Not Valid Before: Wed Jun 27 06:28:33 2012 # Not Valid After : Tue Dec 31 15:59:59 2030 # Fingerprint (SHA-256):

59:76:90:07:F7:68:5D:0F:CD:50:87:2F:9F:95:D5:75:5A:5B:2B:45:7D:81:F3:69:2B:61:0A:98:67:2F:0E:1B #

Fingerprint (SHA1): 9C:BB:48:53:F6:A4:F6:D3:52:A4:E8:32:52:55:60:13:F5:AD:AF:65

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "TWCA Global Root CA"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL

```
\060\121\061\013\060\011\006\003\125\004\006\023\002\124\127\061
\022\060\020\006\003\125\004\012\023\011\124\101\111\127\101\116
```

\055\103\101\061\020\060\016\006\003\125\004\013\023\007\122\157 \157\164\040\103\101\061\034\060\032\006\003\125\004\003\023\023

\124\127\103\101\040\107\154\157\142\141\154\040\122\157\157\164

\040\103\101

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

```
\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
```

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL \002\002\014\276 END

CKA VALUE MULTILINE OCTAL \060\202\005\101\060\202\003\051\240\003\002\001\002\002\002\014 \276\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000 \060\121\061\013\060\011\006\003\125\004\006\023\002\124\127\061 \022\060\020\006\003\125\004\012\023\011\124\101\111\127\101\116 \055\103\101\061\020\060\016\006\003\125\004\013\023\007\122\157 \157\164\040\103\101\061\034\060\032\006\003\125\004\003\023\023 $\label{eq:124} $$ 124\127\103\101\040\107\154\157\142\141\154\040\122\157\157\164$ \040\103\101\060\036\027\015\061\062\060\066\062\067\060\066\062 \070\063\063\132\027\015\063\060\061\062\063\061\061\065\065\071 \065\071\132\060\121\061\013\060\011\006\003\125\004\006\023\002 $\label{eq:2.124} $$ 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 $\label{eq:2.12} \\ 003 \\ 023 \\ 023 \\ 124 \\ 127 \\ 103 \\ 101 \\ 040 \\ 107 \\ 154 \\ 157 \\ 142 \\ 141 \\ 154 \\ 040 \\ 122 \\ 124$ \157\157\164\040\103\101\060\202\002\042\060\015\006\011\052\206 \110\206\367\015\001\001\001\005\000\003\202\002\017\000\060\202 \002\012\002\202\002\001\000\260\005\333\310\353\214\304\156\212 \041\357\216\115\234\161\012\037\122\160\355\155\202\234\227\305 \327\114\116\105\111\313\100\102\265\022\064\154\031\302\164\244 \061\137\205\002\227\354\103\063\012\123\322\234\214\216\267\270 \171\333\053\325\152\362\216\146\304\356\053\001\007\222\324\263 \320\002\337\120\366\125\257\146\016\313\340\107\140\057\053\062 \071\065\122\072\050\203\370\173\026\306\030\270\142\326\107\045 \221\316\360\031\022\115\255\143\365\323\077\165\137\051\360\241 \060\034\052\240\230\246\025\275\356\375\031\066\360\342\221\103 \217\372\312\326\020\047\111\114\357\335\301\361\205\160\233\312 \352\250\132\103\374\155\206\157\163\351\067\105\251\360\066\307 \314\210\165\036\273\154\006\377\233\153\076\027\354\141\252\161 \174\306\035\242\367\111\351\025\265\074\326\241\141\365\021\367 \005\157\035\375\021\276\320\060\007\302\051\260\011\116\046\334 \343\242\250\221\152\037\302\221\105\210\134\345\230\270\161\245 \025\031\311\174\165\021\314\160\164\117\055\233\035\221\104\375 \126\050\240\376\273\206\152\310\372\134\013\130\334\306\113\166 \310\253\042\331\163\017\245\364\132\002\211\077\117\236\042\202 \356\242\164\123\052\075\123\047\151\035\154\216\062\054\144\000 \046\143\141\066\116\243\106\267\077\175\263\055\254\155\220\242 \225\242\316\317\332\202\347\007\064\031\226\351\270\041\252\051 \176\246\070\276\216\051\112\041\146\171\037\263\303\265\011\147 \336\326\324\007\106\363\052\332\346\042\067\140\313\201\266\017 \240\017\351\310\225\177\277\125\221\005\172\317\075\025\300\157 \336\011\224\001\203\327\064\033\314\100\245\360\270\233\147\325 \230\221\073\247\204\170\225\046\244\132\010\370\053\164\264\000 \004\074\337\270\024\216\350\337\251\215\154\147\222\063\035\300 \267\322\354\222\310\276\011\277\054\051\005\157\002\153\236\357 \274\277\052\274\133\300\120\217\101\160\161\207\262\115\267\004 \251\204\243\062\257\256\356\153\027\213\262\261\376\154\341\220 \214\210\250\227\110\316\310\115\313\363\006\317\137\152\012\102

\261\036\036\167\057\216\240\346\222\016\006\374\005\042\322\046 \341\061\121\175\062\334\017\002\003\001\000\001\243\043\060\041 \060\016\006\003\125\035\017\001\001\377\004\004\003\002\001\006 \060\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001 \377\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000 \003\202\002\001\000\137\064\201\166\357\226\035\325\345\265\331 \002\143\204\026\301\256\240\160\121\247\367\114\107\065\310\013 \327\050\075\211\161\331\252\063\101\352\024\033\154\041\000\300 $\label{eq:154} $$ 154\102\031\176\237\151\133\040\102\337\242\322\332\304\174\227\$ \113\215\260\350\254\310\356\245\151\004\231\012\222\246\253\047 \056\032\115\201\277\204\324\160\036\255\107\376\375\112\235\063 \340\362\271\304\105\010\041\012\332\151\151\163\162\015\276\064 \376\224\213\255\303\036\065\327\242\203\357\345\070\307\245\205 $\label{eq:253} 317 \\ 064 \\ 354 \\ 077 \\ 050 \\ 376 \\ 014 \\ 361 \\ 127 \\ 206 \\ 116 \\ 311 \\ 125 \\ 367 \\ 125 \\ 367 \\ 125 \\ 126 \\ 1$ \261\266\341\027\171\225\105\006\316\137\314\334\106\211\143\150 $\label{eq:104} $$ 104\215\223\364\144\160\240\075\235\050\005\303\071\160\270\142 $$ \173\040\375\344\333\351\010\241\270\236\075\011\307\117\373\054 \370\223\166\101\336\122\340\341\127\322\235\003\274\167\236\376 \236\051\136\367\301\121\140\037\336\332\013\262\055\165\267\103 \110\223\347\366\171\306\204\135\200\131\140\224\374\170\230\217 \074\223\121\355\100\220\007\337\144\143\044\313\116\161\005\241 $\label{eq:224} $$ 327 $$ 24 $$ 246$ \140\243\002\356\053\354\324\143\222\013\136\276\057\166\153\243 $\label{eq:266} \end{tabular} \end{tabular}$ \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_VALUE MULTILINE_OCTAL \060\202\005\070\060\202\003\040\240\003\002\001\002\002\021\000 \225\276\026\240\367\056\106\361\173\071\202\162\372\213\315\226 \060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060 \067\061\024\060\022\006\003\125\004\012\014\013\124\145\154\151 \157\164\040\103\101\040\166\061\060\036\027\015\060\067\061\060 \061\070\061\062\060\065\060\132\027\015\063\062\061\060\061 \070\061\062\060\060\065\060\132\060\067\061\024\060\022\006\003 $\label{eq:125} 004 012 014 013 124 145 154 151 141 123 157 156 145 162 141$ \061\037\060\035\006\003\125\004\003\014\026\124\145\154\151\141 \123\157\156\145\162\141\040\122\157\157\164\040\103\101\040\166 \061\060\202\002\042\060\015\006\011\052\206\110\206\367\015\001 \001\001\005\000\003\202\002\017\000\060\202\002\012\002\202\002 \001\000\302\276\353\047\360\041\243\363\151\046\125\176\235\305 \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

END

\213\315\226

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

CKA SERIAL NUMBER MULTILINE OCTAL

END

\157\157\164\040\103\101\040\166\061

\060\067\061\024\060\022\006\003\125\004\012\014\013\124\145\154 \151\141\123\157\156\145\162\141\061\037\060\035\006\003\125\004 $\label{eq:2.12} \\ 003 \\ 014 \\ 026 \\ 124 \\ 145 \\ 154 \\ 151 \\ 141 \\ 123 \\ 157 \\ 156 \\ 145 \\ 162 \\ 141 \\ 040 \\ 122 \\ 141 \\ 040 \\ 141 \\ 141 \\ 123 \\ 141$

CKA ISSUER MULTILINE OCTAL

CKA ID UTF8 "0"

CKC X 509

END

\157\157\164\040\103\101\040\166\061

\060\067\061\024\060\022\006\003\125\004\012\014\013\124\145\154 \151\141\123\157\156\145\162\141\061\037\060\035\006\003\125\004

CKA SUBJECT MULTILINE OCTAL

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE

CKA LABEL UTF8 "TeliaSonera Root CA v1"

CKA MODIFIABLE CK BBOOL CK FALSE

CKA PRIVATE CK BBOOL CK FALSE

\277\074\227\030\123\273\051\142\305\312\136\162\301\307\226\324 \333\055\240\264\037\151\003\354\352\342\120\361\014\074\360\254 \363\123\055\360\034\365\355\154\071\071\163\200\026\310\122\260 \043\315\340\076\334\335\074\107\240\273\065\212\342\230\150\213 \276\345\277\162\356\322\372\245\355\022\355\374\230\030\251\046 \166\334\050\113\020\040\034\323\177\026\167\055\355\157\200\367 \111\273\123\005\273\135\150\307\324\310\165\026\077\211\132\213 \367\027\107\324\114\361\322\211\171\076\115\075\230\250\141\336 \072\036\322\370\136\003\340\301\311\034\214\323\215\115\323\225 \066\263\067\137\143\143\233\063\024\360\055\046\153\123\174\211 \214\062\302\156\354\075\041\000\071\311\241\150\342\120\203\056 \260\072\053\363\066\240\254\057\344\157\141\302\121\011\071\076 \213\123\271\273\147\332\334\123\271\166\131\066\235\103\345\040 \340\075\062\140\205\042\121\267\307\063\273\335\025\057\244\170 \246\007\173\201\106\066\004\206\335\171\065\307\225\054\073\260 \243\027\065\345\163\037\264\134\131\357\332\352\020\145\173\172 \320\177\237\263\264\052\067\073\160\213\233\133\271\053\267\354 \262\121\022\227\123\051\132\324\360\022\020\334\117\002\273\022 \222\057\142\324\077\151\103\174\015\326\374\130\165\001\210\235 \130\026\113\336\272\220\377\107\001\211\006\152\366\137\262\220 \152\263\002\246\002\210\277\263\107\176\052\331\325\372\150\170 \065\115\002\003\001\000\001\243\077\060\075\060\017\006\003\125 \035\023\001\001\377\004\005\060\003\001\001\377\060\013\006\003 \125\035\017\004\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\001\000\276\344\134\142 \047\157\273\155\336\203\146\316\250\314\015\374\365\232\006\345 \360\344\037\127\267\165\251\241\137\002\046\377\327\307\367\116 \336\117\370\367\034\106\300\172\117\100\054\042\065\360\031\261 \320\153\147\054\260\250\340\300\100\067\065\366\204\134\134\343 \257\102\170\376\247\311\015\120\352\015\204\166\366\121\357\203 \123\306\172\377\016\126\111\056\217\172\326\014\346\047\124\343 \115\012\140\162\142\315\221\007\326\245\277\310\231\153\355\304 \031\346\253\114\021\070\305\157\061\342\156\111\310\077\166\200 \046\003\046\051\340\066\366\366\040\123\343\027\160\064\027\235 \143\150\036\153\354\303\115\206\270\023\060\057\135\106\015\107 \103\325\033\252\131\016\271\134\215\006\110\255\164\207\137\307 \374\061\124\101\023\342\307\041\016\236\340\036\015\341\300\173 \103\205\220\305\212\130\306\145\012\170\127\362\306\043\017\001 \331\040\113\336\017\373\222\205\165\052\134\163\215\155\173\045 \221\312\356\105\256\006\113\000\314\323\261\131\120\332\072\210 $\label{eq:2.1} \end{tabular} 103 \end{tabular} 106 \end{tabular} 123 \end{tabular}$ \277\161\016\102\213\174\375\050\240\320\110\312\332\304\201\114 \273\242\163\223\046\310\353\014\326\046\210\266\300\044\317\273 \275\133\353\165\175\351\010\216\206\063\054\171\167\011\151\245

\211\374\263\160\220\207\166\217\323\042\273\102\316\275\163\013 \040\046\052\320\233\075\160\036\044\154\315\207\166\251\027\226 \267\317\015\222\373\216\030\251\230\111\321\236\376\140\104\162 $\label{eq:2.1} \end{tabular} \end{tabular}$ \255\316\364\370\151\024\144\071\373\243\270\272\160\100\307\047 $\label{eq:20} \end{tabular} \end{tabular}$ \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} $$ 10\034\272\312\301\312\341\271\040\114\217\072\223\211 $$$ 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 \060\067\061\024\060\022\006\003\125\004\012\014\013\124\145\154 \157\157\164\040\103\101\040\166\061 **END** CKA_SERIAL_NUMBER MULTILINE_OCTAL \002\021\000\225\276\026\240\367\056\106\361\173\071\202\162\372 \213\315\226

END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#

Certificate "E-Tugra Certification Authority"

#

Issuer: CN=E-Tugra Certification Authority,OU=E-Tugra Sertifikasyon Merkezi,O=E-Tu..ra EBG Bili..im

Teknolojileri ve Hizmetleri A....,L=Ankara,C=TR

Serial

Number:6a:68:3e:9c:51:9b:cb:53

Subject: CN=E-Tugra Certification Authority,OU=E-Tugra Sertifikasyon Merkezi,O=E-Tu..ra EBG Bili..im

Teknolojileri ve Hizmetleri A....,L=Ankara,C=TR

Not Valid Before: Tue Mar 05 12:09:48 2013

Not Valid After : Fri Mar 03 12:09:48 2023

Fingerprint (SHA-256):

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

157 162 151 164 171

END

CKA_ID

UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

END

CKA_SERIAL_NUMBER MULTILINE OCTAL

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

END CKA VALUE MULTILINE OCTAL \060\202\006\113\060\202\004\063\240\003\002\001\002\002\010\152 \150\076\234\121\233\313\123\060\015\006\011\052\206\110\206\367 \015\001\001\013\005\000\060\201\262\061\013\060\011\006\003\125 \004\006\023\002\124\122\061\017\060\015\006\003\125\004\007\014 \006\101\156\153\141\162\141\061\100\060\076\006\003\125\004\012 \014\067\105\055\124\165\304\237\162\141\040\105\102\107\040\102 \145\162\151\040\101\056\305\236\056\061\046\060\044\006\003\125 $\label{eq:1004} \\ 013 \\ 014 \\ 035 \\ 105 \\ 055 \\ 124 \\ 165 \\ 147 \\ 162 \\ 141 \\ 040 \\ 123 \\ 145 \\ 162 \\ 164 \\ 164$ $\label{eq:151} $$ 151\153\141\163\171\157\156\040\115\145\162\153\145\172$ \151\061\050\060\046\006\003\125\004\003\014\037\105\055\124\165 $\label{eq:141} $$ 143\141\040\103\145\162\164\151\146\151\143\141\164\151\157\$ \156\040\101\165\164\150\157\162\151\164\171\060\036\027\015\061 \063\060\063\060\065\061\062\060\071\064\070\132\027\015\062\063 \060\063\060\063\061\062\060\071\064\070\132\060\201\262\061\013 \060\011\006\003\125\004\006\023\002\124\122\061\017\060\015\006 $\label{eq:2.1} \end{tabular} $$ 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 $\label{eq:2.14} \\ 037 \\ 105 \\ 055 \\ 124 \\ 165 \\ 147 \\ 162 \\ 141 \\ 040 \\ 103 \\ 145 \\ 162 \\ 164 \\ 151 \\ 146 \\ 151 \\ 166$ $\label{eq:143} \\ 141 \\ 164 \\ 151 \\ 157 \\ 156 \\ 040 \\ 101 \\ 165 \\ 164 \\ 150 \\ 157 \\ 162 \\ 151 \\ 164 \\ 171 \\ 164 \\ 164 \\ 171 \\ 164 \\ 171 \\ 164 \\ 171 \\ 164 \\ 171 \\ 164 \\ 171 \\ 164 \\ 171 \\ 164 \\ 171 \\ 164 \\ 171 \\ 164 \\$ \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 \367\303\306\144\211\075\224\056\124\200\122\071\071\007\113\113 \335\205\007\166\207\314\277\057\225\114\314\175\247\075\274\107 \017\230\160\370\214\205\036\164\216\222\155\033\100\321\231\015 \273\165\156\310\251\153\232\300\204\061\257\312\103\313\353\053

\064\350\217\227\153\001\233\325\016\112\010\252\133\222\164\205 \103\323\200\256\241\210\133\256\263\352\136\313\026\232\167\104 \310\241\366\124\150\316\336\217\227\053\272\133\100\002\014\144 \027\300\265\223\315\341\361\023\146\316\014\171\357\321\221\050 \253\137\240\022\122\060\163\031\216\217\341\214\007\242\303\273 \112\360\352\037\025\250\356\045\314\244\106\370\033\042\357\263 \016\103\272\054\044\270\305\054\134\324\034\370\135\144\275\303 \223\136\050\247\077\047\361\216\036\323\052\120\005\243\125\331 \313\347\071\123\300\230\236\214\124\142\213\046\260\367\175\215 \174\344\306\236\146\102\125\202\107\347\262\130\215\146\367\007 $\label{eq:174} $$ 174\056\066\346\120\034\077\333\103\044\305\277\206\107\171\263$ $\label{eq:171} $$ 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 \074\121\356\313\023\174\001\177\204\016\135\121\224\236\023\014 \266\056\245\114\371\071\160\066\157\226\312\056\014\104\125\305 \312\372\135\002\243\337\326\144\214\132\263\001\012\251\265\012 \107\027\377\357\221\100\052\216\241\106\072\061\230\345\021\374 \314\273\111\126\212\374\271\320\141\232\157\145\154\346\303\313 \076\165\111\376\217\247\342\211\305\147\327\235\106\023\116\061 \166\073\044\263\236\021\145\206\253\177\357\035\324\370\274\347 \254\132\134\267\132\107\134\125\316\125\264\042\161\133\133\013 \360\317\334\240\141\144\352\251\327\150\012\143\247\340\015\077 \240\257\323\252\322\176\357\121\240\346\121\053\125\222\025\027 \123\313\267\146\016\146\114\370\371\165\114\220\347\022\160\307 \105\002\003\001\000\001\243\143\060\141\060\035\006\003\125\035 \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 \007\113\312\151\232\262\204\172\167\223\105\027\025\237\044\320 \230\023\022\377\273\240\056\375\116\114\207\370\316\134\252\230 \033\005\340\000\106\112\202\200\245\063\213\050\334\355\070\323 \337\345\076\351\376\373\131\335\141\204\117\322\124\226\023\141 \023\076\217\200\151\276\223\107\265\065\103\322\132\273\075\134 \357\263\102\107\315\073\125\023\006\260\011\333\375\143\366\072 \210\012\231\157\176\341\316\033\123\152\104\146\043\121\010\173 \274\133\122\242\375\006\067\070\100\141\217\112\226\270\220\067 \370\146\307\170\220\000\025\056\213\255\121\065\123\007\250\153 \150\256\371\116\074\007\046\315\010\005\160\314\071\077\166\275

\245\323\147\046\001\206\246\123\322\140\073\174\103\177\125\212 \274\225\032\301\050\071\114\037\103\322\221\364\162\131\212\271 $\label{eq:2.126} $$ 126 374 077 264 235 32160 234 166 132 214 103 120 356 216 060 $$$ $\label{eq:115} $$ 15\37\37\111\367\306\251\147\331\155\254\002\021\342\072 $$$ \026\045\247\130\010\313\157\123\101\234\110\070\107\150\063\321 \327\307\217\324\164\041\324\303\005\220\172\377\316\226\210\261 \025\051\135\043\253\320\140\241\022\117\336\364\027\315\062\345 \311\277\310\103\255\375\056\216\361\257\342\364\230\372\022\037 \040\330\300\247\014\205\305\220\364\073\055\226\046\261\054\276 \114\253\353\261\322\212\311\333\170\023\017\036\011\235\155\217 \000\237\002\332\301\372\037\172\172\011\304\112\346\210\052\227 \237\211\213\375\067\137\137\072\316\070\131\206\113\257\161\013 \264\330\362\160\117\237\062\023\343\260\247\127\345\332\332\103 \313\204\064\362\050\304\352\155\364\052\357\301\153\166\332\373 \176\273\205\074\322\123\302\115\276\161\341\105\321\375\043\147 \015\023\165\373\317\145\147\042\235\256\260\011\321\011\377\035 \064\277\376\043\227\067\322\071\372\075\015\006\013\264\333\073 \243\253\157\134\035\266\176\350\263\202\064\355\006\134\044 END CKA_NSS_MOZILLA_CA_POLICY CK BBOOL CK TRUE CKA_NSS_SERVER_DISTRUST_AFTER

CK_BBOOL CK_FALSE

CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "E-Tugra Certification Authority"

Issuer: CN=E-Tugra Certification Authority,OU=E-Tugra Sertifikasyon Merkezi,O=E-Tu.ra EBG Bili..im

Teknolojileri ve Hizmetleri A....,L=Ankara,C=TR

Serial Number:6a:68:3e:9c:51:9b:cb:53

Subject: CN=E-Tugra Certification Authority,OU=E-Tugra Sertifikasyon Merkezi,O=E-Tu..ra EBG Bili..im

Teknolojileri ve Hizmetleri A....,L=Ankara,C=TR

Not Valid Before: Tue Mar 05 12:09:48 2013

Not Valid After : Fri Mar 03 12:09:48 2023

Fingerprint (SHA-256):

B0:BF:D5:2B:B0:D7:D9:BD:92:BF:5D:4D:C1:3D:A2:55:C0:2C:54:2F:37:83:65:EA:89:39:11:F5:5E:55:F2:3C # Fingerprint (SHA1): 51:C6:E7:08:49:06:6E:F3:92:D4:5C:A0:0D:6D:A3:62:8F:C3:52:39

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "E-Tugra Certification Authority"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL

 $\label{eq:121} $$ 121\306\347\010\111\006\156\363\222\324\134\240\015\155\243\142 $$$

\217\303\122\071

END

CKA_CERT_MD5_HASH

MULTILINE_OCTAL

 $\label{eq:270} $$ $$ 270 $$ 241 $$ 003 $$ 143 $$ 260 $$ 275 $$ 041 $$ 161 $$ 160 $$ 212 $$ 157 $$ 023 $$ 072 $$ 273 $$ 171 $$ 111 $$ 160 $$ 212 $$ 157 $$ 023 $$ 072 $$ 273 $$ 171 $$ 111 $$ 160 $$ 212 $$ 157 $$ 023 $$ 072 $$ 273 $$ 171 $$ 111 $$ 160 $$ 212 $$ 157 $$ 023 $$ 072 $$ 273 $$ 171 $$ 111 $$ 160 $$ 212 $$ 157 $$ 023 $$ 072 $$ 273 $$ 171 $$ 111 $$ 160 $$ 212 $$ 157 $$ 023 $$ 072 $$ 273 $$ 171 $$ 111 $$ 160 $$ 212 $$ 157 $$ 023 $$ 072 $$ 273 $$ 171 $$ 111 $$ 160 $$ 212 $$ 157 $$ 023 $$ 072 $$ 273 $$ 171 $$ 111 $$ 160 $$ 212 $$ 157 $$ 023 $$ 072 $$ 273 $$ 171 $$ 111 $$ 160 $$ 212 $$ 157 $$ 023 $$ 072 $$ 273 $$ 171 $$ 111 $$ 160 $$ 212 $$ 157 $$ 023 $$ 072 $$ 273 $$ 171 $$ 111 $$ 160 $$ 212 $$ 171 $$ 111 $$ 160 $$ 212 $$ 171 $$ 111 $$ 160 $$ 212 $$ 171 $$ 111 $$ 160 $$ 212 $$ 171 $$ 111 $$ 160 $$ 212 $$ 171 $$ 111 $$ 160 $$ 212 $$ 171 $$ 111 $$ 160 $$ 212 $$ 171 $$ 111 $$ 160 $$ 212 $$ 171 $$ 111 $$$

END

CKA ISSUER MULTILINE OCTAL \060\201\262\061\013\060\011\006\003\125\004\006\023\002\124\122 $\label{eq:2.1} \end{tabular} \end{tabular}$ \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 $\label{eq:2.14} \\ 003 \\ 125 \\ 004 \\ 003 \\ 014 \\ 003 \\ 105 \\ 055 \\ 124 \\ 165 \\ 147 \\ 162 \\ 141 \\ 040 \\ 103 \\ 145 \\ 145 \\ 145 \\ 147 \\ 162 \\ 141 \\ 040 \\ 103 \\ 145$ \162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150 \157\162\151\164\171 END CKA SERIAL NUMBER MULTILINE OCTAL \002\010\152\150\076\234\121\233\313\123 END CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR CKA TRUST EMAIL PROTECTION CK TRUST CKT NSS MUST VERIFY TRUST CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#

Certificate "T-TeleSec GlobalRoot Class 2"

#

Issuer: CN=T-TeleSec GlobalRoot Class 2,OU=T-Systems Trust Center,O=T-Systems Enterprise Services GmbH,C=DE

Serial Number: 1 (0x1)

Subject: CN=T-TeleSec GlobalRoot Class 2,OU=T-Systems Trust Center,O=T-Systems Enterprise Services GmbH,C=DE

Not Valid Before: Wed Oct 01 10:40:14 2008

Not Valid After : Sat Oct 01 23:59:59 2033

Fingerprint (SHA-256):

91:E2:F5:78:8D:58:10:EB:A7:BA:58:73:7D:E1:54:8A:8E:CA:CD:01:45:98:BC:0B:14:3E:04:1B:17:05:25:52

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

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "T-TeleSec GlobalRoot Class 2"

CKA_CERTIFICATE_TYPE

CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL

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

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

CKA VALUE MULTILINE OCTAL \060\202\003\303\060\202\002\253\240\003\002\001\002\002\001\001 \060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060 \201\202\061\013\060\011\006\003\125\004\006\023\002\104\105\061 \053\060\051\006\003\125\004\012\014\042\124\055\123\171\163\164 \145\155\163\040\105\156\164\145\162\160\162\151\163\145\040\123 \145\162\166\151\143\145\163\040\107\155\142\110\061\037\060\035 $\label{eq:2.1} \end{tabular} \end{tabular}$ \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\062\060\036\027\015\060\070\061\060\060\061\061\060 \064\060\061\064\132\027\015\063\063\061\060\060\061\062\063\065 \071\065\071\132\060\201\202\061\013\060\011\006\003\125\004\006 $\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 \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 \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

END

\002\001\001

CKA_SERIAL_NUMBER MULTILINE OCTAL

END

141 163 163 040 062

\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\164\040\103\154

CKA_ID UTF8 "0" CKA_ISSUER MULTILINE_OCTAL

END

141 163 163 040 062

 $\label{eq:listical_$

\002\244\263\233\131\363\036\212\257\064\255\374\015\302\331\110 \031\356\151\217\311\040\374\041\252\007\031\355\260\134\254\145 \307\137\355\002\174\173\174\055\033\326\272\271\200\302\030\202 $\label{eq:204} $$ 026 204 372 146 260 010 306 124 043 201 344 315 271 111 077 366 $$$ $\label{eq:22} 307 230 221 120 252 304 104 263 043 175 071 107 351 122 142$ \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 $\label{eq:262} $$ 262\157\064\174\276\110\117\342\132\071\327\330\235\170\236\237\$ \206\076\003\136\031\213\104\242\325\307\002\003\001\000\001\243 \102\060\100\060\017\006\003\125\035\023\001\001\377\004\005\060 \003\001\001\377\060\016\006\003\125\035\017\001\001\377\004\004 \003\002\001\006\060\035\006\003\125\035\016\004\026\004\024\277 \131\040\066\000\171\240\240\042\153\214\325\362\141\322\270\054 \313\202\112\060\015\006\011\052\206\110\206\367\015\001\001\013 \005\000\003\202\001\001\000\061\003\242\141\013\037\164\350\162 \066\306\155\371\115\236\372\042\250\341\201\126\317\315\273\237 \352\253\221\031\070\257\252\174\025\115\363\266\243\215\245\364 \216\366\104\251\247\350\041\225\255\076\000\142\026\210\360\002 \272\374\141\043\346\063\233\060\172\153\066\142\173\255\004\043 \204\130\145\342\333\053\212\347\045\123\067\142\123\137\274\332 \001\142\051\242\246\047\161\346\072\042\176\301\157\035\225\160 \040\112\007\064\337\352\377\025\200\345\272\327\172\330\133\165 \174\005\172\051\107\176\100\250\061\023\167\315\100\073\264\121 \107\172\056\021\343\107\021\336\235\146\320\213\325\124\146\372 \203\125\352\174\302\051\211\033\351\157\263\316\342\005\204\311 \057\076\170\205\142\156\311\137\301\170\143\164\130\300\110\030 \014\231\071\353\244\314\032\265\171\132\215\025\234\330\024\015 \366\172\007\127\307\042\203\005\055\074\233\045\046\075\030\263 \251\103\174\310\310\253\144\217\016\243\277\234\033\235\060\333 \332\320\031\056\252\074\361\373\063\200\166\344\315\255\031\117 \005\047\216\023\241\156\302 **END** CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE CKA_NSS_SERVER_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

 $027\330\224\351$

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

\141\163\163\040

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

\002\001\001

END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR CKA_TRUST_EMAIL_PROTECTION

CK_TRUST CKT_NSS_TRUSTED_DELEGATOR

 $CKA_TRUST_CODE_SIGNING\ CK_TRUST\ CKT_NSS_MUST_VERIFY_TRUST$

CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#

Certificate "Atos TrustedRoot 2011"

#

Issuer: C=DE,O=Atos,CN=Atos TrustedRoot 2011

Serial Number:5c:33:cb:62:2c:5f:b3:32

Subject: C=DE,O=Atos,CN=Atos TrustedRoot 2011

Not Valid Before: Thu Jul 07 14:58:30 2011

Not Valid After : Tue Dec 31 23:59:59 2030

Fingerprint (SHA-256):

F3:56:BE:A2:44:B7:A9:1E:B3:5D:53:CA:9A:D7:86:4A:CE:01:8E:2D:35:D5:F8:F9:6D:DF:68:A6:F4:1A:A4:74 # Fingerprint (SHA1): 2B:B1:F5:3E:55:0C:1D:C5:F1:D4:E6:B7:6A:46:4B:55:06:02:AC:21 CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE CKA TOKEN CK BBOOL CK TRUE CKA PRIVATE CK BBOOL CK FALSE CKA_MODIFIABLE CK_BBOOL CK_FALSE CKA LABEL UTF8 "Atos TrustedRoot 2011" CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509 CKA SUBJECT MULTILINE OCTAL \060\074\061\036\060\034\006\003\125\004\003\014\025\101\164\157 \061\061\061\015\060\013\006\003\125\004\012\014\004\101\164\157 \163\061\013\060\011\006\003\125\004\006\023\002\104\105 **END** CKA ID UTF8 "0" CKA_ISSUER MULTILINE_OCTAL \060\074\061\036\060\034\006\003\125\004\003\014\025\101\164\157 $\label{eq:163} $$ 163\164\145\144\122\157\157\164\040\062\060\$ \061\061\061\015\060\013\006\003\125\004\012\014\004\101\164\157 \163\061\013\060\011\006\003\125\004\006\023\002\104\105 **END** CKA_SERIAL_NUMBER MULTILINE_OCTAL \002\010\134\063\313\142\054\137\263\062 **END** CKA VALUE MULTILINE OCTAL \060\202\003\167\060\202\002\137\240\003\002\001\002\002\010\134 \063\313\142\054\137\263\062\060\015\006\011\052\206\110\206\367 \015\001\001\013\005\000\060\074\061\036\060\034\006\003\125\004 \003\014\025\101\164\157\163\040\124\162\165\163\164\145\144\122 \157\157\164\040\062\060\061\061\061\015\060\013\006\003\125\004 \012\014\004\101\164\157\163\061\013\060\011\006\003\125\004\006 \023\002\104\105\060\036\027\015\061\061\060\067\060\067\061\064 \065\070\063\060\132\027\015\063\060\061\062\063\061\062\063\065 \071\065\071\132\060\074\061\036\060\034\006\003\125\004\003\014 $\label{eq:2.101} \\ 025 \\ 101 \\ 164 \\ 157 \\ 163 \\ 040 \\ 124 \\ 162 \\ 165 \\ 163 \\ 164 \\ 145 \\ 144 \\ 122 \\ 157$ \164\040\062\060\061\061\061\015\060\013\006\003\125\004\012\014 \004\101\164\157\163\061\013\060\011\006\003\125\004\006\023\002 \104\105\060\202\001\042\060\015\006\011\052\206\110\206\367\015 \001\001\001\005\000\003\202\001\017\000\060\202\001\012\002\202 \001\001\000\225\205\073\227\157\052\073\056\073\317\246\363\051 \065\276\317\030\254\076\252\331\370\115\240\076\032\107\271\274 \232\337\362\376\314\076\107\350\172\226\302\044\216\065\364\251 \014\374\202\375\155\301\162\142\047\275\352\153\353\347\212\314 \124\076\220\120\317\200\324\225\373\350\265\202\324\024\305\266 \251\125\045\127\333\261\120\366\260\140\144\131\172\151\317\003 \267\157\015\276\312\076\157\164\162\352\252\060\052\163\142\276 \111\221\141\310\021\376\016\003\052\367\152\040\334\002\025\015

\136\025\152\374\343\202\301\265\305\235\144\011\154\243\131\230 \007\047\307\033\226\053\141\164\161\154\103\361\367\065\211\020 $\label{eq:236} \\ 340 \\ 236 \\ 354 \\ 125 \\ 241 \\ 067 \\ 042 \\ 242 \\ 207 \\ 004 \\ 005 \\ 054 \\ 107 \\ 175 \\ 264 \\ 034 \\ 034 \\ 034 \\ 035 \\ 034 \\ 035 \\$ $\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 \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 \125\035\016\004\026\004\024\247\245\006\261\054\246\011\140\356 \321\227\351\160\256\274\073\031\154\333\041\060\017\006\003\125 \035\023\001\001\377\004\005\060\003\001\001\377\060\037\006\003 \125\035\043\004\030\060\026\200\024\247\245\006\261\054\246\011 \140\356\321\227\351\160\256\274\073\031\154\333\041\060\030\006 \003\125\035\040\004\021\060\017\060\015\006\013\053\006\001\004 \001\260\055\003\004\001\001\060\016\006\003\125\035\017\001\001 \377\004\004\003\002\001\206\060\015\006\011\052\206\110\206\367 \015\001\001\013\005\000\003\202\001\001\000\046\167\064\333\224 \110\206\052\101\235\054\076\006\220\140\304\214\254\013\124\270 \037\271\173\323\007\071\344\372\076\173\262\075\116\355\237\043 \275\227\363\153\134\357\356\375\100\246\337\241\223\241\012\206 \254\357\040\320\171\001\275\170\367\031\330\044\061\064\004\001 \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 \132\244\322\333\305\315\306\336\140\177\271\363\117\104\222\357 \052\267\030\076\247\031\331\013\175\261\067\101\102\260\272\140 \035\362\376\011\021\260\360\207\173\247\235 **END**

CKA_NSS_MOZILLA_CA_POLICY

CK_BBOOL CK_TRUE

CKA_NSS_SERVER_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 **END** CKA SERIAL NUMBER MULTILINE OCTAL \002\010\134\063\313\142\054\137\263\062 **END** CKA TRUST SERVER AUTH CK TRUST CKT NSS TRUSTED DELEGATOR CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR CKA TRUST CODE SIGNING CK TRUST CKT NSS MUST VERIFY TRUST CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE # # Certificate "QuoVadis Root CA 1 G3" # # Issuer: CN=QuoVadis Root CA 1 G3,O=QuoVadis Limited,C=BM # Serial Number: 78:58:5f:2e:ad:2c:19:4b:e3:37:07:35:34:13:28:b5:96:d4:65:93 # Subject: CN=QuoVadis Root CA 1 G3,O=QuoVadis Limited,C=BM ± Not Valid Before: Thu Jan 12 17:27:44 2012 # Not Valid After : Sun Jan 12 17:27:44 2042 # Fingerprint (SHA-256): 8A:86:6F:D1:B2:76:B5:7E:57:8E:92:1C:65:82:8A:2B:ED:58:E9:F2:F2:88:05:41:34:B7:F1:F4:BF:C9:CC:74 # Fingerprint (SHA1): 1B:8E:EA:57:96:29:1A:C9:39:EA:B8:0A:81:1A:73:73:C0:93:79:67 CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE CKA_TOKEN CK_BBOOL CK_TRUE CKA_PRIVATE CK_BBOOL CK_FALSE CKA_MODIFIABLE CK_BBOOL CK_FALSE CKA_LABEL UTF8 "QuoVadis Root CA 1 G3" CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509 CKA_SUBJECT MULTILINE_OCTAL \060\110\061\013\060\011\006\003\125\004\006\023\002\102\115\061

CKA VALUE MULTILINE OCTAL \060\202\005\140\060\202\003\110\240\003\002\001\002\002\024\170 \130\137\056\255\054\031\113\343\067\007\065\064\023\050\265\226 \324\145\223\060\015\006\011\052\206\110\206\367\015\001\001\013 \005\000\060\110\061\013\060\011\006\003\125\004\006\023\002\102 \115\061\031\060\027\006\003\125\004\012\023\020\121\165\157\126 \141\144\151\163\040\114\151\155\151\164\145\144\061\036\060\034 \006\003\125\004\003\023\025\121\165\157\126\141\144\151\163\040 \122\157\157\164\040\103\101\040\061\040\107\063\060\036\027\015 \061\062\060\061\061\062\061\067\062\067\064\064\132\027\015\064 \062\060\061\061\062\061\067\062\067\064\064\132\060\110\061\013 \060\011\006\003\125\004\006\023\002\102\115\061\031\060\027\006 $\label{eq:2.1} \end{tabular} \end{tabular}$ \151\155\151\164\145\144\061\036\060\034\006\003\125\004\003\023 \025\121\165\157\126\141\144\151\163\040\122\157\157\164\040\103 \101\040\061\040\107\063\060\202\002\042\060\015\006\011\052\206 \110\206\367\015\001\001\001\005\000\003\202\002\017\000\060\202 \002\012\002\202\002\001\000\240\276\120\020\216\351\362\154\100 \264\004\234\205\271\061\312\334\055\344\021\251\004\074\033\125 \301\347\130\060\035\044\264\303\357\205\336\214\054\341\301\075 $\label{eq:2.1} \end{tabular} $$ 37\202\346\117\255\107\207\154\354\133\111\301\112\325\273\217 $$$ \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

END

\050\265\226\324\145\223

MULTILINE_OCTAL \002\024\170\130\137\056\255\054\031\113\343\067\007\065\064\023

CKA_SERIAL_NUMBER

END

 $\label{eq:list} $$ 157\164\040\103\101\040\061\040\107\063 $$

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

CKA_ID UTF8 "0"

END

\157\164\040\103\101\040\061\040\107\063

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

\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 \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 $\label{eq:230} \\ (230) \\ (043) \\ (354) \\ (010) \\ (167) \\ (034) \\ (225) \\ (135) \\ (141) \\ (321) \\ (313) \\ (211) \\ (234) \\ (137) \\ (242) \\ (11$ \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 $\label{eq:116} \label{eq:116} \lab$ $\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 $\label{eq:23} \end{tabular} \end{tabular}$ \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 $\label{eq:143} \\ 143 \\ 176 \\ 327 \\ 056 \\ 167 \\ 214 \\ 226 \\ 034 \\ 052 \\ 043 \\ 150 \\ 153 \\ 205 \\ 127 \\ 166 \\ 167 \\ 214 \\ 226 \\ 034 \\ 052 \\ 043 \\ 150 \\ 153 \\ 205 \\ 127 \\ 166 \\ 167 \\ 214 \\ 226 \\ 034 \\ 052 \\ 043 \\ 150 \\ 153 \\ 205 \\ 127 \\ 166 \\ 167 \\ 214 \\ 226 \\ 034 \\ 052 \\ 043 \\ 150 \\ 153 \\ 205 \\ 127 \\ 166 \\ 167 \\ 214 \\ 226 \\ 034 \\ 052 \\ 043 \\ 150 \\ 153 \\ 205 \\ 127 \\ 166 \\ 167 \\ 127 \\ 166 \\ 167 \\ 127 \\ 166 \\ 167 \\ 127 \\ 166 \\ 167 \\ 127 \\ 166 \\ 167 \\ 127 \\ 166 \\ 167 \\ 127 \\ 166 \\ 167 \\ 127 \\ 166 \\ 167 \\ 127 \\ 166 \\ 167 \\ 127 \\ 166 \\ 167 \\ 127 \\ 166 \\ 167 \\ 127 \\ 167 \\ 127 \\ 166 \\ 107 \\ 127 \\ 107 \\$ \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 \154\235\001\220\372\236\220\366\234\162\317\107\332\303\037\344 \065\040\123\362\124\321\337\141\203\246\002\342\045\070\336\205 \062\055\136\163\220\122\135\102\304\316\075\113\341\371\031\204

\035\325\242\120\314\101\373\101\024\303\275\326\311\132\243\143 \146\002\200\275\005\072\073\107\234\354\000\046\114\365\210\121 \277\250\043\177\030\007\260\013\355\213\046\241\144\323\141\112 \353\134\237\336\263\257\147\003\263\037\335\155\135\151\150\151 \253\136\072\354\174\151\274\307\073\205\116\236\025\271\264\025 \117\303\225\172\130\327\311\154\351\154\271\363\051\143\136\264 \054\360\055\075\355\132\145\340\251\133\100\302\110\231\201\155 \236\037\006\052\074\022\264\213\017\233\242\044\360\246\215\326 \172\340\113\266\144\226\143\225\204\302\112\315\034\056\044\207 \063\140\345\303 **END** CKA_NSS_MOZILLA_CA_POLICY CK BBOOL CK TRUE CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE # Trust for "QuoVadis Root CA 1 G3" # Issuer: CN=QuoVadis Root CA 1 G3,O=QuoVadis Limited,C=BM # Serial Number:78:58:5f:2e:ad:2c:19:4b:e3:37:07:35:34:13:28:b5:96:d4:65:93 # Subject: CN=QuoVadis Root CA 1 G3,O=QuoVadis Limited,C=BM # Not Valid Before: Thu Jan 12 17:27:44 2012 # Not Valid After : Sun Jan 12 17:27:44 2042 # Fingerprint (SHA-256): 8A:86:6F:D1:B2:76:B5:7E:57:8E:92:1C:65:82:8A:2B:ED:58:E9:F2:F2:88:05:41:34:B7:F1:F4:BF:C9:CC:74 # Fingerprint (SHA1): 1B:8E:EA:57:96:29:1A:C9:39:EA:B8:0A:81:1A:73:73:C0:93:79:67 CKA CLASS CK OBJECT CLASS CKO NSS TRUST CKA_TOKEN CK_BBOOL CK_TRUE CKA PRIVATE CK BBOOL CK FALSE CKA MODIFIABLE CK BBOOL CK FALSE CKA_LABEL UTF8 "QuoVadis Root CA 1 G3" CKA CERT SHA1 HASH MULTILINE OCTAL \033\216\352\127\226\051\032\311\071\352\270\012\201\032\163\163 \300\223\171\147 END CKA CERT MD5 HASH MULTILINE OCTAL \244\274\133\077\376\067\232\372\144\360\342\372\005\075\013\253 **END** CKA ISSUER MULTILINE_OCTAL \060\110\061\013\060\011\006\003\125\004\006\023\002\102\115\061 \031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144 \151\163\040\114\151\155\151\164\145\144\061\036\060\034\006\003 \125\004\003\023\025\121\165\157\126\141\144\151\163\040\122\157 \157\164\040\103\101\040\061\040\107\063 END CKA_SERIAL_NUMBER MULTILINE_OCTAL \002\024\170\130\137\056\255\054\031\113\343\067\007\065\064\023

050265226324145223

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):

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

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

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

\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

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

 $\label{eq:sphere:sphe$

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

END

CKA_SERIAL_NUMBER

MULTILINE_OCTAL

\002\024\104\127\064\044\133\201\211\233\065\362\316\270\053\073

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

END

CKA_VALUE MULTILINE_OCTAL

\060\202\005\140\060\202\003\110\240\003\002\001\002\002\024\104 \127\064\044\133\201\211\233\065\362\316\270\053\073\133\247\046

\360\165\050\060\015\006\011\052\206\110\206\367\015\001\001\013 \005\000\060\110\061\013\060\011\006\003\125\004\006\023\002\102 \115\061\031\060\027\006\003\125\004\012\023\020\121\165\157\126 \141\144\151\163\040\114\151\155\151\164\145\144\061\036\060\034 \006\003\125\004\003\023\025\121\165\157\126\141\144\151\163\040 \122\157\157\164\040\103\101\040\062\040\107\063\060\036\027\015 \061\062\060\061\061\062\061\070\065\071\063\062\132\027\015\064 \062\060\061\061\062\061\070\065\071\063\062\132\060\110\061\013 \060\011\006\003\125\004\006\023\002\102\115\061\031\060\027\006 \003\125\004\012\023\020\121\165\157\126\141\144\151\163\040\114 \151\155\151\164\145\144\061\036\060\034\006\003\125\004\003\023 \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 \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 $\label{eq:21} $$ 163\221\20141\246\003\024\040\362\347\207\243\210\255\255\240\$ \214\377\246\013\045\122\045\347\026\001\325\313\270\065\201\014 \243\073\360\341\341\374\132\135\316\200\161\155\370\111\253\076 \073\272\270\327\200\001\373\245\353\133\263\305\136\140\052\061 \240\257\067\350\040\072\237\250\062\054\014\314\011\035\323\236 \216\135\274\114\230\356\305\032\150\173\354\123\246\351\024\065 \243\337\315\200\237\014\110\373\034\364\361\277\112\270\372\325 \214\161\112\307\037\255\376\101\232\263\203\135\362\204\126\357 \245\127\103\316\051\255\214\253\125\277\304\373\133\001\335\043 \041\241\130\000\216\303\320\152\023\355\023\343\022\053\200\334 \147\346\225\262\315\036\042\156\052\370\101\324\362\312\024\007 \215\212\125\022\306\151\365\270\206\150\057\123\136\260\322\252 \041\301\230\346\060\343\147\125\307\233\156\254\031\250\125\246 \105\006\320\043\072\333\353\145\135\052\021\021\360\073\117\312 \155\364\064\304\161\344\377\000\132\366\134\256\043\140\205\163 \361\344\020\261\045\256\325\222\273\023\301\014\340\071\332\264 \071\127\265\253\065\252\162\041\073\203\065\347\061\337\172\041 $\label{eq:270} $$ 156\270\062\010\175\035\062\221\025\112\142\162\317\343\167\241\$ \274\325\021\033\166\001\147\010\340\101\013\303\353\025\156\370 \244\031\331\242\253\257\342\047\122\126\053\002\212\054\024\044 \371\277\102\002\277\046\310\306\217\340\156\070\175\123\055\345 \355\230\263\225\143\150\177\371\065\364\337\210\305\140\065\222 \300\174\151\034\141\225\026\320\353\336\013\257\076\004\020\105 \145\130\120\070\257\110\362\131\266\026\362\074\015\220\002\306 \160\056\001\255\074\025\327\002\003\001\000\001\243\102\060\100 \060\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001

\377\060\016\006\003\125\035\017\001\001\377\004\004\003\002\001 \006\060\035\006\003\125\035\016\004\026\004\024\355\347\157\166 \132\277\140\354\111\133\306\245\167\273\162\026\161\233\304\075 \060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\003 \202\002\001\000\221\337\200\077\103\011\176\161\302\367\353\263 \210\217\341\121\262\274\075\165\371\050\135\310\274\231\233\173 \135\252\345\312\341\012\367\350\262\323\237\335\147\061\176\272 $\label{eq:22} \end{tabular} \end{tabular}$ \316\003\142\371\213\355\373\156\052\334\006\115\074\051\017\211 \026\212\130\114\110\017\350\204\141\352\074\162\246\167\344\102 $\label{eq:256} $$ $$ 210 243 103 130 171 176 256 312 245 123 015 251 075 160 275 $$$ \021\042\062\226\234\302\366\133\151\226\173\040\014\103\101\232 \133\366\131\031\210\336\125\210\067\121\013\170\134\012\036\243 \102\375\307\235\210\017\300\362\170\002\044\124\223\257\211\207 \210\311\112\200\035\352\320\156\076\141\056\066\273\065\016\047 \172\130\022\260\012\357\205\375\261\270\063\165\152\223\034\022 \346\140\136\157\035\177\311\037\043\313\204\141\237\036\202\104 $\label{eq:22} 371 137 255 142 125 044 232 122 230 355 121 347 241 176 227 072$ \346\057\037\021\332\123\200\054\205\236\253\065\020\333\042\137 \152\305\136\227\123\362\062\002\011\060\243\130\360\015\001\325 $\label{eq:162} $$ 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 $\label{eq:157} $$ 157 326 024 144 203 111 322 012 147 041 333 017 065 143 140 $$$ \050\042\343\261\225\203\315\205\246\335\057\017\347\147\122\156 \273\057\205\174\365\112\163\347\305\076\300\275\041\022\005\077 \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 "QuoVadis Root CA 2 G3"

Issuer: CN=QuoVadis Root CA 2 G3,O=QuoVadis Limited,C=BM

Serial Number:44:57:34:24:5b:81:89:9b:35:f2:ce:b8:2b:3b:5b:a7:26:f0:75:28

Subject: CN=QuoVadis Root CA 2 G3,O=QuoVadis Limited,C=BM

Not Valid Before: Thu Jan 12 18:59:32 2012

Not Valid After : Sun Jan 12 18:59:32 2042

Fingerprint (SHA-256):

8F:E4:FB:0A:F9:3A:4D:0D:67:DB:0B:EB:B2:3E:37:C7:1B:F3:25:DC:BC:DD:24:0E:A0:4D:AF:58:B4:7E:18:40

Fingerprint (SHA1): 09:3C:61:F3:8B:8B:DC:7D:55:DF:75:38:02:05:00:E1:25:F5:C8:36

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "QuoVadis Root CA 2 G3"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL

 $\label{eq:11} \end{tabular} \end{tabular} \label{eq:11} \end{tabular} \end{tabular}$

045365310066

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

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

END

CKA_SERIAL_NUMBER

MULTILINE_OCTAL

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

END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#

Certificate "QuoVadis Root CA 3 G3"

#

Issuer: CN=QuoVadis Root CA 3 G3,O=QuoVadis Limited,C=BM

Serial Number:2e:f5:9b:02:28:a7:db:7a:ff:d5:a3:a9:ee:bd:03:a0:cf:12:6a:1d

Subject: CN=QuoVadis Root CA 3 G3,O=QuoVadis Limited,C=BM

Not Valid Before: Thu Jan 12 20:26:32 2012

Not Valid After : Sun Jan 12 20:26:32 2042

Fingerprint (SHA-256):

88:EF:81:DE:20:2E:B0:18:45:2E:43:F8:64:72:5C:EA:5F:BD:1F:C2:D9:D2:05:73:07:09:C5:D8:B8:69:0F:46 #

Fingerprint (SHA1): 48:12:BD:92:3C:A8:C4:39:06:E7:30:6D:27:96:E6:A4:CF:22:2E:7D CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE CKA_TOKEN CK_BBOOL CK_TRUE

Open Source Used In vmoperator Crafton-3.0 779

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 \006\003\125\004\003\023\025\121\165\157\126\141\144\151\163\040 \122\157\157\164\040\103\101\040\063\040\107\063\060\036\027\015 \061\062\060\061\061\062\062\060\062\066\063\062\132\027\015\064 \062\060\061\061\062\062\060\062\066\063\062\132\060\110\061\013 \060\011\006\003\125\004\006\023\002\102\115\061\031\060\027\006 \003\125\004\012\023\020\121\165\157\126\141\144\151\163\040\114 \101\040\063\040\107\063\060\202\002\042\060\015\006\011\052\206 \110\206\367\015\001\001\001\005\000\003\202\002\017\000\060\202 \002\012\002\202\002\001\000\263\313\016\020\147\216\352\024\227 \247\062\052\012\126\066\177\150\114\307\263\157\072\043\024\221 \377\031\177\245\312\254\356\263\166\235\172\351\213\033\253\153 \061\333\372\013\123\114\257\305\245\032\171\074\212\114\377\254 \337\045\336\116\331\202\062\013\104\336\312\333\214\254\243\156 \026\203\073\246\144\113\062\211\373\026\026\070\176\353\103\342 \323\164\112\302\142\012\163\012\335\111\263\127\322\260\012\205

\003\240\317\022\152\035

MULTILINE_OCTAL \002\024\056\365\233\002\050\247\333\172\377\325\243\251\356\275 \002\240\217\022\152\025

CKA_SERIAL_NUMBER MULTILINE_OCTAL

END

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

 $\label{eq:starter} $$ $ 1060 \ 1006 \ 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 \ 126 \ 141 \ 144 \ 151 \ 163 \ 040 \ 122 \ 157 \ 126 \ 141 \ 144 \ 151 \ 163 \ 040 \ 122 \ 157 \ 126 \ 141 \ 144 \ 151 \ 163 \ 040 \ 122 \ 157 \ 126 \ 141 \ 144 \ 151 \ 163 \ 040 \ 122 \ 157 \ 126 \ 141 \ 144 \ 151 \ 163 \ 040 \ 122 \ 157 \ 126 \ 141 \ 144 \ 151 \ 163 \ 040 \ 122 \ 157 \ 126 \ 141 \ 144 \ 151 \ 163 \ 040 \ 122 \ 157 \ 126 \ 141 \ 144 \ 151 \ 163 \ 040 \ 122 \ 157 \ 126 \ 141 \ 144 \ 151 \ 163 \ 126 \ 12$

CKA_ID UTF8 "0" CKA ISSUER MULTILINE OCTAL

END

157 164 040 103 101 040 063 040 107 063

\125\004\003\023\025\121\165\157\126\141\144\151\163\040\122\157

\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

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509 CKA SUBJECT MULTILINE OCTAL

CKA_LABEL UTF8 "QuoVadis Root CA 3 G3"

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_PRIVATE CK_BBOOL CK_FALSE

\235\161\074\336\243\313\300\062\363\001\071\040\103\033\065\321 \123\263\261\356\305\223\151\202\076\026\265\050\106\241\336\352 \211\011\355\103\270\005\106\212\206\365\131\107\276\033\157\001 \041\020\271\375\251\322\050\312\020\071\011\312\023\066\317\234 \255\255\100\164\171\053\002\077\064\377\372\040\151\175\323\356 \141\365\272\263\347\060\320\067\043\206\162\141\105\051\110\131 \150\157\167\246\056\201\276\007\115\157\257\316\304\105\023\221 \024\160\006\217\037\237\370\207\151\261\016\357\303\211\031\353 \352\034\141\374\172\154\212\334\326\003\013\236\046\272\022\335 \324\124\071\253\046\243\063\352\165\201\332\055\315\017\117\344 \003\321\357\025\227\033\153\220\305\002\220\223\146\002\041\261 \107\336\213\232\112\200\271\125\217\265\242\057\300\326\063\147 \332\176\304\247\264\004\104\353\107\373\346\130\271\367\014\360 \173\053\261\300\160\051\303\100\142\055\073\110\151\334\043\074 \110\353\173\011\171\251\155\332\250\060\230\317\200\162\003\210 \246\133\106\256\162\171\174\010\003\041\145\256\267\341\034\245 \261\052\242\061\336\146\004\367\300\164\350\161\336\377\075\131 \314\226\046\022\213\205\225\127\032\253\153\165\013\104\075\021 \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 $\label{eq:205} \\ 003 \\ 205 \\ 315 \\ 361 \\ 377 \\ 214 \\ 026 \\ 265 \\ 301 \\ 262 \\ 076 \\ 210 \\ 154 \\ 140 \\ 177 \\ 220 \\ 177 \\ 220 \\ 100 \\$ \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 $\label{eq:2.1} \end{tabular} \label{eq:2.2} \label{eq:2.2} \end{tabular} \label{eq:2.2} \end{tabular} \label{eq:2.2} \label{eq:2.2} \end{tabular} \label{eq:2.2} \labe$ \273\360\130\245\265\234\013\367\217\042\125\047\300\113\001\155 \073\231\015\324\035\233\143\147\057\320\356\015\312\146\274\224 \117\246\255\355\374\356\143\254\127\077\145\045\317\262\206\217 \320\010\377\270\166\024\156\336\345\047\354\253\170\265\123\271 \266\077\350\040\371\322\250\276\141\106\312\207\214\204\363\371

\361\240\150\233\042\036\201\046\233\020\004\221\161\300\006\037 \334\240\323\271\126\247\343\230\055\177\203\235\337\214\053\234 \062\216\062\224\360\001\074\042\052\237\103\302\056\303\230\071 \007\070\173\374\136\000\102\037\363\062\046\171\203\204\366\345 \360\301\121\022\300\013\036\004\043\014\124\245\114\057\111\305 \112\321\266\156\140\015\153\374\153\213\205\044\144\267\211\016 \253\045\107\133\074\317\176\111\275\307\351\012\306\332\367\176 \016\027\010\323\110\227\320\161\222\360\017\071\076\064\152\034 \175\330\362\042\256\273\151\364\063\264\246\110\125\321\017\016 \046\350\354\266\013\055\247\205\065\315\375\131\310\237\321\315 $\label{eq:21} 076 132 051 064 271 075 204 316 261 145 324 131 221 221 126 165$ \041\301\167\236\371\172\341\140\235\323\255\004\030\364\174\353 \136\223\217\123\112\042\051\370\110\053\076\115\206\254\133\177 \313\006\231\131\140\330\130\145\225\215\104\321\367\177\176\047 \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 \317\042\056\175 END CKA CERT MD5 HASH MULTILINE OCTAL \337\175\271\255\124\157\150\241\337\211\127\003\227\103\260\327 **END** CKA ISSUER MULTILINE OCTAL \060\110\061\013\060\011\006\003\125\004\006\023\002\102\115\061 \031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144 \151\163\040\114\151\155\151\164\145\144\061\036\060\034\006\003

\125\004\003\023\025\121\165\157\126\141\144\151\163\040\122\157 \157\164\040\103\101\040\063\040\107\063 **END** CKA SERIAL NUMBER MULTILINE OCTAL \002\024\056\365\233\002\050\247\333\172\377\325\243\251\356\275 \003\240\317\022\152\035 **END** CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR CKA TRUST EMAIL PROTECTION CK TRUST CKT NSS TRUSTED DELEGATOR CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE # # Certificate "DigiCert Assured ID Root G2" # # Issuer: CN=DigiCert Assured ID Root G2,OU=www.digicert.com,O=DigiCert Inc,C=US # Serial Number:0b:93:1c:3a:d6:39:67:ea:67:23:bf:c3:af:9a:f4:4b # Subject: CN=DigiCert Assured ID Root G2,OU=www.digicert.com,O=DigiCert Inc,C=US # Not Valid Before: Thu Aug 01 12:00:00 2013 # Not Valid After : Fri Jan 15 12:00:00 2038 # Fingerprint (SHA-256): 7D:05:EB:B6:82:33:9F:8C:94:51:EE:09:4E:EB:FE:FA:79:53:A1:14:ED:B2:F4:49:49:45:2F:AB:7D:2F:C1:85 # Fingerprint (SHA1): A1:4B:48:D9:43:EE:0A:0E:40:90:4F:3C:E0:A4:C0:91:93:51:5D:3F CKA CLASS CK OBJECT CLASS CKO CERTIFICATE CKA TOKEN CK BBOOL CK TRUE CKA_PRIVATE CK_BBOOL CK_FALSE CKA MODIFIABLE CK BBOOL CK FALSE CKA LABEL UTF8 "DigiCert Assured ID Root G2" CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509 CKA SUBJECT MULTILINE OCTAL \060\145\061\013\060\011\006\003\125\004\006\023\002\125\123\061 \025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145 \162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023 $\label{eq:20} \end{tabular} \end{tabular}$ $\label{eq:103145162164040101163163165162145144040111104040} \\$ $122\157\157\164\040\107\062$ END CKA_ID UTF8 "0" CKA ISSUER MULTILINE OCTAL \060\145\061\013\060\011\006\003\125\004\006\023\002\125\123\061 \025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145 \162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023 $\label{eq:20} \end{tabular} \end{tabular}$ \155\061\044\060\042\006\003\125\004\003\023\033\104\151\147\151 $\label{eq:103} \\ 103 \\ 145 \\ 162 \\ 164 \\ 040 \\ 101 \\ 163 \\ 163 \\ 165 \\ 162 \\ 145 \\ 144 \\ 040 \\ 111 \\ 104 \\ 040 \\ 101 \\ 101 \\ 101 \\ 104 \\ 101 \\$

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

END

CKA SERIAL NUMBER

MULTILINE_OCTAL

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

END

CKA_VALUE MULTILINE_OCTAL

\060\202\003\226\060\202\002\176\240\003\002\001\002\002\020\013 \223\034\072\326\071\147\352\147\043\277\303\257\232\364\113\060 \015\006\011\052\206\110\206\367\015\001\001\013\005\000\060\145 \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 \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 $\label{eq:2.1} \end{tabular} \end{tabular}$ \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\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} $$ 120\214\077\204\014\226\317\267\313\003\340\312\155\241\024\114$ \033\211\335\355\000\260\122\174\257\221\154\261\070\023\321\351 \022\010\300\000\260\034\053\021\332\167\160\066\233\256\316\171 \207\334\202\160\346\011\164\160\125\151\257\243\150\237\277\335 $\label{eq:266} \end{tabular} \end{tabular}$ $\label{eq:2.157} $$ 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 \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 $\label{eq:101156151047247165021357074206066157322235306170} \label{eq:1011561510472471650213570742060661573222235306170}$ $\label{eq:242} $$ 070 035 151 226 242 222 151 056 070 154 233 175 004 324 211 245 $$ 004 324 211 245 $$ 004 324 211 245 $$ 004 324 211 245 $$ 004 324 211 245 $$ 004 324 211 245 $$ 004 324 211 245 $$ 004 324 211 245 $$ 004 324 211 245 $$ 004 324 211 245 $$ 004 324 211 245 $$ 004 324 211 245 $$ 004 324 211 245 $$ 004 324 211 245 $$ 004 324 211 245 $$ 004 324 211 245 $$ 004 324 211 245 $$ 004 324 211 245 $$ 004 324 211 245 $$ 004 224 224 211 245 $$ 004 224 224 215 $$ 004 224 224 211 245 $$ 004 224 245 $$ 004 224 224 211 245 $$ 004 224 224 245 $$ 004 224 224 245 $$ 004 224 245 $$ 004 224 245 $$ 004 224 245 $$ 004 224 245 $$ 004 224 245 $$ 004 224 245 $$ 004 224 245 $$ 004 245 $$$ 004 245 $$$ 004 245$ $\label{eq:261} $$ $$ 261\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 \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 $\label{eq:2.1} \end{tabular} \end{tabular}$ \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

 $\label{eq:241} $$ $$ 241 13 10331 103356 012 016 100 220 117 074 340 244 300 221 $$$

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL

 $\label{eq:22} $$ $$ 22\070\271\370\143\044\202\145\054\127\063\346\376\201\217\235\$

END

CKA_ISSUER MULTILINE_OCTAL

 $\label{eq:2.123} \\ 060\145\061\013\060\011\006\003\125\004\006\023\002\125\123\061$

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

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

364113

END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR

 $CKA_TRUST_EMAIL_PROTECTION\ CK_TRUST\ CKT_NSS_TRUSTED_DELEGATOR$

CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST

CKA_TRUST_STEP_UP_APPROVED

CK_BBOOL CK_FALSE

#

Certificate "DigiCert Assured ID Root G3"

#

Issuer: CN=DigiCert Assured ID Root G3,OU=www.digicert.com,O=DigiCert Inc,C=US

Serial Number:0b:a1:5a:fa:1d:df:a0:b5:49:44:af:cd:24:a0:6c:ec

Subject: CN=DigiCert Assured ID Root G3,OU=www.digicert.com,O=DigiCert Inc,C=US

Not Valid Before: Thu Aug 01 12:00:00 2013

Not Valid After : Fri Jan 15 12:00:00 2038

Fingerprint (SHA-256):

7E:37:CB:8B:4C:47:09:0C:AB:36:55:1B:A6:F4:5D:B8:40:68:0F:BA:16:6A:95:2D:B1:00:71:7F:43:05:3F:C2

Fingerprint (SHA1): F5:17:A2:4F:9A:48:C6:C9:F8:A2:00:26:9F:DC:0F:48:2C:AB:30:89

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "DigiCert Assured ID Root G3"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL

 $\label{eq:103} \\ 145 \\ 162 \\ 164 \\ 040 \\ 101 \\ 163 \\ 163 \\ 165 \\ 162 \\ 145 \\ 144 \\ 040 \\ 111 \\ 104 \\ 101 \\ 104 \\ 101 \\ 101 \\ 104 \\ 101 \\ 101 \\ 104 \\ 101 \\ 101 \\ 104 \\ 101 \\$

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

END

CKA_ID

UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

\060\145\061\013\060\011\006\003\125\004\006\023\002\125\123\061 \025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145

CKA VALUE MULTILINE OCTAL \060\202\002\106\060\202\001\315\240\003\002\001\002\002\020\013 \241\132\372\035\337\240\265\111\104\257\315\044\240\154\354\060 \012\006\010\052\206\110\316\075\004\003\003\060\145\061\013\060 \011\006\003\125\004\006\023\002\125\123\061\025\060\023\006\003 $\label{eq:125}004 012 023 014 104 151 147 151 103 145 162 164 040 111 156$ \143\061\031\060\027\006\003\125\004\013\023\020\167\167\167\056 \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 $\label{eq:101163163165162145144040111104040122157157164040} \\$ \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 \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 \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 $\label{eq:2.1} \end{tabular} \end{tabular}$ \251\104\055\005\025\362\357\013\377\020\164\237\265\142\122\137 \146\176\037\345\334\033\105\171\013\314\306\123\012\235\215\135 \002\331\251\131\336\002\132\366\225\052\016\215\070\112\212\111 \306\274\306\003\070\007\137\125\332\176\011\156\342\177\136\320 \105\040\017\131\166\020\326\240\044\360\055\336\066\362\154\051 \071\243\102\060\100\060\017\006\003\125\035\023\001\001\377\004 \005\060\003\001\001\377\060\016\006\003\125\035\017\001\001\377 \004\004\003\002\001\206\060\035\006\003\125\035\016\004\026\004 $\label{eq:24} \end{tabular} \end{tabular}$ \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 \162\141\236\136\020\222\131\126\271\203\307\020\347\070\351\130 \046\066\175\325\344\064\206\071\002\060\174\066\123\360\060\345 \142\143\072\231\342\266\243\073\233\064\372\036\332\020\222\161 \136\221\023\247\335\244\156\222\314\062\326\365\041\146\307\057 \352\226\143\152\145\105\222\225\001\264

\154\354 END

CKA_SERIAL_NUMBER MULTILINE_OCTAL \002\020\013\241\132\372\035\337\240\265\111\104\257\315\044\240

END

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

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): 7E:37:CB:8B:4C:47:09:0C:AB:36:55:1B:A6:F4:5D:B8:40:68:0F:BA:16:6A:95:2D:B1:00:71:7F:43:05:3F:C2 # Fingerprint (SHA1): F5:17:A2:4F:9A:48:C6:C9:F8:A2:00:26:9F:DC:0F:48:2C:AB:30:89 CKA CLASS CK_OBJECT_CLASS CKO_NSS_TRUST CKA TOKEN CK BBOOL CK TRUE CKA_PRIVATE CK_BBOOL CK_FALSE CKA_MODIFIABLE CK_BBOOL CK_FALSE CKA LABEL UTF8 "DigiCert Assured ID Root G3" CKA_CERT_SHA1_HASH MULTILINE_OCTAL \365\027\242\117\232\110\306\311\370\242\000\046\237\334\017\110 \054\253\060\211 END CKA CERT MD5 HASH MULTILINE OCTAL \174\177\145\061\014\201\337\215\272\076\231\342\134\255\156\373 **END** CKA ISSUER MULTILINE OCTAL \060\145\061\013\060\011\006\003\125\004\006\023\002\125\123\061 \025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145 \162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023 \020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157 $\label{eq:103} \\ 103 \\ 145 \\ 162 \\ 164 \\ 040 \\ 101 \\ 163 \\ 163 \\ 165 \\ 162 \\ 145 \\ 144 \\ 040 \\ 111 \\ 104 \\ 040 \\ 101 \\ 104 \\$ \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: 43: C1: 14: 4C: EA: 27: D4: 6A: 5A: B1: CB: 5F: 43: C1: 14: 4C: EA: 27: D4: 6A: 5A: B1: CB: 5F: 43: C1: 14: 4C: EA: 27: D4: 6A: 5A: B1: CB: 5F: 43: C1: 14: 4C: EA: 27: D4: 6A: 5A: B1: CB: 5F: 43: C1: 14: 4C: EA: 27: D4: 43: C1: 14: 4C: EA: 27: D4: 43: C1: 14: 4C: 24: 27: D4: 43: 27: D4: 27:

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

 $\label{eq:sphere:sphe$

040 107 062

END

CKA_ID

UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

 $\label{eq:sphere:sphe$

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

 $\label{eq:2.1} $$ 002\003\072\361\346\247\021\251\240\273\050\144\261\035\011\372\345 $$$

END

CKA_VALUE MULTILINE_OCTAL

\040\060\036\006\003\125\004\003\023\027\104\151\147\151\103\145 $\label{eq:162} $$ 164\040\107\154\157\142\141\154\040\122\157\157\164\040\107\$ \062\060\036\027\015\061\063\060\070\060\061\061\062\060\060 \060\132\027\015\063\070\060\061\061\065\061\062\060\060\060\060 \132\060\141\061\013\060\011\006\003\125\004\006\023\002\125\123 \061\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103 \145\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013 $\label{eq:22} \end{tabular} \end{tabular}$ \157\155\061\040\060\036\006\003\125\004\003\023\027\104\151\147 $\label{eq:151} 103 145 162 164 040 107 154 157 142 141 154 040 122 157 157$ \164\040\107\062\060\202\001\042\060\015\006\011\052\206\110\206 \367\015\001\001\001\005\000\003\202\001\017\000\060\202\001\012 \002\202\001\001\000\273\067\315\064\334\173\153\311\262\150\220 \255\112\165\377\106\272\041\012\010\215\365\031\124\311\373\210 \333\363\256\362\072\211\221\074\172\346\253\006\032\153\317\254 \055\350\136\011\044\104\272\142\232\176\326\243\250\176\340\124 \165\040\005\254\120\267\234\143\032\154\060\334\332\037\031\261 \327\036\336\375\327\340\313\224\203\067\256\354\037\103\116\335 \173\054\322\275\056\245\057\344\251\270\255\072\324\231\244\266 $\label{eq:22} \end{tabular} \end{tabular}$ \253\141\006\234\217\362\272\351\264\351\222\062\153\265\363\127 \350\135\033\315\214\035\253\225\004\225\111\363\065\055\226\343 $\label{eq:111} $$ 335 167 343 373 111 13 264 254 125 007 251 217 225 263 $$$ \264\043\273\114\155\105\360\366\251\262\225\060\264\375\114\125 \214\120\321\217\036\011\276\027\241\346\041\312\375\203\345\020 \274\203\245\012\304\147\050\366\163\024\024\075\106\166\303\207 $\label{eq:211} 041 064 115 257 017 105 014 246 111 241 272 273 234 305$ \261\063\203\051\205\002\003\001\000\001\243\102\060\100\060\017 \006\003\125\035\023\001\001\377\004\005\060\003\001\001\377\060 \016\006\003\125\035\017\001\001\377\004\003\002\001\206\060 \035\006\003\125\035\016\004\026\004\024\116\042\124\040\030\225 \346\343\156\346\017\372\372\271\022\355\006\027\217\071\060\015 \006\011\052\206\110\206\367\015\001\001\013\005\000\003\202\001 \001\000\140\147\050\224\157\016\110\143\353\061\335\352\147\030 \325\211\175\074\305\213\112\177\351\276\333\053\027\337\260\137 \163\167\052\062\023\071\201\147\102\204\043\362\105\147\065\354 \210\277\370\217\260\141\014\064\244\256\040\114\204\306\333\370 $\label{eq:2.1} \end{tabular} $$ \065\341\166\331\337\246\102\273\307\104\010\206\177\066\164\044 $$ $$ \132\332\154\015\024\131\065\275\362\111\335\266\037\311\263\015 \107\052\075\231\057\273\134\273\265\324\040\341\231\137\123\106 \025\333\150\233\360\363\060\325\076\061\342\215\204\236\343\212 \332\332\226\076\065\023\245\137\360\371\160\120\160\107\101\021 \127\031\116\300\217\256\006\304\225\023\027\057\033\045\237\165 \362\261\216\231\241\157\023\261\101\161\376\210\052\310\117\020 \040\125\327\363\024\105\345\340\104\364\352\207\225\062\223\016 \376\123\106\372\054\235\377\213\042\271\113\331\011\105\244\336 \244\270\232\130\335\033\175\122\237\216\131\103\210\201\244\236

\046\325\157\255\335\015\306\067\175\355\003\222\033\345\167\137 \166\356\074\215\304\135\126\133\242\331\146\156\263\065\067\345 \062\266 END CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE CKA NSS SERVER DISTRUST AFTER CK BBOOL CK FALSE CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE # Trust for "DigiCert Global Root G2" # Issuer: CN=DigiCert Global Root G2,OU=www.digicert.com,O=DigiCert Inc,C=US # Serial Number:03:3a:f1:e6:a7:11:a9:a0:bb:28:64:b1:1d:09:fa:e5 # Subject: CN=DigiCert Global Root G2,OU=www.digicert.com,O=DigiCert Inc,C=US # Not Valid Before: Thu Aug 01 12:00:00 2013 # Not Valid After : Fri Jan 15 12:00:00 2038 # Fingerprint (SHA-256): CB:3C:CB:B7:60:31:E5:E0:13:8F:8D:D3:9A:23:F9:DE:47:FF:C3:5E:43:C1:14:4C:EA:27:D4:6A:5A:B1:CB:5F # Fingerprint (SHA1): DF:3C:24:F9:BF:D6:66:76:1B:26:80:73:FE:06:D1:CC:8D:4F:82:A4 CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST CKA TOKEN CK BBOOL CK TRUE CKA_PRIVATE CK_BBOOL CK_FALSE CKA_MODIFIABLE CK_BBOOL CK_FALSE CKA LABEL UTF8 "DigiCert Global Root G2" CKA_CERT_SHA1_HASH MULTILINE_OCTAL \337\074\044\371\277\326\146\166\033\046\200\163\376\006\321\314 \215\117\202\244 END CKA CERT MD5 HASH MULTILINE OCTAL \344\246\212\310\124\254\122\102\106\012\375\162\110\033\052\104 END CKA ISSUER MULTILINE OCTAL \060\141\061\013\060\011\006\003\125\004\006\023\002\125\123\061 \025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145 \162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023 $\label{eq:20} \end{tabular} \end{tabular}$ \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 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

#

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

 $\label{eq:2.123} \\ 060 \\ 141 \\ 061 \\ 013 \\ 060 \\ 011 \\ 006 \\ 003 \\ 125 \\ 004 \\ 006 \\ 023 \\ 002 \\ 125 \\ 123 \\ 061 \\ 061 \\ 012 \\ 006 \\ 023 \\ 002 \\ 125 \\ 123 \\ 061 \\ 012 \\ 006 \\ 023 \\ 002 \\ 125 \\ 004 \\ 006 \\ 023 \\ 002 \\ 125 \\ 004 \\ 006 \\ 023 \\ 002 \\ 125 \\ 004 \\ 006 \\ 002 \\ 002 \\ 002 \\ 125 \\ 004 \\ 006 \\ 002 \\ 002 \\ 002 \\ 125 \\ 004 \\ 006 \\ 002 \\ 002 \\ 002 \\ 125 \\ 004 \\ 006 \\ 002$

 $\label{eq:linear} $$ 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

\103\145\162\164\040\107\154\157\142\141\154\040\122\157\164

\040\107\063

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

 $\label{eq:sphere:sphe$

\040\107\063

END

CKA_SERIAL_NUMBER

MULTILINE_OCTAL

\002\020\005\125\126\274\362\136\244\065\065\303\244\017\325\253 \105\162

END

CKA_VALUE MULTILINE_OCTAL

\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 \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 \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 \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 $\label{eq:203} $$ 100\203\234\350\077\101\155\073\255\323\244\024\131\066\170\235\$ \003\103\356\020\023\154\162\336\256\210\247\241\153\265\103\316 \147\334\043\377\003\034\243\342\076\243\102\060\100\060\017\006 \003\125\035\023\001\001\377\004\005\060\003\001\001\377\060\016 \006\003\125\035\017\001\001\377\004\004\003\002\001\206\060\035 \006\003\125\035\016\004\026\004\024\263\333\110\244\371\241\305 \330\256\066\101\314\021\143\151\142\051\274\113\306\060\012\006 \010\052\206\110\316\075\004\003\003\003\150\000\060\145\002\061 \000\255\274\362\154\077\022\112\321\055\071\303\012\011\227\163 \364\210\066\214\210\047\273\346\210\215\120\205\247\143\371\236 \062\336\146\223\017\361\314\261\011\217\335\154\253\372\153\177 \240\002\060\071\146\133\302\144\215\270\236\120\334\250\325\111 \242\355\307\334\321\111\177\027\001\270\310\206\217\116\214\210 \053\250\232\251\212\305\321\000\275\370\124\342\232\345\133\174 \263\047\027

END

CKA_NSS_MOZILLA_CA_POLICY

CK_BBOOL CK_TRUE

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

 $\label{eq:spinor} $$ \ (060) 142 \ (013) \ (060) \ (011) \ (003) \ (125) \ (004) \ (003) \ (023) \ (002) \ (125) \ (123) \ (012) \ (023) \ (012) \ (023) \ (012) \ (023) \ (012) \ (023) \ (012) \ (023) \ ($

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

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

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\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
\060\060\132\027\015\063\070\060\061\061\065\061\062\060\060\060
\060\132\060\142\061\013\060\011\006\003\125\004\006\023\002\125
\123\061\025\060\023\006\003\125\004\012\023\014\104\151\147\151
\103\145\162\164\040\111\156\143\061\031\060\027\006\003\125\004
\013\023\020\167\167\167\056\144\151\147\151\143\145\162\164\056
\143\157\155\061\041\060\037\006\003\125\004\003\023\030\104\151
\label{eq:147} $$ 143\145\162\164\040\124\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} $$ 137\261\172\146\356\167\310\110\250\146\127\127\237\124\130\216\$ \136\345\065\347\061\313\332\223\136\334\216\217\200\332\266\221 \230\100\220\171\303\170\307\266\261\304\265\152\030\070\003\020 \215\330\324\067\244\056\005\175\210\365\202\076\020\221\160\253 $\label{eq:202} $$ 125\202\101\062\327\333\004\163\052\156\221\001\174\041\114\324$ \274\256\033\003\165\135\170\146\331\072\061\104\232\063\100\277 $\label{eq:10} \end{tabular} \end{tabular}$ \071\265\021\130\027\367\044\134\106\217\144\367\301\151\210\166 \230\166\075\131\135\102\166\207\211\227\151\172\110\360\340\242 $\label{eq:22} \end{tabular} \end{tabular}$ \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 $\label{eq:25} $$ 175\034\225\303\217\367\041\262\262\021\267\273\177\362\325\214\$ \160\054\101\140\252\261\143\030\104\225\032\166\142\176\366\200 \260\373\350\144\246\063\321\211\007\341\275\267\346\103\244\030 \270\246\167\001\341\017\224\014\041\035\262\124\051\045\211\154 \345\016\122\121\107\164\276\046\254\266\101\165\336\172\254\137 $\label{eq:2.162} $$ 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 \060\015\006\011\052\206\110\206\367\015\001\001\014\005\000\003 \202\002\001\000\273\141\331\175\251\154\276\027\304\221\033\303 \241\242\000\215\343\144\150\017\126\317\167\256\160\371\375\232 \112\231\271\311\170\134\014\014\137\344\346\024\051\126\013\066 \155\153\326\124\370\322\074\301\103\100\256\035\120\365\122\374 \220\073\273\230\231\151\153\307\301\247\250\150\244\047\334\235 \371\047\256\060\205\271\366\147\115\072\076\217\131\071\042\123 \104\353\310\135\003\312\355\120\172\175\142\041\012\200\310\163 \146\321\240\005\140\137\350\245\264\247\257\250\367\155\065\234 \174\132\212\326\242\070\231\363\170\213\364\115\322\040\013\336 \004\356\214\233\107\201\162\015\300\024\062\357\060\131\056\256

\340\161\362\126\344\152\227\157\222\120\155\226\215\150\172\232 \262\066\024\172\006\362\044\271\011\021\120\327\010\261\270\211 $\label{eq:172} $$ 172\04\043\141\102\051\345\243\315\242\040\101\327\321\234\144 $$$ $\label{eq:331} 352 046 241 213 024 327 114 031 262 120 101 161 075 077 115$ \160\043\206\014\112\334\201\322\314\062\224\204\015\010\011\227 $\label{eq:20} \end{tabular} \end{tabular}$ \001\010\350\125\062\336\161\111\331\050\027\120\115\346\276\115 \321\165\254\320\312\373\101\270\103\245\252\323\303\005\104\117 \054\066\233\342\372\342\105\270\043\123\154\006\157\147\125\177 \106\265\114\077\156\050\132\171\046\322\244\250\142\227\322\036 \342\355\112\213\274\033\375\107\112\015\337\147\146\176\262\133 $\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 \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

\164\040\107\064

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

\002\020\005\233\033\127\236\216\041\062\342\071\007\275\247\167 \165\134

END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#

Certificate "COMODO RSA Certification Authority"

#

Issuer: CN=COMODO RSA Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB

Serial Number:4c:aa:f9:ca:db:63:6f:e0:1f:f7:4e:d8:5b:03:86:9d

Subject: CN=COMODO RSA Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB

Not Valid Before: Tue Jan 19 00:00:00 2010

Not Valid After : Mon Jan 18 23:59:59 2038

Fingerprint (SHA-256):

52:F0:E1:C4:E5:8E:C6:29:29:1B:60:31:7F:07:46:71:B8:5D:7E:A8:0D:5B:07:27:34:63:53:4B:32:B4:02:34

Fingerprint (SHA1): AF:E5:D2:44:A8:D1:19:42:30:FF:47:9F:E2:F8:97:BB:CD:7A:8C:B4

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "COMODO RSA Certification Authority"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL

\060\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 \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 \004\003\023\042\103\117\115\117\104\117\040\122\123\101\040\103 \145\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164 \150\157\162\151\164\171\060\036\027\015\061\060\060\061\061\071 \060\060\060\060\060\060\132\027\015\063\070\060\061\061\070\062 \063\065\071\065\071\132\060\201\205\061\013\060\011\006\003\125 \004\006\023\002\107\102\061\033\060\031\006\003\125\004\010\023 $\label{eq:2.107} \\ (022) \\ 107) \\ 162) \\ 145) \\ 141) \\ 164) \\ 145) \\ 162) \\ 040) \\ 115) \\ 141) \\ 156) \\ 143) \\ 150) \\ 145) \\ 163) \\ 1$ \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 $\label{eq:103} 117 115 117 104 117 040 103 101 040 114 151 155 151 164 145$ \144\061\053\060\051\006\003\125\004\003\023\042\103\117\115\117 $\label{eq:104} $$ 104\103\145\162\164\151\146\151\143\141 $$$ $\label{eq:164} $$ 151\157\156\040\101\165\164\150\157\162\151\164\171\060\202 $$$ \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

CKA VALUE MULTILINE OCTAL

\002\020\114\252\371\312\333\143\157\340\037\367\116\330\133\003 \206\235

MULTILINE OCTAL

CKA_SERIAL_NUMBER

END

END

165 164 150 157 162 151 164 171

\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 ISSUER MULTILINE OCTAL

UTF8 "0"

CKA ID

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

\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101

\217\113\177\020\126\275\237\160\162\267\141\177\311\113\017\027 \247\075\343\260\004\141\356\377\021\227\307\364\206\076\012\372 \076\134\371\223\346\064\172\331\024\153\347\234\263\205\240\202 \172\166\257\161\220\327\354\375\015\372\234\154\372\337\260\202 \364\024\176\371\276\304\246\057\117\177\231\177\265\374\147\103 \162\275\014\000\326\211\353\153\054\323\355\217\230\034\024\253 \176\345\343\156\374\330\250\344\222\044\332\103\153\142\270\125 \375\352\301\274\154\266\213\363\016\215\232\344\233\154\151\231 \370\170\110\060\105\325\255\341\015\074\105\140\374\062\226\121 \047\274\147\303\312\056\266\153\352\106\307\307\040\240\261\037 \145\336\110\010\272\244\116\251\362\203\106\067\204\353\350\314 $\label{eq:201110} \end{tabular} 103\147\116\162\052\233\134\275\114\033\050\212\134\042$ \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 \102\036\211\330\204\313\023\361\331\273\341\211\140\270\214\050 \126\254\024\035\234\012\347\161\353\317\016\335\075\251\226\241 \110\275\074\367\257\265\015\042\114\300\021\201\354\126\073\366 \323\242\342\133\267\262\004\042\122\225\200\223\151\350\216\114 \145\361\221\003\055\160\164\002\352\213\147\025\051\151\122\002 \273\327\337\120\152\125\106\277\240\243\050\141\177\160\320\303 \242\252\054\041\252\107\316\050\234\006\105\166\277\202\030\047 \264\325\256\264\313\120\346\153\364\114\206\161\060\351\246\337 \026\206\340\330\377\100\335\373\320\102\210\177\243\063\072\056 \134\036\101\021\201\143\316\030\161\153\053\354\246\212\267\061 \134\072\152\107\340\303\171\131\326\040\032\257\362\152\230\252 \162\274\127\112\322\113\235\273\020\374\260\114\101\345\355\035 \075\136\050\235\234\314\277\263\121\332\247\107\345\204\123\002 \003\001\000\001\243\102\060\100\060\035\006\003\125\035\016\004 \026\004\024\273\257\176\002\075\372\246\361\074\204\216\255\356 \070\230\354\331\062\062\324\060\016\006\003\125\035\017\001\001 \377\004\003\002\001\006\060\017\006\003\125\035\023\001\001 \377\004\005\060\003\001\001\377\060\015\006\011\052\206\110\206 \367\015\001\001\014\005\000\003\202\002\001\000\012\361\325\106 \204\267\256\121\273\154\262\115\101\024\000\223\114\234\313\345 \300\124\317\240\045\216\002\371\375\260\242\015\365\040\230\074 \023\055\254\126\242\260\326\176\021\222\351\056\272\236\056\232 \162\261\275\031\104\154\141\065\242\232\264\026\022\151\132\214 \341\327\076\244\032\350\057\003\364\256\141\035\020\033\052\244 \213\172\305\376\005\246\341\300\326\310\376\236\256\217\053\272 \075\231\370\330\163\011\130\106\156\246\234\364\327\047\323\225 \332\067\203\162\034\323\163\340\242\107\231\003\070\135\325\111 \171\000\051\034\307\354\233\040\034\007\044\151\127\170\262\071 \374\072\204\240\265\234\174\215\277\056\223\142\047\267\071\332 \027\030\256\275\074\011\150\377\204\233\074\325\326\013\003\343 \127\236\024\367\321\353\117\310\275\207\043\267\266\111\103\171

\205\134\272\353\222\013\241\306\350\150\250\114\026\261\032\231 \012\350\123\054\222\273\241\011\030\165\014\145\250\173\313\043 \267\032\302\050\205\303\033\377\320\053\142\357\244\173\011\221 \230\147\214\024\001\315\150\006\152\143\041\165\003\200\210\212 \315\364\215\171\130\261\006\233\347\032\052\331\235\001\327\224 \175\355\003\112\312\360\333\350\251\001\076\365\126\231\311\036 \216\111\075\273\345\011\271\340\117\111\222\075\026\202\100\314 \314\131\306\346\072\355\022\056\151\074\154\225\261\375\252\035 \173\177\206\276\036\016\062\106\373\373\023\217\165\177\114\213 $\label{eq:113} 106 143 376 000 064 100 160 301 303 271 241 335 246 160 342$ $\label{eq:263} \\ 101 \\ 274 \\ 351 \\ 200 \\ 221 \\ 352 \\ 144 \\ 234 \\ 172 \\ 341 \\ 042 \\ 003 \\ 251 \\ 234 \\ 1234$ \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 \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):

52:F0:E1:C4:E5:8E:C6:29:29:1B:60:31:7F:07:46:71:B8:5D:7E:A8:0D:5B:07:27:34:63:53:4B:32:B4:02:34 #

Fingerprint (SHA1): AF:E5:D2:44:A8:D1:19:42:30:FF:47:9F:E2:F8:97:BB:CD:7A:8C:B4

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "COMODO RSA Certification Authority"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL

 $\label{eq:257} $$ $$ 257 345 322 104 250 321 031 102 060 377 107 237 342 370 227 273 $$$

315 172 214 264

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL

\033\061\260\161\100\066\314\024\066\221\255\304\076\375\354\030 END

CKA_ISSUER MULTILINE_OCTAL

```
\060\201\205\061\013\060\011\006\003\125\004\006\023\002\107\102
\061\033\060\031\006\003\125\004\010\023\022\107\162\145\141\164
\145\162\040\115\141\156\143\150\145\163\164\145\162\061\020\060
\016\006\003\125\004\007\023\007\123\141\154\146\157\162\144\061
\032\060\030\006\003\125\004\012\023\021\103\117\115\117\104\117
\040\103\101\040\114\151\155\151\164\145\144\061\053\060\051\006
\003\125\004\003\023\042\103\117\115\117\104\117\040\122\123\101
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171
END
CKA_SERIAL_NUMBER
```

MULTILINE_OCTAL

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

\206\235

END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#

Certificate "USERTrust RSA Certification Authority" # # Issuer: CN=USERTrust RSA Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New Jersey,C=US # Serial Number:01:fd:6d:30:fc:a3:ca:51:a8:1b:bc:64:0e:35:03:2d # Subject: CN=USERTrust RSA Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New Jersey,C=US # Not Valid Before: Mon Feb 01 00:00:00 2010 # Not Valid After : Mon Jan 18 23:59:59 2038 # Fingerprint (SHA-256): E7:93:C9:B0:2F:D8:AA:13:E2:1C:31:22:8A:CC:B0:81:19:64:3B:74:9C:89:89:64:B1:74:6D:46:C3:D4:CB:D2 # Fingerprint (SHA1): 2B:8F:1B:57:33:0D:BB:A2:D0:7A:6C:51:F7:0E:E9:0D:DA:B9:AD:8E CKA CLASS CK_OBJECT_CLASS CKO_CERTIFICATE CKA_TOKEN CK_BBOOL CK_TRUE CKA_PRIVATE CK_BBOOL CK_FALSE CKA_MODIFIABLE CK_BBOOL CK_FALSE CKA_LABEL UTF8 "USERTrust RSA Certification Authority" CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509 CKA_SUBJECT MULTILINE_OCTAL \060\201\210\061\013\060\011\006\003\125\004\006\023\002\125\123 \061\023\060\021\006\003\125\004\010\023\012\116\145\167\040\112 \145\162\163\145\171\061\024\060\022\006\003\125\004\007\023\013 \112\145\162\163\145\171\040\103\151\164\171\061\036\060\034\006

 $\label{eq:listical_$

\002\020\001\375\155\060\374\243\312\121\250\033\274\144\016\065

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

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

CKA ISSUER MULTILINE OCTAL

END

END

\003\055

CKA_SERIAL_NUMBER MULTILINE_OCTAL

CKA ID UTF8 "0"

END CKA VALUE MULTILINE OCTAL \060\202\005\336\060\202\003\306\240\003\002\001\002\002\002\001 \375\155\060\374\243\312\121\250\033\274\144\016\065\003\055\060 \015\006\011\052\206\110\206\367\015\001\001\014\005\000\060\201 \210\061\013\060\011\006\003\125\004\006\023\002\125\123\061\023 \060\021\006\003\125\004\010\023\012\116\145\167\040\112\145\162 \163\145\171\061\024\060\022\006\003\125\004\007\023\013\112\145 $\label{eq:162} $$ 163\145\171\040\103\151\164\171\061\036\060\034\006\003\125\$ \004\012\023\025\124\150\145\040\125\123\105\122\124\122\125\123 \124\040\116\145\164\167\157\162\153\061\056\060\054\006\003\125 \004\003\023\045\125\123\105\122\124\162\165\163\164\040\122\123 \101\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040 \101\165\164\150\157\162\151\164\171\060\036\027\015\061\060\060 \062\060\061\060\060\060\060\060\060\132\027\015\063\070\060\061 \061\070\062\063\065\071\065\071\132\060\201\210\061\013\060\011 \006\003\125\004\006\023\002\125\123\061\023\060\021\006\003\125 $\label{eq:2.1} \end{tabular} \end{tabular}$ \060\022\006\003\125\004\007\023\013\112\145\162\163\145\171\040 \103\151\164\171\061\036\060\034\006\003\125\004\012\023\025\124 $\label{eq:150} $$ 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 $\label{eq:123} 105 122 124 162 165 163 164 040 122 123 101 040 103 145 162$ \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

Open Source Used In vmoperator Crafton-3.0 802

\002\202\002\001\000\200\022\145\027\066\016\303\333\010\263\320 \254\127\015\166\355\315\047\323\114\255\120\203\141\342\252\040 $\label{eq:115}011\\055\\144\\011\\334\\316\\211\\237\\314\\075\\251\\354\\366\\317\\301$ \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 $\label{eq:221} 370 \\ 342 \\ 157 \\ 320 \\ 354 \\ 026 \\ 040 \\ 220 \\ 011 \\ 076 \\ 342 \\ 350 \\ 164 \\ 311 \\ 030 \\ 030 \\ 164 \\ 311 \\ 030 \\ 164 \\ 1$ \264\221\324\142\144\333\177\243\006\361\210\030\152\220\042\074 \274\376\023\360\207\024\173\366\344\037\216\324\344\121\306\021 \147\106\010\121\313\206\024\124\077\274\063\376\176\154\234\377 \026\235\030\275\121\216\065\246\247\146\310\162\147\333\041\146 \261\324\233\170\003\300\120\072\350\314\360\334\274\236\114\376 \257\005\226\065\037\127\132\267\377\316\371\075\267\054\266\366 \124\335\310\347\022\072\115\256\114\212\267\134\232\264\267\040 \075\312\177\042\064\256\176\073\150\146\001\104\347\001\116\106 \123\233\063\140\367\224\276\123\067\220\163\103\363\062\303\123 \357\333\252\376\164\116\151\307\153\214\140\223\336\304\307\014 \337\341\062\256\314\223\073\121\170\225\147\213\356\075\126\376 \014\320\151\017\033\017\363\045\046\153\063\155\367\156\107\372 \163\103\345\176\016\245\146\261\051\174\062\204\143\125\211\304 $\label{eq:23} \end{tabular} 1015 \end{tabular} 123 \end{tabular} 1023 \end{tabular} 254 \end{tabular} 175 \end{tabular} 067 \end{tabular} 135 \end{tabular} 135 \end{tabular} 154 \end{tabular}$ \065\134\333\101\327\022\332\251\111\013\337\330\200\212\011\223 \142\216\265\146\317\045\210\315\204\270\261\077\244\071\017\331 \002\236\353\022\114\225\174\363\153\005\251\136\026\203\314\270 \147\342\350\023\235\314\133\202\323\114\263\355\133\377\336\345 \163\254\043\073\055\000\277\065\125\164\011\111\330\111\130\032 \177\222\066\346\121\222\016\363\046\175\034\115\027\274\311\354 \103\046\320\277\101\137\100\251\104\104\364\231\347\127\207\236 \102\056\103\032\114\264\360\045\107\131\372\004\036\223\324\046 \106\112\120\201\262\336\276\170\267\374\147\025\341\311\127\204 \036\017\143\326\351\142\272\326\137\125\056\352\134\306\050\010 \004\045\071\270\016\053\251\362\114\227\034\007\077\015\122\365 \355\357\057\202\017\002\003\001\000\001\243\102\060\100\060\035 \006\003\125\035\016\004\026\004\024\123\171\277\132\252\053\112 \317\124\200\341\330\233\300\235\362\262\003\146\313\060\016\006 \003\125\035\017\001\001\377\004\004\003\002\001\006\060\017\006 \003\125\035\023\001\001\377\004\005\060\003\001\001\377\060\015 \006\011\052\206\110\206\367\015\001\001\014\005\000\003\202\002 \122\237\313\370\317\231\006\177\033\332\103\025\237\236\002\125 \127\226\024\361\122\074\047\207\224\050\355\037\072\001\067\242 \166\374\123\120\300\204\233\306\153\116\272\214\041\117\242\216 \125\142\221\363\151\025\330\274\210\343\304\252\013\375\357\250 \351\113\125\052\006\040\155\125\170\051\031\356\137\060\134\113 \044\021\125\377\044\232\156\136\052\053\356\013\115\237\177\367 \001\070\224\024\225\103\007\011\373\140\251\356\034\253\022\214 \240\232\136\247\230\152\131\155\213\077\010\373\310\321\105\257 \030\025\144\220\022\017\163\050\056\305\342\044\116\374\130\354

\360\364\105\376\042\263\353\057\216\322\331\105\141\005\301\227 \157\250\166\162\217\213\214\066\257\277\015\005\316\161\215\346 \246\157\037\154\246\161\142\305\330\320\203\162\014\361\147\021 \211\014\234\023\114\162\064\337\274\325\161\337\252\161\335\341 $\label{eq:271} $$ \271 \34 \214 \074 \2213 \145 \332 \275 \127 \022 \266 \103 \153 \377 \345 \$ \336\115\146\021\121\317\231\256\354\027\266\350\161\221\214\336 \111\376\335\065\161\242\025\047\224\034\317\141\343\046\273\157 \243\147\045\041\135\346\335\035\013\056\150\033\073\202\257\354 \203\147\205\324\230\121\164\261\271\231\200\211\377\177\170\031 \134\171\112\140\056\222\100\256\114\067\052\054\311\307\142\310 \016\135\367\066\133\312\340\045\045\001\264\335\032\007\234\167 \000\077\320\334\325\354\075\324\372\273\077\314\205\326\157\177 \251\055\337\271\002\367\365\227\232\265\065\332\303\147\260\207 \112\251\050\236\043\216\377\134\047\153\341\260\117\363\007\356 $\label{eq:2.101} \\ 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): E7:93:C9:B0:2F:D8:AA:13:E2:1C:31:22:8A:CC:B0:81:19:64:3B:74:9C:89:89:64:B1:74:6D:46:C3:D4:CB:D2 # Fingerprint (SHA1): 2B:8F:1B:57:33:0D:BB:A2:D0:7A:6C:51:F7:0E:E9:0D:DA:B9:AD:8E CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST CKA_TOKEN CK_BBOOL CK_TRUE CKA_PRIVATE CK_BBOOL CK_FALSE CKA_MODIFIABLE CK_BBOOL CK_FALSE CKA_LABEL UTF8 "USERTrust RSA Certification Authority" CKA_CERT_SHA1_HASH MULTILINE_OCTAL $\label{eq:2.1} $$ 053\217\033\127\063\015\273\242\320\172\154\121\367\016\351\015\$ \332\271\255\216

END

CKA CERT MD5 HASH MULTILINE OCTAL \033\376\151\321\221\267\031\063\243\162\250\017\341\125\345\265 END CKA ISSUER MULTILINE OCTAL \060\201\210\061\013\060\011\006\003\125\004\006\023\002\125\123 \061\023\060\021\006\003\125\004\010\023\012\116\145\167\040\112 \145\162\163\145\171\061\024\060\022\006\003\125\004\007\023\013 \112\145\162\163\145\171\040\103\151\164\171\061\036\060\034\006 \003\125\004\012\023\025\124\150\145\040\125\123\105\122\124\122 $\label{eq:122} $$ 122\101\040\103\145\162\164\151\146\151\143\141\164\151\157\$ $\label{eq:156} $$ 156\040\101\165\164\150\157\162\151\164\171 $$$ END CKA SERIAL NUMBER MULTILINE_OCTAL \002\020\001\375\155\060\374\243\312\121\250\033\274\144\016\065 \003\055 END CKA TRUST SERVER AUTH CK TRUST CKT NSS TRUSTED DELEGATOR CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST CKA TRUST STEP UP APPROVED CK BBOOL CK FALSE # # Certificate "USERTrust ECC Certification Authority" # # Issuer: CN=USERTrust ECC Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New Jersey,C=US # Serial Number:5c:8b:99:c5:5a:94:c5:d2:71:56:de:cd:89:80:cc:26 # Subject: CN=USERTrust ECC Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New Jersey, C=US # Not Valid Before: Mon Feb 01 00:00:00 2010 # Not Valid After : Mon Jan 18 23:59:59 2038 # Fingerprint (SHA-256): 4F:F4:60:D5:4B:9C:86:DA:BF:BC:FC:57:12:E0:40:0D:2B:ED:3F:BC:4D:4F:BD:AA:86:E0:6A:DC:D2:A9:AD:7A # Fingerprint (SHA1): D1:CB:CA:5D:B2:D5:2A:7F:69:3B:67:4D:E5:F0:5A:1D:0C:95:7D:F0 CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE CKA_TOKEN CK_BBOOL CK_TRUE CKA_PRIVATE CK_BBOOL CK_FALSE CKA_MODIFIABLE CK_BBOOL CK_FALSE CKA_LABEL UTF8 "USERTrust ECC Certification Authority" CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509 CKA_SUBJECT MULTILINE_OCTAL \060\201\210\061\013\060\011\006\003\125\004\006\023\002\125\123 \061\023\060\021\006\003\125\004\010\023\012\116\145\167\040\112 \145\162\163\145\171\061\024\060\022\006\003\125\004\007\023\013

\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 $\label{eq:1003} \\ 125 \\ 004 \\ 010 \\ 023 \\ 012 \\ 116 \\ 145 \\ 167 \\ 040 \\ 112 \\ 145 \\ 162 \\ 163 \\ 145 \\ 171 \\ 171 \\ 145 \\ 162 \\ 163 \\ 145 \\ 171 \\ 181$ \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 $\label{eq:2.124} $$ 040\125\123\105\122\124\122\125\123\124\040\116$ \145\164\167\157\162\153\061\056\060\054\006\003\125\004\003\023 \045\125\123\105\122\124\162\165\163\164\040\105\103\103\040\103 \145\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164 \150\157\162\151\164\171\060\036\027\015\061\060\060\062\060\061 \060\060\060\060\060\060\132\027\015\063\070\060\061\061\070\062 \063\065\071\065\071\132\060\201\210\061\013\060\011\006\003\125 \004\006\023\002\125\123\061\023\060\021\006\003\125\004\010\023 \012\116\145\167\040\112\145\162\163\145\171\061\024\060\022\006 \003\125\004\007\023\013\112\145\162\163\145\171\040\103\151\164 \171\061\036\060\034\006\003\125\004\012\023\025\124\150\145\040 $\label{eq:125} $$ 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 $\label{eq:151143141164151157156040101165164150157162151164}$

MULTILINE OCTAL

CKA_VALUE

END

\314\046

CKA_SERIAL_NUMBER MULTILINE_OCTAL \002\020\134\213\231\305\132\224\305\322\161\126\336\315\211\200

END

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

CKA_ISSUER MULTILINE_OCTAL \060\201\210\061\013\060\011\006\003\125\004\006\023\002\125\123 \061\023\060\021\006\003\125\004\010\023\012\116\145\167\040\112 \145\162\163\145\171\061\024\060\022\006\003\125\004\007\023\013 \112\145\162\163\145\171\040\103\151\164\171\061\036\060\034\006 \003\125\004\012\023\025\124\150\145\040\125\123\105\122\124\122 \125\123\124\040\116\145\164\167\157\162\153\061\056\060\054\006 \003\125\004\003\023\045\125\123\105\122\124\162\165\163\164\040 \105\103\103\040\103\145\162\164\151\146\151\143\141\164\151\157

UTF8 "0"

CKA_ID

END

156 040 101 165 164 150 157 162 151 164 171

 $\label{eq:listical_$

\171\060\166\060\020\006\007\052\206\110\316\075\002\001\006\005 \053\201\004\000\042\003\142\000\004\032\254\124\132\251\371\150 \043\347\172\325\044\157\123\306\132\330\113\253\306\325\266\321 \346\163\161\256\335\234\326\014\141\375\333\240\211\003\270\005 $\label{eq:24} $$ 024 354 127 316 356 135 077 342 041 263 316 367 324 212 171 340 $$$ \243\203\176\055\227\320\141\304\361\231\334\045\221\143\253\177 \060\243\264\160\342\307\241\063\234\363\277\056\134\123\261\137 \263\175\062\177\212\064\343\171\171\243\102\060\100\060\035\006 \003\125\035\016\004\026\004\024\072\341\011\206\324\317\031\302 \226\166\164\111\166\334\340\065\306\143\143\232\060\016\006\003 \125\035\017\001\001\377\004\003\002\001\006\060\017\006\003 \125\035\023\001\001\377\004\005\060\003\001\001\377\060\012\006 \010\052\206\110\316\075\004\003\003\003\150\000\060\145\002\060 \066\147\241\026\010\334\344\227\000\101\035\116\276\341\143\001 \317\073\252\102\021\144\240\235\224\071\002\021\171\134\173\035 \372\144\271\356\026\102\263\277\212\302\011\304\354\344\261\115 \002\061\000\351\052\141\107\214\122\112\113\116\030\160\366\326 \104\326\156\365\203\272\155\130\275\044\331\126\110\352\357\304 \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

 $\label{eq:21} $$ 312\135\262\325\052\177\151\073\147\115\345\360\132\035\$

014225175360

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL

 $\label{eq:2.150} $$ 31\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 \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 \003\125\004\003\023\045\125\123\105\122\124\162\165\163\164\040 $\label{eq:105103103040103145162164151146151143141164151157} \\$ $\label{eq:156} $$ 156\040\101\165\164\150\157\162\151\164\171 $$$ END CKA SERIAL NUMBER MULTILINE_OCTAL \002\020\134\213\231\305\132\224\305\322\161\126\336\315\211\200 \314\046 END CKA TRUST SERVER AUTH CK TRUST CKT NSS TRUSTED DELEGATOR CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST CKA TRUST STEP UP APPROVED CK BBOOL CK FALSE # # Certificate "GlobalSign ECC Root CA - R5" # # Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R5 # Serial Number:60:59:49:e0:26:2e:bb:55:f9:0a:77:8a:71:f9:4a:d8:6c # Subject: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R5 # Not Valid Before: Tue Nov 13 00:00:00 2012 # Not Valid After : Tue Jan 19 03:14:07 2038 # Fingerprint (SHA-256): 17:9F:BC:14:8A:3D:D0:0F:D2:4E:A1:34:58:CC:43:BF:A7:F5:9C:81:82:D7:83:A5:13:F6:EB:EC:10:0C:89:24 # Fingerprint (SHA1): 1F:24:C6:30:CD:A4:18:EF:20:69:FF:AD:4F:DD:5F:46:3A:1B:69:AA CKA CLASS CK OBJECT CLASS CKO CERTIFICATE CKA_TOKEN CK_BBOOL CK_TRUE CKA_PRIVATE CK_BBOOL CK_FALSE CKA_MODIFIABLE CK_BBOOL CK_FALSE CKA_LABEL UTF8 "GlobalSign ECC Root CA - R5" CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509 CKA_SUBJECT MULTILINE_OCTAL \060\120\061\044\060\042\006\003\125\004\013\023\033\107\154\157 $\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 ID

UTF8 "0"

CKA ISSUER MULTILINE OCTAL

\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 \021\006\003\125\004\003\023\012\107\154\157\142\141\154\123\151

\147\156

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

 $\label{eq:2.1} \end{tabular} \end{tabular}$ \112\330\154

END

CKA_VALUE MULTILINE_OCTAL

\060\202\002\036\060\202\001\244\240\003\002\001\002\002\021\140 $\label{eq:131} 111340046056273125371012167212161371112330154$ \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 $\label{eq:151147156040105103103040122157157164040103101040} \label{eq:151147156040105103103040122157157164040103101040}$ \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 \027\015\061\062\061\061\061\063\060\060\060\060\060\060\132\027 \015\063\070\060\061\061\071\060\063\061\064\060\067\132\060\120 \061\044\060\042\006\003\125\004\013\023\033\107\154\157\142\141 \154\123\151\147\156\040\105\103\103\040\122\157\157\164\040\103 \101\040\055\040\122\065\061\023\060\021\006\003\125\004\012\023 \012\107\154\157\142\141\154\123\151\147\156\061\023\060\021\006 \003\125\004\003\023\012\107\154\157\142\141\154\123\151\147\156 \060\166\060\020\006\007\052\206\110\316\075\002\001\006\005\053 \201\004\000\042\003\142\000\004\107\105\016\226\373\175\135\277 \351\071\321\041\370\237\013\266\325\173\036\222\072\110\131\034 \360\142\061\055\300\172\050\376\032\247\134\263\266\314\227\347 $\label{eq:105} $$ 105\324\130\372\321\167\155\103\242\300\207\145\064\012\037\172\$ \335\353\074\063\241\305\235\115\244\157\101\225\070\177\311\036 \204\353\321\236\111\222\207\224\207\014\072\205\112\146\237\235 \131\223\115\227\141\006\206\112\243\102\060\100\060\016\006\003 \125\035\017\001\001\377\004\003\002\001\006\060\017\006\003 \125\035\023\001\001\377\004\005\060\003\001\001\377\060\035\006 \003\125\035\016\004\026\004\024\075\346\051\110\233\352\007\312 \041\104\112\046\336\156\336\322\203\320\237\131\060\012\006\010 \052\206\110\316\075\004\003\003\003\150\000\060\145\002\061\000 \345\151\022\311\156\333\306\061\272\011\101\341\227\370\373\375 \232\342\175\022\311\355\174\144\323\313\005\045\213\126\331\240 \347\136\135\116\013\203\234\133\166\051\240\011\046\041\152\142 \002\060\161\322\265\217\134\352\073\341\170\011\205\250\165\222 \073\310\134\375\110\357\015\164\042\250\010\342\156\305\111\316

\307\014\274\247\141\151\361\367\073\341\052\313\371\053\363\146 \220\067 END CKA_NSS_MOZILLA_CA_POLICY CK BBOOL CK TRUE CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA NSS EMAIL DISTRUST AFTER CK BBOOL CK FALSE # Trust for "GlobalSign ECC Root CA - R5" # Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R5 # Serial Number:60:59:49:e0:26:2e:bb:55:f9:0a:77:8a:71:f9:4a:d8:6c # Subject: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R5 # Not Valid Before: Tue Nov 13 00:00:00 2012 # Not Valid After : Tue Jan 19 03:14:07 2038 # Fingerprint (SHA-256): 17:9F:BC:14:8A:3D:D0:0F:D2:4E:A1:34:58:CC:43:BF:A7:F5:9C:81:82:D7:83:A5:13:F6:EB:EC:10:0C:89:24 # Fingerprint (SHA1): 1F:24:C6:30:CD:A4:18:EF:20:69:FF:AD:4F:DD:5F:46:3A:1B:69:AA CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST CKA_TOKEN CK_BBOOL CK_TRUE CKA PRIVATE CK BBOOL CK FALSE CKA_MODIFIABLE CK_BBOOL CK_FALSE CKA_LABEL UTF8 "GlobalSign ECC Root CA - R5" CKA CERT SHA1 HASH MULTILINE OCTAL \037\044\306\060\315\244\030\357\040\151\377\255\117\335\137\106 \072\033\151\252 END CKA_CERT_MD5_HASH MULTILINE_OCTAL \237\255\073\034\002\036\212\272\027\164\070\201\014\242\274\010 **END** CKA_ISSUER MULTILINE_OCTAL \060\120\061\044\060\042\006\003\125\004\013\023\033\107\154\157 \142\141\154\123\151\147\156\040\105\103\103\040\122\157\157\164 \040\103\101\040\055\040\122\065\061\023\060\021\006\003\125\004 \012\023\012\107\154\157\142\141\154\123\151\147\156\061\023\060 \021\006\003\125\004\003\023\012\107\154\157\142\141\154\123\151 \147\156 **END** CKA_SERIAL_NUMBER MULTILINE_OCTAL \002\021\140\131\111\340\046\056\273\125\371\012\167\212\161\371 \112\330\154 END CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#

```
# Certificate "Staat der Nederlanden Root CA - G3"
```

#

Issuer: CN=Staat der Nederlanden Root CA - G3,O=Staat der Nederlanden,C=NL

Serial Number: 10003001 (0x98a239)

Subject: CN=Staat der Nederlanden Root CA - G3,O=Staat der Nederlanden,C=NL

Not Valid Before: Thu Nov 14 11:28:42 2013

Not Valid After : Mon Nov 13 23:00:00 2028

Fingerprint (SHA-256):

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

 $\label{eq:linear_line$

\144\145\162\040\116\145\162\154\141\156\144\145\166\040

\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

\027\015\061\063\061\061\061\064\061\061\062\070\064\062\132\027 \015\062\070\061\061\061\063\062\063\060\060\060\060\132\060\132 \061\013\060\011\006\003\125\004\006\023\002\116\114\061\036\060 \034\006\003\125\004\012\014\025\123\164\141\141\164\040\144\145 \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 \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 $\label{eq:22} $$ 050\222\331\133\043\155\146\265\155\007\102\353\246\063\316\222 $$$ \333\300\366\154\143\170\315\312\116\075\265\345\122\233\361\276 \073\346\124\140\260\146\036\011\253\007\376\124\211\021\102\321 \367\044\272\140\170\032\230\367\311\021\375\026\301\065\032\124 \165\357\103\323\345\256\116\316\347\173\303\306\116\141\121\113 \253\232\105\113\241\037\101\275\110\123\025\161\144\013\206\263 \345\056\276\316\244\033\301\051\204\242\265\313\010\043\166\103 \042\044\037\027\004\324\156\234\306\374\177\053\146\032\354\212 \345\326\317\115\365\143\011\267\025\071\326\173\254\353\343\174 \351\116\374\165\102\310\355\130\225\014\006\102\242\234\367\344 \160\263\337\162\157\132\067\100\211\330\205\244\327\361\013\336 $\label{eq:103} \\ 103 \\ 031 \\ 324 \\ 112 \\ 130 \\ 054 \\ 214 \\ 212 \\ 071 \\ 236 \\ 277 \\ 204 \\ 207 \\ 361 \\ 026 \\ 073 \\ 076 \\$ \066\014\351\323\264\312\154\031\101\122\011\241\035\260\152\277 \202\357\160\121\041\062\334\005\166\214\313\367\144\344\003\120 \257\214\221\147\253\305\362\356\130\330\336\276\367\347\061\317 \154\311\073\161\301\325\210\265\145\274\300\350\027\027\007\022 \265\134\322\253\040\223\264\346\202\203\160\066\305\315\243\215 \255\213\354\243\301\103\207\346\103\342\064\276\225\213\065\355 \007\071\332\250\035\172\237\066\236\022\260\014\145\022\220\025 $\label{eq:140} \\ 140 \\ 331 \\ 046 \\ 100 \\ 104 \\ 343 \\ 126 \\ 140 \\ 245 \\ 020 \\ 324 \\ 152 \\ 074 \\ 375 \\ 101 \\ 334 \\ 126 \\ 140 \\ 245 \\ 020 \\ 324 \\ 152 \\ 074 \\ 375 \\ 101 \\ 334 \\ 126 \\ 140 \\ 245 \\ 020 \\ 324 \\ 152 \\ 074 \\ 375 \\ 101 \\ 334 \\ 126 \\ 100 \\ 101 \\ 334 \\ 126 \\ 100 \\$ \016\132\107\266\357\227\141\165\117\331\376\307\262\035\324\355 \135\111\263\251\152\313\146\204\023\325\134\240\334\337\156\167 \006\321\161\165\310\127\157\257\017\167\133\002\003\001\000\001 \243\102\060\100\060\017\006\003\125\035\023\001\001\377\004\005 \060\003\001\001\377\060\016\006\003\125\035\017\001\001\377\004 \004\003\002\001\006\060\035\006\003\125\035\016\004\026\004\024 \124\255\372\307\222\127\256\312\065\234\056\022\373\344\272\135 \040\334\224\127\060\015\006\011\052\206\110\206\367\015\001\001 \013\005\000\003\202\002\001\000\060\231\235\005\062\310\136\016

\073\230\001\072\212\244\347\007\367\172\370\347\232\337\120\103 \123\227\052\075\312\074\107\230\056\341\025\173\361\222\363\141 \332\220\045\026\145\300\237\124\135\016\003\073\133\167\002\234 \204\266\015\230\137\064\335\073\143\302\303\050\201\302\234\051 \056\051\342\310\303\001\362\063\352\052\252\314\011\010\367\145 \147\306\315\337\323\266\053\247\275\314\321\016\160\137\270\043 \321\313\221\116\012\364\310\172\345\331\143\066\301\324\337\374 \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 $\label{eq:201} 224 011 272 335 376 115 300 203 214 224 130 300 106 040 257$ \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 $\label{eq:176} $$ 176 306 300 165 322 156 373 150 060 354 354 213 235 371 111 065 $$$ \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 \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 \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

\005\000\060\130\061\013\060\011\006\003\125\004\006\023\002\116 \114\061\036\060\034\006\003\125\004\012\014\025\123\164\141\141 \156\061\051\060\047\006\003\125\004\003\014\040\123\164\141\141 \156\040\105\126\040\122\157\157\164\040\103\101\060\036\027\015 \061\060\061\062\060\070\061\061\061\071\062\071\132\027\015\062 \062\061\062\060\070\061\061\061\060\062\070\132\060\130\061\013 \060\011\006\003\125\004\006\023\002\116\114\061\036\060\034\006 \003\125\004\012\014\025\123\164\141\141\164\040\144\145\162\040 \116\145\144\145\162\154\141\156\144\145\156\061\051\060\047\006 \003\125\004\003\014\040\123\164\141\141\164\040\144\145\162\040 $\label{eq:116} $$ 144\145\162\154\141\156\144\145\156\040\105\126\040\122 $$$ \157\157\164\040\103\101\060\202\002\042\060\015\006\011\052\206 \110\206\367\015\001\001\001\005\000\003\202\002\017\000\060\202 \002\012\002\202\002\001\000\343\307\176\211\371\044\113\072\322 \063\203\065\054\151\354\334\011\244\343\121\250\045\053\171\270 \010\075\340\221\272\204\205\306\205\244\312\346\311\056\123\244 \311\044\036\375\125\146\161\135\054\305\140\150\004\267\331\302 \122\046\070\210\244\326\073\100\246\302\315\077\315\230\223\263 \124\024\130\226\125\325\120\376\206\255\244\143\177\134\207\366 \216\346\047\222\147\027\222\002\003\054\334\326\146\164\355\335 \147\377\301\141\215\143\117\017\233\155\027\060\046\357\253\322 \037\020\240\371\305\177\026\151\201\003\107\355\036\150\215\162 \241\115\262\046\306\272\154\137\155\326\257\321\261\023\216\251

END CKA VALUE MULTILINE OCTAL

002004000230226215

MULTILINE_OCTAL

CKA_SERIAL_NUMBER

END

CKA_ISSUER MULTILINE_OCTAL \060\130\061\013\060\011\006\003\125\004\006\023\002\116\114\061 \036\060\034\006\003\125\004\012\014\025\123\164\141\141\164\040 \144\145\162\040\116\145\144\145\162\154\141\156\164\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\162\154\141\156\144\145\156\040

\060\202\005\160\060\202\003\130\240\003\002\001\002\002\004\000 \230\226\215\060\015\006\011\052\206\110\206\367\015\001\001\013

CKA_ID UTF8 "0"

END

 $\label{eq:starter} $$ $ 164 \ 106 \ 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 \ 141 \ 141 \ 164 \ 040 \ 144 \ 145 \ 162 \ 040 \ 116 \ 145 \ 162 \ 154 \ 141 \ 156 \ 144 \ 145 \ 156 \ 040 \ 144 \ 145 \ 156 \ 040 \ 144 \ 145 \ 156 \ 040 \ 144 \ 145 \ 156 \ 040 \ 144 \ 145 \ 156 \ 040 \ 144 \ 145 \ 156 \ 040 \ 144 \ 145 \ 156 \ 040 \ 144 \ 145 \ 156 \ 040 \ 144 \ 145 \ 156 \ 040 \ 144 \ 145 \ 156 \ 040 \ 144 \ 145 \ 156 \ 040 \ 144 \ 145 \ 156 \ 040 \ 144 \ 145 \ 156 \ 040 \ 144 \ 145 \ 156 \ 040 \ 144 \ 145 \ 156 \ 040 \ 144 \ 145 \ 156 \ 040 \ 144 \ 145 \ 156 \ 040 \ 156 \ 144 \ 145 \ 156 \ 040 \ 144 \ 145 \ 156 \ 040 \ 144 \ 145 \ 156 \ 040 \ 156 \ 144 \ 145 \ 156 \ 040 \ 156 \ 144 \ 145 \ 156 \ 040 \ 156 \ 144 \ 145 \ 156 \ 040 \ 156 \ 156 \ 040 \ 156 \ 156 \ 040 \ 040 \ 156 \ 040$

\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 \050\130\146\245\106\155\160\002\327\020\371\113\124\374\135\206 $\label{eq:112} $$ 12\207\317\177\312\105\254\021\132\265\040\121\215\057\210\107\$ \375\226\325\321\276\106\235\111\340\013\246\240\042\116\070\320 $\label{eq:224} $$ 301\074\060\274\160\217\054\165\314\320\305\214\121\073\075\224 $$$ \162\003\217\275\233\214\346\136\123\236\271\235\357\202\273\341 \274\342\162\101\133\041\224\323\105\067\224\321\337\011\071\135 \347\043\252\232\035\312\155\250\012\206\205\212\202\276\102\007 \326\362\070\202\163\332\207\133\345\074\323\236\076\247\073\236 \364\003\263\371\361\175\023\164\002\377\273\241\345\372\000\171 \034\246\146\101\210\134\140\127\246\056\011\304\272\375\232\317 \247\037\100\303\273\314\132\012\125\113\073\070\166\121\270\143 \213\204\224\026\346\126\363\002\003\001\000\001\243\102\060\100 \060\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001 \377\060\016\006\003\125\035\017\001\001\377\004\004\003\002\001 \006\060\035\006\003\125\035\016\004\026\004\024\376\253\000\220 \230\236\044\374\251\314\032\212\373\047\270\277\060\156\250\073 \060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\003 \202\002\001\000\317\167\054\156\126\276\116\263\266\204\000\224 \253\107\311\015\322\166\307\206\237\035\007\323\266\264\273\010 \170\257\151\322\013\111\336\063\305\254\255\302\210\002\175\006 \267\065\002\301\140\311\277\304\350\224\336\324\323\251\023\045 \132\376\156\242\256\175\005\334\175\363\154\360\176\246\215\356 \331\327\316\130\027\350\251\051\256\163\110\207\347\233\312\156 \051\241\144\137\031\023\367\256\006\020\377\121\306\233\115\125 \045\117\223\231\020\001\123\165\361\023\316\307\246\101\101\322 \277\210\245\177\105\374\254\270\245\265\063\014\202\304\373\007 \366\152\345\045\204\137\006\312\301\206\071\021\333\130\315\167 $\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 \147\207\373\115\177\134\356\151\312\163\020\373\212\251\375\236 \275\066\070\111\111\207\364\016\024\360\351\207\270\077\247\117 $\label{eq:172} $$ 172\132\216\171\324\223\344\273\150\122\204\254\154\351\363\230\$ \160\125\162\062\371\064\253\053\111\265\315\040\142\344\072\172

\147\143\253\226\334\155\256\227\354\374\237\166\126\210\056\146 \317\133\266\311\244\260\327\005\272\341\047\057\223\273\046\052 \242\223\260\033\363\216\276\035\100\243\271\066\217\076\202\032 \032\136\210\352\120\370\131\342\203\106\051\013\343\104\134\341 \225\266\151\220\232\024\157\227\256\201\317\150\357\231\232\276 \265\347\341\177\370\372\023\107\026\114\314\155\010\100\347\213 \170\157\120\202\104\120\077\146\006\212\253\103\204\126\112\017 \040\055\206\016\365\322\333\322\172\212\113\315\245\350\116\361 \136\046\045\001\131\043\240\176\322\366\176\041\127\327\047\274 \025\127\114\244\106\301\340\203\036\014\114\115\037\117\006\031 \342\371\250\364\072\202\241\262\171\103\171\326\255\157\172\047 \220\003\244\352\044\207\077\331\275\331\351\362\137\120\111\034 \356\354\327\056 END CKA_NSS_MOZILLA_CA_POLICY CK BBOOL CK TRUE CKA_NSS_SERVER_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} $$ 144 145 162 040 116 145 144 145 162 154 141 156 144 145 156 061$ \051\060\047\006\003\125\004\003\014\040\123\164\141\141\164\040 $\label{eq:144} $$ 144 145 162 040 116 145 144 145 162 154 141 156 144 145 156 040 $$$ \105\126\040\122\157\157\164\040\103\101

END CKA SERIAL NUMBER MULTILINE OCTAL \002\004\000\230\226\215 END CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST CKA TRUST CODE SIGNING CK TRUST CKT NSS MUST VERIFY TRUST CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE # # Certificate "IdenTrust Commercial Root CA 1" # # Issuer: CN=IdenTrust Commercial Root CA 1.O=IdenTrust.C=US # Serial Number:0a:01:42:80:00:00:01:45:23:c8:44:b5:00:00:00:02 # Subject: CN=IdenTrust Commercial Root CA 1,O=IdenTrust,C=US # Not Valid Before: Thu Jan 16 18:12:23 2014 # Not Valid After : Mon Jan 16 18:12:23 2034 # Fingerprint (SHA-256): 5D:56:49:9B:E4:D2:E0:8B:CF:CA:D0:8A:3E:38:72:3D:50:50:3B:DE:70:69:48:E4:2F:55:60:30:19:E5:28:AE # Fingerprint (SHA1): DF:71:7E:AA:4A:D9:4E:C9:55:84:99:60:2D:48:DE:5F:BC:F0:3A:25 CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE CKA_TOKEN CK_BBOOL CK_TRUE CKA PRIVATE CK BBOOL CK FALSE CKA_MODIFIABLE CK_BBOOL CK_FALSE CKA LABEL UTF8 "IdenTrust Commercial Root CA 1" CKA CERTIFICATE TYPE CK CERTIFICATE TYPE CKC X 509 CKA_SUBJECT MULTILINE_OCTAL \060\112\061\013\060\011\006\003\125\004\006\023\002\125\123\061 \022\060\020\006\003\125\004\012\023\011\111\144\145\156\124\162 \165\163\164\061\047\060\045\006\003\125\004\003\023\036\111\144 \145\156\124\162\165\163\164\040\103\157\155\155\145\162\143\151 141154040122157157164040103101040061END CKA ID UTF8 "0" CKA ISSUER MULTILINE OCTAL \060\112\061\013\060\011\006\003\125\004\006\023\002\125\123\061 \022\060\020\006\003\125\004\012\023\011\111\144\145\156\124\162 \165\163\164\061\047\060\045\006\003\125\004\003\023\036\111\144 \145\156\124\162\165\163\164\040\103\157\155\155\145\162\143\151 \141\154\040\122\157\157\164\040\103\101\040\061 END CKA_SERIAL_NUMBER MULTILINE_OCTAL \002\020\012\001\102\200\000\000\001\105\043\310\104\265\000\000 \000\002 END CKA_VALUE MULTILINE_OCTAL

\060\202\005\140\060\202\003\110\240\003\002\001\002\002\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 \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 \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 \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 \366\002\227\215\331\142\053\277\044\037\142\215\337\303\270\051 \113\111\170\074\223\140\210\042\374\231\332\066\310\302\242\324 \054\124\000\147\065\156\163\277\002\130\360\244\335\345\260\242 \046\172\312\340\066\245\031\026\365\375\267\357\256\077\100\365 \155\132\004\375\316\064\312\044\334\164\043\033\135\063\023\022 \135\304\001\045\366\060\335\002\135\237\340\325\107\275\264\353 \033\241\273\111\111\330\237\133\002\363\212\344\044\220\344\142 \314\264\106\171\306\027\261\332\230\036\007\131\372\165\041\205 \145\335\220\126\316\373\253\245\140\235\304\235\371\122\260\213 \275\207\371\217\053\043\012\043\166\073\367\063\341\311\000\363 \151\371\113\242\340\116\274\176\223\071\204\007\367\104\160\176 \376\007\132\345\261\254\321\030\314\362\065\345\111\111\010\312 \126\311\075\373\017\030\175\213\073\301\023\302\115\217\311\117 $\label{eq:2.11} $$ 310\045\070\364\372\113\247\211\134\234\322\343\015\071\206\112 $$$ \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} $$ 163 345 357 276 240 355 63 013 164 276 040 304 147 154 360 $$$ \010\003\172\125\200\177\106\116\226\247\364\036\076\341\366\330 \011\341\063\144\053\143\327\062\136\237\371\300\173\017\170\157 \227\274\223\232\371\234\022\220\170\172\200\207\025\327\162\164 \234\125\164\170\261\272\341\156\160\004\272\117\240\272\150\303 \173\377\061\360\163\075\075\224\052\261\013\101\016\240\376\115

\210\145\153\171\063\264\327\002\003\001\000\001\243\102\060\100 \060\016\006\003\125\035\017\001\001\377\004\004\003\002\001\006 \060\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001 \377\060\035\006\003\125\035\016\004\026\004\024\355\104\031\300 \323\360\006\213\356\244\173\276\102\347\046\124\310\216\066\166 \060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\003 \202\002\001\000\015\256\220\062\366\246\113\174\104\166\031\141 \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 $\label{eq:24} \end{tabular} 1015 \end{tabular} 234 \end{tabular}$ \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 $\label{eq:256} $$250 - 121 -$ \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 $\label{eq:235} \end{tabular} \label{eq:235} \end{tabular} \label{eq:235} \end{tabular} \label{eq:235} \end{tabular} \end{tabular} \end{tabular} \label{eq:235} \end{tabular} \end{tabu$ \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): 30:D0:89:5A:9A:44:8A:26:20:91:63:55:22:D1:F5:20:10:B5:86:7A:CA:E1:2C:78:EF:95:8F:D4:F4:38:9F:2F # Fingerprint (SHA1): BA:29:41:60:77:98:3F:F4:F3:EF:F2:31:05:3B:2E:EA:6D:4D:45:FD CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

\060\202\005\146\060\202\003\116\240\003\002\001\002\002\020\012 \001\102\200\000\000\001\105\043\317\106\174\000\000\000\002\060 \015\006\011\052\206\110\206\367\015\001\001\013\005\000\060\115 \061\013\060\011\006\003\125\004\006\023\002\125\123\061\022\060 \020\006\003\125\004\012\023\011\111\144\145\156\124\162\165\163 \164\061\052\060\050\006\003\125\004\003\023\041\111\144\145\156 \124\162\165\163\164\040\120\165\142\154\151\143\040\123\145\143 \164\157\162\040\122\157\164\040\103\101\040\061\060\036\027 \015\061\064\060\061\061\066\061\067\065\063\063\062\132\027\015 \063\064\060\061\061\066\061\067\065\063\063\062\132\060\115\061 \013\060\011\006\003\125\004\006\023\002\125\123\061\022\060\020 \006\003\125\004\012\023\011\111\144\145\156\124\162\165\163\164 \061\052\060\050\006\003\125\004\003\023\041\111\144\145\156\124 $\label{eq:162} $$ 163\164\040\120\165\142\154\151\143\040\123\145\143\164\$ \157\162\040\122\157\157\164\040\103\101\040\061\060\202\002\042 \060\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003 \202\002\017\000\060\202\002\012\002\202\002\001\000\266\042\224 \374\244\110\257\350\107\153\012\373\047\166\344\362\077\212\073 \172\112\054\061\052\214\215\260\251\303\061\153\250\167\166\204 \046\266\254\201\102\015\010\353\125\130\273\172\370\274\145\175 \362\240\155\213\250\107\351\142\166\036\021\356\010\024\321\262 \104\026\364\352\320\372\036\057\136\333\313\163\101\256\274\000

END CKA VALUE MULTILINE OCTAL

\000\002

MULTILINE_OCTAL \002\020\012\001\102\200\000\000\001\105\043\317\106\174\000\000

END CKA SERIAL NUMBER

CKA_ISSUER MULTILINE_OCTAL \060\115\061\013\060\011\006\003\125\004\006\023\002\125\123\061 \022\060\020\006\003\125\004\012\023\011\111\144\145\156\124\162 \165\163\164\061\052\060\050\006\003\125\004\003\023\041\111\144 \145\156\124\162\165\163\164\040\120\165\142\154\151\143\040\123 \145\143\164\157\162\040\122\157\157\164\040\103\101\040\061

CKA ID UTF8 "0"

END

CKA CERTIFICATE TYPE CK CERTIFICATE TYPE CKC X 509 CKA SUBJECT MULTILINE OCTAL \060\115\061\013\060\011\006\003\125\004\006\023\002\125\123\061 \022\060\020\006\003\125\004\012\023\011\111\144\145\156\124\162 \165\163\164\061\052\060\050\006\003\125\004\003\023\041\111\144 \145\156\124\162\165\163\164\040\120\165\142\154\151\143\040\123 $\label{eq:145} $$ 143\164\157\162\040\122\157\157\164\040\103\101\040\061\$

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

CKA LABEL UTF8 "IdenTrust Public Sector Root CA 1"

CKA TOKEN CK BBOOL CK TRUE

\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 $\label{eq:204} 375 \\ 204 \\ 313 \\ 066 \\ 040 \\ 201 \\ 131 \\ 055 \\ 232 \\ 157 \\ 155 \\ 110 \\ 110 \\ 141 \\ 312 \\ 114 \\ 114 \\ 110 \\ 1$ \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} $$ 174\05\175\055\041\325\000\277\001\147\242\136\173\246\134\362 $$$ \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 $\label{eq:151} $$ 15137223326532014115231531211333114220106253025 $$$ \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\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 $\label{eq:24} \end{tabular} \end{tabular}$ \353\303\243\321\024\243\060\015\006\011\052\206\110\206\367\015 \001\001\013\005\000\003\202\002\001\000\107\372\335\012\260\021 \221\070\255\115\135\367\345\016\227\124\031\202\110\207\124\214 \252\144\231\330\132\376\210\001\305\130\245\231\261\043\124\043 \267\152\035\040\127\345\001\142\101\027\323\011\333\165\313\156 \124\220\165\376\032\237\201\012\302\335\327\367\011\320\133\162 \015\020\355\175\102\300\217\356\300\232\010\325\101\326\134\016 \041\151\156\200\141\016\025\300\270\317\305\111\022\122\314\276 \072\314\324\056\070\005\336\065\375\037\157\270\200\150\230\075 \115\240\312\100\145\322\163\174\365\213\331\012\225\077\330\077 \043\155\032\321\052\044\031\331\205\263\027\357\170\156\251\130 \321\043\323\307\023\355\162\045\177\135\261\163\160\320\177\006 \227\011\204\051\200\141\035\372\136\377\163\254\240\343\211\270 \034\161\025\306\336\061\177\022\334\341\155\233\257\347\350\237 \165\170\114\253\106\073\232\316\277\005\030\135\115\025\074\026 \232\031\120\004\232\262\232\157\145\213\122\137\074\130\004\050

\045\300\146\141\061\176\271\340\165\271\032\250\201\326\162\027 \263\305\003\061\065\021\170\170\242\340\351\060\214\177\200\337 \130\337\074\272\047\226\342\200\064\155\343\230\323\144\047\254 $\label{eq:110} \end{tabular} 10\176\050\167\134\306\045\141\045\370\205\014\145\372\304\062$ \057\245\230\005\344\370\013\147\026\026\306\202\270\062\031\371 \371\271\171\334\037\315\353\257\253\016\335\033\333\105\344\172 \347\002\342\225\135\374\151\360\123\151\141\225\165\171\013\136 $\label{eq:2.125} $$ 125 346 070 034 224 251 131 063 236 310 161 164 171 177 121 211 $$$ \266\310\152\270\060\310\152\070\303\156\236\341\067\026\352\005 \142\114\133\022\107\355\247\264\263\130\126\307\111\363\177\022 \150\011\061\161\360\155\370\116\107\373\326\205\356\305\130\100 $\label{eq:244} \\ 031 \\ 244 \\ 035 \\ 247 \\ 371 \\ 113 \\ 103 \\ 067 \\ 334 \\ 150 \\ 132 \\ 117 \\ 317 \\ 353 \\ 302 \\ 144 \\$ \164\336\264\025\331\364\124\124\032\057\034\327\227\161\124\220 \216\331\040\235\123\053\177\253\217\342\352\060\274\120\067\357 \361\107\265\175\174\054\004\354\150\235\264\111\104\020\364\162 \113\034\144\347\374\346\153\220\335\151\175\151\375\000\126\245 \267\254\266\255\267\312\076\001\357\234 END

CKA_NSS_MOZILLA_CA_POLICY

CK_BBOOL CK_TRUE

CKA_NSS_SERVER_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 \145\143\164\157\162\040\122\157\157\164\040\103\101\040\061 END CKA SERIAL NUMBER MULTILINE OCTAL \002\020\012\001\102\200\000\000\001\105\043\317\106\174\000\000 \000\002 END CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR CKA TRUST EMAIL PROTECTION CK TRUST CKT NSS TRUSTED DELEGATOR CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE # # Certificate "Entrust Root Certification Authority - G2" # # Issuer: CN=Entrust Root Certification Authority - G2,OU="(c) 2009 Entrust, Inc. - for authorized use only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US # Serial Number: 1246989352 (0x4a538c28) # Subject: CN=Entrust Root Certification Authority - G2,OU="(c) 2009 Entrust, Inc. - for authorized use only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US # Not Valid Before: Tue Jul 07 17:25:54 2009 # Not Valid After : Sat Dec 07 17:55:54 2030 # Fingerprint (SHA-256): 43:DF:57:74:B0:3E:7F:EF:5F:E4:0D:93:1A:7B:ED:F1:BB:2E:6B:42:73:8C:4E:6D:38:41:10:3D:3A:A7:F3:39 # Fingerprint (SHA1): 8C:F4:27:FD:79:0C:3A:D1:66:06:8D:E8:1E:57:EF:BB:93:22:72:D4 CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE CKA TOKEN CK BBOOL CK TRUE CKA PRIVATE CK BBOOL CK FALSE CKA_MODIFIABLE CK_BBOOL CK_FALSE CKA LABEL UTF8 "Entrust Root Certification Authority - G2" CKA CERTIFICATE TYPE CK CERTIFICATE TYPE CKC X 509 CKA SUBJECT MULTILINE OCTAL \060\201\276\061\013\060\011\006\003\125\004\006\023\002\125\123 \061\026\060\024\006\003\125\004\012\023\015\105\156\164\162\165 \163\164\054\040\111\156\143\056\061\050\060\046\006\003\125\004 \013\023\037\123\145\145\040\167\167\167\056\145\156\164\162\165 $\label{eq:163} \\ 163 \\ 164 \\ 056 \\ 156 \\ 145 \\ 164 \\ 057 \\ 154 \\ 145 \\ 147 \\ 141 \\ 154 \\ 055 \\ 164 \\ 145 \\ 162 \\ 162 \\ 164 \\ 145 \\ 162 \\ 164 \\ 145 \\ 164 \\$ \155\163\061\071\060\067\006\003\125\004\013\023\060\050\143\051 \040\062\060\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 $\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 \062 END

END CKA VALUE MULTILINE OCTAL \060\202\004\076\060\202\003\046\240\003\002\001\002\002\004\112 \123\214\050\060\015\006\011\052\206\110\206\367\015\001\001\013 \005\000\060\201\276\061\013\060\011\006\003\125\004\006\023\002 \125\123\061\026\060\024\006\003\125\004\012\023\015\105\156\164 \162\165\163\164\054\040\111\156\143\056\061\050\060\046\006\003 \125\004\013\023\037\123\145\145\040\167\167\167\056\145\156\164 \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\151\157\156\040\101\165\164\150\157\162\151\164\171\040\055 \040\107\062\060\036\027\015\060\071\060\067\060\067\061\067\062 \065\065\064\132\027\015\063\060\061\062\060\067\061\067\065\065 \065\064\132\060\201\276\061\013\060\011\006\003\125\004\006\023 \002\125\123\061\026\060\024\006\003\125\004\012\023\015\105\156 \164\162\165\163\164\054\040\111\156\143\056\061\050\060\046\006 \003\125\004\013\023\037\123\145\145\040\167\167\167\056\145\156 \164\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 \061\062\060\060\006\003\125\004\003\023\051\105\156\164\162\165

\002\004\112\123\214\050

CKA_SERIAL_NUMBER MULTILINE OCTAL

\062 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\156\164\162\165 \163\164\054\040\111\156\143\056\061\050\060\046\006\003\125\004 \013\023\037\123\145\145\040\167\167\167\056\145\156\164\162\165 \163\164\056\156\145\164\057\154\145\147\141\154\055\164\145\162 \155\163\061\071\060\067\006\003\125\004\013\023\060\050\143\051 \040\062\060\060\071\040\105\156\164\162\165\163\164\054\040\111 \156\143\056\040\055\040\146\157\162\040\141\165\164\150\157\162 \151\172\145\144\040\165\163\145\040\157\156\154\171\061\062\060 \060\006\003\125\004\003\023\051\105\156\164\162\165\163\164\040 \122\157\157\164\040\103\145\162\164\151\143\141\164\151 \157\156\040\101\165\164\150\157\162\151\164\171\040\055\040\107

CKA_ID UTF8 "0"

 $\label{eq:163} \\ 164 \\ 040 \\ 122 \\ 157 \\ 157 \\ 164 \\ 040 \\ 103 \\ 145 \\ 162 \\ 164 \\ 151 \\ 146 \\ 151 \\ 143 \\ 143 \\ 145 \\ 162 \\ 164 \\ 151 \\ 146 \\ 151 \\ 143 \\ 143 \\ 145 \\ 162 \\ 164 \\ 151 \\ 146 \\ 151 \\ 143 \\ 143 \\ 145 \\ 162 \\ 164 \\ 151 \\ 146 \\ 151 \\ 143 \\ 143 \\ 145 \\ 162 \\ 164 \\ 151 \\ 146 \\ 151 \\ 143 \\ 143 \\ 145 \\ 162 \\ 164 \\ 151 \\ 146 \\ 151 \\ 143 \\ 143 \\ 145 \\ 162 \\ 164 \\ 151 \\ 146 \\ 151 \\ 143 \\ 143 \\ 145 \\ 162 \\ 164 \\ 151 \\ 146 \\ 151 \\ 143 \\ 143 \\ 145 \\ 162 \\ 164 \\ 151 \\ 146 \\ 151 \\ 143 \\ 143 \\ 145 \\ 162 \\ 164 \\ 151 \\ 146 \\ 151 \\ 143 \\ 143 \\ 145 \\ 162 \\ 164 \\ 151 \\ 146 \\ 151 \\ 143 \\ 145 \\ 162 \\ 164 \\ 151 \\ 146 \\ 151 \\ 143 \\ 145 \\ 151 \\ 145 \\ 162 \\ 164 \\ 151 \\ 145 \\ 162 \\ 164 \\ 151 \\ 145 \\ 162 \\ 164 \\ 151 \\ 145 \\ 162 \\ 164 \\ 151 \\ 145 \\ 151 \\ 143 \\ 145 \\ 151 \\ 143 \\ 145 \\ 151 \\ 143 \\ 145 \\ 151 \\ 143 \\ 151 \\ 143 \\ 151 \\ 143 \\ 151 \\ 143 \\ 151 \\ 143 \\ 151 \\ 143 \\ 151 \\$ $\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 $\label{eq:105116034162326116062362162212017367203031320152} \\$ \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} \\ 123 \\ 137 \\ 234 \\ 076 \\ 364 \\ 027 \\ 054 \\ 346 \\ 151 \\ 254 \\ 116 \\ 062 \\ 114 \\ 142 \\ 167 \\ 352 \\ 84 \\ 151 \\ 254 \\ 116 \\ 1062 \\ 114 \\ 142 \\ 167 \\ 352 \\ 166 \\$ \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\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 \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 $\label{eq: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 $\label{eq:261} $$ $$ 261 $$ 11 $$ 211 $$ 212 $$ 10 $$ 57 $$ 212 $$ 10 $$ 57 $$ 213 $$ 16 $$ 173 $$ 212 $$ 10 $$ 57 $$ 213 $$ 16 $$ 173 $$ 212 $$ 10 $$ 157 $$ 213 $$ 16 $$ 173 $$ 212 $$ 10 $$ 157 $$ 213 $$ 16 $$ 173 $$ 212 $$ 10 $$ 157 $$ 213 $$ 16 $$ 173 $$ 212 $$ 10 $$ 157 $$ 213 $$ 16 $$ 173 $$ 212 $$ 10 $$ 157 $$ 213 $$ 16 $$ 173 $$ 212 $$ 10 $$ 157 $$ 213 $$ 16 $$ 173 $$ 212 $$ 10 $$ 157 $$ 213 $$ 16 $$ 173 $$ 212 $$ 10 $$ 157 $$ 213 $$ 10 $$ 157 $$ 10 $$ 157 $$ 213 $$ 10 $$ 157 $$ 213 $$ 10 $$ 157 $$ 213 $$ 10 $$ 157 $$ 213 $$ 10 $$ 157 $$ 213 $$ 10 $$ 157 $$ 213 $$ 10 $$ 157 $$ 213 $$ 10 $$ 157 $$ 213 $$ 10 $$ 157 $$ 213 $$ 10 $$ 157 $$ 213 $$ 10 $$ 157 $$ 213 $$ 10 $$$ \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

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):

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} $$ 1214\364\047\375\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

```
\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} \end{tabular}
\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
\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 #

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

\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

 $\label{eq:165} \end{tabular} \end{tabular}$

 $\label{eq:163} $$ 163\164\056\156\145\164\057\154\145\147\141\154\055\164\145\162\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

 $\label{eq:151} $$ 151\172\145\144\040\165\163\145\040\157\156\154\171\061\063\060\$

\061\006\003\125\004\003\023\052\105\156\164\162\165\163\164\040 \122\157\157\164\040\103\145\162\164\151\146\151\143\141\164\151

\103\061

END

CKA_ID

UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

\151\172\145\144\040\165\163\145\040\157\156\154\171\061\063\060 \061\006\003\125\004\003\023\052\105\156\164\162\165\163\164\040 \103\061

\002\015\000\246\213\171\051\000\000\000\000\120\320\221\371

Open Source Used In vmoperator Crafton-3.0 830

END

END

CKA SERIAL NUMBER MULTILINE OCTAL

MULTILINE OCTAL

CKA VALUE

\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\267\143\347\032\335\215\351\010\246\125\203\244 \340\152\120\101\145\021\102\111\060\012\006\010\052\206\110\316 \075\004\003\003\003\147\000\060\144\002\060\141\171\330\345\102 \107\337\034\256\123\231\027\266\157\034\175\341\277\021\224\321 \003\210\165\344\215\211\244\212\167\106\336\155\141\357\002\365 \373\265\337\314\376\116\377\376\251\346\247\002\060\133\231\327 \205\067\006\265\173\010\375\353\047\213\112\224\371\341\372\247 \216\046\010\350\174\222\150\155\163\330\157\046\254\041\002\270 \231\267\046\101\133\045\140\256\320\110\032\356\006 END

CKA NSS MOZILLA CA POLICY

CK_BBOOL CK_TRUE

CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE

CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "Entrust Root Certification Authority - EC1"

Issuer: CN=Entrust Root Certification Authority - EC1,OU="(c) 2012 Entrust, Inc. - for authorized use

only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US

Serial Number:00:a6:8b:79:29:00:00:00:00:50: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

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

\353\024\265\107

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL

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

CKA_ISSUER MULTILINE_OCTAL

\040\062\060\061\062\040\105\156\164\162\165\163\164\054\040\111 $\label{eq:151} 172 145 144 040 165 163 145 040 157 156 154 171 061 063 060$ \061\006\003\125\004\003\023\052\105\156\164\162\165\163\164\040 \157\156\040\101\165\164\150\157\162\151\164\171\040\055\040\105 \103\061 END CKA_SERIAL_NUMBER MULTILINE OCTAL \002\015\000\246\213\171\051\000\000\000\000\120\320\221\371 END CKA TRUST SERVER AUTH CK TRUST CKT NSS TRUSTED DELEGATOR CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST CKA TRUST STEP UP APPROVED CK BBOOL CK FALSE

#

Certificate "CFCA EV ROOT"

#

Issuer: CN=CFCA EV ROOT,O=China Financial Certification Authority,C=CN

Serial Number: 407555286 (0x184accd6)

Subject: CN=CFCA EV ROOT,O=China Financial Certification Authority,C=CN

Not Valid Before: Wed Aug 08 03:07:01 2012

Not Valid After : Mon Dec 31 03:07:01 2029

Fingerprint (SHA-256):

5C:C3:D7:8E:4E:1D:5E:45:54:7A:04:E6:87:3E:64:F9:0C:F9:53:6D:1C:CC:2E:F8:00:F3:55:C4:C5:FD:70:FD #

Fingerprint (SHA1): E2:B8:29:4B:55:84:AB:6B:58:C2:90:46:6C:AC:3F:B8:39:8F:84:83

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "CFCA EV ROOT"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL

 $\label{eq:151} $$ 151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\150\157\162\151\164\150\157\162\151\164\150\157\162\151\164\150\157\162\151\164\150\157\162\151\164\150\157\162\151\164\150\157\162\151\164\150\157\162\151\164\150\157\162\151\164\150\157\162\151\164\150\157\162\151\164\150\157\162\157\164\150\157\162\157\162\157\164\150\157\162\157\164\150\157\162\157\164\150\157\162\157\164\150\157\162\157\162\157\162\157\162\157\162\157\162\157\162\157\162\157\162\157\162\157\162\157\162\157\162\157\162\157\162\157\162\157\162\157\162\157\157\162\157\157\162\162\157\162\162\157\157\162\157\162\157\162\157\162\157\162\157\162\157\162\157\162\157\162\157\162\157\162\157\162\157\162\157\157\162\162\157\162\157\162\157\162\162\157\162\157\16$

\171\061\025\060\023\006\003\125\004\003\014\014\103\106\103\101

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

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

\060\126\061\013\060\011\006\003\125\004\006\023\002\103\116\061 \060\060\056\006\003\125\004\012\014\047\103\150\151\156\141\040 \106\151\156\141\156\143\151\141\154\040\103\145\162\164\151\146

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 \156\040\101\165\164\150\157\162\151\164\171\061\025\060\023\006 \003\125\004\003\014\014\103\106\103\101\040\105\126\040\122\117 \117\124\060\202\002\042\060\015\006\011\052\206\110\206\367\015 \001\001\001\005\000\003\202\002\017\000\060\202\002\012\002\202 \002\001\000\327\135\153\315\020\077\037\005\131\325\005\115\067 $\label{eq:261} \end{tabular} \end{tabular}$ \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 $\label{eq:114} $$ 122\123\122\172\303\356\056\336\263\161\045\301\351\135\075\$ \356\241\057\243\367\052\074\311\043\035\152\253\035\241\247\361 \363\354\240\325\104\317\025\317\162\057\035\143\227\350\231\371 \375\223\244\124\200\114\122\324\122\253\056\111\337\220\315\270 \137\276\077\336\241\312\115\040\324\045\350\204\051\123\267\261 \210\037\377\372\332\220\237\012\251\055\101\077\261\361\030\051 \356\026\131\054\064\111\032\250\006\327\250\210\322\003\162\172 \062\342\352\150\115\156\054\226\145\173\312\131\372\362\342\335 \356\060\054\373\314\106\254\304\143\353\157\177\066\053\064\163 \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

END

END CKA_SERIAL_NUMBER MULTILINE_OCTAL \002\004\030\112\314\326

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

Open Source Used In vmoperator Crafton-3.0 833

\150\257\012\201\145\072\160\301\233\255\115\155\124\312\052\055 \113\205\033\263\200\346\160\105\015\153\136\065\360\177\073\270 \234\344\004\160\211\022\045\223\332\012\231\042\140\152\143\140 \116\166\006\230\116\275\203\255\035\130\212\045\205\322\307\145 \036\055\216\306\337\266\306\341\177\212\004\041\025\051\164\360 \076\234\220\235\014\056\361\212\076\132\252\014\011\036\307\325 \074\243\355\227\303\036\064\372\070\371\010\016\343\300\135\053 \203\321\126\152\311\266\250\124\123\056\170\062\147\075\202\177 \164\320\373\341\266\005\140\271\160\333\216\013\371\023\130\157 \161\140\020\122\020\271\301\101\011\357\162\037\147\061\170\377 \226\005\215\002\003\001\000\001\243\143\060\141\060\037\006\003 \125\035\043\004\030\060\026\200\024\343\376\055\375\050\320\013 \265\272\266\242\304\277\006\252\005\214\223\373\057\060\017\006 \003\125\035\023\001\001\377\004\005\060\003\001\001\377\060\016 \006\003\125\035\017\001\001\377\004\004\003\002\001\006\060\035 \006\003\125\035\016\004\026\004\024\343\376\055\375\050\320\013 \265\272\266\242\304\277\006\252\005\214\223\373\057\060\015\006 \011\052\206\110\206\367\015\001\001\013\005\000\003\202\002\001 \000\045\306\272\153\353\207\313\336\202\071\226\075\360\104\247 \260\033\234\363\327\171\056\365\110\266\322\373\027\210\346\323 \172\077\355\123\023\320\342\057\152\171\313\000\043\050\346\036 \067\127\065\211\204\302\166\117\064\066\255\147\303\316\101\006 \210\305\367\356\330\032\270\326\013\177\120\377\223\252\027\113 \214\354\355\122\140\262\244\006\352\116\353\364\153\031\375\353 \365\032\340\045\052\232\334\307\101\066\367\310\164\005\204\071 \225\071\326\013\073\244\047\372\010\330\134\036\370\004\140\122 \021\050\050\003\377\357\123\146\000\245\112\064\026\146\174\375 \011\244\256\236\147\032\157\101\013\153\006\023\233\217\206\161 \005\264\057\215\211\146\063\051\166\124\232\021\370\047\372\262 \077\221\340\316\015\033\363\060\032\255\277\042\135\033\323\277 \045\005\115\341\222\032\177\231\237\074\104\223\312\324\100\111 \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 \000\012\000\013\021\225\332\126\105\003\210\012\237\147\320\325 \171\261\250\215\100\155\015\302\172\100\372\363\137\144\107\222 \313\123\271\273\131\316\117\375\320\025\123\001\330\337\353\331

\346\166\357\320\043\273\073\251\171\263\325\002\051\315\211\243 \226\017\112\065\347\116\102\300\165\315\007\317\346\054\353\173 \056 **END** CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE CKA NSS SERVER 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 $\label{eq:164} $$ 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 $\label{eq:151} 143 141 164 151 157 156 040 101 165 164 150 157 162 151 164$ \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

#

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 $\label{eq:20} \end{tabular} \end{tabular}$ \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} $$ 157\142\141\154\040\122\157\157\164\040\107\102\040\103\101\$ **END** CKA ID UTF8 "0" CKA ISSUER MULTILINE OCTAL \060\155\061\013\060\011\006\003\125\004\006\023\002\103\110\061 \020\060\016\006\003\125\004\012\023\007\127\111\123\145\113\145 \171\061\042\060\040\006\003\125\004\013\023\031\117\111\123\124 \105\040\106\157\165\156\144\141\164\151\157\156\040\105\156\144 \157\162\163\145\144\061\050\060\046\006\003\125\004\003\023\037 $\label{eq:117} $$ 111 123 124 105 040 127 111 123 145 113 145 171 040 107 154 $$$ 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

Certificate "OISTE WISeKey Global Root GB CA"

\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 $\label{eq:123} 124 105 040 127 111 123 145 113 145 171 040 107 154 157 142$ \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 $\label{eq:157} $$ 156 144 141 164 151 157 156 040 105 156 144 157 162 163$ \145\144\061\050\060\046\006\003\125\004\003\023\037\117\111\123 \154\040\122\157\157\164\040\107\102\040\103\101\060\202\001\042 \060\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003 \202\001\017\000\060\202\001\012\002\202\001\001\000\330\027\267 \034\112\044\052\326\227\261\312\342\036\373\175\070\357\230\365 \262\071\230\116\047\270\021\135\173\322\045\224\210\202\025\046 \152\033\061\273\250\133\041\041\053\330\017\116\237\132\361\261 $\label{eq:132} $$ 132\344\171\326\062\043\053\341\123\314\231\105\134\173\117\255\$ $\label{eq:274} $$ $$ 274 $$ 277 $$ 207 $$ 112 $$ 113 $$ 227 $$ 132 $$ 250 $$ 366 $$ 110 $$ 354 $$ 175 $$ 173 $$ 015 $$ 315 $$ 173 $$ 015 $$ 315 $$ 173 $$ 015 $$ 175 $$ 175 $$ 015 $$ 175 $$ 015 $$ 175 $$ 015 $$$ 015 $$ 015 $$ 015 $$ 015 $$$ 015 $$ 015 $$$ 015 $$ 015 $$$ 015 $$$ 015 $$ 01$ \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 $\label{eq:133} 167 \\ 261 \\ 153 \\ 156 \\ 270 \\ 311 \\ 144 \\ 367 \\ 341 \\ 312 \\ 101 \\ 106 \\ 016 \\ 051 \\ 161 \\ 106 \\ 016 \\ 016 \\ 006 \\ 016 \\ 006 \\ 016 \\ 006 \\ 016 \\ 006 \\ 016 \\ 006 \\ 016 \\ 006 \\ 016 \\ 006 \\ 0$ \320\271\043\374\311\201\137\116\367\157\337\277\204\255\163\144 \273\267\102\216\151\366\324\166\035\176\235\247\270\127\212\121 \147\162\327\324\250\270\225\124\100\163\003\366\352\364\353\376 \050\102\167\077\235\043\033\262\266\075\200\024\007\114\056\117 \367\325\012\026\015\275\146\103\067\176\043\103\171\303\100\206 \365\114\051\332\216\232\255\015\245\004\207\210\036\205\343\351 \123\325\233\310\213\003\143\170\353\340\031\112\156\273\057\153 \063\144\130\223\255\151\277\217\033\357\202\110\307\002\003\001 \000\001\243\121\060\117\060\013\006\003\125\035\017\004\004\003 \002\001\206\060\017\006\003\125\035\023\001\001\377\004\005\060 \003\001\001\377\060\035\006\003\125\035\016\004\026\004\024\065 \017\310\066\143\136\342\243\354\371\073\146\025\316\121\122\343 \221\232\075\060\020\006\011\053\006\001\004\001\202\067\025\001 \004\003\002\001\000\060\015\006\011\052\206\110\206\367\015\001 \001\013\005\000\003\202\001\001\000\100\114\373\207\262\231\201 \220\176\235\305\260\260\046\315\210\173\053\062\215\156\270\041 \161\130\227\175\256\067\024\257\076\347\367\232\342\175\366\161 \230\231\004\252\103\164\170\243\343\111\141\076\163\214\115\224 \340\371\161\304\266\026\016\123\170\037\326\242\207\057\002\071 \201\051\074\257\025\230\041\060\376\050\220\000\214\321\341\313 \372\136\310\375\370\020\106\073\242\170\102\221\027\164\125\012 \336\120\147\115\146\321\247\377\375\331\300\265\250\243\212\316 \146\365\017\103\315\247\053\127\173\143\106\152\252\056\122\330 \364\355\341\155\255\051\220\170\110\272\341\043\252\243\211\354 \265\253\226\300\264\113\242\035\227\236\172\362\156\100\161\337

\150\361\145\115\316\174\005\337\123\145\251\245\360\261\227\004 \160\025\106\003\230\324\322\277\124\264\240\130\175\122\157\332 \126\046\142\324\330\333\211\061\157\034\360\042\302\323\142\034 \065\315\114\151\025\124\032\220\230\336\353\036\137\312\167\307 \313\216\075\103\151\234\232\130\320\044\073\337\033\100\226\176 \065\255\201\307\116\161\272\210\023 END CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE CKA_NSS_SERVER_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\$

047 254 314 355

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL

```
\244\353\271\141\050\056\267\057\230\260\065\046\220\231\121\035
END
```

CKA_ISSUER MULTILINE_OCTAL

```
\060\155\061\013\060\011\006\003\125\004\006\023\002\103\110\061
\020\060\016\006\003\125\004\012\023\007\127\111\123\145\113\145
\171\061\042\060\040\006\003\125\004\013\023\031\117\111\123\124
\105\040\106\157\165\156\144\141\164\151\157\156\040\105\156\144
\157\162\163\145\144\061\050\060\046\006\003\125\004\003\023\037
\117\111\123\124\105\040\127\111\123\145\113\145\171\040\107\154
\157\142\141\154\040\122\157\157\164\040\107\102\040\103\101
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\020\166\261\040\122\164\360\205\207\106\263\370\043\032\366
\302\300
```

END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#

Certificate "SZAFIR ROOT CA2"

#

Issuer: CN=SZAFIR ROOT CA2,O=Krajowa Izba Rozliczeniowa S.A.,C=PL

Serial Number:3e:8a:5d:07:ec:55:d2:32:d5:b7:e3:b6:5f:01:eb:2d:dc:e4:d6:e4

Subject: CN=SZAFIR ROOT CA2,O=Krajowa Izba Rozliczeniowa S.A.,C=PL

Not Valid Before: Mon Oct 19 07:43:30 2015

Not Valid After : Fri Oct 19 07:43:30 2035

Fingerprint (SHA-256):

A1:33:9D:33:28:1A:0B:56:E5:57:D3:D3:2B:1C:E7:F9:36:7E:B0:94:BD:5F:A7:2A:7E:50:04:C8:DE:D7:CA:FE

Fingerprint (SHA1): E2:52:FA:95:3F:ED:DB:24:60:BD:6E:28:F3:9C:CC:CF:5E:B3:3F:DE

CKA_CLASS

CK_OBJECT_CLASS CKO_CERTIFICATE

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "SZAFIR ROOT CA2"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL

 $\label{eq:2.141} $$ 050\060\046\006\003\125\004\012\014\037\113\162\141\152\157\167 $$$

\151\157\167\141\040\123\056\101\056\061\030\060\026\006\003\125

103101062

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

\002\024\076\212\135\007\354\125\322\062\325\267\343\266\137\001 \353\055\334\344\326\344

END

CKA_VALUE

MULTILINE_OCTAL

\060\202\003\162\060\202\002\132\240\003\002\001\002\002\024\076 \212\135\007\354\125\322\062\325\267\343\266\137\001\353\055\334

\344\326\344\060\015\006\011\052\206\110\206\367\015\001\001\013 \005\000\060\121\061\013\060\011\006\003\125\004\006\023\002\120 \114\061\050\060\046\006\003\125\004\012\014\037\113\162\141\152 $\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 \003\125\004\003\014\017\123\132\101\106\111\122\040\122\117\117 \124\040\103\101\062\060\036\027\015\061\065\061\060\061\071\060 \067\064\063\063\060\132\027\015\063\065\061\060\061\071\060\067 \064\063\063\060\132\060\121\061\013\060\011\006\003\125\004\006 \023\002\120\114\061\050\060\046\006\003\125\004\012\014\037\113 \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 \015\040\277\372\133\313\251\026\040\255\071\140\356\057\165\266 \347\227\234\371\076\375\176\115\157\115\057\357\210\015\152\372 \335\361\075\156\040\245\240\022\264\115\160\271\316\327\162\073 \211\223\247\200\204\034\047\111\162\111\265\377\073\225\236\301 \314\310\001\354\350\016\212\012\226\347\263\246\207\345\326\371 \005\053\015\227\100\160\074\272\254\165\132\234\325\115\235\002 \012\322\113\233\146\113\106\007\027\145\255\237\154\210\000\334 \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 \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 \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 \060\121\061\013\060\011\006\003\125\004\006\023\002\120\114\061 \050\060\046\006\003\125\004\012\014\037\113\162\141\152\157\167 \151\157\167\141\040\123\056\101\056\061\030\060\026\006\003\125 $\label{eq:2.11} $$ 004\003\014\017\123\132\101\106\111\122\040\122\117\117\124\040 $$$ \103\101\062 **END** CKA_SERIAL_NUMBER MULTILINE_OCTAL \002\024\076\212\135\007\354\125\322\062\325\267\343\266\137\001 \353\055\334\344\326\344 END CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR

```
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA TRUST CODE SIGNING CK TRUST CKT NSS MUST VERIFY TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
```

```
#
```

Certificate "Certum Trusted Network CA 2"

#

Issuer: CN=Certum Trusted Network CA 2,OU=Certum Certification Authority,O=Unizeto Technologies

S.A.,C=PL

Serial Number:21:d6:d0:4a:4f:25:0f:c9:32:37:fc:aa:5e:12:8d:e9

Subject: CN=Certum Trusted Network CA 2,OU=Certum Certification Authority,O=Unizeto Technologies S.A.,C=PL

Not Valid Before: Thu Oct 06 08:39:56 2011

Not Valid After : Sat Oct 06 08:39:56 2046

Fingerprint (SHA-256):

B6:76:F2:ED:DA:E8:77:5C:D3:6C:B0:F6:3C:D1:D4:60:39:61:F4:9E:62:65:BA:01:3A:2F:03:07:B6:D0:B8:04 #

Fingerprint (SHA1): D3:DD:48:3E:2B:BF:4C:05:E8:AF:10:F5:FA:76:26:CF:D3:DC:30:92

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

CKA_TOKEN CK_BBOOL CK_TRUE

CKA PRIVATE CK BBOOL CK FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "Certum Trusted Network CA 2"

CKA CERTIFICATE TYPE CK CERTIFICATE TYPE CKC X 509

CKA_SUBJECT MULTILINE_OCTAL

\060\201\200\061\013\060\011\006\003\125\004\006\023\002\120\114

\061\042\060\040\006\003\125\004\012\023\031\125\156\151\172\145

\123\056\101\056\061\047\060\045\006\003\125\004\013\023\036\103

 $\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

\101\040\062

END

CKA ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

```
\060\201\200\061\013\060\011\006\003\125\004\006\023\002\120\114
\061\042\060\040\006\003\125\004\012\023\031\125\156\151\172\145
\123\056\101\056\061\047\060\045\006\003\125\004\013\023\036\103
\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
```

\101\040\062

END

CKA_SERIAL_NUMBER

Open Source Used In vmoperator Crafton-3.0 842

MULTILINE_OCTAL

\002\020\041\326\320\112\117\045\017\311\062\067\374\252\136\022 \215\351

END

CKA_VALUE MULTILINE_OCTAL

 $\label{eq:202} \end{tabular} \end{tabular}$ \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 \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\066\060\070 \063\071\065\066\132\060\201\200\061\013\060\011\006\003\125\004 \006\023\002\120\114\061\042\060\040\006\003\125\004\012\023\031 \125\156\151\172\145\164\157\040\124\145\143\150\156\157\154\157 \147\151\145\163\040\123\056\101\056\061\047\060\045\006\003\125 $\label{eq:2.164} \\ 004 \\ 013 \\ 023 \\ 036 \\ 103 \\ 145 \\ 162 \\ 164 \\ 165 \\ 155 \\ 040 \\ 103 \\ 145 \\ 162 \\ 164 \\ 151 \\ 162 \\ 164 \\ 151 \\ 162 \\ 164 \\ 151 \\ 162 \\ 164 \\ 165 \\ 162 \\ 164 \\ 165 \\ 162 \\ 164 \\ 165 \\ 162 \\ 164 \\ 165 \\ 162 \\ 164 \\ 165 \\ 162 \\ 164 \\ 165 \\ 162 \\ 164 \\ 165 \\ 162 \\ 164 \\ 165 \\ 162 \\ 164 \\ 165 \\ 162 \\ 164 \\ 165 \\ 162 \\ 164 \\ 165 \\ 162 \\ 164 \\ 165 \\ 162 \\ 164 \\ 165 \\ 162 \\ 164 \\ 165 \\ 164 \\ 165 \\ 164 \\ 165 \\ 164 \\ 165 \\ 164 \\ 165 \\ 164 \\ 165 \\ 164 \\ 165 \\ 164 \\ 165 \\ 164 \\ 165 \\ 165 \\ 166 \\ 103 \\ 145 \\ 162 \\ 164 \\ 151 \\ 164 \\ 165 \\ 105 \\ 165 \\ 165 \\ 165 \\ 165 \\ 165 \\ 165 \\ 165 \\ 165 \\ 105$ \164\171\061\044\060\042\006\003\125\004\003\023\033\103\145\162 \164\165\155\040\124\162\165\163\164\145\144\040\116\145\164\167 \157\162\153\040\103\101\040\062\060\202\002\042\060\015\006\011 \052\206\110\206\367\015\001\001\001\005\000\003\202\002\017\000 \060\202\002\012\002\202\002\001\000\275\371\170\370\346\325\200 \014\144\235\206\033\226\144\147\077\042\072\036\165\001\175\357 \233\332\233\173\271\231\135\331\233\200\113\327\204\100\053\047 \323\350\272\060\273\076\011\032\247\111\225\357\053\100\044\302 \227\307\247\356\233\045\357\250\012\000\227\205\132\252\235\334 \051\311\342\065\007\353\160\115\112\326\301\263\126\270\241\101 \070\233\321\373\061\177\217\340\137\341\261\077\017\216\026\111 \140\327\006\215\030\371\252\046\020\253\052\323\320\321\147\215 $\label{eq:2.1} \end{tabular} 103 \end{tabular} 106 \end{tabular} 107 \end{tabular} 032 \end{tabular} 106 \end{tabular} 107 \end{tabular} 102 \end{tabular}$ $\label{eq:113} 143 044 211 206 056 064 077 051 114 122 213 052 247 300$ \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 \026\052\333\314\255\073\034\244\207\334\106\163\136\031\142\150 \105\127\344\220\202\102\273\102\326\360\141\340\301\243\075\146 \243\135\364\030\356\210\311\215\027\105\051\231\062\165\002\061 \356\051\046\310\153\002\346\265\142\105\177\067\025\132\043\150 \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

\147\170\263\277\226\376\064\334\275\347\122\126\345\263\345\165 \173\327\101\221\005\334\135\151\343\225\015\103\271\374\203\226 \071\225\173\154\200\132\117\023\162\306\327\175\051\172\104\272 \122\244\052\325\101\106\011\040\376\042\240\266\133\060\215\274 \211\014\325\327\160\370\207\122\375\332\357\254\121\056\007\263 \116\376\320\011\332\160\357\230\372\126\346\155\333\265\127\113 \334\345\054\045\025\310\236\056\170\116\370\332\234\236\206\054 \312\127\363\032\345\310\222\213\032\202\226\172\303\274\120\022 \151\330\016\132\106\213\072\353\046\372\043\311\266\260\201\276 \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 \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 \011\131\364\133\167\013\067\351\213\040\306\370\012\116\056\130 \034\353\063\320\317\206\140\311\332\373\200\057\236\114\140\204 \170\075\041\144\326\373\101\037\030\017\347\311\165\161\275\275 \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 \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 \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 $\label{eq:103150010152137073360166143373314006054246306342} \\ \label{eq:103150010152137073360166143373314006054246306342}$ \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 \155\106\236\331\045\155\010\043\133\136\164\175\036\047\333\362 **END** CKA ISSUER MULTILINE OCTAL \060\201\200\061\013\060\011\006\003\125\004\006\023\002\120\114 \123\056\101\056\061\047\060\045\006\003\125\004\013\023\036\103 $\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 $\label{eq:2.1} \end{tabular} \end{tabular}$ \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 \023\067\110\145\154\154\145\156\151\143\040\101\143\141\144\145 $\label{eq:111} $$ 040 111 156 163 164 151 164 165 164 151 157 156 163 040 122 157$ \157\164\103\101\040\062\060\061\065 **END** CKA ID UTF8 "0" CKA_ISSUER MULTILINE_OCTAL \060\201\246\061\013\060\011\006\003\125\004\006\023\002\107\122 \061\017\060\015\006\003\125\004\007\023\006\101\164\150\145\156 \163\061\104\060\102\006\003\125\004\012\023\073\110\145\154\154 \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 $\label{eq:206} \end{tabular} \end{tabular}$ \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 \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 $\label{eq:110} \\ 145 \\ 154 \\ 154 \\ 145 \\ 156 \\ 151 \\ 143 \\ 040 \\ 101 \\ 143 \\ 141 \\ 144 \\ 145 \\ 155 \\ 155 \\ 151 \\ 143 \\ 040 \\ 101 \\ 143 \\ 141 \\ 144 \\ 145 \\ 155 \\ 151 \\ 143 \\ 141 \\ 144 \\ 145 \\ 155 \\ 151 \\ 143 \\ 141 \\ 144 \\ 145 \\ 155 \\ 151 \\ 143 \\ 141 \\ 144 \\ 145 \\ 155 \\ 151 \\ 143 \\ 141 \\ 144 \\ 145 \\ 155 \\ 151 \\ 143 \\ 141 \\ 144 \\ 145 \\ 155 \\ 151 \\ 143 \\ 141 \\ 144 \\ 145 \\ 155 \\ 151 \\ 143 \\ 141 \\ 144 \\ 145 \\ 155 \\ 151 \\ 143 \\ 141 \\ 144 \\ 145 \\ 155 \\ 151 \\ 143 \\ 141 \\ 144 \\ 145 \\ 155 \\ 151 \\ 143 \\ 141 \\ 144 \\ 145 \\ 155 \\ 151 \\ 143 \\ 141 \\ 144 \\ 145 \\ 155 \\ 151 \\ 143 \\ 141 \\ 144 \\ 145 \\ 155 \\ 151 \\ 143 \\ 141 \\ 144 \\ 145 \\ 155 \\ 151 \\ 143 \\ 141 \\ 144 \\ 145 \\ 155 \\ 151 \\ 143 \\ 141 \\ 144 \\ 145 \\ 155 \\ 151 \\ 143 \\ 141 \\ 144 \\ 145 \\ 155 \\ 151 \\$ $\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 $\label{eq: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 $\label{eq:103145162164056040101165164150157162151164171061} \\$ \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 \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 \323\012\374\210\145\145\164\012\334\163\034\134\315\100\261\034

END

\I57\I64\I03\I01\040\062\ END CKA_SERIAL_NUMBER MULTILINE_OCTAL \002\001\000

 $\label{eq:23} $$ \ 10^145^154^154^156^151^143^040^101^143^141^144^145^155^151^143^040^141^156^144^040^122^145^163^145^141^162^143^150^040^111^156^163^164^151^164^151^157^156^163^040^122^157^157^164^103^101^040^062^060^061^065 $$$

CKA_ISSUER MULTILINE_OCTAL

\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\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_TRUSTED_DELEGATOR CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE # # # Certificate "Hellenic Academic and Research Institutions ECC RootCA 2015" #

#

Issuer: CN=Hellenic Academic and Research Institutions ECC RootCA 2015,O=Hellenic Academic and Research Institutions Cert. Authority,L=Athens,C=GR

#

Serial Number: 0 (0x0)

Subject: CN=Hellenic Academic and Research Institutions ECC RootCA 2015,O=Hellenic Academic and Research Institutions Cert. Authority,L=Athens,C=GR

Not Valid Before: Tue Jul 07 10:37:12 2015

Not Valid After : Sat Jun 30 10:37:12 2040

Fingerprint (SHA-256):

44:B5:45:AA:8A:25:E6:5A:73:CA:15:DC:27:FC:36:D2:4C:1C:B9:95:3A:06:65:39:B1:15:82:DC:48:7B:48:33 # Fingerprint (SHA1): 9F:F1:71:8D:92:D5:9A:F3:7D:74:97:B4:BC:6F:84:68:0B:BA:B6:66

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "Hellenic Academic and Research Institutions ECC RootCA 2015"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL

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\060\201\252\061\013\060\011\006\003\125\004\006\023\002\107\122
\061\017\060\015\006\003\125\004\007\023\006\101\164\150\145\156
\163\061\104\060\102\006\003\125\004\012\023\073\110\145\154\154
\145\156\151\143\040\101\143\141\144\145\155\151\143\040\141\156
\144\040\122\145\163\145\141\162\143\150\040\111\156\163\164\151
\164\165\164\151\157\156\163\040\103\145\162\164\056\040\101\165
\164\150\157\162\151\164\171\061\104\060\102\006\003\125\004\003
\023\073\110\145\154\154\145\156\151\143\040\101\143\141\144\145
\155\151\143\040\141\156\144\040\122\145\163\145\141\162\143\150
\040\111\156\163\164\151\164\165\164\151\157\156\163\040\105\103
\103\040\122\157\157\164\103\101\040\062\060\061\065
END
CKA_ID
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CKA VALUE MULTILINE OCTAL \060\202\002\303\060\202\002\112\240\003\002\001\002\002\001\000 \060\012\006\010\052\206\110\316\075\004\003\002\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 $\label{eq:101143141144145155151143040141156144040122145$ $\label{eq:163} \\ 145 \\ 141 \\ 162 \\ 143 \\ 150 \\ 040 \\ 111 \\ 156 \\ 163 \\ 164 \\ 151 \\ 164 \\ 165 \\ 164 \\ 151 \\ 164 \\ 164 \\ 151 \\ 164 \\$ \157\156\163\040\103\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 $\label{eq:154} $$ 154\154\155\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 \157\164\103\101\040\062\060\061\065\060\036\027\015\061\065\060 \067\060\067\061\060\063\067\061\062\132\027\015\064\060\060\066 \063\060\061\060\063\067\061\062\132\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 $\label{eq:2.125} 004 012 023 073 110 145 154 154 145 156 151 143 040 101 143$ $\label{eq:103} \\ 145 \\ 162 \\ 164 \\ 056 \\ 040 \\ 101 \\ 165 \\ 164 \\ 150 \\ 157 \\ 162 \\ 151 \\ 164 \\ 171 \\ 164 \\$ \061\104\060\102\006\003\125\004\003\023\073\110\145\154\154\145 \156\151\143\040\101\143\141\144\145\155\151\143\040\141\156\144 \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 \057\235\101\057\012\256\065\117\164\225\262\121\144\153\215\153

END

MULTILINE_OCTAL

CKA_SERIAL_NUMBER

END

CKA_ISSUER MULTILINE_OCTAL \060\201\252\061\013\060\011\006\003\125\004\006\023\002\107\122 \061\017\060\015\006\003\125\004\007\023\006\101\164\150\145\156 \163\061\104\060\102\006\003\125\004\012\023\073\110\145\154\154 \145\156\151\143\040\101\143\141\144\145\155\151\143\040\141\156 \144\040\122\145\163\145\141\162\143\150\040\111\156\163\164\151 \164\165\164\151\157\156\163\040\103\145\162\164\056\040\101\165 \164\150\157\162\151\164\171\061\104\060\102\006\003\125\004\003 \023\073\110\145\154\154\145\156\151\143\040\101\143\141\144\145 \155\151\143\040\141\156\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 \103\040\122\157\157\164\103\101\040\062\060\061\065

UTF8 "0"

\346\077\160\225\360\005\104\107\246\162\070\120\166\225\002\132 \216\256\050\236\371\055\116\231\357\054\110\157\114\045\051\350 \321\161\133\337\035\301\165\067\264\327\372\173\172\102\234\152 $\label{eq:126} $$ 012\126\132\174\151\013\252\200\011\044\154\176\301\106\243\102 $$$ \060\100\060\017\006\003\125\035\023\001\001\377\004\005\060\003 $\label{eq:2.1} \end{tabular} \end{tabular}$ \002\001\006\060\035\006\003\125\035\016\004\026\004\024\264\042 \013\202\231\044\001\016\234\273\344\016\375\277\373\227\040\223 \231\052\060\012\006\010\052\206\110\316\075\004\003\002\003\147 \000\060\144\002\060\147\316\026\142\070\242\254\142\105\247\251 \225\044\300\032\047\234\062\073\300\300\325\272\251\347\370\004 \103\123\205\356\122\041\336\235\365\045\203\076\236\130\113\057 \327\147\023\016\041\002\060\005\341\165\001\336\150\355\052\037 $\label{eq:115} \\ 115 \\ 101 \\ 011 \\ 010 \\ 015 \\ 354 \\ 113 \\ 255 \\ 144 \\ 027 \\ 050 \\ 347 \\ 165 \\ 316 \\ 105 \\ 145 \\ 145 \\ 105 \\ 145 \\ 105 \\ 145 \\ 105 \\ 145 \\ 105 \\ 145 \\ 105 \\ 105 \\ 145 \\ 105 \\$ $\label{eq:162} $$ 162\041\027\313\042\101\016\214\023\230\070\232\124\155\233\312 $$$ \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

END

CKA_ISSUER MULTILINE_OCTAL

 $\label{eq:201} $$ 060\201\252\061\013\060\011\006\003\125\004\006\023\002\107\122 $$

\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 \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 \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

 $\label{eq:sphere:sphe$

\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 \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 $\label{eq:125} 004 003 023 014 111 123 122 107 040 122 157 157 164 040 130$ \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 \003\237\323\107\227\174\231\110\043\123\350\070\256\117\012\157 \203\056\321\111\127\214\200\164\266\332\057\320\070\215\173\003 \160\041\033\165\362\060\074\372\217\256\335\332\143\253\353\026 \117\302\216\021\113\176\317\013\350\377\265\167\056\364\262\173 \112\340\114\022\045\014\160\215\003\051\240\341\123\044\354\023 \331\356\031\277\020\263\112\214\077\211\243\141\121\336\254\207 \007\224\364\143\161\354\056\342\157\133\230\201\341\211\134\064 \171\154\166\357\073\220\142\171\346\333\244\232\057\046\305\320 \020\341\016\336\331\020\216\026\373\267\367\250\367\307\345\002 \007\230\217\066\010\225\347\342\067\226\015\066\165\236\373\016 \162\261\035\233\274\003\371\111\005\330\201\335\005\264\052\326

\101\351\254\001\166\225\012\017\330\337\325\275\022\037\065\057 \050\027\154\322\230\301\250\011\144\167\156\107\067\272\316\254 \131\136\150\235\177\162\326\211\305\006\101\051\076\131\076\335 \046\365\044\311\021\247\132\243\114\100\037\106\241\231\265\247 \072\121\156\206\073\236\175\162\247\022\005\170\131\355\076\121 \170\025\013\003\217\215\320\057\005\262\076\173\112\034\113\163 \005\022\374\306\352\340\120\023\174\103\223\164\263\312\164\347 \216\037\001\010\320\060\324\133\161\066\264\007\272\301\060\060 $\label{eq:134} 10\267\202\073\230\246\175\140\212\242\243\051\202\314\272$ \275\203\004\033\242\203\003\101\241\326\005\361\033\302\266\360 \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 \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 $\label{eq:2.1} \end{tabular} \end{tabular}$ \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 \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} $$ 10\224\321\233\047\276\007\077\271\270\117\201\164\121\341\172 $$$

\267\355\235\043\342\276\340\325\050\004\023\074\061\003\236\335 \172\154\217\306\007\030\306\177\336\107\216\077\050\236\004\006 \317\245\124\064\167\275\354\211\233\351\027\103\337\133\333\137 \376\216\036\127\242\315\100\235\176\142\042\332\336\030\047 **END** CKA_NSS_MOZILLA_CA_POLICY CK BBOOL CK TRUE CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE # Trust for "ISRG Root X1" # Issuer: CN=ISRG Root X1,O=Internet Security Research Group,C=US # Serial Number:00:82:10:cf:b0:d2:40:e3:59:44:63:e0:bb:63:82:8b:00 # Subject: CN=ISRG Root X1,O=Internet Security Research Group,C=US # Not Valid Before: Thu Jun 04 11:04:38 2015 # Not Valid After : Mon Jun 04 11:04:38 2035 # Fingerprint (SHA-256): 96:BC:EC:06:26:49:76:F3:74:60:77:9A:CF:28:C5:A7:CF:E8:A3:C0:AA:E1:1A:8F:FC:EE:05:C0:BD:DF:08:C6 # Fingerprint (SHA1): CA:BD:2A:79:A1:07:6A:31:F2:1D:25:36:35:CB:03:9D:43:29:A5:E8 CKA CLASS CK OBJECT CLASS CKO NSS TRUST CKA_TOKEN CK_BBOOL CK_TRUE CKA_PRIVATE CK_BBOOL CK_FALSE CKA MODIFIABLE CK BBOOL CK FALSE CKA_LABEL UTF8 "ISRG Root X1" CKA CERT SHA1 HASH MULTILINE OCTAL \312\275\052\171\241\007\152\061\362\035\045\066\065\313\003\235 \103\051\245\350 **END** CKA CERT MD5 HASH MULTILINE OCTAL **END** CKA ISSUER MULTILINE OCTAL \060\117\061\013\060\011\006\003\125\004\006\023\002\125\123\061 \051\060\047\006\003\125\004\012\023\040\111\156\164\145\162\156 \145\164\040\123\145\143\165\162\151\164\171\040\122\145\163\145 \141\162\143\150\040\107\162\157\165\160\061\025\060\023\006\003 \125\004\003\023\014\111\123\122\107\040\122\157\157\164\040\130 \061 END CKA_SERIAL_NUMBER MULTILINE OCTAL \002\021\000\202\020\317\260\322\100\343\131\104\143\340\273\143 \202\213\000 **END** CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST

#

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

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

\103\115\061\031\060\027\006\003\125\004\013\014\020\101\103\040

 $\label{eq:linear} $$ 122\101\11\132\040\106\116\115\124\055\122\103\115 $$$

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

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

\004\012\014\010\106\116\115\124\055\122\103\115\061\031\060\027 \006\003\125\004\013\014\020\101\103\040\122\101\111\132\040\106 \116\115\124\055\122\103\115\060\202\002\042\060\015\006\011\052 \206\110\206\367\015\001\001\001\005\000\003\202\002\017\000\060 \202\002\012\002\202\002\001\000\272\161\200\172\114\206\156\177 \310\023\155\300\306\175\034\000\227\217\054\014\043\273\020\232 $\label{eq:100} $$ 100\251\032\267\207\210\370\233\126\152\373\346\173\216\213\222 $$ \216\247\045\135\131\021\333\066\056\267\121\027\037\251\010\037 \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 $\label{eq:130} \\ 130\\ 161\\ 134\\ 264\\ 365\\ 153\\ 156\\ 324\\ 001\\ 120\\ 270\\ 023\\ 176\\ 154\\ 112\\ 243$ \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:214} $$ 125 214 053 116 352 363 261 343 374 266 231 232 325 102 372 161 $$$ \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 $\label{eq:245} $$ $$ 137 270 110 371 302 371 66 246 656 111 377 270 226 302 $$$ \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 $\label{eq:2.164} \\ 056 \\ 143 \\ 145 \\ 162 \\ 164 \\ 056 \\ 146 \\ 155 \\ 164 \\ 056 \\ 145 \\ 163 \\ 057 \\ 144 \\ 160 \\ 160 \\ 145 \\ 163 \\ 057 \\ 144 \\ 160 \\ 160 \\ 145 \\ 161 \\ 160 \\ 145 \\ 161 \\ 160 \\ 145 \\ 161 \\ 160 \\ 145 \\ 161 \\ 160 \\ 145 \\ 161 \\ 160 \\ 145 \\ 161 \\ 160 \\ 145 \\ 161 \\ 160 \\ 145 \\ 161 \\ 160 \\ 145 \\ 161 \\ 160 \\ 145 \\ 161 \\ 160 \\ 145 \\ 161 \\ 160 \\ 145 \\ 161 \\ 160 \\ 145 \\ 161 \\ 160 \\ 145 \\ 161 \\ 160 \\ 145 \\ 161 \\ 160 \\ 145 \\ 161 \\ 160 \\ 145 \\ 161 \\ 160 \\ 145 \\ 161 \\ 160 \\ 145 \\ 161 \\ 160 \\ 160 \\ 160 \\ 160 \\ 160 \\ 160 \\ 145 \\ 160 \\ 100$ \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 $\label{eq:273} $$ 071\313\107\204\244\025\361\166\273\244\356\244\073\304\137\$ \357\262\063\226\021\030\267\311\145\276\030\341\243\244\334\372 \030\371\323\274\023\233\071\172\064\272\323\101\373\372\062\212 \052\267\053\206\013\151\203\070\276\315\212\056\013\160\255\215 \046\222\356\036\365\001\053\012\331\326\227\233\156\340\250\031 \034\072\041\213\014\036\100\255\003\347\335\146\176\365\271\040 \015\003\350\226\371\202\105\324\071\340\240\000\135\327\230\346 \175\236\147\163\303\232\052\367\253\213\241\072\024\357\064\274 \122\016\211\230\232\004\100\204\035\176\105\151\223\127\316\353 \316\370\120\174\117\034\156\004\103\233\371\326\073\043\030\351 \352\216\321\115\106\215\361\073\344\152\312\272\373\043\267\233 \372\231\001\051\132\130\132\055\343\371\324\155\016\046\255\301 \156\064\274\062\370\014\005\372\145\243\333\073\067\203\042\351 \326\334\162\063\375\135\362\040\275\166\074\043\332\050\367\371 \033\353\131\144\325\334\137\162\176\040\374\315\211\265\220\147 $\label{eq:115} $$ 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 07211710366213266263**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 \354\120\065\007\262\025\304\225\142\031\342\250\232\133\102\231 \054\114\054\040 **END** CKA_CERT_MD5_HASH MULTILINE_OCTAL \342\011\004\264\323\275\321\240\024\375\032\322\107\304\127\035 **END** CKA_ISSUER MULTILINE_OCTAL \060\073\061\013\060\011\006\003\125\004\006\023\002\105\123\061 $\label{eq:2.1} \end{tabular} \end{tabular}$ \103\115\061\031\060\027\006\003\125\004\013\014\020\101\103\040 12210111132040106116115124055122103115END CKA SERIAL NUMBER MULTILINE OCTAL \002\017\135\223\215\060\147\066\310\006\035\032\307\124\204\151 \007 END CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR CKA TRUST EMAIL PROTECTION CK TRUST CKT NSS MUST VERIFY TRUST CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST CKA TRUST STEP UP APPROVED CK BBOOL CK FALSE # # Certificate "Amazon Root CA 1" # # Issuer: CN=Amazon Root CA 1,O=Amazon,C=US # Serial Number:06:6c:9f:cf:99:bf:8c:0a:39:e2:f0:78:8a:43:e6:96:36:5b:ca # Subject: CN=Amazon Root CA 1,O=Amazon,C=US # Not Valid Before: Tue May 26 00:00:00 2015 # Not Valid After : Sun Jan 17 00:00:00 2038 # Fingerprint (SHA-256): 8E:CD:E6:88:4F:3D:87:B1:12:5B:A3:1A:C3:FC:B1:3D:70:16:DE:7F:57:CC:90:4F:E1:CB:97:C6:AE:98:19:6E # Fingerprint (SHA1): 8D:A7:F9:65:EC:5E:FC:37:91:0F:1C:6E:59:FD:C1:CC:6A:6E:DE:16 CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE CKA_TOKEN CK_BBOOL CK_TRUE CKA_PRIVATE CK_BBOOL CK_FALSE CKA_MODIFIABLE CK_BBOOL CK_FALSE CKA_LABEL UTF8 "Amazon Root CA 1" CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509 CKA_SUBJECT MULTILINE_OCTAL \060\071\061\013\060\011\006\003\125\004\006\023\002\125\123\061 \017\060\015\006\003\125\004\012\023\006\101\155\141\172\157\156 \061\031\060\027\006\003\125\004\003\023\020\101\155\141\172\157

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

END

CKA ID

UTF8 "0"

CKA ISSUER MULTILINE OCTAL

\060\071\061\013\060\011\006\003\125\004\006\023\002\125\123\061 \017\060\015\006\003\125\004\012\023\006\101\155\141\172\157\156 \061\031\060\027\006\003\125\004\003\023\020\101\155\141\172\157

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

END

CKA SERIAL NUMBER MULTILINE OCTAL

\002\023\006\154\237\317\231\277\214\012\071\342\360\170\212\103 \346\226\066\133\312

END

CKA_VALUE MULTILINE_OCTAL

\060\202\003\101\060\202\002\051\240\003\002\001\002\002\023\006 $\label{eq:237} $$ 154\237\317\231\277\214\012\071\342\360\170\212\103\346\226\066\$ \133\312\060\015\006\011\052\206\110\206\367\015\001\001\013\005 \000\060\071\061\013\060\011\006\003\125\004\006\023\002\125\123 $\label{eq:2.1} \end{tabular} \end{tabular}$ \156\061\031\060\027\006\003\125\004\003\023\020\101\155\141\172 \157\156\040\122\157\157\164\040\103\101\040\061\060\036\027\015 \061\065\060\065\062\066\060\060\060\060\060\060\060\132\027\015\063 \070\060\061\061\067\060\060\060\060\060\060\060\132\060\071\061\013 \060\011\006\003\125\004\006\023\002\125\123\061\017\060\015\006 \003\125\004\012\023\006\101\155\141\172\157\156\061\031\060\027 \006\003\125\004\003\023\020\101\155\141\172\157\156\040\122\157 $\label{eq:157} $$ 157\164\040\103\101\040\061\060\202\001\042\060\015\006\011\052\$ \206\110\206\367\015\001\001\001\005\000\003\202\001\017\000\060 \202\001\012\002\202\001\001\000\262\170\200\161\312\170\325\343 \161\257\107\200\120\164\175\156\330\327\210\166\364\231\150\367 \130\041\140\371\164\204\001\057\254\002\055\206\323\240\103\172 \116\262\244\320\066\272\001\276\215\333\110\310\007\027\066\114 \364\356\210\043\307\076\353\067\365\265\031\370\111\150\260\336 \327\271\166\070\035\141\236\244\376\202\066\245\345\112\126\344 \105\341\371\375\264\026\372\164\332\234\233\065\071\057\372\260 \040\120\006\154\172\320\200\262\246\371\257\354\107\031\217\120 \070\007\334\242\207\071\130\370\272\325\251\371\110\147\060\226 $\label{eq:24} 356 224 170 136 157 211 243 121 300 060 206 146 241 105 146 272$ \124\353\243\303\221\371\110\334\377\321\350\060\055\175\055\164 \160\065\327\210\044\367\236\304\131\156\273\163\207\027\362\062 \106\050\270\103\372\267\035\252\312\264\362\237\044\016\055\113 \367\161\134\136\151\377\352\225\002\313\070\212\256\120\070\157 \333\373\055\142\033\305\307\036\124\341\167\340\147\310\017\234 \207\043\326\077\100\040\177\040\200\304\200\114\076\073\044\046 \216\004\256\154\232\310\252\015\002\003\001\000\001\243\102\060 \100\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001 \001\377\060\016\006\003\125\035\017\001\001\377\004\004\003\002

\001\206\060\035\006\003\125\035\016\004\026\004\024\204\030\314 \205\064\354\274\014\224\224\056\010\131\234\307\262\020\116\012 \010\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000 \003\202\001\001\000\230\362\067\132\101\220\241\032\305\166\121 \050\040\066\043\016\256\346\050\273\252\370\224\256\110\244\060 \177\033\374\044\215\113\264\310\241\227\366\266\361\172\160\310 \123\223\314\010\050\343\230\045\317\043\244\371\336\041\323\174 \205\011\255\116\232\165\072\302\013\152\211\170\166\104\107\030 \145\154\215\101\216\073\177\232\313\364\265\247\120\327\005\054 \067\350\003\113\255\351\141\240\002\156\365\362\360\305\262\355 $\label{eq:2.133} $$ 133\267\334\372\224\134\167\236\023\245\177\122\255\225\362\370\$ \223\073\336\213\134\133\312\132\122\133\140\257\024\367\113\357 \243\373\237\100\225\155\061\124\374\102\323\307\106\037\043\255 \331\017\110\160\232\331\165\170\161\321\162\103\064\165\156\127 $\label{eq:131} 302 \\ 002 \\ 134 \\ 046 \\ 140 \\ 051 \\ 317 \\ 043 \\ 031 \\ 026 \\ 216 \\ 210 \\ 103 \\ 245 \\ 324 \\ 3$ \344\313\010\373\043\021\103\350\103\051\162\142\241\251\135\136 \010\324\220\256\270\330\316\024\302\320\125\362\206\366\304\223 \103\167\146\141\300\271\350\101\327\227\170\140\003\156\112\162 \256\245\321\175\272\020\236\206\154\033\212\271\131\063\370\353 \304\220\276\361\271

END

CKA_NSS_MOZILLA_CA_POLICY

CK_BBOOL CK_TRUE

CKA_NSS_SERVER_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

```
\label{eq:103} $$ 103 306 277 256 354 376 255 057 030 306 210 150 060 374 310 346 $$ 103 306 210 150 060 374 310 346 $$ 103 306 210 150 060 374 310 346 $$ 103 306 210 150 060 374 310 346 $$ 103 306 210 150 060 374 310 346 $$ 103 306 210 150 060 374 310 346 $$ 103 306 210 150 060 374 310 346 $$ 103 306 210 150 060 374 310 346 $$ 103 306 210 150 060 374 310 346 $$ 103 306 210 150 060 374 310 346 $$ 103 306 210 150 060 374 310 346 $$ 103 306 255 057 030 306 310 310 346 $$ 103 306 210 150 060 374 310 346 $$ 103 306 210 150 060 374 310 346 $$ 103 306 210 150 060 374 310 346 $$ 103 306 210 150 060 374 310 346 $$ 103 306 210 150 060 374 310 346 $$ 103 306 210 150 060 374 310 346 $$ 103 306 210 150 060 374 310 346 $$ 103 306 210 150 060 374 310 346 $$ 103 306 210 150 060 374 310 346 $$ 103 306 210 150 060 374 310 346 $$ 103 306 210 150 060 374 310 346 $$ 103 306 210 150 060 374 310 346 $$ 103 306 210 150 060 374 310 310 316 $$ 103 306 376 350 060 376 300 $$ 103 306 376 300 $$ 103 300 $$ 103 300 $$ 103 300 $$ 103 300 $$ 103 300 $$ 103 300 $$ 103 300 $$ 103 300 $$ 103 300 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103 $$ 103
```

END

CKA_ISSUER MULTILINE_OCTAL

 $\label{eq:sphere:sphe$

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

\346\226\066\133\312

END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#

Certificate "Amazon Root CA 2"

#

Issuer: CN=Amazon Root CA 2,O=Amazon,C=US

Serial Number:06:6c:9f:d2:96:35:86:9f:0a:0f:e5:86:78:f8:5b:26:bb:8a:37

Subject: CN=Amazon Root CA 2,O=Amazon,C=US

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

Not Valid After : Sat May 26 00:00:00

2040

Fingerprint (SHA-256):

1B:A5:B2:AA:8C:65:40:1A:82:96:01:18:F8:0B:EC:4F:62:30:4D:83:CE:C4:71:3A:19:C3:9C:01:1E:A4:6D:B4

Fingerprint (SHA1): 5A:8C:EF:45:D7:A6:98:59:76:7A:8C:8B:44:96:B5:78:CF:47:4B:1A

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "Amazon Root CA 2"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL

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

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

156040122157157164040103101040062

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

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

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

\060\202\005\101\060\202\003\051\240\003\002\001\002\002\023\006

END

CKA VALUE MULTILINE OCTAL

\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 \061\065\060\065\062\066\060\060\060\060\060\060\060\132\027\015\064 \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 \157\164\040\103\101\040\062\060\202\002\042\060\015\006\011\052 \206\110\206\367\015\001\001\001\005\000\003\202\002\017\000\060 \202\002\012\002\202\002\001\000\255\226\237\055\234\112\114\112 \201\171\121\231\354\212\313\153\140\121\023\274\115\155\006\374 \260\010\215\335\031\020\152\307\046\014\065\330\300\157\040\204 \351\224\261\233\205\003\303\133\333\112\350\310\370\220\166\331 \133\117\343\114\350\006\066\115\314\232\254\075\014\220\053\222 \324\006\031\140\254\067\104\171\205\201\202\255\132\067\340\015 \314\235\246\114\122\166\352\103\235\267\004\321\120\366\125\340 \325\322\246\111\205\351\067\351\312\176\256\134\225\115\110\232 \077\256\040\132\155\210\225\331\064\270\122\032\103\220\260\277 \154\005\271\266\170\267\352\320\344\072\074\022\123\142\377\112 \362\173\276\065\005\251\022\064\343\363\144\164\142\054\075\000 \367\037\332\315\367\041\125\220\117\017\354\256\202\341\237\153 \331\105\323\273\360\137\207\355\074\054\071\206\332\077\336\354 \162\125\353\171\243\255\333\335\174\260\272\034\316\374\336\117 \065\166\317\017\370\170\037\152\066\121\106\047\141\133\351\236 \317\360\242\125\175\174\045\212\157\057\264\305\317\204\056\053 \375\015\121\020\154\373\137\033\274\033\176\305\256\073\230\001 \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 $\label{eq:134}037\\373\\237\\275\\107\\353\\347\\111\\107\\225\\013\\116\\211\\042\\011$ \111\340\365\141\036\361\277\056\212\162\156\200\131\377\127\072 \371\165\062\243\116\137\354\355\050\142\331\115\163\362\314\201

\027\140\355\315\353\334\333\247\312\305\176\002\275\362\124\010 \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 $\label{eq:114} $$ 114\060\364\005\130\002\110\375\063\345\122\257\113\204\343\146\$ \122\060\015\006\011\052\206\110\206\367\015\001\001\014\005\000 \003\202\002\001\000\252\250\200\217\016\170\243\340\242\324\315 \346\365\230\172\073\352\000\003\260\227\016\223\274\132\250\366 \317\060\341\015\020\262\023\132\155\202\365\152\346\200\237\240 \372\011\364\240\223\054\135\322\214\165\205\166\145\220\014\003 \171\267\061\043\143\255\170\203\011\206\150\204\312\377\371\317 \223\223\153\247\350\057\123\222\304\140\130\260\314\002\121\030 \133\205\215\142\131\143\266\255\264\336\232\373\046\367\000\047 \300\135\125\067\164\231\311\120\177\343\131\056\104\343\054\045 \356\354\114\062\167\264\237\032\351\113\135\040\305\332\375\034 \207\026\306\103\350\324\273\046\232\105\160\136\251\013\067\123 \342\106\173\047\375\340\106\362\211\267\314\102\266\313\050\046 \156\331\245\311\072\310\101\023\140\367\120\214\025\256\262\155 \032\025\032\127\170\346\222\052\331\145\220\202\077\154\002\257 \256\022\072\047\226\066\004\327\035\242\200\143\251\233\361\345 \272\264\174\024\260\116\311\261\037\164\137\070\366\121\352\233 $\label{eq:2.1} $$ 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} $$ 175 14 017 174 162 171 172 131 315 136 112 016 254 233 251 230 $$$ $\label{eq:163} \\ 163 \\ 171 \\ 174 \\ 264 \\ 364 \\ 314 \\ 271 \\ 270 \\ 007 \\ 014 \\ 262 \\ 164 \\ 134 \\ 270 \\ 307 \\ 157 \\$ \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 \132\214\357\105\327\246\230\131\166\172\214\213\104\226\265\170 \317\107\113\032 **END** CKA_CERT_MD5_HASH MULTILINE_OCTAL \310\345\215\316\250\102\342\172\300\052\134\174\236\046\277\146 **END** CKA_ISSUER MULTILINE_OCTAL \060\071\061\013\060\011\006\003\125\004\006\023\002\125\123\061 \017\060\015\006\003\125\004\012\023\006\101\155\141\172\157\156 \061\031\060\027\006\003\125\004\003\023\020\101\155\141\172\157 \156\040\122\157\157\164\040\103\101\040\062 END CKA SERIAL NUMBER MULTILINE OCTAL \002\023\006\154\237\322\226\065\206\237\012\017\345\206\170\370 \133\046\273\212\067 END CKA TRUST SERVER AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE # # Certificate "Amazon Root CA 3" # # Issuer: CN=Amazon Root CA 3,O=Amazon,C=US # Serial Number:06:6c:9f:d5:74:97:36:66:3f:3b:0b:9a:d9:e8:9e:76:03:f2:4a # Subject: CN=Amazon Root CA 3,O=Amazon,C=US # Not Valid Before: Tue May 26 00:00:00 2015 # Not Valid After : Sat May 26 00:00:00 2040 # Fingerprint (SHA-256): 18:CE:6C:FE:7B:F1:4E:60:B2:E3:47:B8:DF:E8:68:CB:31:D0:2E:BB:3A:DA:27:15:69:F5:03:43:B4:6D:B3:A4

CKA CLASS CK OBJECT CLASS CKO CERTIFICATE CKA TOKEN CK BBOOL CK TRUE CKA_PRIVATE CK_BBOOL CK_FALSE CKA MODIFIABLE CK BBOOL CK FALSE CKA LABEL UTF8 "Amazon Root CA 3" CKA CERTIFICATE TYPE CK CERTIFICATE TYPE CKC X 509 CKA SUBJECT MULTILINE OCTAL \060\071\061\013\060\011\006\003\125\004\006\023\002\125\123\061 \017\060\015\006\003\125\004\012\023\006\101\155\141\172\157\156 \061\031\060\027\006\003\125\004\003\023\020\101\155\141\172\157 \156\040\122\157\157\164\040\103\101\040\063 **END** CKA ID UTF8 "0" CKA ISSUER MULTILINE OCTAL \060\071\061\013\060\011\006\003\125\004\006\023\002\125\123\061 \017\060\015\006\003\125\004\012\023\006\101\155\141\172\157\156 \061\031\060\027\006\003\125\004\003\023\020\101\155\141\172\157 \156\040\122\157\157\164\040\103\101\040\063 **END** CKA_SERIAL_NUMBER MULTILINE_OCTAL

Fingerprint (SHA1): 0D:44:DD:8C:3C:8C:1A:1A:58:75:64:81:E9:0F:2E:2A:FF:B3:D2:6E

\002\023\006\154\237\325\164\227\066\146\077\073\013\232\331\350 \236\166\003\362\112

END

CKA_VALUE MULTILINE_OCTAL

\060\202\001\266\060\202\001\133\240\003\002\001\002\002\023\006 \154\237\325\164\227\066\146\077\073\013\232\331\350\236\166\003 \362\112\060\012\006\010\052\206\110\316\075\004\003\002\060\071 \061\013\060\011\006\003\125\004\006\023\002\125\123\061\017\060 \015\006\003\125\004\012\023\006\101\155\141\172\157\156\061\031 \060\027\006\003\125\004\003\023\020\101\155\141\172\157\156\040 \122\157\157\164\040\103\101\040\063\060\036\027\015\061\065\060 \065\062\066\060\060\060\060\060\060\132\027\015\064\060\060\065 \062\066\060\060\060\060\060\060\132\060\071\061\013\060\011\006 \003\125\004\006\023\002\125\123\061\017\060\015\006\003\125\004 \012\023\006\101\155\141\172\157\156\061\031\060\027\006\003\125 \004\003\023\020\101\155\141\172\157\156\040\122\157\157\164\040 \103\101\040\063\060\131\060\023\006\007\052\206\110\316\075\002 \001\006\010\052\206\110\316\075\003\001\007\003\102\000\004\051 \227\247\306\101\177\300\015\233\350\001\033\126\306\362\122\245 \272\055\262\022\350\322\056\327\372\311\305\330\252\155\037\163 \201\073\073\230\153\071\174\063\245\305\116\206\216\200\027\150 \142\105\127\175\104\130\035\263\067\345\147\010\353\146\336\243 \102\060\100\060\017\006\003\125\035\023\001\001\377\004\005\060 \003\001\001\377\060\016\006\003\125\035\017\001\001\377\004\004 \003\002\001\206\060\035\006\003\125\035\016\004\026\004\024\253 \266\333\327\006\236\067\254\060\206\007\221\160\307\234\304\031

\261\170\300\060\012\006\010\052\206\110\316\075\004\003\002\003 \111\000\060\106\002\041\000\340\205\222\243\027\267\215\371\053 \006\245\223\254\032\230\150\141\162\372\341\241\320\373\034\170 \140\246\103\231\305\270\304\002\041\000\234\002\357\361\224\234 \263\226\371\353\306\052\370\266\054\376\072\220\024\026\327\214 \143\044\110\034\337\060\175\325\150\073 END CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE

CKA_NSS_SERVER_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

 $\label{eq:2.1} \end{tabular} $$ \015\104\35\214\074\214\032\032\130\165\144\201\351\017\056\052 $$$

377 263 322 156

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL

```
\label{eq:240} $$ 24\357\013\367\265\330\111\225\052\354\365\304\374\201\207\ END $$
```

CKA_ISSUER MULTILINE_OCTAL

\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

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):

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

 $\label{eq:2.123} \\ 060\071\061\013\060\011\006\003\125\004\006\023\002\125\123\061$

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

156040122157157164040103101040064

END

CKA_ID

UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

 $\label{eq:sphere:sphe$

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

\003\125\004\006\023\002\125\123\061\017\060\015\006\003\125\004 \012\023\006\101\155\141\172\157\156\061\031\060\027\006\003\125 \004\003\023\020\101\155\141\172\157\156\040\122\157\157\164\040 \103\101\040\064\060\166\060\020\006\007\052\206\110\316\075\002 \001\006\005\053\201\004\000\042\003\142\000\004\322\253\212\067 $\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 $\label{eq:145} $$ 14341332166232126373234363206155127345201 $$$ \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\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

 $\label{eq:204} \end{aligned} \label{eq:204} \end{aligned} \end{aligned} \end{aligned} \end{aligned} \label{eq:204} \end{aligned} \end{aligne$

 $034\357\143\276$

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:156} $$ 156\040\122\157\157\164\040\103\101\040\064 $$$

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

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

\054\310\032\301\016

END

CKA_TRUST_SERVER_AUTH CK_TRUST

CKT_NSS_TRUSTED_DELEGATOR

 $CKA_TRUST_EMAIL_PROTECTION\ CK_TRUST\ CKT_NSS_TRUSTED_DELEGATOR$

CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST

CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#

Certificate "Symantec Class 1 Public Primary Certification Authority - G6"

#

Issuer: CN=Symantec Class 1 Public Primary Certification Authority - G6,OU=Symantec Trust

Network,O=Symantec Corporation,C=US

Serial Number:24:32:75:f2:1d:2f:d2:09:33:f7:b4:6a:ca:d0:f3:98

Subject: CN=Symantec Class 1 Public Primary Certification Authority - G6,OU=Symantec Trust

Network,O=Symantec Corporation,C=US

Not Valid Before: Tue Oct 18 00:00:00 2011

Not Valid After : Tue Dec 01 23:59:59 2037

Fingerprint (SHA-256):

9D:19:0B:2E:31:45:66:68:5B:E8:A8:89:E2:7A:A8:C7:D7:AE:1D:8A:AD:DB:A3:C1:EC:F9:D2:48:63:CD:34:B9 # Fingerprint (SHA1): 51:7F:61:1E:29:91:6B:53:82:FB:72:E7:44:D9:8D:C3:CC:53:6D:64

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE

CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "Symantec Class 1 Public Primary Certification Authority - G6"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL

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

 $\label{eq:164} $$ 164\145\143\040\103\157\162\160\157\162\141\164\151\157\156\061\$

 $\label{eq:2.1} \end{tabular} $$ \003\003\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\061\040\120\165\142\154

\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

CKA VALUE MULTILINE OCTAL

END

\363\230

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

CKA_SERIAL_NUMBER

END

164171040055040107066

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 \151\143\040\120\162\151\155\141\162\171\040\103\145\162\164\151 $\label{eq:146} \\ 146 \\ 151 \\ 143 \\ 141 \\ 164 \\ 151 \\ 157 \\ 156 \\ 040 \\ 101 \\ 165 \\ 164 \\ 150 \\ 157 \\ 162 \\ 151 \\ 162 \\ 162 \\ 162 \\ 162 \\ 151 \\ 162 \\ 151 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 101 \\ 162 \\ 162 \\ 151 \\ 162 \\$

CKA ID UTF8 "0"

END

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

\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151

\111\144\251\231\202\042\114\352\105\331\007\026\343\173\364\203 \350\231\163\372\153\261\066\340\232\167\240\100\302\201\215\001 \307\314\214\275\217\175\367\171\343\172\114\003\115\331\373\375 \207\070\050\054\335\232\213\124\010\333\147\373\033\214\376\050 \222\057\276\267\262\110\247\201\241\330\136\210\303\314\071\100 $\label{eq:101132} \\ 321334345332020237057332001115375056106174$ \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 $\label{eq:226} \end{tabular} \end{tabular}$ \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 $\label{eq:266} \end{tabular} $$ \ 266 \ 137 \ 111 \ 151 \ 104 \ 246 \ 366 \ 136 \ 172 \ 147 \ 254 \ 322 \ 336 \ 165 \ 111 \ 253 \ 253 \$ \376\045\125\307\072\311\104\025\020\156\277\061\153\313\331\007 \223\177\034\205\143\000\343\062\022\340\314\313\373\071\154\217 \342\123\342\074\100\063\331\244\214\107\346\255\130\373\211\257 \343\336\206\051\126\064\054\105\270\022\372\104\211\156\055\024 $\label{eq:2.12} $$ 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\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\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} $$ 121\17\141\036\051\221\153\123\202\373\162\347\104\331\215\303$ \314\123\155\144 **END** CKA CERT MD5 HASH MULTILINE_OCTAL $\label{eq:250} $$ 057\250\264\332\366\144\113\036\202\371\106\075\124\032\174\260 $$$ **END** CKA_ISSUER MULTILINE_OCTAL \060\201\224\061\013\060\011\006\003\125\004\006\023\002\125\123 \061\035\060\033\006\003\125\004\012\023\024\123\171\155\141\156 $\label{eq:164} $$ 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 \145\143\040\124\162\165\163\164\040\116\145\164\167\157\162\153 \164\145\143\040\103\154\141\163\163\040\061\040\120\165\142\154 164171040055040107066**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):

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

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

 $\label{eq:164} $$ 164\145\143\040\103\157\162\160\157\162\141\164\151\157\156\061 $$$

\061\105\060\103\006\003\125\004\003\023\074\123\171\155\141\156

\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

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

END

CKA_SERIAL_NUMBER

MULTILINE_OCTAL

\002\020\144\202\236\374\067\036\164\135\374\227\377\227\310\261 \377\101

END

CKA VALUE MULTILINE OCTAL \060\202\003\366\060\202\002\336\240\003\002\001\002\002\020\144 \202\236\374\067\036\164\135\374\227\377\227\310\261\377\101\060 \015\006\011\052\206\110\206\367\015\001\001\013\005\000\060\201 \224\061\013\060\011\006\003\125\004\006\023\002\125\123\061\035 \060\033\006\003\125\004\012\023\024\123\171\155\141\156\164\145 \143\040\103\157\162\160\157\162\141\164\151\157\156\061\037\060 \035\006\003\125\004\013\023\026\123\171\155\141\156\164\145\143 $\label{eq:1040} \\ (040) \\ 124) \\ 162) \\ 165) \\ 163) \\ 164) \\ 040) \\ 116) \\ 145) \\ 164) \\ 167) \\ 157) \\ 162) \\ 153) \\ 061) \\ 105$ \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 $\label{eq:120} \\ (040) \\ 120) \\ 162) \\ 151) \\ 155) \\ 141) \\ 162) \\ 171) \\ 040) \\ 103) \\ 145) \\ 162) \\ 164) \\ 151) \\ 146) \\ 151$ $\label{eq:143} \\ 141 \\ 164 \\ 151 \\ 157 \\ 156 \\ 040 \\ 101 \\ 165 \\ 164 \\ 150 \\ 157 \\ 162 \\ 151 \\ 164 \\ 171 \\ 164 \\$ \040\055\040\107\066\060\036\027\015\061\061\061\060\061\070\060 \060\060\060\060\060\060\132\027\015\063\067\061\062\060\061\062\063 \065\071\065\071\132\060\201\224\061\013\060\011\006\003\125\004 \006\023\002\125\123\061\035\060\033\006\003\125\004\012\023\024 $\label{eq:123} 171 155 141 156 164 145 143 040 103 157 162 160 157 162 141$ \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 \123\171\155\141\156\164\145\143\040\103\154\141\163\163\040\062 \103\145\162\164\151\146\151\143\141\164\151\157\156\040\101\165 \164\150\157\162\151\164\171\040\055\040\107\066\060\202\001\042 \060\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003 \202\001\017\000\060\202\001\012\002\202\001\001\000\315\314\351 \005\310\143\205\313\077\100\143\027\275\030\372\065\346\004\147 \127\145\230\051\244\117\311\134\217\017\064\322\370\332\250\023 \142\252\270\036\120\147\170\260\026\114\240\071\251\025\172\256 \355\322\242\300\360\220\067\051\030\046\134\350\015\074\266\154 \111\077\301\340\334\331\113\266\024\031\013\246\323\226\341\326 \011\343\031\046\034\371\037\145\113\371\032\103\034\000\203\326 \320\252\111\242\324\333\346\142\070\272\120\024\103\155\371\061 \370\126\026\331\070\002\221\317\353\154\335\273\071\116\231\341 \060\147\105\361\324\360\215\303\337\376\362\070\007\041\175\000 \136\126\104\263\344\140\275\221\053\234\253\133\004\162\017\262 \050\331\162\253\005\040\102\045\251\133\003\152\040\020\314\061 \360\053\332\065\054\320\373\232\227\116\360\202\113\053\330\137 \066\243\013\055\257\143\015\035\045\177\241\156\134\142\241\215 \050\076\241\374\034\040\370\001\057\272\125\232\021\260\031\322 \310\120\171\153\016\152\005\327\252\004\066\262\243\362\341\137 $\label{eq:167} $$ 167\247\167\234\345\036\334\351\337\152\301\145\135\002\003\001\$ \000\001\243\102\060\100\060\016\006\003\125\035\017\001\001\377 \004\004\003\002\001\006\060\017\006\003\125\035\023\001\001\377 \004\005\060\003\001\001\377\060\035\006\003\125\035\016\004\026 \004\024\207\214\040\225\310\230\112\321\326\200\006\112\220\064 \104\337\034\115\277\260\060\015\006\011\052\206\110\206\367\015

\001\001\013\005\000\003\202\001\001\000\201\216\262\245\146\226 \267\041\245\266\357\157\043\132\137\333\201\305\102\245\170\301 \151\375\364\074\327\371\134\153\160\162\032\374\132\227\115\000 \200\210\210\202\212\303\161\015\216\305\211\233\054\355\215\013 \322\162\124\365\175\324\134\103\127\351\363\256\245\002\021\366 \166\053\201\127\335\175\332\164\060\375\124\107\366\340\026\156 \246\264\012\110\346\347\165\007\017\051\031\071\316\171\364\266 $\label{eq:154} $$ 137 231 325 037 113 372 337 155 054 074 015 124 200 160 $$$ \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 $\label{eq:141} $$ 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

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

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

 $\label{eq:100} $$ 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

END

CKA_ISSUER

MULTILINE_OCTAL

```
\label{eq:solution} $$ 060 \ 201 \ 224 \ 061 \ 013 \ 060 \ 011 \ 006 \ 003 \ 125 \ 004 \ 006 \ 023 \ 002 \ 125 \ 123 \ 061 \ 035 \ 060 \ 003 \ 125 \ 004 \ 012 \ 023 \ 024 \ 123 \ 171 \ 155 \ 141 \ 156 \ 164 \ 145 \ 143 \ 040 \ 103 \ 157 \ 162 \ 160 \ 157 \ 162 \ 123 \ 171 \ 155 \ 141 \ 156 \ 164 \ 145 \ 143 \ 040 \ 125 \ 004 \ 013 \ 023 \ 026 \ 123 \ 171 \ 155 \ 141 \ 156 \ 164 \ 145 \ 143 \ 040 \ 126 \ 165 \ 163 \ 164 \ 040 \ 116 \ 145 \ 164 \ 167 \ 157 \ 162 \ 153 \ 166 \ 105 \ 060 \ 103 \ 006 \ 003 \ 125 \ 004 \ 003 \ 023 \ 074 \ 123 \ 171 \ 155 \ 141 \ 156 \ 164 \ 145 \ 143 \ 040 \ 103 \ 155 \ 141 \ 163 \ 163 \ 040 \ 062 \ 040 \ 120 \ 165 \ 142 \ 154 \ 151 \ 143 \ 040 \ 120 \ 162 \ 151 \ 115 \ 141 \ 162 \ 171 \ 040 \ 105 \ 164 \ 157 \ 162 \ 151 \ 164 \ 171 \ 040 \ 055 \ 040 \ 107 \ 066 \ 105 \ 164 \ 157 \ 162 \ 157 \ 164 \ 171 \ 040 \ 155 \ 040 \ 107 \ 166 \ 157 \ 164 \ 157 \ 164 \ 157 \ 164 \ 157 \ 164 \ 157 \ 164 \ 157 \ 164 \ 157 \ 164 \ 157 \ 164 \ 157 \ 164 \ 157 \ 164 \ 157 \ 164 \ 157 \ 164 \ 157 \ 164 \ 157 \ 164 \ 157 \ 164 \ 157 \ 164 \ 157 \ 164 \ 157 \ 164 \ 157 \ 164 \ 157 \ 164 \ 157 \ 164 \ 157 \ 164 \ 157 \ 164 \ 157 \ 164 \ 157 \ 164 \ 157 \ 164 \ 157 \ 164 \ 157 \ 164 \ 157 \ 164 \ 157 \ 164 \ 157 \ 164 \ 157 \ 164 \ 157 \ 164 \ 157 \ 157 \ 156 \ 164 \ 157 \ 164 \ 157 \ 164 \ 157 \ 164 \ 157 \ 164 \ 157 \ 157 \ 164 \ 157 \ 164 \ 157 \ 164 \ 157 \ 164 \ 157 \ 164 \ 157 \ 164 \ 157 \ 164 \ 157 \ 164 \ 157 \ 164 \ 157 \ 164 \ 157 \ 164 \ 157 \ 164 \ 157 \ 164 \ 157 \ 164 \ 157 \ 164 \ 157 \ 164 \ 157 \ 164 \ 157 \ 164 \ 157 \ 164 \ 157 \ 164 \ 157 \ 164 \ 157 \ 164 \ 157 \ 164 \ 157 \ 164 \ 157 \ 164 \ 157 \ 164 \ 157 \ 164 \ 157 \ 164 \ 157 \ 164 \ 157 \ 164 \ 157 \ 164 \ 157 \ 164 \ 157 \ 164 \ 157 \ 164 \ 157 \ 164 \ 157 \ 164 \ 157 \ 164 \ 157 \ 164 \ 157 \ 164 \ 157 \ 164 \ 157 \ 164 \ 157 \ 164 \ 157 \ 164 \ 157 \ 164 \ 157 \ 164 \ 157 \ 164 \ 157 \ 164 \ 157 \ 164 \ 157 \ 164 \ 157 \ 164 \ 157 \ 164 \ 157 \ 164 \ 157 \ 164 \ 157 \ 164 \ 157 \ 164 \ 157 \ 164 \ 157 \ 164 \ 157 \ 164 \
```

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL \002\020\144\202\236\374\067\036\164\135\374\227\377\227\310\261

\377\101

END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#

Certificate "D-TRUST

Root CA 3 2013"

#

Issuer: CN=D-TRUST Root CA 3 2013,O=D-Trust GmbH,C=DE

Serial Number: 1039788 (0xfddac)

Subject: CN=D-TRUST Root CA 3 2013,O=D-Trust GmbH,C=DE

Not Valid Before: Fri Sep 20 08:25:51 2013

Not Valid After : Wed Sep 20 08:25:51 2028

Fingerprint (SHA-256):

A1:A8:6D:04:12:1E:B8:7F:02:7C:66:F5:33:03:C2:8E:57:39:F9:43:FC:84:B3:8A:D6:AF:00:90:35:DD:94:57

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

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "D-TRUST Root CA 3 2013"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL

 $\label{eq:2.105} $$ 060\101\006\003\125\004\006\023\002\104\105\061\$

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

040 063 040 062 060 061 063

END

CKA ID

UTF8 "0"

END

END

CKA ISSUER MULTILINE OCTAL

CKA VALUE MULTILINE OCTAL

CKA SERIAL NUMBER MULTILINE OCTAL

\040\063\040\062\060\061\063

\002\003\017\335\254

\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

\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 $\label{eq:151} $$ 151\362\366\233\242\141\261\275\007\040\164\230\145\361\214\046\$ \010\315\250\065\312\200\066\321\143\155\350\104\172\202\303\154 \136\336\273\350\066\322\304\150\066\214\237\062\275\204\042\340 \334\302\356\020\106\071\155\257\223\071\256\207\346\303\274\011 \311\054\153\147\133\331\233\166\165\114\013\340\273\305\327\274 \076\171\362\137\276\321\220\127\371\256\366\146\137\061\277\323 \155\217\247\272\112\363\043\145\273\267\357\243\045\327\012\352 \164\051\225\252\121\073\220\062\003\237\034\162\164\220\336\075 \355\141\322\345\343\375\144\107\345\271\267\112\251\367\037\256 \226\206\004\254\057\343\244\201\167\267\132\026\377\330\017\077 \366\267\170\314\244\257\372\133\074\022\133\250\122\211\162\357 \210\363\325\104\201\206\225\043\237\173\335\274\331\064\357\174 \224\074\252\300\101\302\343\235\120\032\300\344\031\042\374\263 \002\003\001\000\001\243\202\001\005\060\202\001\001\060\017\006 \003\125\035\023\001\001\377\004\005\060\003\001\001\377\060\035 \006\003\125\035\016\004\026\004\024\077\220\310\175\307\025\157 \363\044\217\251\303\057\113\242\017\041\262\057\347\060\016\006

Open Source Used In vmoperator Crafton-3.0 879

\003\125\035\017\001\001\377\004\004\003\002\001\006\060\201\276 \006\003\125\035\037\004\201\266\060\201\263\060\164\240\162\240 $\label{eq:157} $$ 157\162\171\056\144\055\164\162\165\163\164\056\156\145\164\057\$ \103\116\075\104\055\124\122\125\123\124\045\062\060\122\157\157 \164\045\062\060\103\101\045\062\060\063\045\062\060\062\060\061 \063\054\117\075\104\055\124\162\165\163\164\045\062\060\107\155 $\label{eq:142} \\ 100054103075104105077143145162164151146151143$ \164\060\073\240\071\240\067\206\065\150\164\164\160\072\057\057 $\label{eq:143} \\ 162 \\ 154 \\ 057 \\ 144 \\ 055 \\ 164 \\ 162 \\ 165 \\ 163 \\ 164 \\ 137 \\ 162 \\ 157 \\ 157 \\ 164 \\ 167 \\ 164 \\ 167 \\ 167 \\ 167 \\ 164 \\ 167 \\$ \137\143\141\137\063\137\062\060\061\063\056\143\162\154\060\015 \006\011\052\206\110\206\367\015\001\001\013\005\000\003\202\001 \001\000\016\131\016\130\344\164\110\043\104\317\064\041\265\234 \024\032\255\232\113\267\263\210\155\134\251\027\160\360\052\237 \215\173\371\173\205\372\307\071\350\020\010\260\065\053\137\317 \002\322\323\234\310\013\036\356\005\124\256\067\223\004\011\175 \154\217\302\164\274\370\034\224\276\061\001\100\055\363\044\040 \267\204\125\054\134\310\365\164\112\020\031\213\243\307\355\065 \326\011\110\323\016\300\272\071\250\260\106\002\260\333\306\210 \131\302\276\374\173\261\053\317\176\142\207\125\226\314\001\157 \233\147\041\225\065\213\370\020\374\161\033\267\113\067\151\246 \073\326\354\213\356\301\260\363\045\311\217\222\175\241\352\303 $\label{eq:22} $$ 104\277\046\245\164\222\234\343\164\353\235\164\331\313\15$ \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):
A1:A8:6D:04:12:1E:B8:7F:02:7C:66:F5:33:03:C2:8E:57:39:F9:43:FC:84:B3:8A:D6:AF:00:90:35:DD:94:57
Fingerprint (SHA1): 6C:7C:CC:E7:D4:AE:51:5F:99:08:CD:3F:F6:E8:C3:78:DF:6F:EF:97

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

CKA TOKEN CK BBOOL CK TRUE CKA PRIVATE CK BBOOL CK FALSE CKA_MODIFIABLE CK_BBOOL CK_FALSE CKA_LABEL UTF8 "D-TRUST Root CA 3 2013" CKA CERT SHA1 HASH MULTILINE OCTAL \154\174\314\347\324\256\121\137\231\010\315\077\366\350\303\170 \337\157\357\227 **END** CKA_CERT_MD5_HASH MULTILINE_OCTAL \267\042\146\230\176\326\003\340\301\161\346\165\315\126\105\277 **END** CKA_ISSUER MULTILINE_OCTAL \060\105\061\013\060\011\006\003\125\004\006\023\002\104\105\061 \025\060\023\006\003\125\004\012\014\014\104\055\124\162\165\163 \164\040\107\155\142\110\061\037\060\035\006\003\125\004\003\014 \026\104\055\124\122\125\123\124\040\122\157\157\164\040\103\101 \040\063\040\062\060\061\063 END CKA_SERIAL_NUMBER MULTILINE_OCTAL \002\003\017\335\254 END CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST CKA TRUST EMAIL PROTECTION CK TRUST CKT NSS TRUSTED DELEGATOR CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST CKA TRUST STEP UP APPROVED CK BBOOL CK FALSE

#

Certificate "TUBITAK Kamu SM SSL Kok Sertifikasi - Surum 1"

#

Issuer: CN=TUBITAK Kamu SM SSL Kok Sertifikasi - Surum 1,OU=Kamu Sertifikasyon Merkezi - Kamu SM,O=Turkiye Bilimsel ve Teknolojik Arastirma Kurumu - TUBITAK,L=Gebze - Kocaeli,C=TR

Serial Number: 1 (0x1)

Subject: CN=TUBITAK Kamu SM SSL Kok Sertifikasi - Surum 1,OU=Kamu Sertifikasyon Merkezi - Kamu SM,O=Turkiye Bilimsel ve Teknolojik Arastirma Kurumu - TUBITAK,L=Gebze - Kocaeli,C=TR

Not Valid Before: Mon Nov 25 08:25:55 2013

Not Valid After : Sun Oct 25 08:25:55 2043

Fingerprint (SHA-256):

46:ED:C3:68:90:46:D5:3A:45:3F:B3:10:4A:B8:0D:CA:EC:65:8B:26:60:EA:16:29:DD:7E:86:79:90:64:87:16 # Fingerprint (SHA1): 31:43:64:9B:EC:CE:27:EC:ED:3A:3F:0B:8F:0D:E4:E8:91:DD:EE:CA

CKA_CLASS

CK_OBJECT_CLASS CKO_CERTIFICATE

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "TUBITAK Kamu SM SSL Kok Sertifikasi - Surum 1"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL

END CKA_VALUE MULTILINE_OCTAL \060\202\004\143\060\202\003\113\240\003\002\001\002\002\001\001 \060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060 \201\322\061\013\060\011\006\003\125\004\006\023\002\124\122\061 \030\060\026\006\003\125\004\007\023\017\107\145\142\172\145\040 \055\040\113\157\143\141\145\154\151\061\102\060\100\006\003\125 \004\012\023\071\124\165\162\153\151\171\145\040\102\151\154\151 \155\163\145\154\040\166\145\040\124\145\153\156\157\154\157\152 \151\153\040\101\162\141\163\164\151\162\155\141\040\113\165\162 \165\155\165\040\055\040\124\125\102\111\124\101\113\061\055\060 \053\006\003\125\004\013\023\044\113\141\155\165\040\123\145\162

\002\001\001

MULTILINE_OCTAL

CKA SERIAL NUMBER

END

\162\165\155\040\061

UTF8 "0"

CKA ID

END

\162\165\155\040\061

CKA ISSUER MULTILINE OCTAL

\164\151\146\151\153\141\163\171\157\156\040\115\145\162\153\145 \172\151\040\055\040\113\141\155\165\040\123\115\061\066\060\064 \006\003\125\004\003\023\055\124\125\102\111\124\101\113\040\113 \141\155\165\040\123\115\040\123\123\114\040\113\157\153\040\123 \145\162\164\151\146\151\153\141\163\151\040\055\040\123\165\162 \165\155\040\061\060\036\027\015\061\063\061\061\062\065\060\070 \062\065\065\065\132\027\015\064\063\061\060\062\065\060\070\062 \065\065\065\132\060\201\322\061\013\060\011\006\003\125\004\006 \023\002\124\122\061\030\060\026\006\003\125\004\007\023\017\107 \060\100\006\003\125\004\012\023\071\124\165\162\153\151\171\145 \156\157\154\157\152\151\153\040\101\162\141\163\164\151\162\155 \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\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 $\label{eq:113} 157 153 040 123 145 162 164 151 146 151 153 141 163 151 040$ \055\040\123\165\162\165\155\040\061\060\202\001\042\060\015\006 \011\052\206\110\206\367\015\001\001\001\005\000\003\202\001\017 \000\060\202\001\012\002\202\001\001\000\257\165\060\063\252\273 \153\323\231\054\022\067\204\331\215\173\227\200\323\156\347\377 \233\120\225\076\220\225\126\102\327\031\174\046\204\215\222\372 \001\035\072\017\342\144\070\267\214\274\350\210\371\213\044\253 \056\243\365\067\344\100\216\030\045\171\203\165\037\073\377\154 \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 \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 \155\073\307\023\275\131\043\054\346\345\244\367\330\013\355\352 \220\100\104\250\225\273\223\325\320\200\064\266\106\170\016\037 \000\223\106\341\356\351\371\354\117\027\002\003\001\000\001\243 \102\060\100\060\035\006\003\125\035\016\004\026\004\024\145\077 \307\212\206\306\074\335\074\124\134\065\370\072\355\122\014\107 \127\310\060\016\006\003\125\035\017\001\001\377\004\004\003\002 \001\006\060\017\006\003\125\035\023\001\001\377\004\005\060\003 \001\001\377\060\015\006\011\052\206\110\206\367\015\001\001\013 \005\000\003\202\001\001\000\052\077\341\361\062\216\256\341\230 \134\113\136\317\153\036\152\011\322\042\251\022\307\136\127\175 \163\126\144\200\204\172\223\344\011\271\020\315\237\052\047\341 \000\167\276\110\310\065\250\201\237\344\270\054\311\177\016\260

\322\113\067\135\352\271\325\013\136\064\275\364\163\051\303\355 \046\025\234\176\010\123\212\130\215\320\113\050\337\301\263\337 \040\363\371\343\343\072\337\314\234\224\330\116\117\303\153\027 $\label{eq:267} $$ $$ 267 367 162 350 255 146 063 265 045 123 253 340 370 114 251 235 $$$ \375\362\015\272\256\271\331\252\306\153\371\223\273\256\253\270 \227\074\003\032\272\103\306\226\271\105\162\070\263\247\241\226 \075\221\173\176\300\041\123\114\207\355\362\013\124\225\121\223 \325\042\245\015\212\361\223\016\076\124\016\260\330\311\116\334 \362\061\062\126\352\144\371\352\265\235\026\146\102\162\363\177 \323\261\061\103\374\244\216\027\361\155\043\253\224\146\370\255 \373\017\010\156\046\055\177\027\007\011\262\214\373\120\300\237 \226\215\317\266\375\000\235\132\024\232\277\002\104\365\301\302 \237\042\136\242\017\241\343 END CKA_NSS_MOZILLA_CA_POLICY CK BBOOL CK TRUE CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA NSS EMAIL DISTRUST AFTER CK BBOOL CK FALSE # Trust for "TUBITAK Kamu SM SSL Kok Sertifikasi - Surum 1" # Issuer: CN=TUBITAK Kamu SM SSL Kok Sertifikasi - Surum 1,OU=Kamu Sertifikasyon Merkezi - Kamu SM,O=Turkiye Bilimsel ve Teknolojik Arastirma Kurumu -TUBITAK,L=Gebze - Kocaeli,C=TR # Serial Number: 1 (0x1) # Subject: CN=TUBITAK Kamu SM SSL Kok Sertifikasi - Surum 1,OU=Kamu Sertifikasyon Merkezi - Kamu SM,O=Turkiye Bilimsel ve Teknolojik Arastirma Kurumu - TUBITAK,L=Gebze - Kocaeli,C=TR # Not Valid Before: Mon Nov 25 08:25:55 2013 # Not Valid After : Sun Oct 25 08:25:55 2043 # Fingerprint (SHA-256): 46:ED:C3:68:90:46:D5:3A:45:3F:B3:10:4A:B8:0D:CA:EC:65:8B:26:60:EA:16:29:DD:7E:86:79:90:64:87:16 # Fingerprint (SHA1): 31:43:64:9B:EC:CE:27:EC:ED:3A:3F:0B:8F:0D:E4:E8:91:DD:EE:CA CKA CLASS CK OBJECT CLASS CKO NSS TRUST CKA_TOKEN CK_BBOOL CK_TRUE CKA PRIVATE CK BBOOL CK FALSE CKA_MODIFIABLE CK_BBOOL CK_FALSE CKA_LABEL UTF8 "TUBITAK Kamu SM SSL Kok Sertifikasi - Surum 1" CKA_CERT_SHA1_HASH MULTILINE_OCTAL \061\103\144\233\354\316\047\354\355\072\077\013\217\015\344\350 \221\335\356\312 END CKA_CERT_MD5_HASH MULTILINE_OCTAL \334\000\201\334\151\057\076\057\260\073\366\075\132\221\216\111 END CKA_ISSUER MULTILINE_OCTAL \060\201\322\061\013\060\011\006\003\125\004\006\023\002\124\122 \061\030\060\026\006\003\125\004\007\023\017\107\145\142\172\145 \040\055\040\113\157\143\141\145\154\151\061\102\060\100\006\003

\125\004\012\023\071\124\165\162\153\151\171\145\040\102\151\154 $\label{eq:151} $$ 153145154040166145040124145153156157154157 $$$ \060\053\006\003\125\004\013\023\044\113\141\155\165\040\123\145 \162\164\151\146\151\153\141\163\171\157\156\040\115\145\162\153 \145\172\151\040\055\040\113\141\155\165\040\123\115\061\066\060 \064\006\003\125\004\003\023\055\124\125\102\111\124\101\113\040 \113\141\155\165\040\123\115\040\123\123\114\040\113\157\153\040 \123\145\162\164\151\146\151\153\141\163\151\040\055\040\123\165 \162\165\155\040\061 END CKA SERIAL NUMBER MULTILINE OCTAL \002\001\001 END CKA TRUST SERVER AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR CKA TRUST EMAIL PROTECTION CK TRUST CKT NSS MUST VERIFY TRUST CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE # # Certificate "GDCA TrustAUTH R5 ROOT" # # Issuer: CN=GDCA TrustAUTH R5 ROOT.O="GUANG DONG CERTIFICATE AUTHORITY CO.,LTD.",C=CN # Serial Number:7d:09:97:fe:f0:47:ea:7a # Subject: CN=GDCA TrustAUTH R5 ROOT,O="GUANG DONG CERTIFICATE AUTHORITY CO.,LTD.",C=CN # Not Valid Before: Wed Nov 26 05:13:15 2014 # Not Valid After : Mon Dec 31 15:59:59 2040 # Fingerprint (SHA-256): BF:FF:8F: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 CERTIFICATE CKA_TOKEN CK_BBOOL CK_TRUE CKA PRIVATE CK BBOOL CK FALSE CKA_MODIFIABLE CK_BBOOL CK_FALSE CKA_LABEL UTF8 "GDCA TrustAUTH R5 ROOT" CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509 CKA_SUBJECT MULTILINE OCTAL \060\142\061\013\060\011\006\003\125\004\006\023\002\103\116\061 \062\060\060\006\003\125\004\012\014\051\107\125\101\116\107\040 $\label{eq:104117116107040103105122124111106111103101124105} \label{eq:104117116107040103105122124111106111103101124105}$ $\label{eq:101125124110117122111124131040103117056054114} \label{eq:101125124110117122111124131040103117056054114}$ \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

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} $$ 107 125 101 116 107 040 104 117 116 107 040 103 105 122 124 111 $$$ \040\103\117\056\054\114\124\104\056\061\037\060\035\006\003\125 $\label{eq:2.10} \\ 004 \\ 003 \\ 014 \\ 026 \\ 107 \\ 104 \\ 103 \\ 101 \\ 040 \\ 124 \\ 162 \\ 165 \\ 163 \\ 164 \\ 101 \\ 125 \\ 164 \\ 101 \\ 125 \\ 164 \\ 101 \\ 125 \\ 164 \\ 101 \\ 125 \\ 164 \\ 101 \\ 125 \\ 164 \\ 101 \\ 125 \\ 164 \\ 101 \\ 125 \\ 164 \\ 101 \\ 125 \\ 164 \\ 101 \\ 125 \\ 164 \\ 101 \\ 125 \\ 164 \\ 101 \\ 125 \\ 164 \\ 101 \\ 125 \\ 164 \\ 101 \\ 125 \\ 164 \\ 101 \\ 125 \\ 164 \\ 101 \\ 125 \\ 101 \\ 100$ \124\110\040\122\065\040\122\117\117\124\060\036\027\015\061\064 \061\061\062\066\060\065\061\063\061\065\132\027\015\064\060\061 \062\063\061\061\065\065\071\065\071\132\060\142\061\013\060\011 \006\003\125\004\006\023\002\103\116\061\062\060\060\006\003\125 \004\012\014\051\107\125\101\116\107\040\104\117\116\107\040\103 \105\122\124\111\106\111\103\101\124\105\040\101\125\124\110\117 \035\006\003\125\004\003\014\026\107\104\103\101\040\124\162\165 \163\164\101\125\124\110\040\122\065\040\122\117\117\124\060\202 \002\042\060\015\006\011\052\206\110\206\367\015\001\001\001\005 \000\003\202\002\017\000\060\202\002\012\002\202\002\001\000\331 \243\026\360\310\164\164\167\233\357\063\015\073\006\176\125\374 \265\140\217\166\206\022\102\175\126\146\076\210\202\355\162\143 \016\236\213\335\064\054\002\121\121\303\031\375\131\124\204\311 \361\153\263\114\260\351\350\106\135\070\306\242\247\056\021\127 \272\202\025\242\234\217\155\260\231\112\012\362\353\211\160\143 \116\171\304\267\133\275\242\135\261\362\101\002\053\255\251\072 \243\354\171\012\354\137\072\343\375\357\200\074\255\064\233\032 \253\210\046\173\126\242\202\206\037\353\065\211\203\177\137\256 \051\116\075\266\156\354\256\301\360\047\233\256\343\364\354\357 \256\177\367\206\075\162\172\353\245\373\131\116\247\353\225\214 $\label{eq:2.1} \end{tabular} \end{tabular}$ \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

END

END CKA_SERIAL_NUMBER MULTILINE_OCTAL \002\010\175\011\227\376\360\107\352\172

122117117124

CKA_ISSUER MULTILINE_OCTAL \060\142\061\013\060\011\006\003\125\004\006\023\002\103\116\061 \062\060\060\006\003\125\004\012\014\051\107\125\101\116\107\040 \104\117\116\107\040\103\105\122\124\111\106\111\103\101\124\105 \040\101\125\124\110\117\122\111\124\131\040\103\117\056\054\114 \124\104\056\061\037\060\035\006\003\125\004\003\014\026\107\104 \103\101\040\124\162\165\163\164\101\125\124\110\040\122\065\040

122 117 117 124

CKA ID UTF8 "0"

END

\011\364\054\271\132\146\052\260\027\233\236\036\166\235\112\146 \061\101\337\077\373\305\006\357\033\266\176\032\106\066\367\144 \143\073\343\071\030\043\347\147\165\024\325\165\127\222\067\275 \276\152\033\046\120\362\066\046\006\220\305\160\001\144\155\166 \146\341\221\333\156\007\300\141\200\056\262\056\057\214\160\247 \321\073\074\263\221\344\156\266\304\073\160\362\154\222\227\011 \315\107\175\030\300\363\273\236\017\326\213\256\007\266\132\017 \316\013\014\107\247\345\076\270\275\175\307\233\065\240\141\227 \072\101\165\027\314\053\226\167\052\222\041\036\331\225\166\040 $\label{eq:147} $$ 147 150 317 015 275 337 326 037 011 152 232 342 314 163 161 244$ \310\362\040\301\202\354\235\021\337\302\002\373\032\073\321\355 \040\232\357\145\144\222\020\015\052\342\336\160\361\030\147\202 \214\141\336\270\274\321\057\234\373\017\320\053\355\033\166\271 \344\071\125\370\370\241\035\270\252\200\000\114\202\347\262\177 \011\270\274\060\240\057\015\365\122\236\216\367\222\263\012\000 \131\127\344\355\245\215\351\100\123\237\025\113\240\161\366\032 \041\343\332\160\006\041\130\024\207\205\167\171\252\202\171\002 \003\001\000\001\243\102\060\100\060\035\006\003\125\035\016\004 \026\004\024\342\311\100\237\115\316\350\232\241\174\317\016\077 \145\305\051\210\152\031\121\060\017\006\003\125\035\023\001\001 \377\004\005\060\003\001\377\060\016\006\003\125\035\017\001 \001\377\004\003\002\001\206\060\015\006\011\052\206\110\206 \367\015\001\001\013\005\000\003\202\002\001\000\321\111\127\340 \247\314\150\130\272\001\017\053\031\315\215\260\141\105\254\021 \355\143\120\151\370\037\177\276\026\217\375\235\353\013\252\062 $\label{eq:107} $$ 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 \010\351\222\164\215\365\107\322\253\073\326\373\170\146\116\066 \147\057\107\112\267\271\377\036\052\163\160\106\060\277\132\362 \057\171\245\341\215\014\331\371\262\143\067\214\067\145\205\160 \152\134\133\011\162\271\255\143\074\261\335\370\374\062\277\067 \206\344\273\216\230\047\176\272\037\026\341\160\021\362\003\337 \045\142\062\047\046\030\062\204\237\377\000\072\023\272\232\115 \364\117\270\024\160\042\261\312\053\220\316\051\301\160\364\057 \235\177\362\220\036\326\132\337\267\106\374\346\206\372\313\340 \040\166\172\272\246\313\365\174\336\142\245\261\213\356\336\202 \146\212\116\072\060\037\077\200\313\255\047\272\014\136\327\320 \261\126\312\167\161\262\265\165\241\120\251\100\103\027\302\050 \331\317\122\213\133\310\143\324\102\076\240\063\172\106\056\367 \012\040\106\124\176\152\117\061\361\201\176\102\164\070\145\163 \047\356\306\174\270\216\327\245\072\327\230\241\234\214\020\125 \323\333\113\354\100\220\362\315\156\127\322\142\016\174\127\223 \261\247\155\315\235\203\273\052\347\345\266\073\161\130\255\375

\321\105\274\132\221\356\123\025\157\323\105\011\165\156\272\220 \135\036\004\317\067\337\036\250\146\261\214\346\040\152\357\374 \110\116\164\230\102\257\051\157\056\152\307\373\175\321\146\061 $\label{eq:22} \end{tabular} \end{tabular}$ $\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 \143\314\331\075\064\065\134\157\123\243\342\010\160\110\037\264 **END** CKA_ISSUER MULTILINE_OCTAL \060\142\061\013\060\011\006\003\125\004\006\023\002\103\116\061 \062\060\060\006\003\125\004\012\014\051\107\125\101\116\107\040 $\label{eq:101125124110117122111124131040103117056054114} \label{eq:1040101125124110117122111124131040103117056054114}$ \124\104\056\061\037\060\035\006\003\125\004\003\014\026\107\104 \103\101\040\124\162\165\163\164\101\125\124\110\040\122\065\040 \122\117\117\124 **END**

CKA_SERIAL_NUMBER

MULTILINE_OCTAL \002\010\175\011\227\376\360\107\352\172 END CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#

Certificate "TrustCor RootCert CA-1"

#

Issuer: CN=TrustCor RootCert CA-1,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de

R.L.,L=Panama City,ST=Panama,C=PA

Serial Number:00:da:9b:ec:71:f3:03:b0:19

Subject: CN=TrustCor RootCert CA-1,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de

R.L.,L=Panama City,ST=Panama,C=PA

Not Valid Before: Thu Feb 04 12:32:16 2016

Not Valid After : Mon Dec 31 17:23:16

2029

Fingerprint (SHA-256):

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

\045\006\003\125\004\013\014\036\124\162\165\163\164\103\157\162 \040\103\145\162\164\151\146\151\143\141\164\145\040\101\165\164 \150\157\162\151\164\171\061\037\060\035\006\003\125\004\003\014

\026\124\162\165\163\164\103\157\162\040\122\157\157\164\103\145

\162\164\040\103\101\055\061

END

CKA_ID

UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

END CKA_VALUE MULTILINE_OCTAL \060\202\004\060\060\202\003\030\240\003\002\001\002\002\011\000 \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 \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 \035\006\003\125\004\003\014\026\124\162\165\163\164\103\157\162 \040\122\157\157\164\103\145\162\164\040\103\101\055\061\060\036 \027\015\061\066\060\062\060\064\061\062\063\062\061\066\132\027 \015\062\071\061\062\063\061\061\067\062\063\061\066\132\060\201 \244\061\013\060\011\006\003\125\004\006\023\002\120\101\061\017 \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 \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\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

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

\364\236\376\300\176\102\072\347\013\225\123\332\267\150\016\220 $\label{eq:114} $$ 160\077\217\112\054\224\363\046\335\143\151\251\224\330\$ \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 $\label{eq:200} \end{tabular} \end{tabular}$ \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 $\label{eq:221} 357 \\ 221 \\ 213 \\ 267 \\ 334 \\ 355 \\ 146 \\ 242 \\ 317 \\ 216 \\ 146 \\ 073 \\ 274 \\ 237 \\ 072 \\ 072 \\ 072 \\ 072 \\ 072 \\ 073 \\ 0$ $\label{eq:225} \end{tabular} \end{tabular}$ \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 \257\217\334\050\041\147\011\322\326\115\132\034\031\034\216\167 \134\303\224\044\075\062\153\113\176\324\170\224\203\276\067\115 \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
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 \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 $\label{eq:103} \\ 145 \\ 162 \\ 164 \\ 151 \\ 146 \\ 151 \\ 143 \\ 141 \\ 164 \\ 145 \\ 040 \\ 101 \\ 165 \\ 164 \\ 165 \\ 165 \\ 164 \\ 165 \\ 100 \\ 100 \\ 101 \\ 165 \\ 165 \\ 165 \\ 165 \\ 165 \\ 165 \\ 165 \\ 165 \\ 165 \\ 165 \\ 165 \\ 165 \\ 165 \\ 165 \\ 165 \\ 100 \\$ \150\157\162\151\164\171\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):

\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 \042\006\003\125\004\012\014\033\124\162\165\163\164\103\157\162

CKA_VALUE MULTILINE_OCTAL

END

\002\010\045\241\337\312\063\313\131\002

CKA SERIAL NUMBER MULTILINE OCTAL

END

\162\164\040\103\101\055\062

\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 $\label{eq:155141040103151164171061044060042006003125004012} \\$ \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 $\label{eq:2.165} \\ 006 \\ 003 \\ 125 \\ 004 \\ 013 \\ 014 \\ 036 \\ 124 \\ 162 \\ 165 \\ 163 \\ 164 \\ 103 \\ 157 \\ 162 \\ 162 \\ 163 \\ 164 \\ 103 \\ 157 \\ 162 \\ 165 \\ 163 \\ 164 \\ 103 \\ 157 \\ 162 \\ 164 \\ 103 \\ 157 \\ 162 \\ 164 \\ 103$ \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

CKA ISSUER MULTILINE OCTAL

UTF8 "0"

CKA ID

END

\060\201\244\061\013\060\011\006\003\125\004\006\023\002\120\101 $\label{eq:2.1} \end{tabular} \end{tabular}$ \155\141\040\103\151\164\171\061\044\060\042\006\003\125\004\012 $\label{eq:163} \end{tabular} \end{tabular}$ \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 162164040103101055062

CKA LABEL UTF8 "TrustCor RootCert CA-2" CKA CERTIFICATE TYPE CK CERTIFICATE TYPE CKC X 509

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA PRIVATE CK BBOOL CK FALSE

CKA SUBJECT MULTILINE OCTAL

CKA TOKEN CK BBOOL CK TRUE

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

\056\114\056\061\047\060\045\006\003\125\004\013\014\036\124\162 $\label{eq:165} \\ 163 \\ 164 \\ 103 \\ 157 \\ 162 \\ 040 \\ 103 \\ 145 \\ 162 \\ 164 \\ 151 \\ 146 \\ 151 \\ 143 \\ 141 \\ 141 \\$ \164\145\040\101\165\164\150\157\162\151\164\171\061\037\060\035 \006\003\125\004\003\014\026\124\162\165\163\164\103\157\162\040 \122\157\157\164\103\145\162\164\040\103\101\055\062\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 $\label{eq:1015} \\ 006 \\ 003 \\ 125 \\ 004 \\ 010 \\ 014 \\ 006 \\ 120 \\ 141 \\ 156 \\ 141 \\ 155 \\ 141 \\ 061 \\ 024 \\ 010 \\ 014 \\ 006 \\ 120 \\ 141 \\ 156 \\ 141 \\ 155 \\ 141 \\ 061 \\ 024 \\ 010 \\ 014 \\ 006 \\ 120 \\ 141 \\ 156 \\ 141 \\ 155 \\ 141 \\ 061 \\ 024 \\ 010 \\ 014 \\ 006 \\ 120 \\ 141 \\ 156 \\ 141 \\ 155 \\ 141 \\ 061 \\ 024 \\ 010 \\ 014 \\ 006 \\ 120 \\ 141 \\ 156 \\ 141 \\ 155 \\ 141 \\ 061 \\ 024 \\ 010 \\ 014 \\ 006 \\ 120 \\ 141 \\ 156 \\ 141 \\ 155 \\ 141 \\ 061 \\ 024 \\ 010 \\ 000$ \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 \123\056\040\144\145\040\122\056\114\056\061\047\060\045\006\003 $\label{eq:125} 004 013 014 036 124 162 165 163 164 103 157 162 040 103 145$ \151\164\171\061\037\060\035\006\003\125\004\003\014\026\124\162 $\label{eq:165} $$ 163\164\103\157\162\040\122\157\157\164\103\145\162\164\040\$ \103\101\055\062\060\202\002\042\060\015\006\011\052\206\110\206 \367\015\001\001\001\005\000\003\202\002\017\000\060\202\002\012 \002\202\002\001\000\247\040\156\302\052\242\142\044\225\220\166 \310\070\176\200\322\253\301\233\145\005\224\364\301\012\020\325 \002\254\355\237\223\307\207\310\260\047\053\102\014\075\012\076 $\label{eq:101} $$ 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 \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 \151\213\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 \377\175\315\133\341\324\254\141\173\127\325\112\173\133\324\205 \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

\252\344\147\177\156\167\077\364\004\212\057\174\173\343\027\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 $\label{eq:331} 175 134 115 160 305 245 371 253 345 243 211 335 001 372$ \354\335\371\351\222\227\333\260\106\102\363\323\142\252\225\376 $\label{eq:2.1} \end{tabular} \end{tabular}$ \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 $\label{eq:217} $$ 010\217\341\071\140\167\113\254\131\204\032\210\361\335\313\117$ \170\327\347\341\063\055\374\356\101\372\040\260\276\313\367\070 \224\300\341\320\205\017\273\355\054\163\253\355\376\222\166\032 \144\177\133\015\063\011\007\063\173\006\077\021\244\134\160\074 \205\300\317\343\220\250\203\167\372\333\346\305\214\150\147\020 \331\320\205\231\115\224\233\017\113\215\356\000\132\107\035\021 \003\254\101\030\257\207\267\157\014\072\217\312\317\334\003\301 \242\011\310\345\375\200\136\310\140\102\001\033\032\123\132\273 \067\246\267\274\272\204\351\036\154\032\324\144\332\324\103\376 \223\213\113\362\054\171\026\020\324\223\013\210\217\241\330\206 \024\106\221\107\233\050\044\357\127\122\116\134\102\234\252\367 \111\354\047\350\100\036\263\246\211\042\162\234\365\015\063\264 \130\243\060\073\335\324\152\124\223\276\032\115\363\223\224\367 \374\204\013\077\204\040\134\064\003\104\305\332\255\274\012\301 \002\317\036\345\224\331\363\216\133\330\114\360\235\354\141\027 \273\024\062\124\014\002\051\223\036\222\206\366\177\357\347\222 \005\016\131\335\231\010\056\056\372\234\000\122\323\305\146\051 \344\247\227\104\244\016\050\201\023\065\305\366\157\144\346\101 \304\325\057\314\064\105\045\317\101\000\226\075\112\056\302\226 \230\117\116\112\234\227\267\333\037\222\062\310\377\017\121\156 \326\354\011 END CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE CKA NSS_SERVER_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

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

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

\150\157\162\151\164\171\061\027\060\025\006\003\125\004\003\014

\016\124\162\165\163\164\103\157\162\040\105\103\101\055\061

END

CKA_ID

UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

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

CKA VALUE MULTILINE OCTAL \060\202\004\040\060\202\003\010\240\003\002\001\002\002\011\000 \204\202\054\137\034\142\320\100\060\015\006\011\052\206\110\206 \367\015\001\001\013\005\000\060\201\234\061\013\060\011\006\003 \125\004\006\023\002\120\101\061\017\060\015\006\003\125\004\010 \014\006\120\141\156\141\155\141\061\024\060\022\006\003\125\004 \007\014\013\120\141\156\141\155\141\040\103\151\164\171\061\044 \060\042\006\003\125\004\012\014\033\124\162\165\163\164\103\157 \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 \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 $\label{eq: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 \105\103\101\055\061\060\202\001\042\060\015\006\011\052\206\110 \206\367\015\001\001\001\005\000\003\202\001\017\000\060\202\001 \012\002\202\001\001\000\317\217\340\021\265\237\250\166\166\333 \337\017\124\357\163\143\051\202\255\107\306\243\153\355\376\137 \063\370\103\121\351\032\063\221\061\027\240\164\304\324\247\001 \346\262\222\076\152\235\355\016\371\164\230\100\323\077\003\200 \006\202\100\350\261\342\247\121\247\035\203\046\153\253\336\372 \027\221\053\330\306\254\036\261\236\031\001\325\227\246\352\015 \267\304\125\037\047\174\322\010\325\166\037\051\025\207\100\071 \335\070\105\021\165\320\232\247\064\340\277\315\310\122\035\271 \107\176\015\270\273\306\014\366\163\127\026\132\176\103\221\037 \125\072\306\155\104\004\252\234\251\234\247\114\211\027\203\256 \243\004\136\122\200\213\036\022\045\021\031\327\014\175\175\061 \104\101\352\333\257\260\034\357\201\320\054\305\232\041\233\075 \355\102\073\120\046\362\354\316\161\141\006\142\041\124\116\177 \301\235\076\177\040\214\200\313\052\330\227\142\310\203\063\221 \175\260\242\132\017\127\350\073\314\362\045\262\324\174\057\354 \115\306\241\072\025\172\347\266\135\065\365\366\110\112\066\105 \146\324\272\230\130\301\002\003\001\000\001\243\143\060\141\060 \035\006\003\125\035\016\004\026\004\024\104\236\110\365\314\155 \110\324\240\113\177\376\131\044\057\203\227\231\232\206\060\037 \006\003\125\035\043\004\030\060\026\200\024\104\236\110\365\314 $\label{eq:155110} $$ 155110324240113177376131044057203227231232206060 $$$

\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 $\label{eq:206} \end{tabular} \end{tabular}$ \202\001\001\000\005\076\065\134\025\160\233\311\307\163\141\157 \147\135\342\147\154\165\166\277\273\014\252\066\306\255\107\223 \143\334\036\176\326\336\056\376\351\031\062\070\003\177\024\366 \000\163\054\131\261\041\006\341\373\254\030\225\014\243\377\231 \226\367\053\047\233\325\044\314\035\335\301\072\340\230\104\260 \304\344\076\167\261\163\251\144\054\366\034\001\174\077\135\105 \205\300\205\347\045\217\225\334\027\363\074\237\032\156\260\312 \343\035\052\351\114\143\372\044\141\142\326\332\176\266\034\154 \365\002\035\324\052\335\125\220\353\052\021\107\074\056\136\164 \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 $\label{eq:130} \\ (130) \\ (226) \\ (151) \\ (115) \\ (334) \\ (007) \\ (214) \\ (121) \\ (223) \\ (242) \\ (337) \\ (237) \\ (017) \\ (075) \\ (213) \\ (140) \\ (14$ \264\202\215\252\010\116\142\105\340\371\013\322\340\340\074\133 $\label{eq:2.1} \end{tabular} \label{eq:2.2} \end{tabular} \label{eq:2.2} \end{tabular} \label{eq:2.2} \end{tabular} \label{eq:2.2} \end{tabular} \label{eq:2.2} \end{tabular} \end{tabular} \end{tabular} \label{eq:2.2} \end{tabular} \end{ta$ \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} \end{aligned} $$ 130\321\37\225\225\147\153\143\300\360\133\034\027\115\213\204 $$$

\013\310\170\275

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL

 $\label{eq:22} $$ 047\222\043\035\012\365\100\174\351\346\153\235\330\365\347\154\ END $$$

CKA_ISSUER MULTILINE_OCTAL

```
\060\201\234\061\013\060\011\006\003\125\004\006\023\002\120\101
\061\017\060\015\006\003\125\004\010\014\006\120\141\156\141
\155\141\061\024\060\022\006\003\125\004\007\014\013\120\141\156\141
\155\141\040\103\151\164\171\061\044\060\042\006\003\125\004\012
\014\033\124\162\165\163\164\103\157\162\040\123\171\163\164\145
\155\163\040\123\056\040\144\145\040\122\056\114\056\061\047\060
\045\006\003\125\004\013\014\036\124\162\165\163\164\103\157\162
\040\103\145\162\164\151\146\151\143\141\164\145\040\101\165\164
\150\157\162\151\164\171\061\027\060\025\006\003\125\004\003\014
\016\124\162\165\163\164\103\157\162\040\105\103\101\055\061
END
```

CKA_SERIAL_NUMBER

MULTILINE_OCTAL

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

END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#

Certificate "SSL.com Root Certification Authority RSA"

#

Issuer: CN=SSL.com Root Certification Authority RSA,O=SSL Corporation,L=Houston,ST=Texas,C=US

Serial Number:7b:2c:9b:d3:16:80:32:99

 $\label{eq:subject: CN=SSL.com} \ \text{Root Certification Authority RSA,O=SSL Corporation,L=Houston,ST=Texas,C=US} \\$

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

CKA VALUE MULTILINE OCTAL \060\202\005\335\060\202\003\305\240\003\002\001\002\002\010\173 \054\233\323\026\200\062\231\060\015\006\011\052\206\110\206\367 \015\001\001\013\005\000\060\174\061\013\060\011\006\003\125\004 \006\023\002\125\123\061\016\060\014\006\003\125\004\010\014\005 \124\145\170\141\163\061\020\060\016\006\003\125\004\007\014\007 \110\157\165\163\164\157\156\061\030\060\026\006\003\125\004\012 \156\061\060\057\006\003\125\004\003\014\050\123\123\114\056 $\label{eq:143} \\ 143 \\ 141 \\ 164 \\ 151 \\ 157 \\ 156 \\ 040 \\ 101 \\ 165 \\ 164 \\ 150 \\ 157 \\ 162 \\ 151 \\ 164 \\ 171 \\ 164 \\ 164 \\ 164 \\ 171 \\ 164 \\$ \040\122\123\101\060\036\027\015\061\066\060\062\061\062\061\067 \063\071\063\071\132\027\015\064\061\060\062\061\062\061\067\063 \071\063\071\132\060\174\061\013\060\011\006\003\125\004\006\023 \002\125\123\061\016\060\014\006\003\125\004\010\014\005\124\145 \170\141\163\061\020\060\016\006\003\125\004\007\014\007\110\157 \165\163\164\157\156\061\030\060\026\006\003\125\004\012\014\017 \123\123\114\040\103\157\162\160\157\162\141\164\151\157\156\061 \061\060\057\006\003\125\004\003\014\050\123\123\114\056\143\157 $\label{eq:164} $$ 164\151\157\156\040\101\165\164\150\157\162\151\164\171\040\122 $$$ \123\101\060\202\002\042\060\015\006\011\052\206\110\206\367\015 \001\001\001\005\000\003\202\002\017\000\060\202\002\012\002\202 \002\001\000\371\017\335\243\053\175\313\320\052\376\354\147\205 \246\347\056\033\272\167\341\343\365\257\244\354\372\112\135\221 \304\127\107\153\030\167\153\166\362\375\223\344\075\017\302\026 \236\013\146\303\126\224\236\027\203\205\316\126\357\362\026\375 \000\142\365\042\011\124\350\145\027\116\101\271\340\117\106\227 \252\033\310\270\156\142\136\151\261\137\333\052\002\176\374\154 \312\363\101\330\355\320\350\374\077\141\110\355\260\003\024\035

END

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

MULTILINE OCTAL

CKA_SERIAL_NUMBER

END

CKA_ID UTF8 "0" CKA_ISSUER MULTILINE_OCTAL \060\174\061\013\060\011\006\003\125\004\006\023\002\125\123\061 \016\060\014\006\003\125\004\010\014\005\124\145\170\141\163\061 \020\060\016\006\003\125\004\007\014\007\110\157\165\163\164\157 \156\061\030\060\026\006\003\125\004\012\014\017\123\123\114\040 \103\157\162\160\157\162\141\164\151\157\156\061\061\060\057\006 \003\125\004\003\014\050\123\123\114\056\143\157\155\040\122\157 \157\164\040\103\145\162\164\151\146\151\143\141\164\151\157\156 \040\101\165\164\150\157\162\151\164\171\040\122\123\101

END

 $\label{eq:157} $$ 157\164\040\103\145\162\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171\040\122\123\101 $$$

\017\373\310\145\002\244\122\001\107\335\111\042\301\277\330\353 \153\254\176\336\354\143\063\025\267\043\010\217\306\017\215\101 $\label{eq:132} $$ 132\35\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 $\label{eq:23} \end{tabular} \end{tabular}$ \066\060\376\347\167\262\240\165\227\265\055\201\210\027\145\040 \367\332\220\000\237\311\122\314\062\312\065\174\365\075\017\330 \053\327\365\046\154\311\006\064\226\026\352\160\131\032\062\171 \171\013\266\210\177\017\122\110\075\277\154\330\242\104\056\321 \116\267\162\130\323\211\023\225\376\104\253\370\327\213\033\156 \234\274\054\240\133\325\152\000\257\137\067\341\325\372\020\013 \230\234\206\347\046\217\316\360\354\156\212\127\013\200\343\116 \262\300\240\143\141\220\272\125\150\067\164\152\266\222\333\237 $\label{eq:241} 206 042 266 145 047 016 354 266 237 102 140 344 147 302 265$ \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

Subject: CN=SSL.com Root Certification Authority RSA,O=SSL Corporation,L=Houston,ST=Texas,C=US

Not Valid Before: Fri Feb 12 17:39:39 2016

Not Valid After : Tue Feb 12 17:39:39 2041

Fingerprint (SHA-256):

85:66:6A:56:2E:E0:BE:5C:E9:25:C1:D8:89:0A:6F:76:A8:7E:C1:6D:4D:7D:5F:29:EA:74:19:CF:20:12:3B:69 # Fingerprint (SHA1): B7:AB:33:08:D1:EA:44:77:BA:14:80:12:5A:6F:BD:A9:36:49:0C:BB

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "SSL.com Root Certification Authority RSA"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL

 $\label{eq: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

 $\label{eq:1016} \end{tabular} 1016 \end{tabular} 1016 \end{tabular} 1016 \end{tabular} 1006 \end{tabular} 1010 \end{tabular} 10100 \end{tabular} 100$

\020\060\016\006\003\125\004\007\014\007\110\157\165\163\164\157 \156\061\030\060\026\006\003\125\004\012\014\017\123\123\114\040 \103\157\162\160\157\162\141\164\151\157\156\061\061\060\057\006 \003\125\004\003\014\050\123\123\114\056\143\157\155\040\122\157 \157\164\040\103\145\162\164\151\146\151\143\141\164\151\157\156 \040\101\165\164\150\157\162\151\164\171\040\122\123\101 END CKA_SERIAL_NUMBER MULTILINE_OCTAL \002\010\173\054\233\323\026\200\062\231 END CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#

Certificate "SSL.com Root Certification Authority ECC"

#

Issuer: CN=SSL.com Root Certification Authority ECC,O=SSL Corporation,L=Houston,ST=Texas,C=US

Serial Number:75:e6:df:cb:c1:68:5b:a8

Subject: CN=SSL.com Root Certification Authority ECC,O=SSL Corporation,L=Houston,ST=Texas,C=US

Not Valid Before: Fri Feb 12 18:14:03 2016

Not Valid After : Tue Feb 12 18:14:03 2041

Fingerprint (SHA-256):

34:17:BB:06:CC:60:07:DA:1B:96:1C:92:0B:8A:B4:CE:3F:AD:82:0E:4A:A3:0B:9A:CB:C4:A7:4E:BD:CE:BC:65 # Fingerprint (SHA1): C3:19:7C:39:24:E6:54:AF:1B:C4:AB:20:95:7A:E2:C3:0E:13:02:6A

CKA_CLASS

CK_OBJECT_CLASS CKO_CERTIFICATE

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "SSL.com Root Certification Authority ECC"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL

\060\174\061\013\060\011\006\003\125\004\006\023\002\125\123\061 \016\060\014\006\003\125\004\010\014\005\124\145\170\141\163\061 \020\060\016\006\003\125\004\007\014\007\110\157\165\163\164\157 \156\061\030\060\026\006\003\125\004\012\014\017\123\123\114\040 \103\157\162\160\157\162\141\164\151\157\156\061\061\060\057\006 \003\125\004\003\014\050\123\123\114\056\143\157\155\040\122\157 \157\164\040\103\145\162\164\151\146\151\143\141\164\151\157\156 \040\101\165\164\150\157\162\151\164\171\040\105\103\103 END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

\060\174\061\013\060\011\006\003\125\004\006\023\002\125\123\061

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 \151\157\156\040\101\165\164\150\157\162\151\164\171\040\105\103 \103\060\036\027\015\061\066\060\062\061\062\061\070\061\064\060 \063\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 \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 \064\007\334\273\306\006\177\302\105\225\354\313\177\250\043\340 \011\351\201\372\363\107\323\243\143\060\141\060\035\006\003\125 \035\016\004\026\004\024\202\321\205\163\060\347\065\004\323\216 \002\222\373\345\244\321\304\041\350\315\060\017\006\003\125\035 \023\001\001\377\004\005\060\003\001\001\377\060\037\006\003\125 \035\043\004\030\060\026\200\024\202\321\205\163\060\347\065\004 \323\216\002\222\373\345\244\321\304\041\350\315\060\016\006\003 \125\035\017\001\001\377\004\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

END

\002\010\165\346\337\313\301\150\133\250

MULTILINE_OCTAL

CKA_SERIAL_NUMBER

END

\221\334\355\345\374\120\153\021\106\106\263\034\041\000\142\273 \276\303\347\350\315\007\231\371\015\013\135\162\076\304\252\002 \060\037\274\272\013\342\060\044\373\174\155\200\125\012\231\076 \200\015\063\345\146\243\263\243\273\245\325\213\217\011\054\246 \135\176\342\360\007\010\150\155\322\174\151\156\137\337\345\152 \145 END CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "SSL.com Root Certification Authority ECC"

Issuer: CN=SSL.com Root Certification Authority ECC,O=SSL Corporation,L=Houston,ST=Texas,C=US

Serial Number:75:e6:df:cb:c1:68:5b:a8

Subject: CN=SSL.com Root Certification Authority ECC,O=SSL Corporation,L=Houston,ST=Texas,C=US

Not Valid Before: Fri Feb 12 18:14:03 2016

Not Valid After : Tue Feb 12 18:14:03 2041

Fingerprint (SHA-256):

34:17:BB:06:CC:60:07:DA:1B:96:1C:92:0B:8A:B4:CE:3F:AD:82:0E:4A:A3:0B:9A:CB:C4:A7:4E:BD:CE:BC:65 # Fingerprint (SHA1): C3:19:7C:39:24:E6:54:AF:1B:C4:AB:20:95:7A:E2:C3:0E:13:02:6A

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL

UTF8 "SSL.com Root Certification Authority ECC"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL

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

016023002152

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):
- # 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
- $\label{eq:201} $$ 060\201\202\061\013\060\011\006\003\125\004\006\023\002\125\123 $$$
- $\label{eq:1016} \end{tabular} \end{tabular$
- \061\020\060\016\006\003\125\004\007\014\007\110\157\165\163\164
- \157\156\061\030\060\026\006\003\125\004\012\014\017\123\123\114
- \040\103\157\162\160\157\162\141\164\151\157\156\061\067\060\065 \006\003\125\004\003\014\056\123\123\114\056\143\157\155\040\105
- \126\040\122\157\157\164\040\103\145\162\164\151\146\151\143\141
- \164\151\157\156\040\101\165\164\150\157\162\151\164\171\040\122
- \123\101\040\122\062
- END
- CKA ID
- UTF8 "0"
- CKA_ISSUER MULTILINE_OCTAL

END

```
CKA_SERIAL_NUMBER
```

MULTILINE_OCTAL

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

CKA VALUE MULTILINE OCTAL \060\202\005\353\060\202\003\323\240\003\002\001\002\002\010\126 $\label{eq:266} \end{tabular} \end{tabular}$ \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 $\label{eq:2.1} \end{tabular} \end{tabular}$ \007\110\157\165\163\164\157\156\061\030\060\026\006\003\125\004 $\label{eq:1012} \\ 012 \\ 014 \\ 017 \\ 123 \\ 123 \\ 114 \\ 040 \\ 103 \\ 157 \\ 162 \\ 160 \\ 157 \\ 162 \\ 141 \\ 164 \\ 151 \\ 154 \\ 164 \\ 151 \\ 164 \\ 164 \\ 164 \\ 151 \\ 164$ \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 $\label{eq:164} \\ 151 \\ 146 \\ 151 \\ 143 \\ 141 \\ 164 \\ 151 \\ 157 \\ 156 \\ 040 \\ 101 \\ 165 \\ 164 \\ 150 \\ 157 \\ 157 \\ 156 \\ 040 \\ 101 \\ 165 \\ 164 \\ 150 \\ 157 \\ 157 \\ 156 \\ 040 \\ 101 \\ 165 \\ 164 \\ 150 \\ 157 \\ 157 \\ 156 \\ 164 \\ 151 \\ 157 \\ 156 \\ 164 \\ 151 \\ 157 \\ 156 \\ 164 \\ 151 \\ 157 \\ 156 \\ 164 \\ 151 \\ 157 \\ 156 \\ 164 \\ 151 \\ 157 \\ 156 \\ 164 \\ 151 \\ 157 \\ 156 \\ 164 \\ 151 \\ 157 \\ 156 \\ 164 \\ 151 \\ 157 \\ 156 \\ 164 \\ 151 \\ 157 \\ 156 \\ 164 \\ 151 \\ 157 \\ 156 \\ 164 \\ 151 \\ 157 \\ 156 \\ 164 \\ 151 \\ 157 \\ 156 \\ 164 \\ 151 \\ 157 \\ 157 \\ 156 \\ 164 \\ 151 \\ 157 \\ 157 \\ 156 \\ 164 \\ 151 \\ 157 \\ 157 \\ 156 \\ 164 \\ 151 \\ 157 \\ 157 \\ 156 \\ 164 \\ 151 \\ 157 \\ 157 \\ 156 \\ 164 \\ 151 \\ 157 \\ 157 \\ 156 \\ 164 \\ 151 \\ 157 \\ 157 \\ 156 \\ 164 \\ 151 \\ 157 \\ 157 \\ 156 \\ 164 \\ 157 \\ 157 \\ 157 \\ 156 \\ 164 \\ 157 \\ 157 \\ 157 \\ 156 \\ 157 \\$ \162\151\164\171\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 $\label{eq:2.1} \end{tabular} $$ \003\125\004\007\014\007\110\157\165\163\164\157\156\061\030\060 $$ $$ \026\006\003\125\004\012\014\017\123\123\114\040\103\157\162\160 \157\162\141\164\151\157\156\061\067\060\065\006\003\125\004\003 \164\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040 \101\165\164\150\157\162\151\164\171\040\122\123\101\040\122\062 \060\202\002\042\060\015\006\011\052\206\110\206\367\015\001\001 \001\005\000\003\202\002\017\000\060\202\002\012\002\202\002\001 $\label{eq:217} $$ 000\217\066\145\100\341\326\115\300\327\264\351\106\332\153\352 $$$ \063\107\315\114\371\175\175\276\275\055\075\360\333\170\341\206 \245\331\272\011\127\150\355\127\076\240\320\010\101\203\347\050 \101\044\037\343\162\025\320\001\032\373\136\160\043\262\313\237 \071\343\317\305\116\306\222\155\046\306\173\273\263\332\047\235 \012\206\351\201\067\005\376\360\161\161\354\303\034\351\143\242 \027\024\235\357\033\147\323\205\125\002\002\326\111\311\314\132 \341\261\367\157\062\237\311\324\073\210\101\250\234\275\313\253 \333\155\173\011\037\242\114\162\220\332\053\010\374\317\074\124 \316\147\017\250\317\135\226\031\013\304\343\162\353\255\321\175 \035\047\357\222\353\020\277\133\353\073\257\317\200\335\301\322 \352\167\317\135\000\131\217\146\054\076\007\242\243\005\046\021 \151\227\352\205\267\017\226\013\113\310\100\341\120\272\056\212 \313\367\017\232\042\347\177\232\067\023\315\362\115\023\153\041 \321\300\314\042\362\241\106\366\104\151\234\312\141\065\007\000 \157\326\141\010\021\352\272\270\366\351\263\140\345\115\271\354 \237\024\146\311\127\130\333\315\207\151\370\212\206\022\003\107 \277\146\023\166\254\167\175\064\044\205\203\315\327\252\234\220 \032\237\041\054\177\170\267\144\270\330\350\246\364\170\263\125 \313\204\322\062\304\170\256\243\217\141\335\316\010\123\255\354

\210\374\025\344\232\015\346\237\032\167\316\114\217\270\024\025 \075\142\234\206\070\006\000\146\022\344\131\166\132\123\300\002 \230\242\020\053\150\104\173\216\171\316\063\112\166\252\133\201 \026\033\265\212\330\320\000\173\136\142\264\011\326\206\143\016 \246\005\225\111\272\050\213\210\223\262\064\034\330\244\125\156 \267\034\320\336\231\125\073\043\364\042\340\371\051\146\046\354 \040\120\167\333\112\013\217\276\345\002\140\160\101\136\324\256 \120\071\042\024\046\313\262\073\163\164\125\107\007\171\201\071 \250\060\023\104\345\004\212\256\226\023\045\102\017\271\123\304 \233\374\315\344\034\336\074\372\253\326\006\112\037\147\246\230 \060\034\335\054\333\334\030\225\127\146\306\377\134\213\126\365 \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 $\label{eq:202} \end{tabular} \end{tabular}$ \357\332\206\237\231\327\353\267\257\150\342\071\046\224\272\150 \267\277\203\323\352\172\147\075\142\147\256\045\345\162\350\342 \344\354\256\022\366\113\053\074\237\351\260\100\363\070\124\263 \375\267\150\310\332\306\217\121\074\262\373\221\334\034\347\233 \235\341\267\015\162\217\342\244\304\251\170\371\353\024\254\306 \103\005\302\145\071\050\030\002\303\202\262\235\005\276\145\355 \226\137\145\164\074\373\011\065\056\173\234\023\375\033\017\135 \307\155\201\072\126\017\314\073\341\257\002\057\042\254\106\312 \106\074\240\034\114\326\104\264\136\056\134\025\146\011\341\046 $\label{eq:2.141} $$ 051\376\306\122\141\272\261\163\377\303\014\234\345\154\152\224 $$$ \077\024\312\100\026\225\204\363\131\251\254\137\114\141\223\155 \321\073\314\242\225\014\042\246\147\147\104\056\271\331\322\212 \101\263\146\013\132\373\175\043\245\362\032\260\377\336\233\203 \224\056\321\077\337\222\267\221\257\005\073\145\307\240\154\261 \315\142\022\303\220\033\343\045\316\064\274\157\167\166\261\020 \303\367\005\032\300\326\257\164\142\110\027\167\222\151\220\141 \034\336\225\200\164\124\217\030\034\303\363\003\320\277\244\103 \165\206\123\030\172\012\056\011\034\066\237\221\375\202\212\042 \113\321\016\120\045\335\313\003\014\027\311\203\000\010\116\065 \115\212\213\355\360\002\224\146\054\104\177\313\225\047\226\027

\255\011\060\254\266\161\027\156\213\027\366\034\011\324\055\073 \230\245\161\323\124\023\331\140\363\365\113\146\117\372\361\356 \040\022\215\264\254\127\261\105\143\241\254\166\251\302\373 END CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE CKA NSS SERVER 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 \164\072\360\122\233\320\062\240\364\112\203\315\324\272\251\173 \174\056\304\232 **END** CKA CERT MD5 HASH MULTILINE OCTAL \341\036\061\130\032\256\124\123\002\366\027\152\021\173\115\225 **END** CKA ISSUER MULTILINE OCTAL \060\201\202\061\013\060\011\006\003\125\004\006\023\002\125\123 \061\016\060\014\006\003\125\004\010\014\005\124\145\170\141\163 \061\020\060\016\006\003\125\004\007\014\007\110\157\165\163\164 \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 \164\151\157\156\040\101\165\164\150\157\162\151\164\171\040\122 \123\101\040\122\062 **END** CKA_SERIAL_NUMBER MULTILINE_OCTAL \002\010\126\266\051\315\064\274\170\366 **END** CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR

CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#

Certificate "SSL.com EV Root Certification Authority ECC"

#

 $\label{eq:second} \mbox{{\tt\# Issuer: CN=SSL.com EV Root Certification Authority ECC, O=SSL Corporation, L=Houston, ST=Texas, C=US} \label{eq:second}$

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):

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

END

CKA ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

END

CKA_SERIAL_NUMBER

MULTILINE_OCTAL

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

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 $\label{eq:1040} \\ 105 \\ 126 \\ 040 \\ 122 \\ 157 \\ 157 \\ 164 \\ 040 \\ 103 \\ 145 \\ 162 \\ 164 \\ 151 \\ 146 \\ 151 \\ 150 \\ 150 \\ 160 \\ 160 \\ 160 \\ 160 \\ 160 \\ 160 \\ 160 \\ 160 \\ 160 \\ 160 \\ 160 \\ 160 \\ 160 \\ 160 \\ 160 \\ 160 \\ 150 \\ 160 \\ 160 \\ 160 \\ 100 \\ 160$ $\label{eq:143} \\ 141 \\ 164 \\ 151 \\ 157 \\ 156 \\ 040 \\ 101 \\ 165 \\ 164 \\ 150 \\ 157 \\ 162 \\ 151 \\ 164 \\ 171 \\ 164 \\$ \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 $\label{eq:123} 123 123 14 040 103 157 162 160 157 162 141 164 151 157 156 061$ \064\060\062\006\003\125\004\003\014\053\123\123\114\056\143\157 $\label{eq:155}040\105\126\040\122\157\157\164\040\103\145\162\164\151\146$ $\label{eq:151} $$ 151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164$ \171\040\105\103\103\060\166\060\020\006\007\052\206\110\316\075 \002\001\006\005\053\201\004\000\042\003\142\000\004\252\022\107 \220\230\033\373\357\303\100\007\203\040\116\361\060\202\242\006 \321\362\222\206\141\362\366\041\150\312\000\304\307\352\103\000 \124\206\334\375\037\337\000\270\101\142\134\334\160\026\062\336 $\label{eq:231} 324 314 305 007 310 010 037 141 026 007 121 075 175 134$ \007\123\343\065\070\214\337\315\237\331\056\015\112\266\031\056 \132\160\132\006\355\276\360\241\260\312\320\011\051\243\143\060 \141\060\035\006\003\125\035\016\004\026\004\024\133\312\136\345 \336\322\201\252\315\250\055\144\121\266\331\162\233\227\346\117 \060\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001 \377\060\037\006\003\125\035\043\004\030\060\026\200\024\133\312 \136\345\336\322\201\252\315\250\055\144\121\266\331\162\233\227 \346\117\060\016\006\003\125\035\017\001\001\377\004\004\003\002 \001\206\060\012\006\010\052\206\110\316\075\004\003\002\003\150 \000\060\145\002\061\000\212\346\100\211\067\353\351\325\023\331 \312\324\153\044\363\260\075\207\106\130\032\354\261\337\157\373 \126\272\160\153\307\070\314\350\261\214\117\017\367\361\147\166 \016\203\320\036\121\217\002\060\075\366\043\050\046\114\306\140 \207\223\046\233\262\065\036\272\326\367\074\321\034\316\372\045 \074\246\032\201\025\133\363\022\017\154\356\145\212\311\207\250 $371\007\340\142\232\214\134\112$ **END** CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE CKA NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE

END

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):

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} $$ 121243321365040062024260306305062043003221 $$$

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

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

\103

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

 $\label{eq:2.1} $$ 002\010\054\051\234\133\026\355\005\225 $$$

END

CKA_TRUST_SERVER_AUTH

CK_TRUST CKT_NSS_TRUSTED_DELEGATOR

CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#

Certificate "GlobalSign Root CA - R6"

#

Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R6

Serial Number:45:e6:bb:03:83:33:c3:85:65:48:e6:ff:45:51

Subject: CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R6

Not Valid Before: Wed Dec 10 00:00:00 2014

Not Valid After : Sun Dec 10 00:00:00 2034

Fingerprint (SHA-256):

2C:AB:EA:FE:37:D0:6C:A2:2A:BA:73:91:C0:03:3D:25:98:29:52:C4:53:64:73:49:76:3A:3A:B5:AD:6C:CF:69

Fingerprint (SHA1): 80:94:64:0E:B5:A7:A1:CA:11:9C:1F:DD:D5:9F:81:02:63:A7:FB:D1

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "GlobalSign Root CA - R6"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL

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

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

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

\004\003\023\012\107\154\157\142\141\154\123\151\147\156

END

CKA_ID

UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

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

CKA_VALUE MULTILINE_OCTAL

\052\206\110\206\367\015\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 \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} $$ 146\262\167\141\176\340\352\214\074\252\264\244\366\363\225\112 $$$ $\label{eq:240} $$ 022\07\155\375\214\262\211\317\320\240\141\167\310\130\164\260 $$$ \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 $\label{eq:111} 167 060 274 161 067 345 246 354 041 010 165 374 346 141 026$ \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 $\label{eq:131} 14\166\071\133\352\371\245\241\330\203\017\321\377\337\060$ \021\371\205\317\063\110\365\312\155\144\024\054\172\130\117\323 \113\010\111\305\225\144\032\143\016\171\075\365\263\214\312\130 $\label{eq: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 \236\300\004\240\221\151\346\134\320\204\336\334\255\242\117\350 \026\163\346\137\300\124\230\325\164\276\301\315\342\021\221\255 \043\030\075\335\341\162\104\226\264\225\136\300\173\216\231\170 \026\103\023\126\127\263\242\263\073\265\167\334\100\162\254\243 \353\233\065\076\261\010\041\241\347\304\103\067\171\062\276\265

\347\234\054\114\274\103\051\231\216\060\323\254\041\340\343\035 \372\330\007\063\166\124\000\042\052\271\115\040\056\160\150\332 \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} $$ 173\024\140\172\144\252\151\103\357\221\307\114\354\030\335\154\$ $\label{eq:2.1} $$ \frac{357}{123}055 \frac{214}{231}\frac{341}{136}\frac{362}{162}076 \frac{317}{124}\frac{310}{275}\frac{147}{354}$ \244\017\114\105\377\323\271\060\043\007\114\217\020\277\206\226 \331\231\132\264\231\127\034\244\314\273\025\211\123\272\054\005 \017\344\304\236\031\261\030\064\325\114\235\272\355\367\037\257 \044\225\004\170\250\003\273\356\201\345\332\137\174\213\112\241 \220\164\045\247\263\076\113\310\054\126\275\307\310\357\070\342 \134\222\360\171\367\234\204\272\164\055\141\001\040\176\176\321 \362\117\007\131\137\213\055\103\122\353\106\014\224\341\365\146 $\label{eq:107} $$ 107\171\167\325\124\133\037\255\044\067\313\105\132\116\240\104\$ \110\310\330\260\231\305\025\204\011\366\326\111\111\300\145\270 \346\032\161\156\240\250\361\202\350\105\076\154\326\002\327\012 \147\203\005\132\311\244\020

END

CKA_NSS_MOZILLA_CA_POLICY

CK_BBOOL CK_TRUE

CKA_NSS_SERVER_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

\200\224\144\016\265\247\241\312\021\234\037\335\325\237\201\002 \143\247\373\321 END CKA_CERT_MD5_HASH MULTILINE_OCTAL END CKA ISSUER MULTILINE OCTAL \060\114\061\040\060\036\006\003\125\004\013\023\027\107\154\157 \055\040\122\066\061\023\060\021\006\003\125\004\012\023\012\107 $\label{eq:154} $$ 154\123\151\147\156\061\023\060\021\006\003\125\$ 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" #

 $\label{eq:second} \ensuremath{\texttt{\#}}\xspace{1.5mm} Issuer: CN=OISTE \ensuremath{\texttt{WISeKey}}\xspace{1.5mm} Global \ensuremath{\mathsf{Root}}\xspace{1.5mm} GC \ensuremath{\texttt{CA}}\xspace{0.5mm} OU=OISTE \ensuremath{\texttt{Foundation}}\xspace{1.5mm} Global \ensuremath{\texttt{Root}}\xspace{1.5mm} GC \ensuremath{\texttt{CA}}\xspace{0.5mm} OU=OISTE \ensuremath{\texttt{Foundation}}\xspace{1.5mm} OU=OISTE \ensuremath{\texttt{Foundation$

Serial Number:21:2a:56:0c:ae:da:0c:ab:40:45:bf:2b:a2:2d:3a:ea

Subject: CN=OISTE WISeKey Global Root GC CA,OU=OISTE Foundation Endorsed,O=WISeKey,C=CH

Not Valid Before: Tue May 09 09:48:34 2017

Not Valid After : Fri May 09 09:58:33 2042

Fingerprint (SHA-256):

85:60:F9:1C:36:24:DA:BA:95:70:B5:FE:A0:DB:E3:6F:F1:1A:83:23:BE:94:86:85:4F:B3:F3:4A:55:71:19:8D # Fingerprint (SHA1): E0:11:84:5E:34:DE:BE:88:81:B9:9C:F6:16:26:D1:96:1F:C3:B9:31

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL

CK_FALSE

CKA_LABEL UTF8 "OISTE WISeKey Global Root GC CA"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL

\060\155\061\013\060\011\006\003\125\004\006\023\002\103\110\061

\020\060\016\006\003\125\004\012\023\007\127\111\123\145\113\145 \171\061\042\060\040\006\003\125\004\013\023\031\117\111\123\124

\105\040\106\157\165\156\144\141\164\151\157\156\040\105\156\144

\157\162\163\145\144\061\050\066\046\006\003\125\004\003\023\037

\117\111\123\124\105\040\127\111\123\145\113\145\171\040\107\154

\157\142\141\154\040\122\157\157\164\040\107\103\040\103\101

\060\202\002\151\060\202\001\357\240\003\002\001\002\002\020\041 \052\126\014\256\332\014\253\100\105\277\053\242\055\072\352\060 \012\006\010\052\206\110\316\075\004\003\003\060\155\061\013\060 \011\006\003\125\004\006\023\002\103\110\061\020\060\016\006\003 \125\004\012\023\007\127\111\123\145\113\145\171\061\042\060\040 \061\050\060\046\006\003\125\004\003\023\037\117\111\123\124\105 $\label{eq:2.111} $$ 040\127\111\123\145\113\145\171\040\107\154\157\142\141\154\040$ \122\157\157\164\040\107\103\040\103\101\060\036\027\015\061\067 \060\065\060\071\060\071\064\070\063\064\132\027\015\064\062\060 \065\060\071\060\071\065\070\063\063\132\060\155\061\013\060\011 \006\003\125\004\006\023\002\103\110\061\020\060\016\006\003\125 $\label{eq:2.1} \end{tabular} \end{tabular}$ \003\125\004\013\023\031\117\111\123\124\105\040\106\157\165\156 \144\141\164\151\157\156\040\105\156\144\157\162\163\145\144\061 \050\060\046\006\003\125\004\003\023\037\117\111\123\124\105\040 $\label{eq:127} $$ 127 111 123 145 113 145 171 040 107 154 157 142 141 154 040 122 $$$ \157\157\164\040\107\103\040\103\101\060\166\060\020\006\007\052 \206\110\316\075\002\001\006\005\053\201\004\000\042\003\142\000 \004\114\351\120\300\306\017\162\030\274\330\361\272\263\211\342 \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

END

\072\352

MULTILINE_OCTAL \002\020\041\052\126\014\256\332\014\253\100\105\277\053\242\055

CKA_SERIAL_NUMBER

CKA_VALUE MULTILINE_OCTAL

END

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

END

CKA ID UTF8 "0"

\025\001\004\003\002\001\000\060\012\006\010\052\206\110\316\075 \004\003\003\003\150\000\060\145\002\060\046\307\151\133\334\325 \347\262\347\310\014\214\214\303\335\171\214\033\143\325\311\122 \224\116\115\202\112\163\036\262\200\204\251\045\300\114\132\155 \111\051\140\170\023\342\176\110\353\144\002\061\000\333\064\040 \062\010\377\232\111\002\266\210\336\024\257\135\154\231\161\215 \032\077\213\327\340\242\066\206\034\007\202\072\166\123\375\302 \242\355\357\173\260\200\117\130\017\113\123\071\275 END CKA_NSS_MOZILLA_CA_POLICY

CK_BBOOL CK_TRUE

CKA_NSS_SERVER_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

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

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

CKA_SERIAL_NUMBER

MULTILINE_OCTAL

\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

\040\107\154\157\142\141\154\040\107\062\040\122\157\164

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

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

\017\006\003\125\004\012\014\010\125\156\151\124\162\165\163\164 \061\033\060\031\006\003\125\004\003\014\022\125\103\101\040\107 \154\157\142\141\154\040\107\062\040\122\157\157\164\060\036\027 \015\061\066\060\063\061\061\060\060\060\060\060\060\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 $\label{eq:157} $$ 157\142\141\154\040\107\062\040\122\157\157\164\060\202\002\042\$ \060\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003 \202\002\017\000\060\202\002\012\002\202\002\001\000\305\346\053 \251\062\302\042\207\141\101\221\073\313\303\150\033\006\305\114 \222\153\240\243\015\242\176\312\223\263\246\321\214\065\325\165 \371\027\366\317\105\305\345\172\354\167\223\240\217\043\256\016 \032\003\177\276\324\320\355\056\173\253\106\043\133\377\054\346 \124\172\224\300\052\025\360\311\215\260\172\073\044\341\327\150 \342\061\074\006\063\106\266\124\021\246\245\057\042\124\052\130 \015\001\002\361\372\025\121\147\154\300\372\327\266\033\177\321 \126\210\057\032\072\215\073\273\202\021\340\107\000\320\122\207 \253\373\206\176\017\044\153\100\235\064\147\274\215\307\055\206 $\label{eq:157} $$ 157\171\076\216\251\074\027\113\177\260\231\343\260\161\140\334\$ \013\365\144\303\316\103\274\155\161\271\322\336\047\133\212\350 \330\306\256\341\131\175\317\050\055\065\270\225\126\032\361\262 \130\113\267\022\067\310\174\263\355\113\200\341\215\372\062\043 \266\157\267\110\225\010\261\104\116\205\214\072\002\124\040\057 \337\277\127\117\073\072\220\041\327\301\046\065\124\040\354\307 \077\107\354\357\132\277\113\172\301\255\073\027\120\134\142\330 \017\113\112\334\053\372\156\274\163\222\315\354\307\120\350\101 $\label{eq:226} $$ 226 327 251 176 155 330 351 035 217 212 265 271 130 222 272 112 $$$ \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\004\003\002\001\006\060\017\006\003\125\035\023\001\001\377 \004\005\060\003\001\001\377\060\035\006\003\125\035\016\004\026 \004\024\201\304\214\314\365\344\060\377\245\014\010\137\214\025 \147\041\164\001\337\337\060\015\006\011\052\206\110\206\367\015

\001\001\013\005\000\003\202\002\001\000\023\145\042\365\216\053 \255\104\344\313\377\271\150\346\303\200\110\075\004\173\372\043 \057\172\355\066\332\262\316\155\366\346\236\345\137\130\217\313 \067\062\241\310\145\266\256\070\075\065\033\076\274\073\266\004 \320\274\371\111\365\233\367\205\305\066\266\313\274\370\310\071 $\label{eq:22} \end{tabular} \\ \end{tabular} \end{tabular$ \166\237\201\270\204\105\111\114\215\157\242\353\261\314\321\303 \224\332\104\302\346\342\352\030\350\242\037\047\005\272\327\345 \326\251\315\335\357\166\230\215\000\016\315\033\372\003\267\216 \200\130\016\047\077\122\373\224\242\312\136\145\311\326\204\332 \271\065\161\363\046\300\117\167\346\201\047\322\167\073\232\024 $\label{eq:157} $$ 157\1364\366\320\341\323\224\272\320\127\121\275\047\005\015\$ \301\375\310\022\060\356\157\215\021\053\010\235\324\324\277\200 $\label{eq:22} $$ 105\024\232\210\104\332\060\352\264\247\343\356\357\133\202\325\$ \076\326\255\170\222\333\134\074\363\330\255\372\270\153\177\304 \066\050\266\002\025\212\124\054\234\260\027\163\216\320\067\243 $\label{eq:23} \end{tabular} \end{tabular}$ \313\317\047\145\216\065\027\267\127\310\060\331\101\133\271\024 \266\350\302\017\224\061\247\224\230\314\152\353\265\341\047\365 \020\250\001\350\216\022\142\350\210\314\265\177\106\227\300\233 \020\146\070\032\066\106\137\042\150\075\337\311\306\023\047\253 \123\006\254\242\074\206\006\145\157\261\176\261\051\104\232\243 $\label{eq:272} $$ $$ 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 $\label{eq:133} 177 200 304 114 14 261 246 204 212 303 073 270 011 315 024$ \201\272\030\343\124\127\066\376\333\057\174\107\241\072\063\310 \371\130\073\104\117\261\312\002\211\004\226\050\150\305\113\270 \046\211\273\326\063\057\120\325\376\232\211\272\030\062\222\124 \306\133\340\235\371\136\345\015\042\233\366\332\342\310\041\262 \142\041\252\206\100\262\056\144\323\137\310\343\176\021\147\105 \037\005\376\343\242\357\263\250\263\363\175\217\370\014\037\042 \037\055\160\264\270\001\064\166\060\000\345\043\170\247\126\327 \120\037\212\373\006\365\302\031\360\320 END

CKA_NSS_MOZILLA_CA_POLICY

CK_BBOOL CK_TRUE

CKA_NSS_SERVER_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 \040\107\154\157\142\141\154\040\107\062\040\122\157\157\164 **END** CKA_SERIAL_NUMBER MULTILINE_OCTAL \002\020\135\337\261\332\132\243\355\135\276\132\145\040\145\003 \220\357 END CKA TRUST SERVER AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR CKA TRUST EMAIL PROTECTION CK TRUST CKT NSS TRUSTED DELEGATOR CKA TRUST CODE SIGNING CK TRUST CKT NSS MUST VERIFY TRUST CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE # # Certificate "UCA Extended Validation Root" # # Issuer: CN=UCA Extended Validation Root,O=UniTrust,C=CN # Serial Number:4f:d2:2b:8f:f5:64:c8:33:9e:4f:34:58:66:23:70:60 # Subject: CN=UCA Extended Validation Root,O=UniTrust,C=CN # Not Valid Before: Fri Mar 13 00:00:00 2015 # Not Valid After : Fri Dec 31 00:00:00 2038 # Fingerprint (SHA-256): D4:3A:F9:B3:54:73:75:5C:96:84:FC:06:D7:D8:CB:70:EE:5C:28:E7:73:FB:29:4E:B4:1E:E7:17:22:92:4D:24 # Fingerprint (SHA1): A3:A1:B0:6F:24:61:23:4A:E3:36:A5:C2:37:FC:A6:FF:DD:F0:D7:3A CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE CKA_TOKEN CK_BBOOL CK_TRUE CKA_PRIVATE CK_BBOOL CK_FALSE CKA_MODIFIABLE CK_BBOOL CK_FALSE CKA_LABEL UTF8 "UCA Extended Validation Root" CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL

CKA VALUE MULTILINE OCTAL \060\202\005\132\060\202\003\102\240\003\002\001\002\002\020\117 \322\053\217\365\144\310\063\236\117\064\130\146\043\160\140\060 \015\006\011\052\206\110\206\367\015\001\001\013\005\000\060\107 \061\013\060\011\006\003\125\004\006\023\002\103\116\061\021\060 \017\006\003\125\004\012\014\010\125\156\151\124\162\165\163\164 \061\045\060\043\006\003\125\004\003\014\034\125\103\101\040\105 \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 $\label{eq:1004} \\ 004 \\ 003 \\ 014 \\ 034 \\ 125 \\ 103 \\ 101 \\ 040 \\ 105 \\ 170 \\ 164 \\ 145 \\ 156 \\ 144 \\ 145 \\ 145 \\ 144 \\ 145$ \040\126\141\154\151\144\141\164\151\157\156\040\122\157\157\164 \060\202\002\042\060\015\006\011\052\206\110\206\367\015\001\001 \001\005\000\003\202\002\017\000\060\202\002\012\002\202\002\001 \000\251\011\007\050\023\002\260\231\340\144\252\036\103\026\172 \163\261\221\240\165\076\250\372\343\070\000\172\354\211\152\040 \017\213\305\260\233\063\003\132\206\306\130\206\325\301\205\273 \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

END

\160\140

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

END

164151157156040122157157164

\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 $\label{eq:105} \\ 105 \\ 170 \\ 164 \\ 145 \\ 156 \\ 144 \\ 145 \\ 144 \\ 040 \\ 126 \\ 141 \\ 154 \\ 151 \\ 144 \\ 141 \\$

CKA ISSUER MULTILINE OCTAL

CKA ID UTF8 "0"

END

164151157156040122157157164

\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 $\label{eq:105} \\ 105\\ 170\\ 164\\ 145\\ 156\\ 144\\ 145\\ 144\\ 040\\ 126\\ 141\\ 154\\ 151\\ 144\\ 141\\ 144\\ 141\\ 144\\ 141\\ 144\\ 141\\ 144\\ 14$

\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} $$ 16340 357 007 101 207 257 152 245 136 213 373 317 120 262 232 $$$ $\label{eq:230} $$ 124\257\303\211\272\130\055\365\060\230\261\066\162\071\176\111$ $\label{eq:263} \\ (263) \\ (035) \\ (225) \\ (141) \\ (127) \\ (126) \\ (177) \\ (257) \\ (360) \\ (026) \\ (133) \\ (141) \\ (130) \\ (157) \\ (066) \\ (120) \\ (12$ \021\013\330\254\053\225\026\032\016\037\010\315\066\064\145\020 \142\146\325\200\137\024\040\137\055\014\240\170\012\150\326\054 \327\351\157\053\322\112\005\223\374\236\157\153\147\377\210\361 \116\245\151\112\122\067\005\352\306\026\215\322\304\231\321\202 \053\073\272\065\165\367\121\121\130\363\310\007\335\344\264\003 \177\002\003\001\000\001\243\102\060\100\060\035\006\003\125\035 \016\004\026\004\024\331\164\072\344\060\075\015\367\022\334\176 \132\005\237\036\064\232\367\341\024\060\017\006\003\125\035\023 \001\001\377\004\005\060\003\001\001\377\060\016\006\003\125\035 \017\001\001\377\004\003\002\001\206\060\015\006\011\052\206 \110\206\367\015\001\001\013\005\000\003\202\002\001\000\066\215 \227\314\102\025\144\051\067\233\046\054\326\373\256\025\151\054 \153\032\032\367\137\266\371\007\114\131\352\363\311\310\271\256 \314\272\056\172\334\300\365\260\055\300\073\257\237\160\005\021 \273\301\036\052\201\365\026\113\162\221\310\242\061\271\252\332 \374\235\037\363\135\100\002\023\374\116\034\006\312\263\024\220 $\label{eq:22} $$ 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 \163\253\052\325\151\310\170\221\046\061\175\342\307\060\361\374 \024\170\167\022\016\023\364\335\026\224\277\113\147\173\160\123 \205\312\260\273\363\070\115\054\220\071\300\015\302\135\153\351 \342\345\325\210\215\326\054\277\253\033\276\265\050\207\022\027 $\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 $\label{eq:105} \\ 105\\ 170\\ 164\\ 145\\ 156\\ 144\\ 145\\ 144\\ 040\\ 126\\ 141\\ 154\\ 151\\ 144\\ 141\\ 144\\ 141\\ 144\\ 141\\ 144\\ 141\\ 144\\ 14$ 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

\022\060\020\006\003\125\004\012\014\011\104\150\151\155\171\157

\164\151\163\061\034\060\032\006\003\125\004\013\014\023\060\060 \060\062\040\064\070\061\064\066\063\060\070\061\060\060\060

\066\061\031\060\027\006\003\125\004\003\014\020\103\145\162\164

151 147 156 141 040 122 157 157 164 040 103 101

END

CKA_ID

UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

\002\021\000\312\351\033\211\361\125\003\015\243\346\101\155\304 \343\246\341

END

CKA_VALUE MULTILINE_OCTAL

\060\202\006\133\060\202\004\103\240\003\002\001\002\002\021\000 \312\351\033\211\361\125\003\015\243\346\101\155\304\343\246\341

\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060 \132\061\013\060\011\006\003\125\004\006\023\002\106\122\061\022 \060\020\006\003\125\004\012\014\011\104\150\151\155\171\157\164 \151\163\061\034\060\032\006\003\125\004\013\014\023\060\060\060 \062\040\064\070\061\064\066\063\060\070\061\060\060\060\063\066 \061\031\060\027\006\003\125\004\003\014\020\103\145\162\164\151 \147\156\141\040\122\157\157\164\040\103\101\060\036\027\015\061 \063\061\060\060\061\060\070\063\062\062\067\132\027\015\063\063 \061\060\060\061\060\070\063\062\062\067\132\060\132\061\013\060 \011\006\003\125\004\006\023\002\106\122\061\022\060\020\006\003 $\label{eq:125} 004 012 014 011 104 150 151 155 171 157 164 151 163 061 034$ \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 $\label{eq:2.1} \end{tabular} \end{tabular}$ \206\110\206\367\015\001\001\001\005\000\003\202\002\017\000\060 \202\002\012\002\202\002\001\000\315\030\071\145\032\131\261\352 \144\026\016\214\224\044\225\174\203\323\305\071\046\334\014\357 \026\127\215\327\330\254\243\102\177\202\312\355\315\133\333\016 \267\055\355\105\010\027\262\331\263\313\326\027\122\162\050\333 \216\116\236\212\266\013\371\236\204\232\115\166\336\042\051\134 \322\263\322\006\076\060\071\251\164\243\222\126\034\241\157\114 \012\040\155\237\043\172\264\306\332\054\344\035\054\334\263\050 \320\023\362\114\116\002\111\241\124\100\236\346\345\005\240\055 \204\310\377\230\154\320\353\212\032\204\010\036\267\150\043\356 \043\325\160\316\155\121\151\020\356\241\172\302\321\042\061\302 \202\205\322\362\125\166\120\174\045\172\311\204\134\013\254\335 \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 $\label{eq:172} $$ 172\135\321\276\104\046\062\051\361\365\154\314\176\002\041\$ \013\237\157\244\077\276\235\123\342\317\175\251\054\174\130\032 \227\341\075\067\067\030\146\050\322\100\305\121\212\214\303\055 \316\123\210\044\130\144\060\026\305\252\340\326\012\246\100\337 \170\366\365\004\174\151\023\204\274\321\321\247\006\317\001\367 \150\300\250\127\273\072\141\255\004\214\223\343\255\374\360\333 \104\155\131\334\111\131\256\254\232\231\066\060\101\173\166\063 \042\207\243\302\222\206\156\371\160\356\256\207\207\225\033\304 $\label{eq:275} $$ 172 275 061 363 324 322 345 231 377 276 110 354 165 365 170 026 $$ 172 275 061 363 324 322 345 231 377 276 110 354 165 365 170 026 $$ 172 275 061 363 324 322 345 231 377 276 110 354 165 365 170 026 $$ 172 275 061 363 324 322 345 231 377 276 110 354 165 365 170 026 $$ 172 275 061 363 324 322 345 231 377 276 110 354 165 365 170 026 $$ 172 275 061 365 170 026 $$ 172 275 061 365 170 026 $$ 172 275 061 365 170 026 $$ 172 275 061 365 170 026 $$ 172 275 061 365 170 026 $$ 172 275 061 365 061 365 170 026 $$ 172 275 061 365 170 026 $$ 172 275 061 365 061 365 061 365 061 $$ 172 275 061 365 061 365 061 $$ 172 275 061 365 061 $$ 172 275 061 365 061 $$ 172 275 061 $$ 175 275 061 $$ 172 275 061 $$ \035\246\160\301\177\074\033\241\222\373\317\310\074\326\305\223 \012\217\365\125\072\166\225\316\131\230\212\011\225\167\062\232 \203\272\054\004\072\227\275\324\057\276\327\154\233\242\312\175 $\label{eq:2.15} \end{tabular} \end{tabular$ \027\371\220\027\110\217\066\371\055\325\305\333\356\252\205\105 \101\372\315\072\105\261\150\346\066\114\233\220\127\354\043\271 \207\010\302\304\011\361\227\206\052\050\115\342\164\300\332\304 \214\333\337\342\241\027\131\316\044\131\164\061\332\177\375\060

\155\331\334\341\152\341\374\137\002\003\001\000\001\243\202\001 \032\060\202\001\026\060\017\006\003\125\035\023\001\001\377\004 \005\060\003\001\001\377\060\016\006\003\125\035\017\001\001\377 \004\004\003\002\001\006\060\035\006\003\125\035\016\004\026\004 \024\030\207\126\340\156\167\356\044\065\074\116\163\232\037\326 \341\342\171\176\053\060\037\006\003\125\035\043\004\030\060\026 \200\024\030\207\126\340\156\167\356\044\065\074\116\163\232\037 \326\341\342\171\176\053\060\104\006\003\125\035\040\004\075\060 \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 \057\167\167\167\167\056\143\145\162\164\151\147\156\141\056\146 \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:164} $$ 164\160\072\057\143\162\154\056\143\145\162\164\151\147\$ $\label{eq:156} \end{tabular} 156 \end{tabular} 146 \end{tabular} 145 \end{tabular} 162 \end{tabular}$ \157\164\143\141\056\143\162\154\060\061\240\057\240\055\206\053 \206\110\206\367\015\001\001\013\005\000\003\202\002\001\000\224 \270\236\117\360\343\225\010\042\347\315\150\101\367\034\125\325 \174\000\342\055\072\211\135\150\070\057\121\042\013\112\215\313 \220\033\002\035\137\146\106\011\063\050\341\015\044\227\160\323 $\label{eq:22} \end{tabular} \end{tabular}$ \035\134\207\343\131\336\102\321\233\250\176\246\211\335\217\034 \311\060\202\355\073\234\315\300\351\031\340\152\330\002\165\067 \253\367\064\050\050\221\362\004\012\117\065\343\140\046\001\372 \320\021\214\371\021\152\356\257\075\303\120\323\217\137\063\171 \074\206\250\163\105\220\214\040\266\162\163\027\043\276\007\145 \345\170\222\015\272\001\300\353\214\034\146\277\254\206\167\001 $\label{eq:224} $$ \frac{346}{351}071215037246121214231014071167341} $$$ \264\233\372\034\147\127\157\152\152\216\251\053\114\127\171\172 $\label{eq:127} $$ 127 042 317 315 137 143 106 215 134 131 072 206 370 062 107 142 $$$ \243\147\015\030\221\334\373\246\153\365\110\141\163\043\131\216 \002\247\274\104\352\364\111\235\361\124\130\371\140\257\332\030 \244\057\050\105\334\172\240\210\206\135\363\073\347\377\051\065 \200\374\144\103\224\346\343\034\157\276\255\016\052\143\231\053 \311\176\205\366\161\350\006\003\225\376\336\217\110\034\132\324 \222\350\053\356\347\061\333\272\004\152\207\230\347\305\137\357 \175\247\042\367\001\330\115\371\211\320\016\232\005\131\244\236 \230\331\157\053\312\160\276\144\302\125\243\364\351\257\303\222 \051\334\210\026\044\231\074\215\046\230\266\133\267\314\316\267 \067\007\375\046\331\230\205\044\377\131\043\003\232\355\235\235 \250\344\136\070\316\327\122\015\157\322\077\155\261\005\153\111 \316\212\221\106\163\364\366\057\360\250\163\167\016\145\254\241 \215\146\122\151\176\113\150\014\307\036\067\047\203\245\214\307 \002\344\024\315\111\001\260\163\263\375\306\220\072\157\322\154

\355\073\356\354\221\276\242\103\135\213\000\112\146\045\104\160 \336\100\017\370\174\025\367\242\316\074\327\136\023\214\201\027 \030\027\321\275\361\167\020\072\324\145\071\301\047\254\127\054 $\label{eq:2.124} $$ 045 124 377 242 332 117 212 141 071 136 256 075 112 214 275 $$$ **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 \016\134\060\142\047\353\133\274\327\256\142\272\351\325\337\167 **END** CKA ISSUER MULTILINE OCTAL \060\132\061\013\060\011\006\003\125\004\006\023\002\106\122\061 \022\060\020\006\003\125\004\012\014\011\104\150\151\155\171\157 \164\151\163\061\034\060\032\006\003\125\004\013\014\023\060\060 \060\062\040\064\070\061\064\066\063\060\070\061\060\060\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_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 - G1"

#

Issuer: CN=emSign Root CA - G1,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN

Serial Number:31:f5:e4:62:0c:6c:58:ed:d6:d8

Subject: CN=emSign Root CA - G1,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN

Not Valid Before: Sun Feb 18 18:30:00 2018

Not Valid After : Wed Feb 18 18:30:00 2043

Fingerprint (SHA-256):

40:F6:AF:03:46:A9:9A:A1:CD:1D:55:5A:4E:9C:CE:62:C7:F9:63:46:03:EE:40:66:15:83:3D:C8:C8:D0:03:67

Fingerprint (SHA1): 8A:C7:AD:8F:73:AC:4E:C1:B5:75:4D:A5:40:F4:FC:CF:7C:B5:8E:8C

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

CKA_TOKEN CK_BBOOL CK_TRUE

CKA PRIVATE CK BBOOL CK FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA LABEL UTF8

"emSign Root CA - G1"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA SUBJECT MULTILINE OCTAL

\060\147\061\013\060\011\006\003\125\004\006\023\002\111\116\061

\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147\156

\040\120\113\111\061\045\060\043\006\003\125\004\012\023\034\145

\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

164040103101040055040107061

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

END

CKA_VALUE MULTILINE_OCTAL

\060\202\003\224\060\202\002\174\240\003\002\001\002\002\012\061 \365\344\142\014\154\130\355\326\330\060\015\006\011\052\206\110 \206\367\015\001\001\013\005\000\060\147\061\013\060\011\006\003 \125\004\006\023\002\111\116\061\023\060\021\006\003\125\004\013

\023\012\145\155\123\151\147\156\040\120\113\111\061\045\060\043 \006\003\125\004\012\023\034\145\115\165\144\150\162\141\040\124 \145\143\150\156\157\154\157\147\151\145\163\040\114\151\155\151 \164\145\144\061\034\060\032\006\003\125\004\003\023\023\145\155 \123\151\147\156\040\122\157\157\164\040\103\101\040\055\040\107 \061\060\036\027\015\061\070\060\062\061\070\061\070\063\060\060 \060\132\027\015\064\063\060\062\061\070\061\070\063\060\060 \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 $\label{eq:147} $$ 145\145\163\040\114\151\155\151\164\145\144\061\034\060\032\$ \006\003\125\004\003\023\023\145\155\123\151\147\156\040\122\157 \157\164\040\103\101\040\055\040\107\061\060\202\001\042\060\015 \006\011\052\206\110\206\367\015\001\001\001\005\000\003\202\001 \017\000\060\202\001\012\002\202\001\001\000\223\113\273\351\146 \212\356\235\133\325\064\223\320\033\036\303\347\236\270\144\063 \177\143\170\150\264\315\056\161\165\327\233\040\306\115\051\274 \266\150\140\212\367\041\232\126\065\132\363\166\275\330\315\232 \377\223\126\113\245\131\006\241\223\064\051\335\026\064\165\116 \362\201\264\307\226\116\255\031\025\122\112\376\074\160\165\160 \315\257\053\253\025\232\063\074\252\263\213\252\315\103\375\365 \352\160\377\355\317\021\073\224\316\116\062\026\323\043\100\052 \167\263\257\074\001\054\154\355\231\054\213\331\116\151\230\262 \367\217\101\260\062\170\141\326\015\137\303\372\242\100\222\035 \134\027\346\160\076\065\347\242\267\302\142\342\253\244\070\114 \265\071\065\157\352\003\151\372\072\124\150\205\155\326\362\057 $\label{eq:103} \\ 125 \\ 036 \\ 221 \\ 015 \\ 016 \\ 330 \\ 325 \\ 152 \\ 244 \\ 226 \\ 321 \\ 023 \\ 074 \\ 054 \\ 170 \\ 170 \\ 100 \\$ \120\350\072\222\322\027\126\345\065\032\100\034\076\215\054\355 \071\337\102\340\203\101\164\337\243\315\302\206\140\110\150\343 $\label{eq:151} $$ 151\013\124\000\213\344\166\151\041\015\171\116\064\010\136\024$ \302\314\261\267\255\327\174\160\212\307\205\002\003\001\000\001 \243\102\060\100\060\035\006\003\125\035\016\004\026\004\024\373 \357\015\206\236\260\343\335\251\271\361\041\027\177\076\374\360 \167\053\032\060\016\006\003\125\035\017\001\001\377\004\004\003 \002\001\006\060\017\006\003\125\035\023\001\001\377\004\005\060 \003\001\001\377\060\015\006\011\052\206\110\206\367\015\001\001 \013\005\000\003\202\001\001\000\131\377\362\214\365\207\175\161 \075\243\237\033\133\321\332\370\323\234\153\066\275\233\251\141 \353\336\026\054\164\075\236\346\165\332\327\272\247\274\102\027 \347\075\221\353\345\175\335\076\234\361\317\222\254\154\110\314 \302\042\077\151\073\305\266\025\057\243\065\306\150\052\034\127 \257\071\357\215\320\065\303\030\014\173\000\126\034\315\213\031 \164\336\276\017\022\340\320\252\241\077\002\064\261\160\316\235 \030\326\010\003\011\106\356\140\340\176\266\304\111\004\121\175 \160\140\274\252\262\377\171\162\172\246\035\075\137\052\370\312 \342\375\071\267\107\271\353\176\337\004\043\257\372\234\006\007 \351\373\143\223\200\100\265\306\154\012\061\050\316\014\237\317

\263\043\065\200\101\215\154\304\067\173\201\057\200\241\100\102 \205\351\331\070\215\350\241\123\315\001\277\151\350\132\006\362 \105\013\220\372\256\341\277\235\362\256\127\074\245\256\262\126 \364\213\145\100\351\375\061\201\054\364\071\011\330\356\153\247 \264\246\035\025\245\230\367\001\201\330\205\175\363\121\134\161 \210\336\272\314\037\200\176\112 END CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE CKA_NSS_SERVER_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

END

CKA_SERIAL_NUMBER

MULTILINE_OCTAL

\002\012\061\365\344\142\014\154\130\355\326\330

END

 $CKA_TRUST_SERVER_AUTH\ CK_TRUST\ CKT_NSS_TRUSTED_DELEGATOR$

CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#

Certificate "emSign ECC Root CA - G3"

#

Issuer: CN=emSign ECC Root CA - G3,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN

Serial Number:3c:f6:07:a9:68:70:0e:da:8b:84

Subject: CN=emSign ECC Root CA - G3,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN

Not Valid Before: Sun Feb 18 18:30:00

2018

Not Valid After : Wed Feb 18 18:30:00 2043

Fingerprint (SHA-256):

86:A1:EC:BA:08:9C:4A:8D:3B:BE:27:34:C6:12:BA:34:1D:81:3E:04:3C:F9:E8:A8:62:CD:5C:57:A3:6B:BE:6B

Fingerprint (SHA1): 30:43:FA:4F:F2:57:DC:A0:C3:80:EE:2E:58:EA:78:B2:3F:E6:BB:C1

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "emSign ECC Root CA - G3"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL

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

\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147\156

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

\115\165\144\150\162\141\040\124\145\143\150\156\157\154\157\147

\151\145\163\040\114\151\155\151\164\145\144\061\040\060\036\006

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

\040\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\012\074\366\007\251\150\160\016\332\213\204

END

CKA_VALUE MULTILINE_OCTAL

\060\202\002\116\060\202\001\323\240\003\002\001\002\002\012\074 \366\007\251\150\160\016\332\213\204\060\012\006\010\052\206\110

\316\075\004\003\003\060\153\061\013\060\011\006\003\125\004\006 \023\002\111\116\061\023\060\021\006\003\125\004\013\023\012\145 \155\123\151\147\156\040\120\113\111\061\045\060\043\006\003\125 $\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} $$ 157\147\151\145\163\040\114\151\155\151\164\145\144\061\040\060\$ \036\006\003\125\004\003\023\027\145\155\123\151\147\156\040\105 \103\103\040\122\157\157\164\040\103\101\040\055\040\107\063\060 \166\060\020\006\007\052\206\110\316\075\002\001\006\005\053\201 \004\000\042\003\142\000\004\043\245\014\270\055\022\365\050\363 \261\262\335\342\002\022\200\236\071\137\111\115\237\311\045\064 $\label{eq:131} 164 354 273 006 034 347 300 162 257 350 256 057 341 101 124$ \207\024\250\112\262\350\174\202\346\133\152\265\334\263\165\316 \213\006\320\206\043\277\106\325\216\017\077\004\364\327\034\222 $\label{eq:176} $$ 176\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\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 $\label{eq:23} \\ 023 \\ 060 \\ 021 \\ 006 \\ 003 \\ 125 \\ 004 \\ 013 \\ 023 \\ 012 \\ 145 \\ 155 \\ 123 \\ 151 \\ 147 \\ 156 \\ 123 \\ 151 \\ 147 \\ 156 \\ 123 \\ 151 \\ 147 \\ 156 \\ 123 \\ 151 \\ 147 \\ 156 \\ 123 \\ 151 \\ 147 \\ 156 \\ 123 \\ 151 \\ 147 \\ 156 \\ 123 \\ 151 \\ 147 \\ 156 \\ 123 \\ 151 \\ 147 \\ 156 \\ 123 \\ 151 \\ 147 \\ 156 \\ 123 \\ 151 \\ 147 \\ 156 \\ 123 \\ 151 \\ 147 \\ 156 \\ 123 \\ 151 \\ 147 \\ 156 \\ 123 \\ 151 \\ 147 \\ 156 \\ 123 \\ 125 \\ 125 \\ 123 \\ 125 \\$ \040\120\113\111\061\045\060\043\006\003\125\004\012\023\034\145 \115\165\144\150\162\141\040\124\145\143\150\156\157\154\157\147 \003\125\004\003\023\027\145\155\123\151\147\156\040\105\103\103 \040\122\157\157\164\040\103\101\040\055\040\107\063 **END** CKA SERIAL NUMBER MULTILINE OCTAL \002\012\074\366\007\251\150\160\016\332\213\204 END CKA TRUST SERVER AUTH CK TRUST CKT NSS TRUSTED DELEGATOR

CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#

Certificate "emSign Root CA - C1"

#

Issuer: CN=emSign Root CA - C1,O=eMudhra Inc,OU=emSign PKI,C=US

Serial Number:00:ae:cf:00:ba:c4:cf:32:f8:43:b2

#

Subject: CN=emSign Root CA - C1,O=eMudhra Inc,OU=emSign PKI,C=US

Not Valid Before: Sun Feb 18 18:30:00 2018

Not Valid After : Wed Feb 18 18:30:00 2043

Fingerprint (SHA-256):

12:56:09:AA:30:1D:A0:A2:49:B9:7A:82:39:CB:6A:34:21:6F:44:DC:AC:9F:39:54:B1:42:92:F2:E8:C8:60:8F

Fingerprint (SHA1): E7:2E:F1:DF:FC:B2:09:28:CF:5D:D4:D5:67:37:B1:51:CB:86:4F:01

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "emSign Root CA - C1"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509 CKA_SUBJECT MULTILINE_OCTAL

 $\label{eq:sphere:sphe$

END

CKA_ID UTF8 "0"

CKA_ISSUER

MULTILINE_OCTAL

 $\label{eq:spinor} $$ \ (060\126\061\013\060\011\006\003\125\004\006\023\002\125\123\061\023\060\021\006\003\125\004\012\155\123\151\147\156\040\122\023\013\145\155\123\151\147\156\040\122\157\157\164\040\103\101\040\055\040\103\061 $$$

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 $\label{eq:22} 006 003 125 004 012 023 013 145 115 165 144 150 162 141 040$ \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 \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 \071\374\133\370\160\216\340\222\122\367\344\045\371\124\203\331 \035\323\310\132\205\077\136\307\266\007\356\076\300\316\232\257 \254\126\102\052\071\045\160\326\277\265\173\066\255\254\366\163

\334\315\327\035\212\203\245\373\053\220\025\067\153\034\046\107 \334\073\051\126\223\152\263\301\152\072\235\075\365\301\227\070 \130\005\213\034\021\343\344\264\270\135\205\035\203\376\170\137 \013\105\150\030\110\245\106\163\064\073\376\017\310\166\273\307 \030\363\005\321\206\363\205\355\347\271\331\062\255\125\210\316 \246\266\221\260\117\254\176\025\043\226\366\077\360\040\064\026 \336\012\306\304\004\105\171\177\247\375\276\322\251\245\257\234 \305\043\052\367\074\041\154\275\257\217\116\305\072\262\363\064 \022\374\337\200\032\111\244\324\251\225\367\236\211\136\242\211 \254\224\313\250\150\233\257\212\145\047\315\211\356\335\214\265 \153\051\160\103\240\151\013\344\271\017\002\003\001\000\001\243 \102\060\100\060\035\006\003\125\035\016\004\026\004\024\376\241 \340\160\036\052\003\071\122\132\102\276\134\221\205\172\030\252 \115\265\060\016\006\003\125\035\017\001\001\377\004\004\003\002 \001\006\060\017\006\003\125\035\023\001\001\377\004\005\060\003 \001\001\377\060\015\006\011\052\206\110\206\367\015\001\001\013 \005\000\003\202\001\001\000\302\112\126\372\025\041\173\050\242 \351\345\035\373\370\055\304\071\226\101\114\073\047\054\304\154 \030\025\200\306\254\257\107\131\057\046\013\343\066\260\357\073 \376\103\227\111\062\231\022\025\133\337\021\051\377\253\123\370 \273\301\170\017\254\234\123\257\127\275\150\214\075\151\063\360 $\label{eq:243} \\ 240 \\ 043 \\ 143 \\ 073 \\ 144 \\ 147 \\ 042 \\ 104 \\ 255 \\ 325 \\ 161 \\ 313 \\ 126 \\ 052 \\ 170 \\ 170 \\ 126 \\ 105 \\ 170 \\ 104 \\ 125 \\ 104 \\ 104 \\ 125 \\ 104 \\$ \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 $\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

 $\label{eq:starter} $$ $ \frac{023}{060} \frac{125}{004} \frac{013}{023} \frac{125}{145} \frac{123}{151} \frac{147}{156} \frac{140}{120} \frac{113}{111} \frac{061}{024} \frac{000}{022} \frac{006}{003} \frac{125}{004} \frac{012}{023} \frac{115}{165} \frac{144}{150} \frac{162}{141} \frac{040}{111} \frac{156}{143} \frac{061}{034} \frac{000}{032} \frac{006}{003} \frac{125}{004} \frac{003}{023} \frac{125}{155} \frac{123}{151} \frac{147}{156} \frac{142}{157} \frac{157}{157} \frac{164}{156} \frac{142}{150} \frac{125}{155} \frac{123}{151} \frac{147}{156} \frac{142}{157} \frac{156}{155} \frac{123}{151} \frac{147}{156} \frac{142}{157} \frac{156}{155} \frac{123}{151} \frac{147}{156} \frac{142}{157} \frac{156}{155} \frac{123}{151} \frac{147}{156} \frac{142}{157} \frac{156}{155} \frac{123}{151} \frac{147}{156} \frac{125}{157} \frac{156}{155} \frac{123}{151} \frac{147}{156} \frac{125}{155} \frac{123}{151} \frac{147}{156} \frac{125}{155} \frac{123}{151} \frac{147}{156} \frac{125}{155} \frac{123}{151} \frac{147}{156} \frac{156}{155} \frac{15$

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

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

 $\label{eq:26} $$ 002\013\000\256\317\000\272\304\317\062\370\103\262 $$$

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

Open Source Used In vmoperator Crafton-3.0 940

CKA VALUE MULTILINE OCTAL \060\202\002\053\060\202\001\261\240\003\002\001\002\002\012\173 \161\266\202\126\270\022\174\234\250\060\012\006\010\052\206\110 \316\075\004\003\003\060\132\061\013\060\011\006\003\125\004\006 \023\002\125\123\061\023\060\021\006\003\125\004\013\023\012\145 \155\123\151\147\156\040\120\113\111\061\024\060\022\006\003\125 \004\012\023\013\145\115\165\144\150\162\141\040\111\156\143\061 $\label{eq:2.1} \end{tabular} \end{tabular}$ \040\105\103\103\040\122\157\157\164\040\103\101\040\055\040\103 \063\060\036\027\015\061\070\060\062\061\070\061\070\063\060\060 \132\060\132\061\013\060\011\006\003\125\004\006\023\002\125\123 \061\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147 \156\040\120\113\111\061\024\060\022\006\003\125\004\012\023\013 \145\115\165\144\150\162\141\040\111\156\143\061\040\060\036\006 \003\125\004\003\023\027\145\155\123\151\147\156\040\105\103\103 \040\122\157\157\164\040\103\101\040\055\040\103\063\060\166\060 \020\006\007\052\206\110\316\075\002\001\006\005\053\201\004\000 $\label{eq:2.1} \end{tabular} \end{tabular}$ \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 $\label{eq:177} $$177376365362251243102060100060035006003125035016$ \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

\002\012\173\161\266\202\126\270\022\174\234\250 END

CKA SERIAL NUMBER MULTILINE OCTAL

END

\122\157\157\164\040\103\101\040\055\040\103\063

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

UTF8 "0"

CKA_ID

END

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

\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 $\label{eq:211} $$ 002\211\375\266\114\142\272\103\116\023\204\162\265\256\335\034$ \336\326\265\334\126\217\130\100\132\055\336\040\114\042\203\312 \223\250\176\356\022\100\307\326\207\117\370\337\205\002\060\034 $\label{eq:22} \end{tabular} \end{tabular}$ \323\000\374\241\374\344\245\377\177\255\327\060\320\307\167\177 \276\201\007\125\060\120\040\024\365\127\070\012\250\061\121 END CKA NSS MOZILLA CA POLICY CK_BBOOL CK_TRUE CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE # Trust for "emSign ECC Root CA - C3" # Issuer: CN=emSign ECC Root CA - C3,O=eMudhra Inc,OU=emSign PKI,C=US # Serial Number:7b:71:b6:82:56:b8:12:7c:9c:a8 # Subject: CN=emSign ECC Root CA - C3,O=eMudhra Inc,OU=emSign PKI,C=US # Not Valid Before: Sun Feb 18 18:30:00 2018 # Not Valid After : Wed Feb 18 18:30:00 2043 # Fingerprint (SHA-256): BC:4D:80:9B:15:18:9D:78:DB:3E:1D:8C:F4:F9:72:6A:79:5D:A1:64:3C:A5:F1:35:8E:1D:DB:0E:DC:0D:7E:B3 # Fingerprint (SHA1): B6:AF:43:C2:9B:81:53:7D:F6:EF:6B:C3:1F:1F:60:15:0C:EE:48:66 CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST CKA TOKEN CK BBOOL CK TRUE CKA PRIVATE CK BBOOL CK FALSE CKA_MODIFIABLE CK_BBOOL CK_FALSE CKA LABEL UTF8 "emSign ECC Root CA - C3" CKA CERT SHA1 HASH MULTILINE OCTAL \266\257\103\302\233\201\123\175\366\357\153\303\037\037\140\025 \014\356\110\146 **END** CKA CERT MD5 HASH MULTILINE OCTAL \076\123\263\243\201\356\327\020\370\323\260\035\027\222\365\325 **END** CKA ISSUER MULTILINE OCTAL \060\132\061\013\060\011\006\003\125\004\006\023\002\125\123\061 \023\060\021\006\003\125\004\013\023\012\145\155\123\151\147\156 \040\120\113\111\061\024\060\022\006\003\125\004\012\023\013\145 \115\165\144\150\162\141\040\111\156\143\061\040\060\036\006\003 \122\157\157\164\040\103\101\040\055\040\103\063 **END** CKA_SERIAL_NUMBER MULTILINE_OCTAL $\label{eq:202} $$ 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

 $\label{eq:2.1} \end{tabular} $$ \060\157\061\013\060\011\006\003\125\004\006\023\002\110\113\061 $$ $$

 $\label{eq:2060} $$ 022\006\003\125\004\010\023\011\10\157\156\147\040\113$

\157\156\147\061\022\060\020\006\003\125\004\007\023\011\110\157

\156\147\040\113\157\156\147\061\026\060\024\006\003\125\004\012

\023\015\110\157\156\147\153\157\156\147\040\120\157\163\164\061

\040\060\036\006\003\125\004\003\023\027\110\157\156\147\153\157 \156\147\040\120\157\163\164\040\122\157\157\164\040\103\101\040

\063

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

END

CKA_SERIAL_NUMBER

```
MULTILINE_OCTAL
```

\002\024\010\026\137\212\114\245\354\000\311\223\100\337\304\306 \256\043\270\034\132\244

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 \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 $\label{eq:147} $$ 157 156 147 040 120 157 163 164 040 122 157 157 164 040$ \103\101\040\063\060\202\002\042\060\015\006\011\052\206\110\206 \367\015\001\001\001\005\000\003\202\002\017\000\060\202\002\012 \002\202\002\001\000\263\210\327\352\316\017\040\116\276\346\326 \003\155\356\131\374\302\127\337\051\150\241\203\016\076\150\307 \150\130\234\034\140\113\211\103\014\271\324\025\262\356\301\116 \063\060\040\063\123\331\246\273\325\076\023\216\351\037\207\111 \255\120\055\120\312\030\276\001\130\242\023\160\226\273\211\210 \126\200\134\370\275\054\074\341\114\127\210\273\323\271\225\357 \313\307\366\332\061\164\050\246\346\124\211\365\101\061\312\345 \046\032\315\202\340\160\332\073\051\273\325\003\365\231\272\125 \365\144\321\140\016\263\211\111\270\212\057\005\322\204\105\050 \174\217\150\120\022\170\374\013\265\123\313\302\230\034\204\243 \236\260\276\043\244\332\334\310\053\036\332\156\105\036\211\230 \332\371\000\056\006\351\014\073\160\325\120\045\210\231\313\315 \163\140\367\325\377\065\147\305\241\274\136\253\315\112\270\105 \353\310\150\036\015\015\024\106\022\343\322\144\142\212\102\230 \274\264\306\010\010\370\375\250\114\144\234\166\001\275\057\251 \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 $\label{eq:20} \end{tabular} \end{tabular}$ \072\276\260\217\143\101\123\060\010\131\074\230\035\167\272\143 \221\172\312\020\120\140\277\360\327\274\225\207\217\227\305\376 \227\152\001\224\243\174\133\205\035\052\071\072\320\124\241\321

\071\161\235\375\041\371\265\173\360\342\340\002\217\156\226\044 \045\054\240\036\054\250\304\211\247\357\355\231\006\057\266\012 \114\117\333\242\314\067\032\257\107\205\055\212\137\304\064\064 \114\000\375\030\223\147\023\321\067\346\110\264\213\006\305\127 \173\031\206\012\171\313\000\311\122\257\102\377\067\217\341\243 \036\172\075\120\253\143\006\347\025\265\077\266\105\067\224\067 \261\176\362\110\303\177\305\165\376\227\215\105\217\032\247\032 \162\050\032\100\017\002\003\001\000\001\243\143\060\141\060\017 \006\003\125\035\023\001\001\377\004\005\060\003\001\001\377\060 \016\006\003\125\035\017\001\001\377\004\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 $\label{eq:130} \\ 130\\ 334\\ 150\\ 056\\ 056\\ 142\\ 330\\ 152\\ 344\\ 160\\ 013\\ 055\\ 040\\ 120\\ 040\\ 244$ \062\225\321\000\230\273\323\375\367\062\362\111\256\306\172\340 \107\276\156\316\313\243\162\072\055\151\135\313\310\350\105\071 \201\236\257\240\231\255\276\251\001\146\313\070\035\074\337\103 $\label{eq:2.1} \end{tabular} $$ \037\364\115\156\264\272\027\106\374\175\375\207\201\171\152\015 $$ $$ \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 $\label{eq:236} \end{tabular} 1054 \end{tabular} 171 \end{tabular} 1075 \end{tabular} 160 \end{tabular} 220 \end{tabular} 074 \end{tabular} 101 \end{tabular} 112 \end{tabular} 072 \end{tabular} 335 \end{tabular} 133 \end{tabular} 366 \end{tabular} 232 \end{tabular} 101 \end{tabular} 112 \end{tabular} 1075 \end{tabul$ \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 \054\026\151\223\007\376\261\105\355\273\242\125\152\260\332\265 \112\002\045\047\205\327\267\267\206\104\026\211\154\200\053\076 \227\251\234\325\176\125\114\306\336\105\020\034\352\351\073\237 \003\123\356\356\172\001\002\026\170\324\350\302\276\106\166\210 \023\077\042\273\110\022\035\122\000\264\002\176\041\032\036\234 \045\364\363\075\136\036\322\034\371\263\055\266\367\067\134\306 \313\041\116\260\367\231\107\030\205\301\053\272\125\256\006\352 \320\007\262\334\253\320\202\226\165\316\322\120\376\231\347\317 \057\237\347\166\321\141\052\373\041\273\061\320\252\237\107\244 \262\042\312\026\072\120\127\304\133\103\147\305\145\142\003\111 \001\353\103\331\330\370\236\255\317\261\143\016\105\364\240\132 \054\233\055\305\246\300\255\250\107\364\047\114\070\015\056\033 \111\073\122\364\350\210\203\053\124\050\324\362\065\122\264\062 \203\142\151\144\014\221\234\237\227\352\164\026\375\037\021\006 \232\233\364

END CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE CKA_NSS_SERVER_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

\063

END

CKA_SERIAL_NUMBER

MULTILINE_OCTAL

\002\024\010\026\137\212\114\245\354\000\311\223\100\337\304\306 \256\043\270\034\132\244

END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE #

Certificate "Entrust Root Certification Authority - G4"

#

Issuer: CN=Entrust Root Certification Authority - G4,OU="(c) 2015 Entrust, Inc. - for authorized use

only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US

Serial Number:00:d9:b5:43:7f:af:a9:39:0f:00:00:00:00:55:65:ad:58

Subject: CN=Entrust Root Certification Authority - G4,OU="(c) 2015 Entrust, Inc. - for authorized use

 $only", OU{=}See \ www.entrust.net/legal-terms, O{=}"Entrust, Inc.", C{=}US$

#

Not Valid Before: Wed May 27 11:11:16 2015

Not Valid After : Sun Dec 27 11:41:16 2037

Fingerprint (SHA-256):

DB:35:17:D1:F6:73:2A:2D:5A:B9:7C:53:3E:C7:07:79:EE:32:70:A6:2F:B4:AC:42:38:37:24:60:E6:F0:1E:88 # Fingerprint (SHA1): 14:88:4E:86:26:37:B0:26:AF:59:62:5C:40:77:EC:35:29:BA:96:01

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "Entrust Root Certification Authority - G4"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL

 $\label{eq:151} $$ 151\172\145\144\040\165\163\145\040\157\156\154\171\061\062\060 $$$

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

\064

END

CKA_ID

UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

CKA VALUE MULTILINE OCTAL \060\202\006\113\060\202\004\063\240\003\002\001\002\002\021\000 \331\265\103\177\257\251\071\017\000\000\000\000\125\145\255\130 \060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060 \201\276\061\013\060\011\006\003\125\004\006\023\002\125\123\061 \026\060\024\006\003\125\004\012\023\015\105\156\164\162\165\163 \164\054\040\111\156\143\056\061\050\060\046\006\003\125\004\013 \023\037\123\145\145\040\167\167\167\056\145\156\164\162\165\163 \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 \156\040\101\165\164\150\157\162\151\164\171\040\055\040\107\064 \060\036\027\015\061\065\060\065\062\067\061\061\061\061\061\066 \132\027\015\063\067\061\062\062\067\061\061\064\061\061\066\132 \060\201\276\061\013\060\011\006\003\125\004\006\023\002\125\123 \061\026\060\024\006\003\125\004\012\023\015\105\156\164\162\165 \163\164\054\040\111\156\143\056\061\050\060\046\006\003\125\004 \013\023\037\123\145\145\040\167\167\167\056\145\156\164\162\165 \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 \001\000\261\354\054\102\356\342\321\060\377\245\222\107\342\055 \303\272\144\227\155\312\367\015\265\131\301\263\313\250\150\031 \330\257\204\155\060\160\135\176\363\056\322\123\231\341\376\037 \136\331\110\257\135\023\215\333\377\143\063\115\323\000\002\274 \304\370\321\006\010\224\171\130\212\025\336\051\263\375\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

Open Source Used In vmoperator Crafton-3.0 947

END

\145\255\130

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

CKA SERIAL NUMBER

END

\064

 $\label{eq:122} $$ 157 164 040 103 145 162 164 151 146 151 143 141 164 154 151 164 151 164 151 164 151 164 151 164 151 164 151 164 151 151 164 151 164 151 164 151 164 151 164 151 164 151 164 151 164 151 164 151 164 150 150 154 154 154 151 164 151 151 164 151 164 151 164 151 164 151 164 151 164 151 164 154 150 154 154 154 154 151 164 151 164 151 15$ \157\156\040\101\165\164\150\157\162\151\164\171\040\055\040\107

\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 \013\132\345\054\001\306\124\257\327\252\301\020\173\322\005\132 \270\100\236\206\247\303\220\206\002\126\122\011\172\234\322\047 \202\123\112\145\122\152\365\074\347\250\362\234\257\213\275\323 \016\324\324\136\156\207\236\152\075\105\035\321\135\033\364\351 $\label{eq:254} $$ 012\254\140\231\373\211\264\377\230\054\317\174\035\351\002\252 $$$ \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 $\label{eq:214} $$ 067\214\272\230\000\227\213\111\226\036\375\045\212\254\334\332 $$$ \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 $\label{eq:161} $$ 161\154\350\124\114\344\350\072\261\277\147\060\015\006\011\052\$ \206\110\206\367\015\001\001\013\005\000\003\202\002\001\000\022 \345\102\246\173\213\017\014\344\106\245\266\140\100\207\214\045 \176\255\270\150\056\133\306\100\166\074\003\370\311\131\364\363 \253\142\316\020\215\264\132\144\214\150\300\260\162\103\064\322 \033\013\366\054\123\322\312\220\113\206\146\374\252\203\042\364 \213\032\157\046\110\254\166\167\010\277\305\230\134\364\046\211 \236\173\303\271\144\062\001\177\323\303\335\130\155\354\261\253 \204\125\164\167\204\004\047\122\153\206\114\316\335\271\145\377 \326\306\136\237\232\020\231\113\165\152\376\152\351\227\040\344 \344\166\172\306\320\044\252\220\315\040\220\272\107\144\373\177 \007\263\123\170\265\012\142\362\163\103\316\101\053\201\152\056 \205\026\224\123\324\153\137\162\042\253\121\055\102\325\000\234 \231\277\336\273\224\073\127\375\232\365\206\313\126\073\133\210 \001\345\174\050\113\003\371\111\203\174\262\177\174\343\355\216 \241\177\140\123\216\125\235\120\064\022\017\267\227\173\154\207 \112\104\347\365\155\354\200\067\360\130\031\156\112\150\166\360 \037\222\344\352\265\222\323\141\121\020\013\255\247\331\137\307

\007\226\040\355\013\164\373\146\116\213\021\025\351\201\111\176 \157\260\324\120\177\042\327\137\145\002\015\246\364\205\036\330 \256\006\113\112\247\322\061\146\302\370\316\345\010\246\244\002 $\label{eq:226} \end{tabular} \end{tabular}$ \331\360\237\016\261\200\342\321\236\021\144\251\210\021\072\166 \202\345\142\302\200\330\244\203\355\223\357\174\057\220\260\062 \114\226\025\150\110\122\324\231\010\300\044\350\034\343\263\245 \041\016\222\300\220\037\317\040\137\312\073\070\307\267\155\072 \363\346\104\270\016\061\153\210\216\160\353\234\027\122\250\101 \224\056\207\266\347\246\022\305\165\337\133\300\012\156\173\244 \344\136\206\371\066\224\337\167\303\351\015\300\071\361\171\273 \106\216\253\103\131\047\267\040\273\043\351\126\100\041\354\061 \075\145\252\103\362\075\337\160\104\341\272\115\046\020\073\230 \237\363\310\216\033\070\126\041\152\121\223\323\221\312\106\332 \211\267\075\123\203\054\010\037\213\217\123\335\377\254\037 END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE

Trust for "Entrust Root Certification Authority - G4"

#

Issuer: CN=Entrust Root Certification Authority - G4,OU="(c) 2015 Entrust, Inc. - for authorized use

only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US

Serial Number:00:d9:b5:43:7f:af:a9:39:0f:00:00:00:00:55:65:ad:58

Subject: CN=Entrust Root Certification Authority - G4,OU="(c) 2015 Entrust, Inc. - for authorized use

only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US

Not Valid Before: Wed May 27 11:11:16 2015

Not Valid After : Sun Dec 27 11:41:16 2037

Fingerprint (SHA-256):

DB:35:17:D1:F6:73:2A:2D:5A:B9:7C:53:3E:C7:07:79:EE:32:70:A6:2F:B4:AC:42:38:37:24:60:E6:F0:1E:88

Fingerprint (SHA1): 14:88:4E:86:26:37:B0:26:AF:59:62:5C:40:77:EC:35:29:BA:96:01

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "Entrust Root Certification Authority - G4"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL

 $\label{eq:24} $$ $ 024 \ 100 \ 060$

 $051\272\226\001$

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

\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 $\label{eq:151} 172 145 144 040 165 163 145 040 157 156 154 171 061 062 060$ \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 \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 # Fingerprint (SHA1): 99:9A:64:C3:7F:F4:7D:9F:AB:95:F1:47:69:89:14:60:EE:C4:C3:C5

```
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
```

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL

UTF8 "Microsoft ECC Root Certificate Authority 2017"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL

 $\label{eq:2.123} \\ 060 \\ 145 \\ 061 \\ 013 \\ 060 \\ 011 \\ 006 \\ 003 \\ 125 \\ 004 \\ 006 \\ 023 \\ 002 \\ 125 \\ 123 \\ 061 \\ 011 \\ 060 \\ 011 \\ 006 \\ 003 \\ 125 \\ 004 \\ 006 \\ 023 \\ 002 \\ 125 \\ 123 \\ 061 \\ 011 \\ 006 \\ 003 \\ 125 \\ 004 \\ 006 \\ 003 \\ 125 \\ 004 \\ 006 \\ 003 \\ 125 \\ 004 \\ 006 \\ 003 \\ 125 \\ 004 \\ 006 \\ 003 \\ 125 \\ 004 \\ 006 \\ 003 \\ 125 \\ 004 \\ 006 \\ 003 \\ 125 \\ 004 \\ 006 \\ 003 \\ 125 \\ 004 \\ 006 \\ 003 \\ 125 \\ 004 \\ 006 \\ 003 \\ 002 \\ 002 \\ 125 \\ 002 \\ 125 \\ 002 \\ 002 \\ 125 \\ 002 \\ 002 \\ 125 \\ 002 \\ 002 \\ 125 \\ 002 \\ 002 \\ 125 \\ 002$

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

 $\label{eq:157} $$ 157\164\040\103\157\162\160\157\162\141\164\151\157\156\061 $$$

END

\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 $\label{eq:125} 004 003 023 055 115 151 143 162 157 163 157 146 164 040 105$ $\label{eq:103} 103 040 122 157 157 164 040 103 145 162 164 151 146 151 143$ \141\164\145\040\101\165\164\150\157\162\151\164\171\040\062\060 \061\067\060\036\027\015\061\071\061\062\061\070\062\063\060\066 \064\065\132\027\015\064\062\060\067\061\070\062\063\061\066\060 \064\132\060\145\061\013\060\011\006\003\125\004\006\023\002\125 \123\061\036\060\034\006\003\125\004\012\023\025\115\151\143\162 \157\163\157\146\164\040\103\157\162\160\157\162\141\164\151\157 \156\061\066\060\064\006\003\125\004\003\023\055\115\151\143\162 \157\163\157\146\164\040\105\103\103\040\122\157\157\164\040\103 \145\162\164\151\146\151\143\141\164\145\040\101\165\164\150\157 \162\151\164\171\040\062\060\061\067\060\166\060\020\006\007\052 \206\110\316\075\002\001\006\005\053\201\004\000\042\003\142\000 \004\324\274\075\002\102\165\101\023\043\315\200\004\206\002\121 \057\152\250\201\142\013\145\314\366\312\235\036\157\112\146\121 \246\057\316\273\316\161\057\345\245\253\050\354\143\004\146\231 \370\372\362\223\020\005\341\201\050\102\343\306\150\364\346\033 \204\140\112\211\257\355\171\017\073\316\361\366\104\365\001\170 \300\243\124\060\122\060\016\006\003\125\035\017\001\001\377\004 \004\003\002\001\206\060\017\006\003\125\035\023\001\001\377\004 \005\060\003\001\001\377\060\035\006\003\125\035\016\004\026\004 \024\310\313\231\162\160\122\014\370\346\276\262\004\127\051\052 \317\102\020\355\065\060\020\006\011\053\006\001\004\001\202\067 \025\001\004\003\002\001\000\060\012\006\010\052\206\110\316\075 \004\003\003\003\150\000\060\145\002\060\130\362\115\352\014\371

Open Source Used In vmoperator Crafton-3.0 951

END

\302\354

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

CKA_SERIAL_NUMBER

CKA ID UTF8 "0"

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\105\103\103\040\122\157\164\040\103\145\162 \164\151\146\151\143\141\164\145\040\101\165\164\150\157\162\151 \137\136\356\140\051\313\072\362\333\326\062\204\031\077\174\325 \057\302\261\314\223\256\120\273\011\062\306\306\355\176\311\066 \224\022\344\150\205\006\242\033\320\057\002\061\000\231\351\026 \264\016\372\126\110\324\244\060\026\221\170\333\124\214\145\001 \212\347\120\146\302\061\267\071\272\270\032\042\007\116\374\153 \124\026\040\377\053\265\347\114\014\115\246\117\163 END CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE

CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "Microsoft ECC Root Certificate Authority 2017"

Issuer: CN=Microsoft ECC Root Certificate Authority 2017,O=Microsoft Corporation,C=US

Serial Number:66:f2:3d:af:87:de:8b:b1:4a:ea:0c:57:31:01:c2:ec

Subject: CN=Microsoft

ECC Root Certificate Authority 2017,O=Microsoft Corporation,C=US

Not Valid Before: Wed Dec 18 23:06:45 2019

Not Valid After : Fri Jul 18 23:16:04 2042

Fingerprint (SHA-256):

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

 $\label{eq:231} 232 144 303 177 364 175 237 253 225 361 107 151 211 024 140$

356304303305

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL

```
\335\241\003\346\112\223\020\321\277\360\031\102\313\376\355\147
END
```

CKA_ISSUER MULTILINE_OCTAL

```
\060\145\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\036\060\034\006\003\125\004\012\023\025\115\151\143\162\157\163
\157\146\164\040\103\157\162\160\157\162\141\164\151\157\156\061
\066\060\064\006\003\125\004\003\023\055\115\151\143\162\157\163
\157\146\164\040\105\103\103\040\122\157\157\164\040\103\145\162
\164\151\146\151\143\141\164\145\040\101\165\164\150\157\162\151
\164\171\040\062\060\061\067
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\020\146\362\075\257\207\336\213\261\112\352\014\127\061\001
\302\354
```

END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR CKA TRUST EMAIL PROTECTION CK TRUST CKT NSS MUST VERIFY TRUST CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Certificate "Microsoft RSA Root Certificate Authority 2017" # # Issuer: CN=Microsoft RSA Root Certificate Authority 2017,O=Microsoft Corporation,C=US # Serial Number:1e:d3:97:09:5f:d8:b4:b3:47:70:1e:aa:be:7f:45:b3 # Subject: CN=Microsoft RSA Root Certificate Authority 2017,O=Microsoft Corporation,C=US # Not Valid Before: Wed Dec 18 22:51:22 2019 # Not Valid After : Fri Jul 18 23:00:23 2042 # Fingerprint (SHA-256): C7:41:F7:0F:4B:2A:8D:88:BF:2E:71:C1:41:22:EF:53:EF:10:EB:A0:CF:A5:E6:4C:FA:20:F4:18:85:30:73:E0 Fingerprint (SHA1): 73:A5:E6:4A:3B:FF:83:16:FF:0E:DC:CC:61:8A:90:6E:4E:AE:4D:74 CKA CLASS CK OBJECT CLASS CKO CERTIFICATE CKA TOKEN CK BBOOL CK TRUE CKA_PRIVATE CK_BBOOL CK_FALSE CKA MODIFIABLE CK BBOOL CK FALSE CKA_LABEL UTF8 "Microsoft RSA Root Certificate Authority 2017" CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509 CKA SUBJECT MULTILINE OCTAL \060\145\061\013\060\011\006\003\125\004\006\023\002\125\123\061 \036\060\034\006\003\125\004\012\023\025\115\151\143\162\157\163 \066\060\064\006\003\125\004\003\023\055\115\151\143\162\157\163 $\label{eq:157} $$ 157 146 164 040 122 123 101 040 122 157 157 164 040 103 145 162 $$$ \164\171\040\062\060\061\067 END CKA ID UTF8 "0" CKA ISSUER MULTILINE OCTAL \060\145\061\013\060\011\006\003\125\004\006\023\002\125\123\061 \036\060\034\006\003\125\004\012\023\025\115\151\143\162\157\163 $\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 \164\171\040\062\060\061\067 **END** CKA_SERIAL_NUMBER MULTILINE_OCTAL \002\020\036\323\227\011\137\330\264\263\107\160\036\252\276\177 \105\263 END CKA_VALUE MULTILINE_OCTAL

\060\202\005\250\060\202\003\220\240\003\002\001\002\002\020\036 \323\227\011\137\330\264\263\107\160\036\252\276\177\105\263\060 \015\006\011\052\206\110\206\367\015\001\001\014\005\000\060\145 \061\013\060\011\006\003\125\004\006\023\002\125\123\061\036\060 \034\006\003\125\004\012\023\025\115\151\143\162\157\163\157\146 \064\006\003\125\004\003\023\055\115\151\143\162\157\163\157\146 $\label{eq:164} $$ 164\040\122\123\101\040\122\157\157\164\040\103\145\162\164\151\$ $\label{eq:146} $$ 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:151} $$ 151\143\162\157\163\157\146\164\040\103\157\162\160\157\162\141 $$$ \164\151\157\156\061\066\060\064\006\003\125\004\003\023\055\115 \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 \110\100\202\123\020\274\277\307\073\150\220\266\202\055\345\364 $\label{eq:145} $$ 145\031\314\225\371\173\254\112\224\255\016\336\113$ \103\035\207\007\222\023\220\200\203\144\065\071\004\374\345\351 \154\263\266\037\120\224\070\145\120\134\027\106\271\266\205\265 \034\265\027\350\326\105\235\330\262\046\260\312\304\160\112\256 \140\244\335\263\331\354\374\073\325\127\162\274\077\310\311\262 \336\113\153\370\043\154\003\300\005\275\225\307\315\163\073\146 \200\144\343\032\254\056\371\107\005\362\006\266\233\163\365\170 \063\133\307\241\373\047\052\241\264\232\221\214\221\323\072\202 \076\166\100\264\315\122\141\121\160\050\077\305\305\132\362\311 \214\111\273\024\133\115\310\377\147\115\114\022\226\255\365\376 \170\250\227\207\327\375\136\040\200\334\241\113\042\373\324\211 \255\272\316\107\227\107\125\173\217\105\310\147\050\204\225\034 \150\060\357\357\111\340\065\173\144\347\230\260\224\332\115\205 \073\076\125\304\050\257\127\363\236\023\333\106\047\237\036\242 \141\244\122\060\271\172\040\117\157\017\070\123\313\063\014\023 \053\217\326\232\275\052\310\055\261\034\175\113\121\312\107\321 \110\047\162\135\207\353\325\105\346\110\145\235\257\122\220\272 \133\242\030\145\127\022\237\150\271\324\025\153\224\304\151\042 \230\364\063\340\355\371\121\216\101\120\311\064\117\166\220\254 \374\070\301\330\341\173\271\343\343\224\341\106\151\313\016\012 \120\153\023\272\254\017\067\132\267\022\265\220\201\036\126\256 \127\042\206\331\311\322\321\327\121\343\253\073\306\125\375\036 \016\323\164\012\321\332\252\352\151\270\227\050\217\110\304\007

\370\122\103\072\364\312\125\065\054\260\246\152\300\234\371\362 \201\341\022\152\300\105\331\147\263\316\377\043\242\211\012\124 \133\230\071\304\010\006\301\254\177\016\075\000\245\002\003\001 \000\001\243\124\060\122\060\016\006\003\125\035\017\001\001\377 \004\004\003\002\001\206\060\017\006\003\125\035\023\001\001\377 \004\005\060\003\001\001\377\060\035\006\003\125\035\016\004\026 \004\024\011\313\131\177\206\262\160\217\032\303\071\343\300\331 \351\277\273\115\262\043\060\020\006\011\053\006\001\004\001\202 \067\025\001\004\003\002\001\000\060\015\006\011\052\206\110\206 \367\015\001\001\014\005\000\003\202\002\001\000\254\257\076\135 \302\021\226\211\216\243\347\222\326\227\025\270\023\242\246\102 \056\002\315\026\005\131\047\312\040\350\272\270\350\032\354\115 \250\227\126\256\145\103\261\217\000\233\122\315\125\315\123\071 $\label{eq:155142114213015133174056104277203020217363123202} \\$ \200\303\117\072\307\156\021\077\346\343\026\221\204\373\155\204 $\label{eq:225} $$ 177\064\164\255\211\247\316\271\327\327\237\204\144\222\276\225 $$$ \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 $\label{eq:256} \end{tabular} \end{tabular}$ \270\155\303\012\244\022\301\151\205\156\337\144\361\123\231\341 \112\165\040\235\225\017\344\326\334\003\361\131\030\350\107\211 \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 \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 $\label{eq:164} $$ 10\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 $\label{eq:200} \\ 000 \\ 161 \\ 142 \\ 105 \\ 047 \\ 113 \\ 072 \\ 102 \\ 204 \\ 133 \\ 177 \\ 145 \\ 267 \\ 147 \\ 064 \\ 122 \\ 122 \\ 147 \\ 145 \\ 147 \\ 145 \\ 147 \\ 145 \\ 122 \\ 147 \\ 145 \\ 147 \\ 145 \\ 147 \\ 145 \\ 147 \\ 145 \\ 122 \\ 147 \\ 145 \\ 147 \\ 145 \\ 147 \\ 145 \\ 122 \\ 147 \\ 147 \\ 145 \\ 147 \\ 147 \\ 145 \\ 147 \\ 147 \\ 145 \\ 147 \\ 147 \\ 145 \\ 147 \\ 145 \\ 147 \\ 147 \\ 145 \\ 122 \\ 147 \\ 147 \\ 145 \\ 147 \\$ \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

\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

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\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 $\label{eq:2.1} \end{tabular} \end{tabular}$ $\label{eq:2.1} \end{tabular} \end{tabular}$ \101\124\110\125\055\062\063\065\070\064\064\071\067\061\036\060 \040\122\157\157\164\040\103\101\040\062\060\061\067\060\131\060 \023\006\007\052\206\110\316\075\002\001\006\010\052\206\110\316 \075\003\001\007\003\102\000\004\226\334\075\212\330\260\173\157 $\label{eq:20} \end{tabular} \end{tabular}$ \131\356\143\150\262\306\136\207\320\025\110\036\250\220\255\275 $\label{eq:20} $$ 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 \170\014\261\257\316\306\311\220\357\277\060\004\300\060\012\006 \010\052\206\110\316\075\004\003\002\003\111\000\060\106\002\041 \000\265\127\335\327\212\125\013\066\341\206\104\372\324\331\150 \215\270\334\043\212\212\015\324\057\175\352\163\354\277\115\154 \250\002\041\000\313\245\264\022\372\347\265\350\317\176\223\374 \363\065\217\157\116\132\174\264\274\116\262\374\162\252\133\131 \371\347\334\061 END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA_NSS_EMAIL_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):

BE:B0:0B:30:83:9B:9B:C3:2C:32:E4:44:79:05:95:06:41:F2:64:21:B1:5E:D0:89:19:8B:51:8A:E2:EA:1B:99 # Fingerprint (SHA1): 89:D4:83:03:4F:9E:9A:48:80:5F:72:37:D4:A9:A6:EF:CB:7C:1F:D1

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "e-Szigno Root CA 2017"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL

\211\324\203\003\117\236\232\110\200\137\162\067\324\251\246\357

\313\174\037\321

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL

\336\037\366\236\204\256\247\264\041\316\036\130\175\321\204\230 END

CKA_ISSUER MULTILINE_OCTAL

END

CKA_SERIAL_NUMBER

MULTILINE_OCTAL

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

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 "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

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

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

\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 $\label{eq:103} \\ 103 \\ 105 \\ 122 \\ 124 \\ 123 \\ 111 \\ 107 \\ 116 \\ 040 \\ 123 \\ 101 \\ 061 \\ 034 \\ 060 \\ 032 \\ 032 \\ 040 \\ 123 \\ 101 \\ 061 \\ 034 \\ 060 \\ 032 \\ 040 \\ 123 \\ 101 \\ 061 \\ 034 \\ 060 \\ 032 \\ 040 \\ 103 \\ 101 \\ 061 \\ 034 \\ 060 \\ 032 \\ 040 \\ 103 \\ 101 \\ 061 \\ 034 \\ 060 \\ 032 \\ 040 \\ 103 \\ 101 \\ 061 \\ 034 \\ 060 \\ 032 \\ 060 \\ 000 \\$ \006\003\125\004\013\023\023\143\145\162\164\123\111\107\116\040 \122\117\117\124\040\103\101\040\107\062\060\036\027\015\061\067 \060\062\060\066\060\071\062\067\063\065\132\027\015\064\062\060 \062\060\066\060\071\062\067\063\065\132\060\101\061\013\060\011 \006\003\125\004\006\023\002\122\117\061\024\060\022\006\003\125 \004\012\023\013\103\105\122\124\123\111\107\116\040\123\101\061 \034\060\032\006\003\125\004\013\023\023\143\145\162\164\123\111 $\label{eq:107} $$ 107\16\040\122\117\117\124\040\103\101\040\107\062\060\202\002 $$$ \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 $\label{eq:165} $$ 165 031 221 175 104 164 164 207 376 016 073 226 334 330 001 026 $$$ \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 \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

END

______ \002\011\021\000\064\266\116\306\066\055\066

CKA_VALUE MULTILINE_OCTAL

CKA_SERIAL_NUMBER MULTILINE_OCTAL

END

040107062

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

CKA_ID UIF0 U

CKA ID UTF8 "0"

(040\107\0 END

\040\107\062

 $\label{eq:143} \\ 143 \\ 162 \\ 163 \\ 111 \\ 107 \\ 116 \\ 040 \\ 122 \\ 117 \\ 117 \\ 124 \\ 040 \\ 103 \\ 101 \\$

\254\054\273\056\206\342\243\166\217\345\223\052\317\245\253\310 \134\215\113\006\377\022\106\254\170\313\024\007\065\340\251\337 \213\351\257\025\117\026\211\133\275\366\215\306\131\256\210\205 \016\301\211\353\037\147\305\105\216\377\155\067\066\053\170\146 \203\221\121\053\075\377\121\167\166\142\241\354\147\076\076\201 \203\340\126\251\120\037\037\172\231\253\143\277\204\027\167\361 \015\073\337\367\234\141\263\065\230\212\072\262\354\074\032\067 \077\176\217\222\317\331\022\024\144\332\020\002\025\101\377\117 \304\353\034\243\311\372\231\367\106\351\341\030\331\261\270\062 \055\313\024\014\120\330\203\145\203\356\271\134\317\313\005\132 \114\372\031\227\153\326\135\023\323\302\134\124\274\062\163\240 $\label{eq:170} $$ 170 365 361 155 036 313 237 245 246 237 042 334 321 121 236 202 $$$ \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 \067\054\021\265\202\267\252\256\044\064\133\162\014\151\015\315 \131\237\366\161\257\234\013\321\012\070\371\006\042\203\123\045 \014\374\121\304\346\276\342\071\225\013\044\255\257\321\225\344 \226\327\164\144\153\161\116\002\074\252\205\363\040\243\103\071 $\label{eq:105132111126152322234261143062345141340123042016} \label{eq:105132111126152322234261143062345141340123042016}$ \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 \002\074\246\252\330\274\147\164\075\024\027\373\124\113\027\343 \323\171\075\155\153\111\311\050\016\056\164\120\277\014\331\106 \072\020\206\311\247\077\351\240\354\177\353\245\167\130\151\161 \346\203\012\067\362\206\111\152\276\171\010\220\366\002\026\144 \076\345\332\114\176\014\064\311\371\137\266\263\050\121\247\247 $\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 \066\354\214\270\203\364\075\211\217\315\264\027\136\327\263\027 101020135047163140205127111042007**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 $\label{eq:143} \\ 143 \\ 145 \\ 162 \\ 164 \\ 123 \\ 111 \\ 107 \\ 116 \\ 040 \\ 122 \\ 117 \\ 117 \\ 124 \\ 040 \\ 103 \\ 101 \\$ \040\107\062 **END** CKA_SERIAL_NUMBER MULTILINE_OCTAL \002\011\021\000\064\266\116\306\066\055\066 **END** CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#

Certificate "Trustwave Global Certification Authority"

#

Issuer: CN=Trustwave Global Certification Authority,O="Trustwave Holdings,

Inc.",L=Chicago,ST=Illinois,C=US

Serial Number:05:f7:0e:86:da:49:f3:46:35:2e:ba:b2

Subject: CN=Trustwave Global Certification Authority,O="Trustwave Holdings,

Inc.",L=Chicago,ST=Illinois,C=US

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

Not Valid After : Sat Aug 23 19:34:12 2042

Fingerprint (SHA-256):

97:55:20:15:F5:DD:FC:3C:87:88:C0:06:94:45:55:40:88:94:45:00:84:F1:00:86:70:86:BC:1A:2B:B5:8D:C8

Fingerprint (SHA1): 2F:8F:36:4F:E1:58:97:44:21:59:87:A5:2A:9A:D0:69:95:26:7F:B5

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "Trustwave Global Certification Authority"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL

 $\label{eq:constraint} $$ \ (060\201\200\06\003\125\004\006\023\002\125\123\061\021\060\003\125\004\000\10\011\11\154\151\156\157\151\163\061\020\060\003\125\004\007\014\007\103\150\151\143\141\147\157\061\041\060\037\006\003\125\004\012\014\030\$

\147\163\054\040\111\156\143\056\061\060\057\006\003\125\004

 $\label{eq:1003} \\ 003 \\ 014 \\ 050 \\ 124 \\ 162 \\ 165 \\ 163 \\ 164 \\ 167 \\ 141 \\ 166 \\ 145 \\ 040 \\ 107 \\ 154 \\ 157 \\ 167 \\ 167 \\ 141 \\ 166 \\ 145 \\ 040 \\ 107 \\ 154 \\ 157 \\ 167 \\ 107 \\ 107 \\ 157 \\ 107$

156040101165164150157162151164171

END

CKA_ID

UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

END

CKA_SERIAL_NUMBER

MULTILINE_OCTAL

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

CKA_VALUE MULTILINE_OCTAL

\060\202\005\332\060\202\003\302\240\003\002\001\002\002\014\005 \367\016\206\332\111\363\106\065\056\272\262\060\015\006\011\052 \206\110\206\367\015\001\001\013\005\000\060\201\210\061\013\060 \011\006\003\125\004\006\023\002\125\123\061\021\060\017\006\003 \125\004\010\014\010\111\154\154\151\156\157\151\163\061\020\060 \016\006\003\125\004\007\014\007\103\150\151\143\141\147\157\061 \041\060\037\006\003\125\004\012\014\030\124\162\165\163\164\167 \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 $\label{eq:145}040\107\154\157\142\141\154\040\103\145\162\164\151\146\151$ $\label{eq:143} \\ 143 \\ 141 \\ 164 \\ 151 \\ 157 \\ 156 \\ 040 \\ 101 \\ 165 \\ 164 \\ 150 \\ 157 \\ 162 \\ 151 \\ 164 \\ 171 \\ 164 \\ 164 \\ 164 \\ 171 \\ 164 \\$ \060\202\002\042\060\015\006\011\052\206\110\206\367\015\001\001 \001\005\000\003\202\002\017\000\060\202\002\012\002\202\002\001 \000\271\135\121\050\113\074\067\222\321\202\316\275\035\275\315 \335\270\253\317\012\076\341\135\345\334\252\011\271\127\002\076 \346\143\141\337\362\017\202\143\256\243\367\254\163\321\174\347 \263\013\257\010\000\011\131\177\315\051\052\210\223\207\027\030 \200\355\210\262\264\266\020\037\055\326\137\125\242\023\135\321 \306\353\006\126\211\210\376\254\062\235\375\134\303\005\307\156 \356\206\211\272\210\003\235\162\041\206\220\256\217\003\245\334 \237\210\050\313\243\222\111\017\354\320\017\342\155\104\117\200 \152\262\324\347\240\012\123\001\272\216\227\221\166\156\274\374 \325\153\066\346\100\210\326\173\057\137\005\350\054\155\021\363 \347\262\276\222\104\114\322\227\244\376\322\162\201\103\007\234 \351\021\076\365\213\032\131\175\037\150\130\335\004\000\054\226 \363\103\263\176\230\031\164\331\234\163\331\030\276\101\307\064 \171\331\364\142\302\103\271\263\047\260\042\313\371\075\122\307 \060\107\263\311\076\270\152\342\347\350\201\160\136\102\213\117 \046\245\376\072\302\040\156\273\370\026\216\315\014\251\264\033 \154\166\020\341\130\171\106\076\124\316\200\250\127\011\067\051 \033\231\023\217\014\310\326\054\034\373\005\350\010\225\075\145 $\label{eq:106} \end{tabular} 106\334\356\315\151\342\115\217\207\050\116\064\013\076\317\024$ \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 $\label{eq:204} $$ \204\215\025\162\174\241\357\314\362\210\141\272\364\151\273\014$ \214\013\165\127\004\270\116\052\024\056\075\017\034\036\062\246 \142\066\356\146\342\042\270\005\100\143\020\042\363\063\035\164

\162\212\054\365\071\051\240\323\347\033\200\204\055\305\075\343 \115\261\375\032\157\272\145\007\073\130\354\102\105\046\373\330 \332\045\162\304\366\000\261\042\171\275\343\174\131\142\112\234 \005\157\075\316\346\326\107\143\231\306\044\157\162\022\310\254 \177\220\264\013\221\160\350\267\346\026\020\161\027\316\336\006 \117\110\101\175\065\112\243\211\362\311\113\173\101\021\155\147 \267\010\230\114\345\021\031\256\102\200\334\373\220\005\324\370 \120\312\276\344\255\307\302\224\327\026\235\346\027\217\257\066 \373\002\003\001\000\001\243\102\060\100\060\017\006\003\125\035 \023\001\001\377\004\005\060\003\001\001\377\060\035\006\003\125 $\label{eq:26} \end{tabular} \end{tabular}$ \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 $\label{eq:117} $$ 17\307\076\051\333\155\130\203\124\075\207\175\043\005\324\344 $$$ \034\334\350\070\145\206\305\165\247\132\333\065\005\275\167\336 \273\051\067\100\005\007\303\224\122\237\312\144\335\361\033\053 \334\106\012\020\002\061\375\112\150\015\007\144\220\346\036\365 \052\241\250\273\074\135\371\243\010\013\021\014\361\077\055\020 \224\157\376\342\064\207\203\326\317\345\033\065\155\322\003\341 \260\015\250\240\252\106\047\202\066\247\025\266\010\246\102\124 \127\266\231\132\342\013\171\220\327\127\022\121\065\031\210\101 \150\045\324\067\027\204\025\373\001\162\334\225\336\122\046\040 \230\046\342\166\365\047\157\372\000\073\112\141\331\015\313\121 \223\052\375\026\006\226\247\043\232\043\110\376\121\275\266\304 \260\261\124\316\336\154\101\255\026\147\176\333\375\070\315\271 \070\116\262\301\140\313\235\027\337\130\236\172\142\262\046\217 \164\225\233\344\133\035\322\017\335\230\034\233\131\271\043\323 \366\231\231\235\272\066\266\200\057\210\107\117\206\277\104\072 \200\344\067\034\246\272\352\227\230\021\320\204\142\107\144\036 \252\356\100\277\064\261\234\217\116\341\362\222\117\037\216\363 \236\227\336\363\246\171\152\211\161\117\113\047\027\110\376\354 \364\120\017\117\111\175\314\105\343\275\172\100\305\101\334\141 \126\047\006\151\345\162\101\201\323\266\001\211\240\057\072\162 $\label{eq:171} $$ 171\376\072\060\277\101\354\307\142\076\221\113\307\331\061\166\8\\$ $\label{eq:102} \end{tabular} 102 \end{tabular}$ \207\250\302\047\174\341\063\101\017\317\317\374\000\240\042\200 \236\112\247\157\000\260\101\105\267\042\312\150\110\305\102\242 256\335\035\362\340\156\116\005\130\261\300\220\026\052\244\075 \020\100\276\217\142\143\203\251\234\202\175\055\002\351\203\060 \174\313\047\311\375\036\146\000\260\056\323\041\057\216\063\026 $\label{eq:23} $$ 154\230\355\020\250\007\326\314\223\317\333\321\151\034\344\312$ \311\340\266\234\351\316\161\161\336\154\077\026\244\171 END

CKA_NSS_MOZILLA_CA_POLICY

CK_BBOOL CK_TRUE CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "Trustwave Global Certification Authority" # Issuer: CN=Trustwave Global Certification Authority,O="Trustwave Holdings, Inc.",L=Chicago,ST=Illinois,C=US # Serial Number:05:f7:0e:86:da:49:f3:46:35:2e:ba:b2 # Subject: CN=Trustwave Global Certification Authority,O="Trustwave Holdings, Inc.",L=Chicago,ST=Illinois,C=US # Not Valid Before: Wed Aug 23 19:34:12 2017 # Not Valid After : Sat Aug 23 19:34:12 2042 # Fingerprint (SHA-256): 97:55:20:15:F5:DD:FC:3C:87:88:C0:06:94:45:55:40:88:94:45:00:84:F1:00:86:70:86:BC:1A:2B:B5:8D:C8 # Fingerprint (SHA1): 2F:8F:36:4F:E1:58:97:44:21:59:87:A5:2A:9A:D0:69:95:26:7F:B5 CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST CKA TOKEN CK BBOOL CK TRUE CKA_PRIVATE CK_BBOOL CK_FALSE CKA_MODIFIABLE CK_BBOOL CK_FALSE CKA LABEL UTF8 "Trustwave Global Certification Authority" CKA_CERT_SHA1_HASH MULTILINE_OCTAL \225\046\177\265 END CKA CERT MD5 HASH MULTILINE OCTAL \370\034\030\055\057\272\137\155\241\154\274\307\253\221\307\016 **END** CKA ISSUER MULTILINE OCTAL \060\201\210\061\013\060\011\006\003\125\004\006\023\002\125\123 $\label{eq:2.1} \end{tabular} \end{tabular}$ \157\151\163\061\020\060\016\006\003\125\004\007\014\007\103\150 \147\163\054\040\111\156\143\056\061\061\060\057\006\003\125\004 $\label{eq:2.165} \\ 003 \\ 014 \\ 050 \\ 124 \\ 162 \\ 165 \\ 163 \\ 164 \\ 167 \\ 141 \\ 166 \\ 145 \\ 040 \\ 107 \\ 154 \\ 157$ \156\040\101\165\164\150\157\162\151\164\171 **END** CKA_SERIAL_NUMBER MULTILINE_OCTAL \002\014\005\367\016\206\332\111\363\106\065\056\272\262 END CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

```
#
```

```
# Certificate "Trustwave Global ECC P256 Certification Authority"
```

#

Issuer: CN=Trustwave Global ECC P256 Certification Authority,O="Trustwave Holdings,

Inc.",L=Chicago,ST=Illinois,C=US

Serial Number:0d:6a:5f:08:3f:28:5c:3e:51:95:df:5d

Subject: CN=Trustwave Global ECC P256 Certification Authority,O="Trustwave Holdings,

Inc.",L=Chicago,ST=Illinois,C=US

Not Valid Before: Wed Aug 23 19:35:10 2017

Not Valid After : Sat Aug 23 19:35:10 2042

Fingerprint (SHA-256):

94:5B:BC:82:5E:A5:54:F4:89:D1:FD:51:A7:3D:DF:2E:A6:24:AC:70:19:A0:52:05:22:5C:22:A7:8C:CF:A8:B4 #

Fingerprint (SHA1): B4:90:82:DD:45:0C:BE:8B:5B:B1:66:D3:E2:A4:08:26:CD:ED:42:CF

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "Trustwave Global ECC P256 Certification Authority"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL

\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

 $\label{eq:124} $$ 163\164\167\141\166\145\040\110\157\154\144\151\156\147\163\054\040\111\156\143\056\061\072\060\070\006\003\125\004 $$$

\003\023\061\124\162\165\163\164\167\141\166\145\040\107\154\157

\142\141\154\040\105\103\103\040\120\062\065\066\040\103\145\162

\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157

162 151 164 171

END

CKA_ID

UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

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 $\label{eq:125} $$ 125\004\006\023\002\125\123\061\021\060\017\006\003\125\004\010 $$$ \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 \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 $\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\062\065\066\040\103\145\162\164\151\146\151\143 $\label{eq:141} $$ 141\164\151\157\156\040\101\165\164\150\157\162\151\164\171\060\157\162\151\164\171\060\157\162\151\164\171\060\157\162\151\164\171\060\157\162\151\164\171\060\157\162\151\164\171\060\157\162\151\164\171\060\157\162\151\164\17$ \131\060\023\006\007\052\206\110\316\075\002\001\006\010\052\206 \110\316\075\003\001\007\003\102\000\004\176\373\154\346\043\343 $\label{eq:163} $$ 163\062\010\312\140\346\123\234\272\164\215\030\260\170\220\122 $$$ \200\335\070\300\112\035\321\250\314\223\244\227\006\070\312\015 \025\142\306\216\001\052\145\235\252\337\064\221\056\201\301\344 \063\222\061\304\375\011\072\246\077\255\243\103\060\101\060\017 \006\003\125\035\023\001\001\377\004\005\060\003\001\001\377\060 \017\006\003\125\035\017\001\001\377\004\005\003\003\007\006\000 \060\035\006\003\125\035\016\004\026\004\024\243\101\006\254\220 \155\321\112\353\165\245\112\020\231\263\261\241\213\112\367\060 \012\006\010\052\206\110\316\075\004\003\002\003\107\000\060\104 \002\040\007\346\124\332\016\240\132\262\256\021\237\207\305\266 $\label{eq:377} $$ 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

END

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

 $\label{eq:133} $$ 104343215135066206046350015005322131247203124 END $$$

CKA_ISSUER MULTILINE_OCTAL

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,

\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 $\label{eq:164} \\ 151 \\ 146 \\ 151 \\ 143 \\ 141 \\ 164 \\ 151 \\ 157 \\ 156 \\ 040 \\ 101 \\ 165 \\ 164 \\ 150 \\ 157 \\ 157 \\ 156 \\ 040 \\ 101 \\ 165 \\ 164 \\ 150 \\ 157 \\ 157 \\ 156 \\ 040 \\ 101 \\ 165 \\ 164 \\ 150 \\ 157 \\ 157 \\ 156 \\ 164 \\ 151 \\ 157 \\ 156 \\ 164 \\ 151 \\ 157 \\ 156 \\ 164 \\ 151 \\ 157 \\ 156 \\ 164 \\ 151 \\ 157 \\ 156 \\ 164 \\ 151 \\ 157 \\ 156 \\ 164 \\ 151 \\ 157 \\ 156 \\ 164 \\ 151 \\ 157 \\ 156 \\ 164 \\ 151 \\ 157 \\ 156 \\ 164 \\ 151 \\ 157 \\ 156 \\ 164 \\ 151 \\ 157 \\ 156 \\ 164 \\ 151 \\ 157 \\ 156 \\ 164 \\ 151 \\ 157 \\ 156 \\ 164 \\ 151 \\ 157 \\ 157 \\ 156 \\ 164 \\ 151 \\ 157 \\ 157 \\ 156 \\ 164 \\ 151 \\ 157 \\ 157 \\ 156 \\ 164 \\ 151 \\ 157 \\ 157 \\ 156 \\ 164 \\ 151 \\ 157 \\ 157 \\ 156 \\ 164 \\ 151 \\ 157 \\ 157 \\ 156 \\ 164 \\ 151 \\ 157 \\ 157 \\ 156 \\ 164 \\ 151 \\ 157 \\ 157 \\ 156 \\ 164 \\ 157 \\ 157 \\ 157 \\ 156 \\ 164 \\ 150 \\ 157 \\ 157 \\ 156 \\ 157 \\$ \162\151\164\171 **END** CKA_SERIAL_NUMBER MULTILINE_OCTAL \002\014\010\275\205\227\154\231\047\244\200\150\107\073 **END** CKA_VALUE MULTILINE_OCTAL \060\202\002\235\060\202\002\044\240\003\002\001\002\002\014\010 \275\205\227\154\231\047\244\200\150\107\073\060\012\006\010\052

CKA ID UTF8 "0" CKA ISSUER MULTILINE OCTAL \060\201\221\061\013\060\011\006\003\125\004\006\023\002\125\123 \061\021\060\017\006\003\125\004\010\023\010\111\154\154\151\156 \157\151\163\061\020\060\016\006\003\125\004\007\023\007\103\150 \151\143\141\147\157\061\041\060\037\006\003\125\004\012\023\030 \147\163\054\040\111\156\143\056\061\072\060\070\006\003\125\004

\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\063\070\064\040\103\145\162 $\label{eq:164} \\ 151 \\ 146 \\ 151 \\ 143 \\ 141 \\ 164 \\ 151 \\ 157 \\ 156 \\ 040 \\ 101 \\ 165 \\ 164 \\ 150 \\ 157 \\ 157 \\ 156 \\ 040 \\ 101 \\ 165 \\ 164 \\ 150 \\ 157 \\ 157 \\ 156 \\ 040 \\ 101 \\ 165 \\ 164 \\ 150 \\ 157 \\ 157 \\ 156 \\ 164 \\ 151 \\ 157 \\ 156 \\ 164 \\ 151 \\ 157 \\ 156 \\ 164 \\ 151 \\ 157 \\ 156 \\ 164 \\ 151 \\ 157 \\ 156 \\ 164 \\ 151 \\ 157 \\ 156 \\ 164 \\ 151 \\ 157 \\ 156 \\ 164 \\ 151 \\ 157 \\ 156 \\ 164 \\ 151 \\ 157 \\ 156 \\ 164 \\ 151 \\ 157 \\ 156 \\ 164 \\ 151 \\ 157 \\ 156 \\ 164 \\ 151 \\ 157 \\ 156 \\ 164 \\ 151 \\ 157 \\ 156 \\ 164 \\ 151 \\ 157 \\ 157 \\ 156 \\ 164 \\ 151 \\ 157 \\ 157 \\ 156 \\ 164 \\ 151 \\ 157 \\ 157 \\ 156 \\ 164 \\ 151 \\ 157 \\ 157 \\ 156 \\ 164 \\ 151 \\ 157 \\ 157 \\ 156 \\ 164 \\ 151 \\ 157 \\ 157 \\ 156 \\ 164 \\ 151 \\ 157 \\ 157 \\ 156 \\ 164 \\ 151 \\ 157 \\ 157 \\ 156 \\ 164 \\ 157 \\ 157 \\ 157 \\ 156 \\ 164 \\ 150 \\ 157 \\ 157 \\ 156 \\ 157 \\$ \162\151\164\171

CKA_SUBJECT MULTILINE_OCTAL

CKA CERTIFICATE TYPE CK CERTIFICATE TYPE CKC X 509

CKA_LABEL UTF8 "Trustwave Global ECC P384 Certification Authority"

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

(SHA1): E7:F3:A3:C8:CF:6F:C3:04:2E:6D:0E:67:32:C5:9E:68:95:0D:5E:D2

Fingerprint

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 (SHA-256):

END

Not Valid After : Sat Aug 23 19:36:43 2042

Not Valid Before: Wed Aug 23 19:36:43 2017

Inc.",L=Chicago,ST=Illinois,C=US

Subject: CN=Trustwave Global ECC P384 Certification Authority,O="Trustwave Holdings,

Serial Number:08:bd:85:97:6c:99:27:a4:80:68:47:3b

Inc.",L=Chicago,ST=Illinois,C=US

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 \125\004\007\023\007\103\150\151\143\141\147\157\061\041\060\037 \006\003\125\004\012\023\030\124\162\165\163\164\167\141\166\145 \040\110\157\154\144\151\156\147\163\054\040\111\156\143\056\061 \072\060\070\006\003\125\004\003\023\061\124\162\165\163\164\167 \141\166\145\040\107\154\157\142\141\154\040\105\103\103\040\120 \063\070\064\040\103\145\162\164\151\146\151\143\141\164\151\157 \156\040\101\165\164\150\157\162\151\164\171\060\036\027\015\061 \067\060\070\062\063\061\071\063\066\064\063\132\027\015\064\062 \060\070\062\063\061\071\063\066\064\063\132\060\201\221\061\013 \060\011\006\003\125\004\006\023\002\125\123\061\021\060\017\006 $\label{eq:2.1} \end{tabular} \end{tabular}$ \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 \156\143\056\061\072\060\070\006\003\125\004\003\023\061\124\162 $\label{eq:165} $$ 163 164 167 141 166 145 040 107 154 157 142 141 154 040 105 $$$ $\label{eq:103103040120063070064040103145162164151146151143} \\$ $\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 \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 $\label{eq:20} \end{tabular} \end{tabular}$ \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

 $\label{eq:243} 347 \\ 363 \\ 243 \\ 310 \\ 317 \\ 157 \\ 303 \\ 004 \\ 056 \\ 155 \\ 016 \\ 147 \\ 062 \\ 305 \\ 236 \\ 150 \\ 150 \\ 150 \\ 150 \\ 147 \\ 1062 \\ 305 \\ 236 \\ 150 \\ 150 \\ 150 \\ 150 \\ 106 \\ 147 \\ 1062 \\ 106 \\$

\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

162 151 164 171

END

CKA_SERIAL_NUMBER

MULTILINE_OCTAL

 $\label{eq:2.1} \end{tabular} $$ \02\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

CKA_VALUE MULTILINE_OCTAL \060\202\005\242\060\202\003\212\240\003\002\001\002\002\024\001 \224\060\036\242\013\335\365\305\063\052\261\103\104\161\370\326 \120\115\015\060\015\006\011\052\206\110\206\367\015\001\001\014 \005\000\060\151\061\013\060\011\006\003\125\004\006\023\002\113 \122\061\046\060\044\006\003\125\004\012\014\035\116\101\126\105 \122\040\102\125\123\111\116\105\123\123\040\120\114\101\124\106 \117\122\115\040\103\157\162\160\056\061\062\060\060\006\003\125 $\label{eq:2.1} \end{tabular} \end{tabular}$ $\label{eq:1040} \\ (040) \\ 122) \\ 157) \\ 164) \\ 040) \\ 103) \\ 145) \\ 162) \\ 164) \\ 151) \\ 146) \\ 151) \\ 143) \\ 141) \\ 164$

END

 $161\370\326\120\115\015$

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

CKA SERIAL NUMBER

CKA ID UTF8 "0"

END

CKA_ISSUER MULTILINE_OCTAL

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

\060\151\061\013\060\011\006\003\125\004\006\023\002\113\122\061 \046\060\044\006\003\125\004\012\014\035\116\101\126\105\122\040

\102\125\123\111\116\105\123\123\040\120\114\101\124\106\117\122 \115\040\103\157\162\160\056\061\062\060\060\006\003\125\004\003 $\label{eq:101} \end{tabular} \end{tabular}$

\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 \014\051\116\101\126\105\122\040\107\154\157\142\141\154\040\122

CKA_SUBJECT MULTILINE_OCTAL

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA LABEL UTF8 "NAVER Global Root Certification Authority"

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA TOKEN CK BBOOL CK TRUE

Not Valid After : Tue Aug 18 23:59:59 2037

Fingerprint (SHA-256):

Not Valid Before: Fri Aug 18 08:58:42 2017

Subject: 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

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

\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 $\label{eq:103} \\ 145 \\ 162 \\ 164 \\ 151 \\ 146 \\ 151 \\ 143 \\ 141 \\ 164 \\ 151 \\ 157 \\ 156 \\ 040 \\ 101 \\$ \165\164\150\157\162\151\164\171\060\202\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 $\label{eq:162} $$ 112311146323064227366214364030112341320075132105 $$$ \266\151\247\051\373\043\316\210\330\022\234\000\110\250\246\017 \263\073\222\215\161\016\164\305\213\310\114\371\364\233\216\270 \074\151\355\157\073\120\057\130\355\304\260\320\034\033\152\014 \342\274\104\252\330\315\024\135\224\170\141\277\016\156\332\052 \274\057\014\013\161\246\263\026\077\234\346\371\314\237\123\065 \342\003\240\240\030\277\273\361\276\364\326\214\207\015\102\367 \006\271\361\155\355\004\224\250\376\266\323\006\306\100\141\337 \235\235\363\124\166\316\123\072\001\246\222\101\354\004\243\217 \015\242\325\011\312\326\313\232\361\357\103\135\300\253\245\101 \317\134\123\160\160\311\210\246\055\324\153\141\163\120\046\206 \141\016\137\033\302\053\342\214\325\273\235\301\003\102\272\224 \332\137\251\260\312\314\115\012\357\107\151\003\057\042\373\361 \050\316\277\135\120\145\250\220\155\263\164\260\010\307\254\250 \321\353\076\234\374\135\032\203\056\053\313\265\363\104\235\072 \247\027\141\226\242\161\323\160\226\025\115\267\114\163\356\031 $\label{eq:134} \\ 134 \\ 305 \\ 133 \\ 076 \\ 101 \\ 376 \\ 254 \\ 165 \\ 140 \\ 073 \\ 033 \\ 143 \\ 316 \\ 000 \\ 335 \\ 332 \\ 143 \\ 143 \\ 143 \\ 160 \\ 000 \\ 335 \\ 332 \\ 143 \\$ \010\220\142\264\345\055\356\110\247\153\027\231\124\276\207\112 \343\251\136\004\114\353\020\155\124\326\357\361\350\362\142\026 \313\200\153\355\075\355\365\037\060\245\256\113\311\023\355\212 \001\001\311\270\121\130\300\146\072\261\146\113\304\325\061\002 \142\351\164\204\014\333\115\106\055\002\003\001\000\001\243\102 \060\100\060\035\006\003\125\035\016\004\026\004\024\322\237\210 \337\241\315\054\275\354\365\073\001\001\223\063\047\262\353\140 \113\060\016\006\003\125\035\017\001\001\377\004\004\003\002\001 \006\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001

\001\377\060\015\006\011\052\206\110\206\367\015\001\001\014\005 \000\003\202\002\001\000\062\312\200\263\235\075\124\006\335\322 \322\056\360\244\001\041\013\147\110\312\155\216\340\310\252\015 $\label{eq:252} $$ $$ 252 $$ 041 $$ 127 $$ 217 $$ 306 $$ 076 $$ 172 $$ 312 $$ 333 $$ 121 $$ 24122 $$ 263 $$ 2426 $$ 265$ \204\245\130\140\177\345\013\216\037\365\334\012\025\201\345\073 \266\267\042\057\011\234\023\026\261\154\014\065\010\155\253\143 \162\355\334\276\354\307\127\346\060\040\161\326\327\020\301\023 \005\015\070\337\002\273\020\056\331\073\322\233\172\300\241\246 \370\265\061\346\364\165\311\271\123\231\165\107\042\132\024\025 \022\357\244\342\020\227\172\170\336\014\121\227\250\041\100\213 \206\275\015\360\136\116\113\066\273\073\040\037\212\102\126\341 \013\032\277\173\320\042\103\054\104\214\373\345\052\264\154\034 \224\173\010\045\310\161\314\207\105\127\205\323\237\051\142\042 $\label{eq:203} $$ 203\121\227\000\030\227\167\152\230\222\311\174\140\154\337\154\33\154\337\154\337\154\337\154\337\154\337\154\337\154\337\154\337\154\337\154\337\154\337\154\337\154\337\154\337\154\337\154\337\154\337\154\337\154\33\154\33\154\337\154\337\154\337\154\337\154\337\154\337\154\337\154\337\154\337\154\337\154\337\154\337\154\33\154\3\154\33\154\3\154\33\154\3\15\154\3\154\3\154\3\154\3\154\3\154\3\154\3\154\3\154\3$ \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 $\label{eq:101} \end{tabular} 101 \end{tabular}$ \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 \226\065\307\373\043\201\216\070\071\270\105\053\103\170\242\321 $\label{eq:225} $$ 054 024 377 015 050 162 162 225 233 136 011 333 211 104 230 252 $$$ \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 $\label{eq:235} \\ 335 \\ 232 \\ 346 \\ 052 \\ 207 \\ 261 \\ 230 \\ 124 \\ 361 \\ 042 \\ 367 \\ 153 \\ 105 \\ 343 \\ 342 \\ 216 \\ 105 \\$ $\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\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 \102\125\123\111\116\105\123\123\040\120\114\101\124\106\117\122 \115\040\103\157\162\160\056\061\062\060\060\006\003\125\004\003 $\label{eq:101} \end{tabular} \end{tabular}$ \156\040\101\165\164\150\157\162\151\164\171 **END** CKA SERIAL NUMBER MULTILINE_OCTAL \002\024\001\224\060\036\242\013\335\365\305\063\052\261\103\104 \161\370\326\120\115\015 END CKA TRUST SERVER AUTH CK TRUST CKT NSS TRUSTED DELEGATOR CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE # # Certificate "AC RAIZ FNMT-RCM SERVIDORES SEGUROS" # Issuer: CN=AC RAIZ FNMT-RCM SERVIDORES SEGUROS.OID.2.5.4.97=VATES-Q2826004J,OU=Ceres,O=FNMT-RCM,C=ES # Serial Number:62:f6:32:6c:e5:c4:e3:68:5c:1b:62:dd:9c:2e:9d:95 # Subject: CN=AC RAIZ FNMT-RCM SERVIDORES SEGUROS,OID.2.5.4.97=VATES-Q2826004J,OU=Ceres,O=FNMT-RCM,C=ES # Not Valid Before: Thu Dec 20 09:37:33 2018 # Not Valid After : Sun Dec 20 09:37:33 2043 # Fingerprint (SHA-256): 55:41:53:B1:3D:2C:F9:DD:B7:53:BF:BE:1A:4E:0A:E0:8D:0A:A4:18:70:58:FE:60:A2:B8:62:B2:E4:B8:7B:CB # Fingerprint (SHA1): 62:FF:D9:9E:C0:65:0D:03:CE:75:93:D2:ED:3F:2D:32:C9:E3:E5:4A CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

END CKA VALUE MULTILINE OCTAL \060\202\002\156\060\202\001\363\240\003\002\001\002\002\020\142 \366\062\154\345\304\343\150\134\033\142\335\234\056\235\225\060 \012\006\010\052\206\110\316\075\004\003\003\060\170\061\013\060 \011\006\003\125\004\006\023\002\105\123\061\021\060\017\006\003 \125\004\012\014\010\106\116\115\124\055\122\103\115\061\016\060 \014\006\003\125\004\013\014\005\103\145\162\145\163\061\030\060 $\label{eq:2.1} \end{tabular} $$ \006\003\125\004\141\014\017\126\101\124\105\123\055\121\062 $$$ \070\062\066\060\060\064\112\061\054\060\052\006\003\125\004\003 $\label{eq:101} $$ 040\122\101\11\132\040\106\116\115\124\055\122 $$$ \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

\002\020\142\366\062\154\345\304\343\150\134\033\142\335\234\056 \235\225

MULTILINE_OCTAL

CKA SERIAL NUMBER

\021\060\017\006\003\125\004\012\014\010\106\116\115\124\055\122 $\label{eq:103115061016060014006003125004013014005103145162} \label{eq:103115061016060014006003125004013014005103145162}$ \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\170\061\013\060\011\006\003\125\004\006\023\002\105\123\061

CKA_ISSUER MULTILINE_OCTAL

CKA ID UTF8 "0"

END

\060\170\061\013\060\011\006\003\125\004\006\023\002\105\123\061 \021\060\017\006\003\125\004\012\014\010\106\116\115\124\055\122 \103\115\061\016\060\014\006\003\125\004\013\014\005\103\145\162 \145\163\061\030\060\026\006\003\125\004\141\014\017\126\101\124 \105\123\055\121\062\070\062\066\060\060\064\112\061\054\060\052 \006\003\125\004\003\014\043\101\103\040\122\101\111\132\040\106 \116\115\124\055\122\103\115\040\123\105\122\126\111\104\117\122 105123040123105107125122117123END

CKA LABEL UTF8 "AC RAIZ FNMT-RCM SERVIDORES SEGUROS" CKA CERTIFICATE TYPE CK CERTIFICATE TYPE CKC X 509 CKA SUBJECT MULTILINE OCTAL

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

CKA TOKEN CK BBOOL CK TRUE

\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 $\label{eq:101111132040106116115124055122103115040123105122} \label{eq:101111132040106116115124055122103115040123105122}$ $\label{eq:111} $$ 126\111\104\117\122\105\123\040\123\105\107\125\122\117\123\060 $$$ \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 $\label{eq:2.10} \end{tabular} \end{tabular$ \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 \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 $\label{eq:22} \end{tabular} \end{tabular}$ \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 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

\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

 $\label{eq:2.105} \end{tabular} \end{tabula$

 $\label{eq:2.141} \end{tabular} \end{tabula$

 $\label{eq:123} \\ 123 \\ 151 \\ 147 \\ 156 \\ 040 \\ 156 \\ 166 \\ 055 \\ 163 \\ 141 \\ 061 \\ 050 \\ 060 \\ 046 \\ 006 \\ 003 \\ 000 \\ 003 \\ 000 \\$

Open Source Used In vmoperator Crafton-3.0 980

\060\202\005\160\060\202\003\130\240\003\002\001\002\002\020\166 \123\376\250\114\120\253\237\215\062\265\035\003\217\127\334\060 \015\006\011\052\206\110\206\367\015\001\001\014\005\000\060\122 \061\013\060\011\006\003\125\004\006\023\002\102\105\061\031\060 \027\006\003\125\004\012\023\020\107\154\157\142\141\154\123\151 \147\156\040\156\166\055\163\141\061\050\060\046\006\003\125\004 \003\023\037\107\154\157\142\141\154\123\151\147\156\040\123\145 \143\165\162\145\040\115\141\151\154\040\122\157\157\164\040\122 \064\065\060\036\027\015\062\060\063\061\070\060\060\060\060 \060\060\132\027\015\064\065\060\063\061\070\060\060\060\060\060 \060\132\060\122\061\013\060\011\006\003\125\004\006\023\002\102 $\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\050\060\046 \006\003\125\004\003\023\037\107\154\157\142\141\154\123\151\147 \156\040\123\145\143\165\162\145\040\115\141\151\154\040\122\157 \157\164\040\122\064\065\060\202\002\042\060\015\006\011\052\206 \110\206\367\015\001\001\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:225} $$ 162\277\177\142\235\205\251\212\044\120\137\123\345\333 $$$ \164\157\244\051\133\023\052\011\255\232\305\057\302\367\166\073 \241\105\106\252\103\346\044\376\053\260\157\062\160\031\106\132 \171\046\057\374\075\175\137\144\313\127\314\141\141\250\331\225 \156\343\225\240\156\177\107\022\030\326\357\003\311\373\212\372 \232\275\202\025\251\125\167\113\021\117\131\340\153\303\161\363 \014\330\124\325\201\150\076\023\271\025\056\207\212\074\104\047 \066\142\044\156\370\054\005\162\060\141\275\102\221\043\304\235 \045\247\331\124\232\024\243\061\255\200\171\014\247\143\154\230 \243\254\127\107\063\037\145\226\341\320\322\065\332\371\161\367

END

CKA VALUE MULTILINE OCTAL

\127\334

CKA_SERIAL_NUMBER MULTILINE_OCTAL \002\020\166\123\376\250\114\120\253\237\215\062\265\035\003\217

END

\040\122\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 $\label{eq:125} 004 003 023 037 107 154 157 142 141 154 123 151 147 156 040$ $\label{eq:123} 145 143 165 162 145 040 115 141 151 154 040 122 157 157 164$

UTF8 "0"

CKA ID

END

\040\122\064\065

\125\004\003\023\037\107\154\157\142\141\154\123\151\147\156\040 $\label{eq:123} 145 143 165 162 145 040 115 141 151 154 040 122 157 157 164$

\241\246\045\265\101\135\337\076\140\330\321\366\237\245\362\270 \314\023\252\217\371\262\156\341\203\055\223\335\076\205\032\335 \350\261\134\046\001\313\111\205\374\374\322\324\177\205\142\206 \164\371\313\354\065\042\242\014\060\217\073\253\171\353\126\362 \372\102\363\355\371\037\105\211\100\051\255\352\222\164\352\122 \375\126\264\053\332\242\355\165\302\156\253\316\122\220\113\366 \336\360\111\217\232\110\324\210\031\155\105\346\314\214\271\335 \144\140\140\002\100\370\271\317\274\130\353\075\205\271\306\012 \323\234\007\146\217\307\030\071\043\106\341\074\036\243\057\120 \141\222\013\075\053\154\361\243\107\070\127\221\253\015\217\306 \235\115\004\322\046\122\134\345\245\375\052\055\026\052\001\151 \347\251\175\341\066\267\261\052\305\331\261\215\275\271\213\316 \314\213\241\076\013\110\315\120\225\064\304\330\010\131\330\153 \046\364\276\365\324\042\027\000\127\311\256\233\004\060\063\237 \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 \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 $\label{eq:106} $$ 102\010\006\107\144\027\170\340\225\007\006\326\214\242\254\$ \251\331\077\323\173\126\117\374\304\207\050\337\266\053\026\043 \300\237\037\133\343\326\104\136\042\117\043\004\214\065\026\265 \171\007\206\134\057\227\342\366\010\144\246\334\333\250\212\343 \244\173\167\015\321\051\223\050\040\264\123\243\113\116\137\336 \301\366\165\043\374\037\074\170\117\160\061\170\057\242\065\124 \161\004\254\310\304\155\303\366\221\261\376\315\356\104\156\201 \366\100\305\076\052\001\277\253\114\261\003\077\015\021\344\017 $\label{eq:22} \\ 322 \\ 044 \\ 343 \\ 042 \\ 210 \\ 233 \\ 237 \\ 137 \\ 107 \\ 075 \\ 121 \\ 111 \\ 340 \\ 011 \\ 067 \\ 176 \\$ \027\041\061\166\267\147\161\110\050\113\045\327\020\350\237\141 \131\026\305\076\062\116\037\014\316\243\314\017\344\307\021\007 \042\057\070\010\335\133\227\353\102\154\131\232\232\356\172\320 \235\337\305\333\011\103\056\012\252\031\075\153\350\152\060\172 \127\346\277\263\152\071\251\217\343\361\117\145\150\266\275\237 \050\217\241\026\132\011\120\072\062\056\035\057\104\021\102\246 \000\346\061\230\377\055\241\017\346\244\140\126\317\171\327\262 \116\327\260\372\156\014\127\043\307\316\037\245\261\114\155\031 $\label{eq:111} $$ 111236016177160217161077130050237165335141340072 $$$

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

\175\201\060\240

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL

 $\label{eq:223} $$ \frac{123}{304}173}263\\016\\124\\107\\034\\103\\054\\213\\276\\160\\205\\142\\051\\END$

CKA_ISSUER MULTILINE_OCTAL

\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\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_IKUSI_CODL_SIGNING CK_IKUSI CKI_NSS_WUSI_VLKI I

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

 $\label{eq:2.105} \end{tabular} \end{tabula$

\031\060\027\006\003\125\004\012\023\020\107\154\157\142\141\154

 $\label{eq:123} $$ 151\147\156\040\156\166\055\163\141\061\050\060\046\006\003 $$$

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

040105064065

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

\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

\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 $\label{eq:125} 004 012 023 020 107 154 157 142 141 154 123 151 147 156 040$ \156\166\055\163\141\061\050\060\046\006\003\125\004\003\023\037 $\label{eq:107} $$ 107\154\157\142\141\154\123\151\147\156\040\123\145\143\165\162 $$ $\label{eq:145} $$ 141\151\154\040\122\157\157\164\040\105\064\065\060 $$$ \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 $\label{eq:151147156040156166055163141061050060046006003125}$ $\label{eq:2.1} \end{tabular} \end{tabular}$ \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 \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

CKA VALUE MULTILINE OCTAL

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 # # Certificate "GlobalSign Root R46" # # Issuer: CN=GlobalSign Root R46,O=GlobalSign nv-sa,C=BE # Serial Number:11:d2:bb:b9:d7:23:18:9e:40:5f:0a:9d:2d:d0:df:25:67:d1 # Subject: CN=GlobalSign Root R46,O=GlobalSign nv-sa,C=BE # Not Valid Before: Wed Mar 20 00:00:00 2019 # Not Valid After : Tue Mar 20 00:00:00 2046 # Fingerprint (SHA-256): 4F:A3:12:6D:8D:3A:11:D1:C4:85:5A:4F:80:7C:BA:D6:CF:91:9D:3A:5A:88:B0:3B:EA:2C:63:72:D9:3C:40:C9 # Fingerprint (SHA1): 53:A2:B0:4B:CA:6B:D6:45:E6:39:8A:8E:C4:0D:D2:BF:77:C3:A2:90 CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE CKA_TOKEN CK_BBOOL CK_TRUE CKA_PRIVATE CK_BBOOL CK_FALSE

\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 $\label{eq:2.125} 004 003 023 023 107 154 157 142 141 154 123 151 147 156 040$ \122\157\157\164\040\122\064\066\060\036\027\015\061\071\060\063 \062\060\060\060\060\060\060\060\060\132\027\015\064\066\060\063\062 \060\060\060\060\060\060\060\132\060\106\061\013\060\011\006\003 \125\004\006\023\002\102\105\061\031\060\027\006\003\125\004\012 \023\020\107\154\157\142\141\154\123\151\147\156\040\156\166\055 \163\141\061\034\060\032\006\003\125\004\003\023\023\107\154\157 $\label{eq:142} $$ 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

CKA_VALUE MULTILINE_OCTAL

END

337 045 147 321

CKA_SERIAL_NUMBER MULTILINE_OCTAL \002\022\021\322\273\271\327\043\030\236\100\137\012\235\055\320

END

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

CKA_ISSOER MOLTILINE_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 OCTAL

UTF8 "0"

CKA ID

END

 $\label{eq:list} $$122\157\157\164\040\122\064\066\$

CKA_SUBJECT MULTILINE_OCTAL \060\106\061\013\060\011\006\003\125\004\006\023\002\102\105\061 \031\060\027\006\003\125\004\012\023\020\107\154\157\142\141\154 \123\151\147\156\040\156\166\055\163\141\061\034\060\032\006\003 \125\004\003\023\023\107\154\157\142\141\154\123\151\147\156\040

CKA_LABEL UTF8 "GlobalSign Root R46" CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_MODIFIABLE CK_BBOOL CK_FALSE

\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 \313\135\366\264\152\263\145\374\102\236\121\046\043\040\313\075 $\label{eq:2.1} \end{tabular} \end{tabular}$ \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 \007\041\153\201\217\333\304\131\372\336\042\300\004\234\343\252 \133\066\223\350\075\275\172\241\235\013\166\261\013\307\235\375 \317\230\250\006\302\370\052\243\241\203\240\267\045\162\245\002 \343\002\003\001\000\001\243\102\060\100\060\016\006\003\125\035 \017\001\001\377\004\003\002\001\206\060\017\006\003\125\035 \023\001\001\377\004\005\060\003\001\001\377\060\035\006\003\125 \035\016\004\026\004\024\003\134\253\163\201\207\250\314\260\246 \325\224\342\066\226\111\377\005\231\054\060\015\006\011\052\206 \110\206\367\015\001\001\014\005\000\003\202\002\001\000\174\170 \354\366\002\054\273\133\176\222\053\135\071\334\276\330\035\242 \102\063\115\371\357\244\052\073\104\151\036\254\331\105\243\116 \074\247\330\044\121\262\124\034\223\116\304\357\173\223\205\140 \046\352\011\110\340\365\273\307\351\150\322\273\152\061\161\314 \171\256\021\250\360\231\375\345\037\274\057\250\314\127\353\166 \304\041\246\107\123\125\115\150\277\005\244\356\327\046\253\142 \332\103\067\113\342\306\265\345\262\203\031\072\307\323\333\115 \236\010\172\363\356\317\076\142\373\254\350\140\314\321\307\241 \134\203\105\304\105\314\363\027\153\024\311\004\002\076\322\044 \246\171\351\036\316\242\347\301\131\025\237\035\342\113\232\076 \237\166\010\055\153\330\272\127\024\332\203\352\376\214\125\351 \320\116\251\314\167\061\261\104\021\172\134\261\076\323\024\105 \025\030\142\044\023\322\313\115\316\134\203\301\066\362\020\265 \115\256\142\173\277\140\164\031\270\126\254\222\254\026\062\355 \255\150\125\376\230\272\323\064\336\364\311\141\303\016\206\366 \113\204\140\356\015\173\265\062\130\171\221\125\054\201\103\263 \164\037\172\252\045\236\035\327\241\213\271\315\102\056\004\244

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

 $\label{eq:242} $$ 123\242\260\113\312\153\326\105\346\071\212\216\304\015\322\277 $$$

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

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 $\label{eq:2.1} \end{tabular} \end{tabular}$ \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\105\064\066 END CKA ID UTF8 "0" CKA_ISSUER MULTILINE_OCTAL \060\106\061\013\060\011\006\003\125\004\006\023\002\102\105\061 $\label{eq:2.1} \end{tabular} \end{tabular}$ \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\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

\060\202\002\013\060\202\001\221\240\003\002\001\002\002\022\021 \322\273\272\063\156\324\274\346\044\150\305\015\204\035\230\350 \103\060\012\006\010\052\206\110\316\075\004\003\003\060\106\061 \013\060\011\006\003\125\004\006\023\002\102\105\061\031\060\027 $\label{eq:2.1} \end{tabular} \end{tabular}$ \156\040\156\166\055\163\141\061\034\060\032\006\003\125\004\003 \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 $\label{eq:154} $$ 157\142\141\154\123\151\147\156\040\156\166\055\163\141\061\$ $\label{eq:2.1} \end{tabular} \end{tabular}$ \123\151\147\156\040\122\157\157\164\040\105\064\066\060\166\060 \020\006\007\052\206\110\316\075\002\001\006\005\053\201\004\000 \042\003\142\000\004\234\016\261\317\267\350\236\122\167\165\064 \372\245\106\247\255\062\031\062\264\007\251\047\312\224\273\014 \322\012\020\307\332\211\260\227\014\160\023\011\001\216\330\352 \107\352\276\262\200\053\315\374\050\015\333\254\274\244\206\067 \355\160\010\000\165\352\223\013\173\056\122\234\043\150\043\006 \103\354\222\057\123\204\333\373\107\024\007\350\137\224\147\135 \311\172\201\074\040\243\102\060\100\060\016\006\003\125\035\017 \001\001\377\004\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 $\label{eq:213} \\ 204 \\ 140 \\ 271 \\ 213 \\ 377 \\ 122 \\ 216 \\ 347 \\ 214 \\ 274 \\ 034 \\ 002 \\ 060 \\ 074 \\ 002 \\ 002 \\ 060 \\ 074 \\ 002 \\$ \371\021\324\214\116\300\301\141\302\025\114\252\253\035\013\061 \137\073\034\342\000\227\104\061\346\376\163\226\057\332\226\323 \376\010\007\263\064\211\274\005\237\367\036\206\356\213\160 **END**

CKA_NSS_MOZILLA_CA_POLICY

CKA VALUE MULTILINE OCTAL

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 \071\264\154\325\376\200\006\353\342\057\112\273\010\063\240\257 \333\271\335\204 **END** CKA_CERT_MD5_HASH MULTILINE_OCTAL \265\270\146\355\336\010\203\343\311\342\001\064\006\254\121\157 **END** CKA_ISSUER MULTILINE_OCTAL \060\106\061\013\060\011\006\003\125\004\006\023\002\102\105\061 $\label{eq:2.1} \end{tabular} \end{tabular}$ \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\040 122 157 157 164 040 105 064 066**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"

 $\mathsf{CKA_CERTIFICATE_TYPE\ CK_CERTIFICATE_TYPE\ CKC_X_509}$

\110\206\367\015\001\001\013\005\000\060\115\061\013\060\011\006 \003\125\004\006\023\002\101\124\061\043\060\041\006\003\125\004 \012\023\032\145\055\143\157\155\155\145\162\143\145\040\155\157 \156\151\164\157\162\151\156\147\040\107\155\142\110\061\031\060 \027\006\003\125\004\003\023\020\107\114\117\102\101\114\124\122 \125\123\124\040\062\060\062\060\060\036\027\015\062\060\060\062 \061\060\060\060\060\060\060\060\132\027\015\064\060\060\066\061 \060\060\060\060\060\060\060\132\060\115\061\013\060\011\006\003 \125\004\006\023\002\101\124\061\043\060\041\006\003\125\004\012 \023\032\145\055\143\157\155\155\145\162\143\145\040\155\157\156 \151\164\157\162\151\156\147\040\107\155\142\110\061\031\060\027 \006\003\125\004\003\023\020\107\114\117\102\101\114\124\122\125 \123\124\040\062\060\062\060\060\202\002\042\060\015\006\011\052 \206\110\206\367\015\001\001\001\005\000\003\202\002\017\000\060 \202\002\012\002\202\002\001\000\256\056\126\255\033\034\357\366 $\label{eq:225} $$ $$ 217 $$ 240 $$ 67 $$ 323 $$ 143 $$ 17 $$ 204 $$ 115 $$ 242 $$ 017 $$ 237 $$ 133 $$ 67 $$ 105 $$ 242 $$ 017 $$ 237 $$ 133 $$ 105 $$ 242 $$ 107 $$ 237 $$ 133 $$ 105 $$ 105 $$ 105 $$ 242 $$ 107 $$ 237 $$ 105 $$$ 105 $$$ 105 $$ 105 $$ 105 $$ 105 $$ 105 $$ 105 $$$ 105 $$$ $\label{eq:105} $$ 131 173 121 064 371 354 213 212 170 305 335 153 257 275 $$$ \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

\002\013\132\113\275\132\373\117\212\133\372\1 END CKA_VALUE MULTILINE_OCTAL

CKA_ID UTF8 "0"

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

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 \145\162\143\145\040\155\157\156\151\164\157\162\151\156\147\040 \107\155\142\110\061\031\060\027\006\003\125\004\003\023\020\107 \114\117\102\101\114\124\122\125\123\124\040\062\060\062\060 END

\060\202\005\202\060\202\003\152\240\003\002\001\002\002\013\132 \113\275\132\373\117\212\133\372\145\345\060\015\006\011\052\206

CKA_SUBJECT MULTILINE_OCTAL \060\115\061\013\060\011\006\003\125\004\006\023\002\101\124\061 \043\060\041\006\003\125\004\012\023\032\145\055\143\157\155 \145\162\143\145\040\155\157\156\151\164\157\162\151\156\147\040 \107\155\142\110\061\031\060\027\006\003\125\004\003\023\020\107 \114\117\102\101\114\124\122\125\123\124\040\062\060\062\060 END

\242\353\376\300\214\050\240\246\175\347\052\102\073\202\200\143 \245\143\037\031\314\174\262\146\250\302\323\155\067\157\342\176 \006\121\331\105\204\037\022\316\044\122\144\205\013\110\200\116 \207\261\042\042\060\252\353\256\276\340\002\340\100\350\260\102 \200\003\121\252\264\176\252\104\327\103\141\363\242\153\026\211 $\label{eq:111} $$ 111244243244053212002304170364150212301344172066 $$$ \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 \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} $$ 154\260\054\367\003\014\210\014\313\324\162\123\206\274\$ \140\106\363\230\152\302\361\277\103\371\160\040\167\312\067\101 \171\125\122\143\215\133\022\237\305\150\304\210\235\254\362\060 \253\267\243\061\227\147\255\217\027\017\154\307\163\355\044\224 \153\310\203\232\320\232\067\111\004\253\261\026\310\154\111\111 $\label{eq:253} $$ 055 $$ 253 $$ 241 $$ 20 $$ 14 $$ 22 $$ 362 $$ 101 $$ 112 $$ 171 $$ 041 $$ 333 $$ 143 $$ 327 $$ 266 $$ 101 $$ 112 $$ 171 $$ 041 $$ 045 $$ 333 $$ 143 $$ 327 $$ 266 $$ 101 $$ 112 $$ 171 $$ 041 $$ 045 $$ 333 $$ 143 $$ 327 $$ 266 $$ 101 $$ 112 $$ 171 $$ 041 $$ 045 $$ 333 $$ 143 $$ 327 $$ 266 $$ 101 $$ 112 $$ 171 $$ 041 $$ 045 $$ 333 $$ 143 $$ 327 $$ 266 $$ 101 $$ 112 $$ 171 $$ 041 $$ 045 $$ 333 $$ 143 $$ 327 $$ 266 $$ 101 $$ 112 $$ 171 $$ 041 $$ 045 $$ 101 $$ 112 $$ 171 $$ 041 $$ 045 $$ 101 $$ 112 $$ 171 $$ 101 $$ 112 $$$ \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 \054\210\061\242\275\060\354\320\320\300\022\361\301\071\343\345 \365\370\326\112\335\064\315\373\157\301\117\343\000\213\126\342 \222\367\050\262\102\167\162\043\147\307\077\021\025\262\304\003 \005\276\273\021\173\012\277\250\156\347\377\130\103\317\233\147 \240\200\007\266\035\312\255\155\352\101\021\176\055\164\223\373 \302\274\276\121\104\305\357\150\045\047\200\343\310\240\324\022 \354\331\245\067\035\067\174\264\221\312\332\324\261\226\201\357 \150\134\166\020\111\257\176\245\067\200\261\034\122\275\063\201 \114\217\371\335\145\331\024\315\212\045\130\364\342\305\203\245

 $\label{eq:stability} $$ $ 120 324 143 265 100 337 353 300 374 304 130 176 015 024 026 207 124 047 156 126 344 160 204 270 154 062 022 176 202 061 103 276 327 335 174 241 255 256 326 253 040 022 357 012 303 020 214 111 226 065 334 013 165 136 261 117 325 117 064 016 021 040 007 165 103 105 351 243 021 332 254 243 231 302 266 171 047 342 271 357 310 342 366 065 051 172 164 372 305 177 202 005 142 246 012 352 150 262 171 107 006 156 362 127 250 025 063 306 367 170 112 075 102 173 153 176 376 367 106 352 321 353 216 357 210 150 133 350 301 331 161 176 375 144 357 377 147 107 210 130 045 057 076 206 007 275 373 250 345 202 250 254 245 323 151 103 315 061 210 111 204 123 222 300 261 071 033 071 203 001 060 304 362 251 372 320 003 275 162 067 140 126 037 066 174 275 071 221 365 155 015 277 173 327 222$

END

CKA_NSS_MOZILLA_CA_POLICY

CK_BBOOL CK_TRUE

CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE

CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "GLOBALTRUST 2020"

Issuer: CN=GLOBALTRUST 2020,O=e-commerce monitoring GmbH,C=AT

Serial Number:5a:4b:bd:5a:fb:4f:8a:5b:fa:65:e5

Subject: CN=GLOBALTRUST 2020,O=e-commerce monitoring GmbH,C=AT

Not Valid Before: Mon Feb 10 00:00:00 2020

Not Valid After : Sun Jun 10 00:00:00 2040

Fingerprint (SHA-256):

9A:29:6A:51:82:D1:D4:51:A2:E3:7F:43:9B:74:DA:AF:A2:67:52:33:29:F9:0F:9A:0D:20:07:C3:34:E2:3C:9A #

Fingerprint (SHA1): D0:67:C1:13:51:01:0C:AA:D0:C7:6A:65:37:31:16:26:4F:53:71:A2

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "GLOBALTRUST 2020"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL

 $\label{eq:22} $$ 320\147\301\023\121\001\014\252\320\307\152\145\067\061\026\046\$

117 123 161 242

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL

\212\307\157\313\155\343\314\242\361\174\203\372\016\170\327\350 END

CKA_ISSUER MULTILINE_OCTAL

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):

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

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

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

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

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} $$ 144\040\144\145\040\103\145\162\164\151\146\151\143\141\143$ \106\040\103\101\040\122\141\151\172\061\042\060\040\006\003\125 \004\003\023\031\101\116\106\040\123\145\143\165\162\145\040\123 $\label{eq:145} $$ 162\165\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 $\label{eq:10116516415716215114414144040144145040103145162} \\$ \164\151\146\151\143\141\143\151\157\156\061\024\060\022\006\003 $\label{eq:2.125} 004 013 023 013 101 116 106 040 103 101 040 122 141 151 172$ \061\042\060\040\006\003\125\004\003\023\031\101\116\106\040\123 \145\143\165\162\145\040\123\145\162\166\145\162\040\122\157\157 \164\040\103\101\060\202\002\042\060\015\006\011\052\206\110\206 \367\015\001\001\001\005\000\003\202\002\017\000\060\202\002\012 \002\202\002\001\000\333\353\153\053\346\144\124\225\202\220\243 \162\244\031\001\235\234\013\201\137\163\111\272\247\254\363\004 \116\173\226\013\354\021\340\133\246\034\316\033\322\015\203\034 \053\270\236\035\176\105\062\140\017\007\351\167\130\176\237\152 \310\141\116\266\046\301\114\215\377\114\357\064\262\037\145\330 \271\170\365\255\251\161\271\357\117\130\035\245\336\164\040\227 \241\355\150\114\336\222\027\113\274\253\377\145\232\236\373\107 \331\127\162\363\011\241\256\166\104\023\156\234\055\104\071\274 \371\307\073\244\130\075\101\275\264\302\111\243\310\015\322\227 \057\007\145\122\000\247\156\310\257\150\354\364\024\226\266\127 \037\126\303\071\237\053\155\344\363\076\366\065\144\332\014\034 \241\204\113\057\113\113\342\054\044\235\155\223\100\353\265\043 \216\062\312\157\105\323\250\211\173\036\317\036\372\133\103\213 \315\315\250\017\152\312\014\136\271\236\107\217\360\331\266\012 \013\130\145\027\063\271\043\344\167\031\175\313\112\056\222\173

Open Source Used In vmoperator Crafton-3.0 996

END

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

END

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

\106\040\123\145\143\165\162\145\040\123\145\162\166\145\162\040

\247\124\114\127\011\325\166\143\305\350\145\036\356\155\152\317 \011\235\372\174\117\255\140\010\375\126\231\017\025\054\173\251 \200\253\214\141\217\112\007\166\102\336\075\364\335\262\044\063 \133\270\265\243\104\311\254\177\167\074\035\043\354\202\251\246 \342\310\006\114\002\376\254\134\231\231\013\057\020\212\246\364 \177\325\207\164\015\131\111\105\366\360\161\134\071\051\326\277 \112\043\213\365\137\001\143\322\207\163\050\265\113\012\365\370 \253\202\054\176\163\045\062\035\013\143\012\027\201\000\377\266 \166\136\347\264\261\100\312\041\273\325\200\121\345\110\122\147 $\label{eq:2.141} $$ 007\015\017\316\102\167\300\104\163\234\104\120 $$$ \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\003\002\001\206\060\017 \006\003\125\035\023\001\001\377\004\005\060\003\001\001\377\060 \015\006\011\052\206\110\206\367\015\001\001\013\005\000\003\202 \002\001\000\116\036\271\212\306\240\230\077\156\303\151\300\152 \134\111\122\254\313\053\135\170\070\301\325\124\204\237\223\360 \207\031\075\054\146\211\353\015\102\374\314\360\165\205\077\213 \364\200\135\171\345\027\147\275\065\202\342\362\074\216\175\133 \066\313\132\200\000\051\362\316\053\054\361\217\252\155\005\223 \154\162\307\126\353\337\120\043\050\345\105\020\075\350\147\243 \257\016\125\017\220\011\142\357\113\131\242\366\123\361\300\065 \344\057\301\044\275\171\057\116\040\042\073\375\032\040\260\244 \016\054\160\355\164\077\270\023\225\006\121\310\350\207\046\312 \244\133\152\026\041\222\335\163\140\236\020\030\336\074\201\352 \350\030\303\174\211\362\213\120\076\275\021\342\025\003\250\066 \175\063\001\154\110\025\327\210\220\231\004\305\314\346\007\364 \274\364\220\355\023\342\352\213\303\217\243\063\017\301\051\114 \023\116\332\025\126\161\163\162\202\120\366\232\063\174\242\261 \250\032\064\164\145\134\316\321\353\253\123\340\032\200\330\352 \072\111\344\046\060\233\345\034\212\250\251\025\062\206\231\222 \012\020\043\126\022\340\366\316\114\342\273\276\333\215\222\163 \001\146\057\142\076\262\162\047\105\066\355\115\126\343\227\231 \377\072\065\076\245\124\112\122\131\113\140\333\356\376\170\021 \177\112\334\024\171\140\266\153\144\003\333\025\203\341\242\276 \366\043\227\120\360\011\063\066\247\161\226\045\363\271\102\175 \333\070\077\054\130\254\350\102\341\016\330\323\073\114\056\202 \351\203\056\153\061\331\335\107\206\117\155\227\221\056\117\342 \050\161\065\026\321\362\163\376\045\053\007\107\044\143\047\310

\370\366\331\153\374\022\061\126\010\300\123\102\257\234\320\063 \176\374\006\360\061\104\003\024\361\130\352\362\152\015\251\021 $\label{eq:262} $$ $$ 262 203 276 305 032 277 007 352 131 334 243 210 065 357 234 166 $$$ \062\074\115\006\042\316\025\345\335\236\330\217\332\336\322\304 $\label{eq:2.1} \end{tabular} $$ \027\201\317\070\107\353\177\210\155\131\033\337\237\102 $$$ \024\256\176\317\250\260\146\145\332\067\257\237\252\075\352\050 \266\336\325\061\130\026\202\133\352\273\031\165\002\163\032\312 \110\032\041\223\220\012\216\223\204\247\175\073\043\030\222\211 \240\215\254 END CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE CKA NSS SERVER DISTRUST AFTER CK BBOOL CK FALSE CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE # Trust for "ANF Secure Server Root CA" # Issuer: CN=ANF Secure Server Root CA,OU=ANF CA Raiz,O=ANF Autoridad de Certificacion.C=ES.serialNumber=G63287510 # Serial Number:0d:d3:e3:bc:6c:f9:6b:b1 # Subject: CN=ANF Secure Server Root CA,OU=ANF CA Raiz,O=ANF Autoridad de Certificacion,C=ES,serialNumber=G63287510 # Not Valid Before: Wed Sep 04 10:00:38 2019 # Not Valid After : Tue Aug 30 10:00:38 2039 # Fingerprint (SHA-256): FB:8F:EC:75:91:69:B9:10:6B:1E:51:16:44:C6:18:C5:13:04:37:3F:6C:06:43:08:8D:8B:EF:FD:1B:99:75:99 # Fingerprint (SHA1): 5B:6E:68:D0:CC:15:B6:A0:5F:1E:C1:5F:AE:02:FC:6B:2F:5D:6F:74 CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST CKA TOKEN CK BBOOL CK TRUE CKA_PRIVATE CK_BBOOL CK_FALSE CKA_MODIFIABLE CK_BBOOL CK_FALSE CKA LABEL UTF8 "ANF Secure Server Root CA" CKA CERT SHA1 HASH MULTILINE OCTAL \057\135\157\164 **END** CKA CERT MD5 HASH MULTILINE OCTAL \046\246\104\132\331\257\116\057\262\035\266\145\260\116\350\226 **END** CKA_ISSUER MULTILINE_OCTAL \060\201\204\061\022\060\020\006\003\125\004\005\023\011\107\066 \063\062\070\067\065\061\060\061\013\060\011\006\003\125\004\006 \023\002\105\123\061\047\060\045\006\003\125\004\012\023\036\101 \116\106\040\101\165\164\157\162\151\144\141\144\040\144\145\040 $\label{eq:103} \\ 145 \\ 162 \\ 164 \\ 151 \\ 146 \\ 151 \\ 143 \\ 141 \\ 143 \\ 151 \\ 157 \\ 156 \\ 061 \\ 024 \\ 060 \\ 061 \\ 024 \\ 060 \\ 061 \\ 024 \\ 060 \\ 061 \\ 024 \\ 060 \\ 061 \\ 024 \\ 060 \\ 061 \\ 024 \\ 060 \\ 061 \\ 024 \\ 060 \\ 061 \\ 024 \\ 060 \\ 061 \\ 024 \\ 060 \\ 061 \\ 024 \\ 060 \\ 061 \\ 024 \\ 060 \\ 061 \\ 024 \\ 060 \\ 061 \\ 024 \\ 060 \\ 061 \\ 024 \\ 060 \\ 061 \\ 024 \\ 060 \\ 061 \\$ \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

\122\157\157\164\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_MUST_VERIFY_TRUST CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST CKA TRUST STEP UP APPROVED CK BBOOL CK FALSE # # Certificate "Certum EC-384 CA" # # Issuer: CN=Certum EC-384 CA,OU=Certum Certification Authority,O=Asseco Data Systems S.A.,C=PL # Serial Number:78:8f:27:5c:81:12:52:20:a5:04:d0:2d:dd:ba:73:f4 # Subject: CN=Certum EC-384 CA,OU=Certum Certification Authority,O=Asseco Data Systems S.A.,C=PL # Not Valid Before: Mon Mar 26 07:24:54 2018 # Not Valid After : Thu Mar 26 07:24:54 2043 # Fingerprint (SHA-256): 6B:32:80:85:62:53:18:AA:50:D1:73:C9:8D:8B:DA:09:D5:7E:27:41:3D:11:4C:F7:87:A0:F5:D0:6C:03:0C:F6 # Fingerprint (SHA1): F3:3E:78:3C:AC:DF:F4:A2:CC:AC:67:55:69:56:D7:E5:16:3C:E1:ED CKA CLASS CK OBJECT CLASS CKO CERTIFICATE CKA_TOKEN CK_BBOOL CK_TRUE CKA PRIVATE CK BBOOL CK FALSE CKA MODIFIABLE CK BBOOL CK FALSE CKA_LABEL UTF8 "Certum EC-384 CA" CKA CERTIFICATE TYPE CK CERTIFICATE TYPE CKC X 509 CKA SUBJECT MULTILINE OCTAL \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 \156\040\101\165\164\150\157\162\151\164\171\061\031\060\027\006 $\label{eq:2.103} \\ 003 \\ 125 \\ 004 \\ 003 \\ 023 \\ 020 \\ 103 \\ 145 \\ 162 \\ 164 \\ 165 \\ 155 \\ 040 \\ 105 \\ 103 \\ 055 \\ 040 \\ 105 \\ 103 \\ 055 \\ 040 \\ 105 \\ 103 \\ 055 \\ 040 \\ 105 \\ 103 \\ 055 \\ 040 \\ 105$ \063\070\064\040\103\101 **END** CKA ID UTF8 "0" CKA_ISSUER MULTILINE_OCTAL \060\164\061\013\060\011\006\003\125\004\006\023\002\120\114\061 \041\060\037\006\003\125\004\012\023\030\101\163\163\145\143\157 \040\104\141\164\141\040\123\171\163\164\145\155\163\040\123\056 \101\056\061\047\060\045\006\003\125\004\013\023\036\103\145\162 \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

END CKA VALUE MULTILINE OCTAL \060\202\002\145\060\202\001\353\240\003\002\001\002\002\020\170 \217\047\134\201\022\122\040\245\004\320\055\335\272\163\364\060 \012\006\010\052\206\110\316\075\004\003\003\060\164\061\013\060 \011\006\003\125\004\006\023\002\120\114\061\041\060\037\006\003 \040\123\171\163\164\145\155\163\040\123\056\101\056\061\047\060 \045\006\003\125\004\013\023\036\103\145\162\164\165\155\040\103 \145\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164 \150\157\162\151\164\171\061\031\060\027\006\003\125\004\003\023 \020\103\145\162\164\165\155\040\105\103\055\063\070\064\040\103 \101\060\036\027\015\061\070\060\063\062\066\060\067\062\064\065 \064\132\027\015\064\063\060\063\062\066\060\067\062\064\065\064 \132\060\164\061\013\060\011\006\003\125\004\006\023\002\120\114 \061\041\060\037\006\003\125\004\012\023\030\101\163\163\145\143 \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 \170\230\201\170\006\115\362\354\232\016\127\140\203\237\264\346 \027\057\032\263\135\002\133\211\043\074\302\021\005\052\247\210 \023\030\363\120\204\327\275\064\054\047\211\125\377\316\114\347 \337\246\037\050\304\360\124\303\271\174\267\123\255\353\302\243 \102\060\100\060\017\006\003\125\035\023\001\001\377\004\005\060 \003\001\001\377\060\035\006\003\125\035\016\004\026\004\024\215 \020\137\113\060\016\006\003\125\035\017\001\001\377\004\004\003 \002\001\006\060\012\006\010\052\206\110\316\075\004\003\003\003 \150\000\060\145\002\060\003\125\055\246\346\030\304\174\357\311 \120\156\301\047\017\234\207\257\156\325\033\010\030\275\222\051 \301\357\224\221\170\322\072\034\125\211\142\345\033\011\036\272 \144\153\361\166\264\324\002\061\000\264\102\204\231\377\253\347 \236\373\221\227\047\135\334\260\133\060\161\316\136\070\032\152 \331\045\347\352\367\141\222\126\370\352\332\066\302\207\145\226 \056\162\045\057\177\337\303\023\311 END

MULTILINE OCTAL

CKA_SERIAL_NUMBER

END

\163\364

063 070 064 040 103 101

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):

6B:32:80:85:62:53:18:AA:50:D1:73:C9:8D:8B:DA:09:D5:7E:27:41:3D:11:4C:F7:87:A0:F5:D0:6C:03:0C:F6

Fingerprint (SHA1): F3:3E:78:3C:AC:DF:F4:A2:CC:AC:67:55:69:56:D7:E5:16:3C:E1:ED

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "Certum EC-384 CA"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL

026074341355

END

CKA_CERT_MD5_HASH

MULTILINE_OCTAL

 $\label{eq:266} $$ $$ 263\226\140\227\022\241\354\116\341\075\243\306\311\361\ END $$$

CKA_ISSUER MULTILINE_OCTAL

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):

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

END

CKA_ID

UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

END

CKA_VALUE

MULTILINE_OCTAL

\037\006\003\125\004\012\023\030\101\163\163\145\143\157\040\104 \061\047\060\045\006\003\125\004\013\023\036\103\145\162\164\165 \155\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040 \101\165\164\150\157\162\151\164\171\061\037\060\035\006\003\125 \004\003\023\026\103\145\162\164\165\155\040\124\162\165\163\164 \145\144\040\122\157\157\164\040\103\101\060\036\027\015\061\070 \060\063\061\066\061\062\061\060\061\063\132\027\015\064\063\060 \063\061\066\061\062\061\060\061\063\132\060\172\061\013\060\011 \006\003\125\004\006\023\002\120\114\061\041\060\037\006\003\125 $\label{eq:2.1} \end{tabular} \end{tabular}$ \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 \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 \113\145\057\223\247\324\001\153\003\050\030\243\330\235\005\301 $\label{eq:2.1} $$ 052\30\105\361\221\36\37\073\320\200\002\214\317\070\017\352 $$$ \247\134\170\021\244\301\310\205\134\045\323\323\262\347\045\317 $\label{eq:22} \end{tabular} \end{tabular}$ \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 $\label{eq:201} $$ 201 376 255 175 211 273 272 140 023 312 145 225 147 240 363 031 \\$ \366\003\126\324\152\323\047\342\241\255\203\360\112\022\042\167 \034\005\163\342\031\161\102\300\354\165\106\232\220\130\340\152 \216\053\245\106\060\004\216\031\262\027\343\276\251\272\177\126 \361\044\003\327\262\041\050\166\016\066\060\114\171\325\101\232 \232\250\270\065\272\014\072\362\104\033\040\210\367\305\045\327 \075\306\343\076\103\335\207\376\304\352\365\123\076\114\145\377 $\label{eq:2.1} \end{tabular} $$ \073\112\313\170\132\153\027\137\015\307\303\117\116\232\052\242 $$$ $\label{eq:2.1} $$ \frac{235}{127} \frac{115}{042} \frac{242}{106} \frac{232}{077} \frac{17}{221} \frac{141}{064} \frac{175}{125} \frac{343}{214} \frac{141}{15} \frac{125}{343} \frac{141}{214} \frac{141}{15} \frac{14$ \225\067\323\032\360\011\053\054\322\311\215\264\015\000\253\147 \051\050\330\001\365\031\004\266\035\276\166\376\162\134\304\205 \312\322\200\101\337\005\250\243\325\204\220\117\013\363\340\077 \233\031\322\067\211\077\362\173\122\034\214\366\341\367\074\007 \227\214\016\242\131\201\014\262\220\075\323\343\131\106\355\017 \251\247\336\200\153\132\252\007\266\031\313\274\127\363\227\041 \172\014\261\053\164\076\353\332\247\147\055\114\304\230\236\066 \011\166\146\146\374\032\077\352\110\124\034\276\060\275\200\120 \277\174\265\316\000\366\014\141\331\347\044\003\340\343\001\201

\016\275\330\205\064\210\275\262\066\250\173\134\010\345\104\200 \214\157\370\057\325\041\312\035\034\320\373\304\265\207\321\072 \116\307\166\265\065\110\265\002\003\001\000\001\243\102\060\100 \060\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001 \377\060\035\006\003\125\035\016\004\026\004\024\214\373\034\165 $\label{eq:274} $$ $$ 237\16\56\10\31\31\371\140\124\252\304\263\117\372 $$$ \060\016\006\003\125\035\017\001\001\377\004\004\003\002\001\006 \060\015\006\011\052\206\110\206\367\015\001\001\015\005\000\003 \202\002\001\000\110\242\325\000\013\056\320\077\274\034\325\265 $\label{eq:124} $$ 124\11\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} $$ 12\347\151\334\207\235\302\064\327\171\321\323\167\270\252 $$$ \131\130\376\235\046\372\070\206\076\235\212\207\144\127\345\027 \072\342\371\215\271\343\063\170\301\220\330\270\335\267\203\121 \344\304\314\043\325\006\174\346\121\323\315\064\061\300\366\106 \273\013\255\374\075\020\005\052\073\112\221\045\356\214\324\204 \207\200\052\274\011\214\252\072\023\137\350\064\171\120\301\020 \031\371\323\050\036\324\321\121\060\051\263\256\220\147\326\037 \012\143\261\305\251\306\102\061\143\027\224\357\151\313\057\372 \214\024\175\304\103\030\211\331\360\062\100\346\200\342\106\137 \345\343\301\000\131\250\371\350\040\274\211\054\016\107\064\013 \352\127\302\123\066\374\247\324\257\061\315\376\002\345\165\372 \271\047\011\371\363\365\073\312\175\237\251\042\313\210\311\252 \321\107\075\066\167\250\131\144\153\047\317\357\047\301\343\044 \265\206\367\256\176\062\115\260\171\150\321\071\350\220\130\303 \203\274\017\054\326\227\353\316\014\341\040\307\332\267\076\303 \077\277\057\334\064\244\373\053\041\315\147\217\113\364\343\352 \157\340\166\224\062\313\165\365\156\345\366\217\307\270\244\314 \250\226\175\144\373\044\132\112\003\154\153\070\306\350\003\103 \232\367\127\271\263\051\151\223\070\364\003\362\273\373\202\153 \007\040\321\122\037\232\144\002\173\230\146\333\134\115\132\017 \320\204\225\240\074\024\103\006\312\312\333\270\101\066\332\152 $\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:B7:8F:22:D1:C5:D7:45:84:BA:E5

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

CKA TOKEN CK BBOOL CK TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "Certum Trusted Root CA"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL

 $\label{eq:203} $$ 310\203\104\300\030\256\237\314\361\207\267\217\042\321\305\327 $$$

 $105\204\272\345$

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

\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

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

 $\label{eq:spectral_$

END

CKA_ID

UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

 $\label{eq:starter} $$ \ (060) 141 \ (061 \ (013) \ (060) \ (011) \ (060) \ (003) \ (125) \ (004) \ (006) \ (023) \ (022) \ (124) \ (160) \ (160) \ (065) \ (006) \ (003) \ (125) \ (012) \ (140) \ (147) \ (145) \ (143) \ (145) \ (143) \ (145) \ (146) \ (151) \ (157) \ (156) \ (141) \ (154) \ (145) \ (145) \ (145) \ (145) \ (154) \ (145) \ (154) \ (155) \ (154) \ (155) \ (154) \ (156) \ (154) \ (156) \ ($

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

 $\label{eq:2.1} $$ \002\024\023\002\325\342\100\114\222\106\206\026\147\135\264\273\273\273\262\153\076\374\023 $$$

END

CKA_VALUE MULTILINE_OCTAL

 $\label{eq:147} $$ 145 156 143 145 040 116 141 164 151 157 156 141 154 145 040 $$$ $\label{eq:144} $$ 145 040 103 145 162 164 151 146 151 143 141 164 151 157 156 $$$ \040\105\154\145\143\164\162\157\156\151\161\165\145\061\031\060 \027\006\003\125\004\003\014\020\124\165\156\124\162\165\163\164 \040\122\157\157\164\040\103\101\060\202\002\042\060\015\006\011 \052\206\110\206\367\015\001\001\001\005\000\003\202\002\017\000 \060\202\002\012\002\202\002\001\000\303\315\323\374\275\004\123 \335\014\040\072\325\210\056\005\113\101\365\203\202\176\367\131 \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 \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 $\label{eq:24} \end{tabular} \end{tabular}$ \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 \037\123\175\361\365\244\310\323\206\076\241\163\131\264\367\104 \041\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001 \001\377\060\037\006\003\125\035\043\004\030\060\026\200\024\006 \232\233\037\123\175\361\365\244\310\323\206\076\241\163\131\264 \367\104\041\060\016\006\003\125\035\017\001\001\377\004\004\003 \002\001\006\060\015\006\011\052\206\110\206\367\015\001\001\013 \005\000\003\202\002\001\000\252\005\156\266\335\025\311\277\263 \306\040\366\006\107\260\206\223\045\323\215\271\310\000\077\227

\365\122\047\210\161\311\164\375\353\312\144\333\133\357\036\135 \272\277\321\353\356\134\151\272\026\310\363\271\217\323\066\056 \100\111\007\015\131\336\213\020\260\111\005\342\377\221\077\113 \267\335\002\216\370\201\050\134\314\334\155\257\137\024\234\175 \130\170\015\366\200\011\271\351\016\227\051\031\270\267\353\370 \026\313\125\022\344\306\175\273\304\354\370\265\034\116\076\147 \277\305\137\033\155\155\107\050\252\004\130\141\326\166\277\042 \333\145\257\346\233\062\232\303\124\223\304\034\010\303\104\373 $\label{eq:2.151} \\ 005 \\ 301 \\ 022 \\ 151 \\ 151 \\ 326 \\ 306 \\ 066 \\ 061 \\ 341 \\ 374 \\ 372 \\ 200 \\ 272 \\ 134 \\ 117$ \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} $$ 131\130\357\014\211\317\213\037\165\223\032\004\024\222\110$ \120\251\353\127\051\000\026\343\066\034\310\370\277\360\063\325 $\label{eq:101} \end{tabular} 101\017\304\314\074\335\351\063\103\001\221\020\053\036\321\271$ \135\315\062\031\213\217\214\040\167\327\042\304\102\334\204\026 \233\045\155\350\264\125\161\177\260\174\263\323\161\111\271\317 \122\244\004\077\334\075\240\273\257\063\236\012\060\140\216\333 \235\135\224\250\275\140\347\142\200\166\201\203\014\214\314\060 \106\111\342\014\322\250\257\353\141\161\357\347\042\142\251\367 $\label{eq:134} $$ 134\14\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 \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 \317\351\160\204\017\340\163\017\235\366\014\177\054\113\356\040 \106\064\234\273 **END** CKA_CERT_MD5_HASH MULTILINE_OCTAL \205\023\271\220\133\066\134\266\136\270\132\370\340\061\127\264 **END** CKA_ISSUER MULTILINE_OCTAL \060\141\061\013\060\011\006\003\125\004\006\023\002\124\116\061 $\label{eq:2.1} \end{tabular} \end{tabular}$ $\label{eq:116} \end{tabular} 164 \end{tabular} 157 \end{tabular} 156 \end{tabular} 145 \end{tabular}$ \164\162\157\156\151\161\165\145\061\031\060\027\006\003\125\004 \003\014\020\124\165\156\124\162\165\163\164\040\122\157\157\164 \040\103\101 END CKA SERIAL NUMBER MULTILINE_OCTAL \002\024\023\002\325\342\100\114\222\106\206\026\147\135\264\273 \273\262\153\076\374\023 END CKA TRUST SERVER AUTH CK TRUST CKT NSS TRUSTED DELEGATOR CKA TRUST EMAIL PROTECTION CK TRUST CKT NSS MUST VERIFY TRUST CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#

Certificate "HARICA TLS RSA Root CA 2021"

#

Issuer: CN=HARICA TLS RSA Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR # Serial Number:39:ca:93:1c:ef:43:f3:c6:8e:93:c7:f4:64:89:38:7e

Subject: CN=HARICA TLS RSA Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR # Not Valid

Before: Fri Feb 19 10:55:38 2021

Not Valid After : Mon Feb 13 10:55:37 2045

Fingerprint (SHA-256):

D9:5D:0E:8E:DA:79:52:5B:F9:BE:B1:1B:14:D2:10:0D:32:94:98:5F:0C:62:D9:FA:BD:9C:D9:99:EC:CB:7B:1D # Fingerprint (SHA1): 02:2D:05:82:FA:88:CE:14:0C:06:79:DE:7F:14:10:E9:45:D7:A5:6D

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "HARICA TLS RSA Root CA 2021"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA VALUE MULTILINE OCTAL \060\202\005\244\060\202\003\214\240\003\002\001\002\002\020\071 \312\223\034\357\103\363\306\216\223\307\364\144\211\070\176\060 \015\006\011\052\206\110\206\367\015\001\001\013\005\000\060\154 \061\013\060\011\006\003\125\004\006\023\002\107\122\061\067\060 \065\006\003\125\004\012\014\056\110\145\154\154\145\156\151\143 \040\101\143\141\144\145\155\151\143\040\141\156\144\040\122\145 $\label{eq:163} \\ 145 \\ 141 \\ 162 \\ 143 \\ 150 \\ 040 \\ 111 \\ 156 \\ 163 \\ 164 \\ 151 \\ 164 \\ 165 \\ 164 \\ 151 \\ 164 \\ 164 \\ 151 \\ 164 \\$ \157\156\163\040\103\101\061\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 $\label{eq:143} \\ 141 \\ 144 \\ 145 \\ 155 \\ 151 \\ 143 \\ 040 \\ 141 \\ 156 \\ 144 \\ 040 \\ 122 \\ 145 \\ 163 \\ 145 \\ 155 \\ 155 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 155 \\ 155 \\ 145 \\ 145 \\ 145 \\ 155 \\ 145 \\ 145 \\ 125 \\ 145 \\$ \163\040\103\101\061\044\060\042\006\003\125\004\003\014\033\110 \101\122\111\103\101\040\124\114\123\040\122\123\101\040\122\157 \157\164\040\103\101\040\062\060\062\061\060\202\002\042\060\015 \006\011\052\206\110\206\367\015\001\001\001\005\000\003\202\002 \017\000\060\202\002\012\002\202\002\001\000\213\302\347\257\145 \233\005\147\226\311\015\044\271\320\016\144\374\316\342\044\030 \054\204\177\167\121\313\004\021\066\270\136\355\151\161\247\236

END

\070\176

CKA SERIAL NUMBER MULTILINE OCTAL \002\020\071\312\223\034\357\103\363\306\216\223\307\364\144\211

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 \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**

"0"

CKA ID UTF8

END

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$ \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_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

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

105327245155

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL

 $\label{eq:145} $$ 107\23\130\206\335\054\360\374\242\204\037\036\226\304\221 $$$

END

CKA_ISSUER MULTILINE_OCTAL

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

END

CKA_SERIAL_NUMBER

MULTILINE_OCTAL

 $\label{eq:223} \\ 020 \\ 071 \\ 312 \\ 223 \\ 034 \\ 357 \\ 103 \\ 363 \\ 306 \\ 216 \\ 223 \\ 307 \\ 364 \\ 144 \\ 211 \\ 211 \\ 223 \\ 307 \\ 364 \\ 144 \\ 211 \\ 211 \\ 223 \\ 307 \\ 364 \\ 144 \\ 211 \\ 223 \\ 307 \\ 364 \\ 144 \\ 211 \\ 223 \\ 307 \\ 364 \\ 144 \\ 211 \\ 223 \\ 307 \\ 364 \\ 144 \\ 211 \\ 223 \\ 307 \\ 364 \\ 144 \\ 211 \\ 223 \\ 307 \\ 364 \\ 144 \\ 211 \\ 234 \\ 306 \\ 216 \\ 223 \\ 307 \\ 364 \\ 144 \\ 211 \\ 211 \\ 236 \\ 306 \\ 216 \\ 223 \\ 307 \\ 364 \\ 144 \\ 211 \\ 223 \\ 307 \\ 364 \\ 144 \\ 211 \\ 236 \\ 306 \\ 216 \\ 223 \\ 307 \\ 364 \\ 144 \\ 211 \\ 365 \\ 306 \\ 216 \\ 223 \\ 307 \\ 364 \\ 144 \\ 211 \\ 365 \\ 306 \\ 216 \\ 223 \\ 307 \\ 364 \\ 144 \\ 211 \\ 365 \\ 306 \\ 306 \\ 216 \\ 223 \\ 307 \\ 364 \\ 364 \\ 144 \\ 211 \\ 365 \\ 306 \\$

\070\176

END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#

Certificate "HARICA TLS ECC Root CA 2021"

#

Issuer: CN=HARICA TLS ECC Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR

Serial Number:67:74:9d:8d:77:d8:3b:6a:db:22:f4:ff:59:e2:bf:ce

Subject: CN=HARICA TLS ECC Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR

Not Valid Before: Fri Feb 19 11:01:10 2021

Not Valid After : Mon Feb 13 11:01:09 2045

Fingerprint (SHA-256):

3F:99:CC:47:4A:CF:CE:4D:FE:D5:87:94:66:5E:47:8D:15:47:73:9F:2E:78:0F:1B:B4:CA:9B:13:30:97:D4:01

Fingerprint (SHA1): BC:B0:C1:9D:E9:98:92:70:19:38:57:E9:8D:A7:B4:5D:6E:EE:01:48

CKA_CLASS

CK_OBJECT_CLASS CKO_CERTIFICATE

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "HARICA TLS ECC Root CA 2021"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL

\060\154\061\013\060\011\006\003\125\004\006\023\002\107\122\061

\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

 $\label{eq:103} $$ 103\040\122\157\157\164\040\103\101\040\062\060\062\061\$

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

END

CKA_SERIAL_NUMBER

MULTILINE_OCTAL

\002\020\147\164\235\215\167\330\073\152\333\042\364\377\131\342 \277\316

END

CKA_VALUE MULTILINE_OCTAL

\060\202\002\124\060\202\001\333\240\003\002\001\002\002\020\147 \164\235\215\167\330\073\152\333\042\364\377\131\342\277\316\060 \012\006\010\052\206\110\316\075\004\003\003\060\154\061\013\060 \011\006\003\125\004\006\023\002\107\122\061\067\060\065\006\003 \125\004\012\014\056\110\145\154\154\145\156\151\143\040\101\143 \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 \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\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 \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 \045\052\250\170\055\276\220\101\130\220\025\162\247\241\267\243 \102\060\100\060\017\006\003\125\035\023\001\001\377\004\005\060 \003\001\001\377\060\035\006\003\125\035\016\004\026\004\024\311 \033\123\201\022\376\004\325\026\321\252\274\232\157\267\240\225 \031\156\312\060\016\006\003\125\035\017\001\001\377\004\004\003 \002\001\206\060\012\006\010\052\206\110\316\075\004\003\003\003 \147\000\060\144\002\060\021\336\256\370\334\116\210\260\251\360 \042\255\302\121\100\357\140\161\055\356\217\002\304\135\003\160 \111\244\222\352\305\024\210\160\246\323\015\260\252\312\054\100

\234\373\351\202\156\232\002\060\053\107\232\007\306\321\302\201 \174\312\013\226\030\101\033\243\364\060\011\236\265\043\050\015 \237\024\266\074\123\242\114\006\151\175\372\154\221\306\052\111 $105\346\354\267\023\341\072\154$ **END** CKA_NSS_MOZILLA_CA_POLICY CK BBOOL CK TRUE CKA_NSS_SERVER_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 \274\260\301\235\351\230\222\160\031\070\127\351\215\247\264\135 \156\356\001\110 END CKA CERT MD5 HASH MULTILINE OCTAL \256\367\114\345\146\065\321\267\233\214\042\223\164\323\113\260 END CKA ISSUER MULTILINE OCTAL \060\154\061\013\060\011\006\003\125\004\006\023\002\107\122\061 \067\060\065\006\003\125\004\012\014\056\110\145\154\154\145\156 $\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\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 $\label{eq:23} \end{tabular} \end{tabular}$ \277\316 END CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST

CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#

Certificate "HARICA Client RSA Root CA 2021"

#

Issuer: CN=HARICA Client RSA Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR # Serial Number:55:52:f8:1e:db:1b:24:2c:9e:bb:96:18:cd:02:28:3e

Subject: CN=HARICA

Client RSA Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR

Not Valid Before: Fri Feb 19 10:58:46 2021

Not Valid After : Mon Feb 13 10:58:45 2045

Fingerprint (SHA-256):

1B:E7:AB:E3:06:86:B1:63:48:AF:D1:C6:1B:68:66:A0:EA:7F:48:21:E6:7D:5E:8A:F9:37:CF:80:11:BC:75:0D:5E:8A:F9:37:75:20:11:BC:75:20:11:BC:75:20:11:BC:75:20:11:BC:75:20:11:BC:75:20:11:BC:75:20:11:BC:75:20:11:BC:75:20:11:BC:75:20:11:BC:75:20:11:BC:75:20:11:BC:75:20:11:BC:75:20:11:BC:75:20:11:BC:75:20:11:BC:75:20:11:BC:75:20:11:2

Fingerprint (SHA1): 46:C6:90:0A:77:3A:B6:BC:F4:65:AD:AC:FC:E3:F7:07:00:6E:DE:6E

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "HARICA Client RSA Root CA 2021"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL

\060\157\061\013\060\011\006\003\125\004\006\023\002\107\122\061 \067\060\065\006\003\125\004\012\014\056\110\145\154\154\145\156

 $\label{eq:151143} $$ 151143\040\101\143\144\145\155\151\143\040\141\156\144\040\122\145\163\145\141\162\143\150\040\111\156\163\164\151\164\165 $$$

\164\151\157\156\163\040\103\101\061\047\060\045\006\003\125\004 \003\014\036\110\101\122\111\103\101\040\103\154\151\145\156\164

\040\122\123\101\040\122\157\157\164\040\103\101\040\062\060\062

\061

END

CKA_ID

UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

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

END

CKA_VALUE MULTILINE_OCTAL

\060\202\005\252\060\202\003\222\240\003\002\001\002\002\020\125 \122\370\036\333\033\044\054\236\273\226\030\315\002\050\076\060 \015\006\011\052\206\110\206\367\015\001\001\013\005\000\060\157 \061\013\060\011\006\003\125\004\006\023\002\107\122\061\067\060 \065\006\003\125\004\012\014\056\110\145\154\154\145\156\151\143 $\label{eq:101143141144145155151143040141156144040122145$ $\label{eq:163} \\ 145 \\ 141 \\ 162 \\ 143 \\ 150 \\ 040 \\ 111 \\ 156 \\ 163 \\ 164 \\ 151 \\ 164 \\ 165 \\ 164 \\ 151 \\ 164 \\ 164 \\ 151 \\ 164 \\$ \157\156\163\040\103\101\061\047\060\045\006\003\125\004\003\014 $\label{eq:10} \end{tabular} \end{tabular}$ \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 \145\163\145\141\162\143\150\040\111\156\163\164\151\164\165\164 \151\157\156\163\040\103\101\061\047\060\045\006\003\125\004\003 \014\036\110\101\122\111\103\101\040\103\154\151\145\156\164\040 \122\123\101\040\122\157\157\164\040\103\101\040\062\060\062\061 \060\202\002\042\060\015\006\011\052\206\110\206\367\015\001\001 \001\005\000\003\202\002\017\000\060\202\002\012\002\202\002\001 \000\201\333\127\102\220\054\164\065\364\370\270\164\031\115\253 \011\132\167\105\201\163\142\260\065\237\370\320\267\063\000\207 \023\266\226\253\016\124\022\060\007\274\233\267\110\327\321\031 \203\256\216\330\251\361\251\000\204\260\214\136\236\350\014\217 \124\151\277\366\324\010\117\046\160\376\030\101\143\032\263\062 \213\100\370\007\253\127\061\360\306\026\166\147\232\264\335\057 \362\321\153\305\320\222\204\221\161\156\017\056\143\351\037\123 \244\335\122\023\314\011\203\051\201\014\305\123\165\104\261\016 \147\123\030\320\303\037\210\113\237\224\044\264\051\274\273\350 $\label{eq:116} $$ 157322025035111334215160362021032040121125 $$$ \021\272\210\157\304\367\120\171\326\252\061\342\204\075\136\062 \310\167\052\120\161\345\013\057\351\266\352\357\253\012\063\071 \016\375\217\245\147\103\202\216\230\151\011\011\033\100\315\070 \147\107\352\311\354\227\161\022\336\044\365\162\074\321\367\103 \114\046\367\220\262\211\351\105\113\125\075\061\005\172\101\342 \225\272\103\300\027\305\266\205\075\031\215\144\160\363\133\254 \315\237\323\051\165\207\113\225\147\152\246\370\321\335\274\220 \206\211\103\051\251\067\133\365\135\260\046\132\123\102\166\220 \070\174\373\305\013\317\166\004\143\002\063\052\175\365\203\147 \347\372\306\103\375\053\017\324\046\057\167\244\062\301\044\352 \233\173\274\307\106\152\165\277\132\242\214\350\152\104\301\270 \226\265\300\062\010\055\173\164\065\163\262\312\306\376\257\021 \162\030\366\347\310\302\317\245\052\352\173\326\131\350\174\240 \262\152\100\011\151\016\245\226\333\321\000\271\361\210\156\066 \360\210\262\235\361\122\362\303\174\277\060\211\074\012\151\371

\042\244\145\341\233\340\164\306\261\205\227\226\054\256\224\217 \120\246\071\022\037\276\107\362\201\170\323\165\066\236\175\132 \040\227\342\122\256\231\237\306\174\233\146\363\376\330\317\356 \275\227\006\035\055\205\334\076\066\123\226\173\040\272\350\310 \341\255\226\142\076\021\174\263\000\204\236\247\114\161\253\112 \067\002\003\001\000\001\243\102\060\100\060\017\006\003\125\035 \023\001\001\377\004\005\060\003\001\001\377\060\035\006\003\125 \035\016\004\026\004\024\240\326\007\075\136\044\367\173\240\104 \056\044\122\015\031\252\053\004\221\247\060\016\006\003\125\035 \017\001\001\377\004\003\002\001\206\060\015\006\011\052\206 \110\206\367\015\001\001\013\005\000\003\202\002\001\000\015\107 \371\011\146\061\122\354\171\356\302\250\362\150\076\355\226\105 \313\072\246\230\143\077\352\053\115\116\003\320\034\202\341\313 \323\345\326\253\133\147\050\274\235\376\014\231\012\200\125\247 \316\033\043\141\015\260\127\360\376\340\312\276\346\220\333\203 \054\276\203\216\364\171\266\376\320\015\102\247\130\037\151\352 \201\365\005\245\376\106\150\353\154\170\311\340\352\347\346\336 \061\305\322\325\054\202\143\050\235\135\250\032\176\210\346\347 \053\361\054\325\320\005\236\334\055\275\067\146\324\004\242\247 \255\277\072\302\250\073\255\377\215\235\063\340\271\232\204\241 \207\037\166\364\202\164\327\016\371\060\110\076\133\210\076\252 \134\153\326\057\014\350\216\163\302\030\221\203\071\266\146\132 \320\037\140\047\135\115\343\366\072\015\146\120\234\170\173\253 \363\023\020\256\017\057\253\350\144\263\030\040\235\106\065\144 $\label{eq:2.1} 045 \\ 163 \\ 352 \\ 233 \\ 020 \\ 134 \\ 130 \\ 065 \\ 211 \\ 261 \\ 106 \\ 110 \\ 247 \\ 364 \\ 254 \\ 324 \\ 3$ \035\236\133\314\251\245\032\023\117\044\120\252\331\033\155\261 \100\373\235\335\130\164\304\302\157\024\162\354\333\065\237\270 \124\165\105\303\246\310\032\050\065\072\256\145\362\251\230\316 \257\133\311\070\214\061\073\177\314\334\226\375\342\133\326\320 \131\364\166\272\013\313\117\203\020\307\100\320\035\140\351\052 \345\110\130\167\014\105\151\276\031\161\004\044\342\343\044\037 \112\310\301\076\231\365\226\230\070\110\045\241\025\260\033\327 \342\204\030\133\366\161\065\232\150\173\100\314\030\134\014\044 \235\324\225\365\231\252\106\352\256\254\277\364\024\031\044\350 \214\354\343\365\274\006\150\212\052\014\005\137\012\227\165\247 \334\176\300\375\327\172\030\337\060\321\070\113\037\260\230\160 \277\314\174\163\360\156\304\061\245\244\227\035\254\277\316\154 $\label{eq:2.1} \end{tabular} \end{tabular}$ $\label{eq:2.1} \end{tabular} \end{tabular}$ \376\352\011\354\247\050\140\213\106\174\265\352\233\335\117\371 \347\153\025\306\210\317\103\333\345\047\334\004\126\156\157\106 \025\361\126\055\350\134\014\163\303\043\201\070\040\313\311\014 \151\317\054\253\073\204\140\063\031\122\375\151\024\063 END CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE

CKA_NSS_SERVER_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

\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

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

\175\360 **END** CKA_VALUE MULTILINE_OCTAL \060\202\002\132\060\202\001\341\240\003\002\001\002\002\020\061 \150\331\330\341\142\127\036\322\031\104\210\346\020\175\360\060 \012\006\010\052\206\110\316\075\004\003\003\060\157\061\013\060 \011\006\003\125\004\006\023\002\107\122\061\067\060\065\006\003 \125\004\012\014\056\110\145\154\154\145\156\151\143\040\101\143 \040\103\101\061\047\060\045\006\003\125\004\003\014\036\110\101

MULTILINE OCTAL

CKA_SERIAL_NUMBER

END

CKA ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

\061 END

\061

\164\151\157\156\163\040\103\101\061\047\060\045\006\003\125\004 $\label{eq:1003} \\ 003 \\ 014 \\ 036 \\ 110 \\ 101 \\ 122 \\ 111 \\ 103 \\ 101 \\ 040 \\ 103 \\ 154 \\ 151 \\ 145 \\ 156 \\ 164$ \040\105\103\103\040\122\157\157\164\040\103\101\040\062\060\062

\164\151\157\156\163\040\103\101\061\047\060\045\006\003\125\004 $\label{eq:1003} \\ 003 \\ 014 \\ 036 \\ 110 \\ 101 \\ 122 \\ 111 \\ 103 \\ 101 \\ 040 \\ 103 \\ 154 \\ 151 \\ 145 \\ 156 \\ 164$

\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

CKA_SUBJECT MULTILINE_OCTAL

CKA CERTIFICATE TYPE CK CERTIFICATE TYPE CKC X 509

 $\label{eq:151} $$ 151\143\040\101\143\141\144\145\155\151\143\040\141\156\144\040 $$$

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

\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

CKA_LABEL UTF8 "HARICA Client ECC Root CA 2021"

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

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

Fingerprint (SHA-256):

Feb 13 11:03:33 2045

Not Valid After : Mon

Not Valid Before: Fri Feb 19 11:03:34 2021

Subject: CN=HARICA Client ECC Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR

\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 $\label{eq:1003} \\ 125\004\012\014\056\110\145\154\154\145\156\151\143\040\101$ $\label{eq:143} \\ 143 \\ 144 \\ 145 \\ 155 \\ 151 \\ 143 \\ 040 \\ 141 \\ 156 \\ 144 \\ 040 \\ 122 \\ 145 \\ 163 \\ 145 \\ 155 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 125 \\ 145 \\$ $\label{eq:141162143150040111156163164151164165164151157156} \\$ \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 \070\312\056\361\324\035\362\242\111\242\225\370\301\130\136\117 \376\163\012\357\061\260\253\043\130\023\214\213\336\073 END

CKA_NSS_MOZILLA_CA_POLICY

CK_BBOOL CK_TRUE

CKA_NSS_SERVER_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):

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: CARRENT CONTRACT CONTRACT

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 $\label{eq:276} $$ \frac{276}{144}323}32\\024\\113\\322\\153\\315\\257\\217\\333\\246\\246\\162\\370$ \336\046\371\000 END CKA CERT MD5 HASH MULTILINE OCTAL \255\270\120\246\251\202\172\154\075\032\252\244\322\143\244\104 END CKA ISSUER MULTILINE OCTAL \060\157\061\013\060\011\006\003\125\004\006\023\002\107\122\061 \067\060\065\006\003\125\004\012\014\056\110\145\154\154\145\156 \164\151\157\156\163\040\103\101\061\047\060\045\006\003\125\004 $\label{eq:1003} \\ 003 \\ 014 \\ 036 \\ 110 \\ 101 \\ 122 \\ 111 \\ 103 \\ 101 \\ 040 \\ 103 \\ 154 \\ 151 \\ 145 \\ 156 \\ 164$ \040\105\103\103\040\122\157\157\164\040\103\101\040\062\060\062 \061 END CKA SERIAL NUMBER MULTILINE OCTAL \002\020\061\150\331\330\341\142\127\036\322\031\104\210\346\020 \175\360 END CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST

CKA TRUST EMAIL PROTECTION CK TRUST CKT NSS TRUSTED DELEGATOR

CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST

CKA_TRUST_STEP_UP_APPROVED

CK_BBOOL CK_FALSE

#

Certificate "Autoridad de Certificacion Firmaprofesional CIF A62634068"

#

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

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

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

Not Valid Before: Tue Sep 23 15:22:07 2014

Not Valid After : Mon May 05 15:22:07 2036

Fingerprint (SHA-256):

57:DE:05:83:EF:D2:B2:6E:03:61:DA:99:DA:9D:F4:64:8D:EF:7E:E8:44:1C:3B:72:8A:FA:9B:CD:E0:F9:B2:6A # Fingerprint (SHA1): 0B:BE:C2:27:22:49:CB:39:AA:DB:35:5C:53:E3:8C:AE:78:FF:B6:FE

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "Autoridad de Certificacion Firmaprofesional CIF A62634068"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL

\060\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 $\label{eq:10116516415716215114414144040144145040103145162$ \164\151\146\151\143\141\143\151\157\156\040\106\151\162\155\141 $\label{eq:160} $$ 160\162\157\146\145\163\151\157\156\141\154\040\103\111\106\040 $$$ \101\066\062\066\063\064\060\066\070\060\036\027\015\061\064\060 \071\062\063\061\065\062\062\060\067\132\027\015\063\066\060\065 \060\065\061\065\062\062\060\067\132\060\121\061\013\060\011\006 \003\125\004\006\023\002\105\123\061\102\060\100\006\003\125\004 $\label{eq:2.151} \\ 003 \\ 014 \\ 071 \\ 101 \\ 165 \\ 164 \\ 157 \\ 162 \\ 151 \\ 144 \\ 141 \\ 144 \\ 040 \\ 144 \\ 145 \\ 145$ \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 \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 \271\340\076\064\376\147\364\076\146\321\323\364\100\317\136\142

CKA VALUE MULTILINE OCTAL

END

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

CKA_SERIAL_NUMBER MULTILINE_OCTAL

END

\060\066\070

CKA_ISSUER MULTILINE_OCTAL \060\121\061\013\060\011\006\003\125\004\006\023\002\105\123\061 \102\060\100\006\003\125\004\003\014\071\101\165\164\157\162\151 \144\141\144\040\144\145\040\103\145\162\164\151\146\151\143\141 \143\151\157\156\040\106\151\162\155\141\160\162\157\146\145\163 \151\157\156\141\154\040\103\111\106\040\101\066\062\066\063\064

UIFO U CVA ISSUED MUUTU DU

UTF8 "0"

CKA ID

END

\060\066\070

\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 $\label{eq:246} \end{tabular} \end{tabular}$ \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 \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\013\035\203\266 \072\247\350\105\212\007\267\340\076\040\313\341\010\333\023\010 \370\050\241\065\262\200\263\013\121\300\323\126\232\215\063\105 \111\257\111\360\340\075\007\172\105\023\132\377\310\227\330\323 \030\054\175\226\370\335\242\145\103\160\223\220\025\272\220\337 \350\031\260\333\054\212\140\017\267\157\224\007\036\035\246\311 \205\366\275\064\370\100\170\142\020\160\072\276\175\113\071\201 \251\020\324\226\101\273\370\137\034\013\035\010\362\261\260\211 \172\362\367\240\340\304\217\213\170\265\073\130\245\043\216\117

\125\376\066\073\340\014\267\312\052\060\101\040\264\200\315\256 \374\166\146\163\250\256\156\341\174\332\003\350\224\040\346\042 \243\320\037\220\135\040\123\024\046\127\332\124\227\337\026\104 \020\001\036\210\146\217\162\070\223\335\040\267\064\276\327\361 \356\143\216\107\171\050\006\374\363\131\105\045\140\042\063\033 \243\137\250\272\052\332\032\075\315\100\352\214\356\005\025\225 \325\245\054\040\057\247\230\050\356\105\374\361\270\210\000\054 \217\102\332\121\325\234\345\023\150\161\105\103\213\236\013\041 \074\113\134\005\334\032\237\230\216\332\275\042\236\162\315\255 \012\313\314\243\147\233\050\164\304\233\327\032\074\004\130\246 \202\235\255\307\173\157\377\200\226\351\370\215\152\275\030\220 \035\377\111\032\220\122\067\223\057\074\002\135\202\166\013\121 \347\026\307\127\370\070\371\247\315\233\042\124\357\143\260\025 \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 $\label{eq:104} $$ 104\346\125\166\033\200\025\127\377\300\247\247\252\071\252\330\$ \323\160\320\056\272\353\224\152\372\137\064\206\347\142\265\375 \212\360\060\205\224\311\257\044\002\057\157\326\335\147\376\343 \260\125\117\004\230\117\244\101\126\342\223\320\152\350\326\363 \373\145\340\316\165\304\061\131\014\356\202\310\014\140\063\112 $\label{eq:2.1} \end{tabular} \end{tabular}$ 006137244274372040174125END 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

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

 $170\377\266\376$

END

CKA_CERT_MD5_HASH

MULTILINE OCTAL

\116\156\233\124\114\312\267\372\110\344\220\261\025\113\034\243 **END** CKA ISSUER MULTILINE OCTAL \060\121\061\013\060\011\006\003\125\004\006\023\002\105\123\061 \102\060\100\006\003\125\004\003\014\071\101\165\164\157\162\151 $\label{eq:143} \\ 151 \\ 157 \\ 156 \\ 040 \\ 106 \\ 151 \\ 162 \\ 155 \\ 141 \\ 160 \\ 162 \\ 157 \\ 146 \\ 145 \\ 163 \\$ \151\157\156\141\154\040\103\111\106\040\101\066\062\066\063\064 \060\066\070 END CKA_SERIAL_NUMBER MULTILINE_OCTAL \002\010\033\160\351\322\377\256\154\161 **END** CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST CKA TRUST STEP UP APPROVED CK BBOOL CK FALSE # # Certificate "vTrus ECC Root CA" # # Issuer: CN=vTrus ECC Root CA,O="iTrusChina Co.,Ltd.",C=CN # Serial Number:6e:6a:bc:59:aa:53:be:98:39:67:a2:d2:6b:a4:3b:e6:6d:1c:d6:da # Subject: CN=vTrus ECC Root CA,O="iTrusChina Co.,Ltd.",C=CN # Not Valid Before: Tue Jul 31 07:26:44 2018 # Not Valid After : Fri Jul 31 07:26:44 2043 # Fingerprint (SHA-256): 30:FB:BA:2C:32:23:8E:2A:98:54:7A:F9:79:31:E5:50:42:8B:9B:3F:1C:8E:EB:66:33:DC:FA:86:C5:B2:7D:D3 # Fingerprint (SHA1): F6:9C:DB:B0:FC:F6:02:13:B6:52:32:A6:A3:91:3F:16:70:DA:C3:E1 CKA CLASS CK OBJECT CLASS CKO CERTIFICATE CKA_TOKEN CK_BBOOL CK_TRUE CKA PRIVATE CK BBOOL CK FALSE CKA_MODIFIABLE CK_BBOOL CK_FALSE CKA LABEL UTF8 "vTrus ECC Root CA" CKA CERTIFICATE TYPE CK CERTIFICATE TYPE CKC X 509 CKA_SUBJECT MULTILINE_OCTAL \060\107\061\013\060\011\006\003\125\004\006\023\002\103\116\061 \034\060\032\006\003\125\004\012\023\023\151\124\162\165\163\103 \150\151\156\141\040\103\157\056\054\114\164\144\056\061\032\060 \030\006\003\125\004\003\023\021\166\124\162\165\163\040\105\103 \103\040\122\157\157\164\040\103\101 END CKA ID UTF8 "0" CKA_ISSUER MULTILINE_OCTAL \060\107\061\013\060\011\006\003\125\004\006\023\002\103\116\061 \034\060\032\006\003\125\004\012\023\023\151\124\162\165\163\103

CKA SERIAL NUMBER MULTILINE OCTAL \002\024\156\152\274\131\252\123\276\230\071\147\242\322\153\244 \073\346\155\034\326\332 END CKA VALUE MULTILINE OCTAL \060\202\002\017\060\202\001\225\240\003\002\001\002\002\024\156 \152\274\131\252\123\276\230\071\147\242\322\153\244\073\346\155 \034\326\332\060\012\006\010\052\206\110\316\075\004\003\003\060 \107\061\013\060\011\006\003\125\004\006\023\002\103\116\061\034 \060\032\006\003\125\004\012\023\023\151\124\162\165\163\103\150 \151\156\141\040\103\157\056\054\114\164\144\056\061\032\060\030 \006\003\125\004\003\023\021\166\124\162\165\163\040\105\103\103 \040\122\157\157\164\040\103\101\060\036\027\015\061\070\060\067 \063\061\060\067\062\066\064\064\132\027\015\064\063\060\067\063 \061\060\067\062\066\064\064\132\060\107\061\013\060\011\006\003 \125\004\006\023\002\103\116\061\034\060\032\006\003\125\004\012 \023\023\151\124\162\165\163\103\150\151\156\141\040\103\157\056 \054\114\164\144\056\061\032\060\030\006\003\125\004\003\023\021 \166\124\162\165\163\040\105\103\103\040\122\157\157\164\040\103 \101\060\166\060\020\006\007\052\206\110\316\075\002\001\006\005 \053\201\004\000\042\003\142\000\004\145\120\112\256\214\171\226 \112\252\034\010\303\243\242\315\376\131\126\101\167\375\046\224 $\label{eq:273} 035 315 010 333 163 262 133 165 363 317 234 116 202 364$ \277\370\141\046\205\154\326\205\133\162\160\322\375\333\142\264 \337\123\213\275\261\104\130\142\102\011\307\372\177\133\020\347 \376\100\375\300\330\303\053\062\347\160\246\267\246\040\125\035 \173\200\135\113\217\147\114\361\020\243\102\060\100\060\035\006 \003\125\035\016\004\026\004\024\230\071\315\276\330\262\214\367 \262\253\341\255\044\257\173\174\241\333\037\317\060\017\006\003 \125\035\023\001\001\377\004\005\060\003\001\001\377\060\016\006 \003\125\035\017\001\001\377\004\004\003\002\001\006\060\012\006 \010\052\206\110\316\075\004\003\003\003\150\000\060\145\002\060 \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

\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_NSS_SERVER_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

103040122157157164040103101

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

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

\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

CKA_VALUE MULTILINE_OCTAL \060\202\005\126\060\202\003\076\240\003\002\001\002\002\024\103 \343\161\023\330\263\131\024\135\267\316\214\375\065\375\157\274 \005\215\105\060\015\006\011\052\206\110\206\367\015\001\001\013 \005\000\060\103\061\013\060\011\006\003\125\004\006\023\002\103 \116\061\034\060\032\006\003\125\004\012\023\023\151\124\162\165 \163\103\150\151\156\141\040\103\157\056\054\114\164\144\056\061 \122\157\157\164\040\103\101\060\036\027\015\061\070\060\067\063 \061\060\067\062\064\060\065\132\027\015\064\063\060\067\063\061 \060\067\062\064\060\065\132\060\103\061\013\060\011\006\003\125 \004\006\023\002\103\116\061\034\060\032\006\003\125\004\012\023 \023\151\124\162\165\163\103\150\151\156\141\040\103\157\056\054 \114\164\144\056\061\026\060\024\006\003\125\004\003\023\015\166 \124\162\165\163\040\122\157\157\164\040\103\101\060\202\002\042 \060\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003 \202\002\017\000\060\202\002\012\002\202\002\001\000\275\125\174 $\label{eq:141} $$ 141\323\270\035\004\142\005\240\256\154\267\160\264\101\352\113$

CKA SERIAL NUMBER MULTILINE OCTAL \002\024\103\343\161\023\330\263\131\024\135\267\316\214\375\065

END

\375\157\274\005\215\105

END

\157\164\040\103\101

\157\164\040\103\101

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 \024\006\003\125\004\003\023\015\166\124\162\165\163\040\122\157

END CKA ID UTF8 "0"

\034\060\032\006\003\125\004\012\023\023\151\124\162\165\163\103

\024\006\003\125\004\003\023\015\166\124\162\165\163\040\122\157

\060\103\061\013\060\011\006\003\125\004\006\023\002\103\116\061

CKA_SUBJECT MULTILINE_OCTAL

CK_CERTIFICATE_TYPE CKC_X_509

CKA_LABEL UTF8 "vTrus Root CA"

CKA CERTIFICATE TYPE

CKA_TOKEN CK_BBOOL CK_TRUE CKA PRIVATE CK BBOOL CK FALSE CKA MODIFIABLE CK BBOOL CK FALSE

CKA CLASS CK OBJECT CLASS CKO CERTIFICATE

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

Fingerprint (SHA-256):

Not Valid After : Fri Jul 31 07:24:05 2043

\003\136\020\077\220\132\034\213\073\260\146\213\154\110\246\034 \042\272\325\100\222\356\063\262\043\131\311\216\274\130\332\213 \236\320\031\362\057\131\306\214\143\132\272\237\243\013\260\263 \232\134\272\021\270\022\351\014\273\317\156\154\200\207\051\024 \003\054\215\044\232\310\144\203\265\152\254\023\054\063\361\237 \334\054\141\074\032\077\160\125\233\255\000\122\177\317\004\271 \376\066\372\234\300\026\256\142\376\226\114\103\176\125\024\276 \032\263\322\155\302\257\166\146\225\153\052\260\224\167\205\136 \004\017\142\035\143\165\367\153\347\313\133\232\160\354\076\147 \005\360\376\007\010\200\317\050\333\005\306\024\047\057\206\175 \360\047\336\377\346\176\063\110\347\013\036\130\321\047\053\123 $\label{eq:2.112} $$ 016\127\112\145\327\373\242\200\140\374\114\274\065\123\001\152\$ \227\162\202\257\361\035\160\350\234\365\357\136\302\154\307\107 $\label{eq:176} $$ 132\224\205\046\115\073\272\353\114\350\260\011\302\145\302 $$$ \235\235\011\233\116\265\227\005\254\365\006\240\367\066\005\176 \364\220\262\153\304\264\371\144\352\351\032\012\310\015\250\355 $\label{eq:220} \\ (047 \ 311 \ 324 \ 347 \ 263 \ 271 \ 253 \ 202 \ 042 \ 220 \ 047 \ 075 \ 052 \ 350 \ 174 \ 220 \ 220$ \357\274\117\375\342\012\044\247\336\145\044\244\135\352\300\166 \060\323\167\120\370\015\004\233\224\066\001\163\312\006\130\246 $\label{eq:22} \end{tabular} $$ 323\073\334\372\004\106\023\125\212\311\104\107\270\121\071\032 $$$ \056\350\064\342\171\313\131\112\012\177\274\246\357\037\003\147 $\label{eq:152} $$ 152\131\053\045\142\223\31\123\031\146\074\047\142\051\206\115\$ \244\153\356\377\324\116\272\325\264\342\216\110\132\000\031\011 \361\005\331\316\221\261\367\353\351\071\117\366\157\004\103\232 \125\365\076\005\024\275\277\263\131\264\330\216\063\204\243\220 \122\252\263\002\225\140\371\014\114\150\371\356\325\027\015\370 \161\127\265\045\344\051\356\145\135\257\321\356\074\027\013\132 \103\305\245\206\352\044\236\342\005\007\334\064\102\022\221\326 \071\164\256\114\101\202\333\362\246\110\321\263\233\363\063\252 \363\246\300\305\116\365\364\235\166\143\346\002\306\042\113\301 \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\001\000\051\272\222\111\247\255 \360\361\160\303\344\227\360\237\251\045\325\153\236\064\376\346 \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 $\label{eq:113} 305 131 010 007 207 276 305 303 177 347 226 331 341 334 050$ \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 \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 \114\054\052\213\201\117\161\032\251\335\134\173\173\010\305 $\label{eq:247} $$ 000\015\067\100\343\174\173\124\137\057\205\137\166\366\367\247 $$$ \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

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

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

 $375\157\274\005\215\105$

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

\125\004\003\023\014\111\123\122\107\040\122\157\157\164\040\130

\062

END

CKA_ID

UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

\060\117\061\013\060\011\006\003\125\004\006\023\002\125\123\061

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 $\label{eq:125} 004 012 023 040 111 156 164 145 162 156 145 164 040 123 145$ \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 $\label{eq:145} $$ 143 165 162 151 164 171 040 122 145 163 145 141 162 143 150 $$$ \040\107\162\157\165\160\061\025\060\023\006\003\125\004\003\023 \014\111\123\122\107\040\122\157\157\164\040\130\062\060\166\060 \020\006\007\052\206\110\316\075\002\001\006\005\053\201\004\000 \042\003\142\000\004\315\233\325\237\200\203\012\354\011\112\363 \026\112\076\134\317\167\254\336\147\005\015\035\007\266\334\026 \373\132\213\024\333\342\161\140\304\272\105\225\021\211\216\352 \006\337\367\052\026\034\244\271\305\305\062\340\003\340\036\202 \030\070\213\327\105\330\012\152\156\346\000\167\373\002\121\175 \042\330\012\156\232\133\167\337\360\372\101\354\071\334\165\312 \150\007\014\037\352\243\102\060\100\060\016\006\003\125\035\017 \001\001\377\004\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 $\label{eq:label_$ $\label{eq:120} $$ 120\204\302\104\207\106\033\105\160\377\130\231\336\364\375\244 $$$ \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

207122

END

END

\062

 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

 $\label{eq: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

\062

END

CKA_SERIAL_NUMBER

MULTILINE_OCTAL

\002\020\101\322\235\321\162\352\356\247\200\301\054\154\351\057 \207\122

END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#

Certificate "HiPKI Root CA - G1"

#

Issuer: CN=HiPKI Root CA - G1,O="Chunghwa Telecom Co., Ltd.",C=TW

```
# Serial Number:2d:dd:ac:ce:62:97:94:a1:43:e8:b0:cd:76:6a:5e:60
```

Subject: CN=HiPKI Root CA - G1,O="Chunghwa Telecom Co., Ltd.",C=TW

Not Valid Before: Fri Feb 22 09:46:04 2019

Not Valid After : Thu Dec 31 15:59:59 2037

Fingerprint

(SHA-256):

F0:15:CE:3C:C2:39:BF:EF:06:4B:E9:F1:D2:C4:17:E1:A0:26:4A:0A:94:BE:1F:0C:8D:12:18:64:EB:69:49:CC # Fingerprint (SHA1): 6A:92:E4:A8:EE:1B:EC:96:45:37:E3:29:57:49:CD:96:E3:E5:D2:60

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "HiPKI Root CA - G1"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL

\060\117\061\013\060\011\006\003\125\004\006\023\002\124\127\061 \043\060\041\006\003\125\004\012\014\032\103\150\165\156\147\150 \167\141\040\124\145\154\145\143\157\155\040\103\157\056\054\040

\114\164\144\056\061\033\060\031\006\003\125\004\003\014\022\110

\151\120\113\111\040\122\157\164\040\103\101\040\055\040\107

\061

END

CKA_ID UTF8 "0"

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 \ 012 \ 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 \ 066 \ 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

\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 $\label{eq:171} $$ 171\347\137\175\102\144\071\172\046\066\367\044\360\325\057\272$ \225\230\021\146\255\227\065\326\165\001\200\340\257\364\204\141 \214\015\036\137\174\207\226\136\101\257\353\207\352\370\135\361 \056\210\005\076\114\042\273\332\037\052\335\122\106\144\071\363 \102\316\331\236\014\263\260\167\227\144\234\300\364\243\056\037 \225\007\260\027\337\060\333\000\030\226\114\241\201\113\335\004 \155\123\243\075\374\007\254\324\305\067\202\353\344\225\010\031 \050\202\322\102\072\243\330\123\354\171\211\140\110\140\310\162 \222\120\334\003\217\203\077\262\102\127\132\333\152\351\021\227 \335\205\050\274\060\114\253\343\302\261\105\104\107\037\340\212 \026\007\226\322\041\017\123\300\355\251\176\324\116\354\233\011 \354\257\102\254\060\326\277\321\020\105\340\246\026\262\245\305 \323\117\163\224\063\161\002\241\152\243\326\063\227\117\041\143 \036\133\217\331\301\136\105\161\167\017\201\135\137\041\232\255 \203\314\372\136\326\215\043\137\033\075\101\257\040\165\146\132 \112\366\237\373\253\030\367\161\300\266\035\061\354\073\040\353 \313\342\270\365\256\222\262\367\341\204\113\362\242\362\223\232 \042\236\323\024\157\066\124\275\037\136\131\025\271\163\250\301 \174\157\173\142\351\026\154\107\132\145\363\016\021\233\106\331 \375\155\334\326\234\300\264\175\245\260\335\077\126\157\241\371 \366\344\022\110\375\006\177\022\127\266\251\043\117\133\003\303 \340\161\052\043\267\367\260\261\073\274\230\275\326\230\250\014 \153\366\216\022\147\246\362\262\130\344\002\011\023\074\251\273 \020\264\322\060\105\361\354\367\000\021\337\145\370\334\053\103 \125\277\026\227\304\017\325\054\141\204\252\162\206\376\346\072 \176\302\077\175\356\374\057\024\076\346\205\335\120\157\267\111 \355\002\003\001\000\001\243\102\060\100\060\017\006\003\125\035 \023\001\001\377\004\005\060\003\001\001\377\060\035\006\003\125 \035\016\004\026\004\024\362\167\027\372\136\250\376\366\075\161 \325\150\272\311\106\014\070\330\257\260\060\016\006\003\125\035 \017\001\001\377\004\003\002\001\206\060\015\006\011\052\206 \110\206\367\015\001\001\013\005\000\003\202\002\001\000\120\121 \360\165\334\160\004\343\377\252\165\324\161\242\313\236\217\250 \251\323\257\165\307\124\317\072\034\004\231\042\254\304\021\342 \357\063\112\246\043\035\016\015\107\330\067\307\157\257\064\177 \117\201\153\065\117\351\162\245\061\342\170\347\367\116\224\030 \133\100\175\317\153\041\124\206\346\225\172\373\306\312\352\234 \110\116\127\011\135\057\254\364\245\264\227\063\130\325\254\171

\251\314\137\371\205\372\122\305\215\370\221\024\353\072\015\027 \320\122\302\173\343\302\163\216\106\170\006\070\054\350\134\332 $\label{eq:146} $$ 146\304\364\244\360\126\031\063\051\132\145\222\005\107\106\112 $$$ \253\204\303\036\047\241\037\021\222\231\047\165\223\017\274\066 \073\227\127\217\046\133\014\273\234\017\324\156\060\007\324\334 \137\066\150\146\071\203\226\047\046\212\310\304\071\376\232\041 \157\325\162\206\351\177\142\345\227\116\320\044\320\100\260\320 \165\010\216\275\150\356\010\327\156\174\020\160\106\033\174\340 \210\262\236\162\206\231\001\343\277\237\111\031\264\045\276\126 \145\256\027\143\345\036\337\350\377\107\245\277\341\046\005\204 \344\260\300\257\347\010\231\250\014\136\046\200\105\324\370\150 \057\226\217\256\342\112\034\234\026\014\023\157\070\207\366\273 \310\064\137\222\003\121\171\160\246\337\313\365\231\115\171\315 \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

\152\222\344\250\356\033\354\226\105\067\343\051\127\111\315\226 \343\345\322\140 END CKA_CERT_MD5_HASH MULTILINE_OCTAL \151\105\337\026\145\113\350\150\232\217\166\137\377\200\236\323 **END** CKA ISSUER MULTILINE OCTAL \060\117\061\013\060\011\006\003\125\004\006\023\002\124\127\061 \043\060\041\006\003\125\004\012\014\032\103\150\165\156\147\150 \114\164\144\056\061\033\060\031\006\003\125\004\003\014\022\110 \151\120\113\111\040\122\157\157\164\040\103\101\040\055\040\107 \061 END CKA SERIAL NUMBER MULTILINE OCTAL \002\020\055\335\254\316\142\227\224\241\103\350\260\315\166\152 \136\140 **END** CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR CKA TRUST EMAIL PROTECTION CK TRUST CKT NSS MUST VERIFY TRUST CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE # # Certificate "GlobalSign ECC Root CA - R4" # # Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R4 # Serial Number:02:03:e5:7e:f5:3f:93:fd:a5:09:21:b2:a6 # Subject: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R4 # Not Valid Before: Tue Nov 13 00:00:00 2012 # Not Valid After : Tue Jan 19 03:14:07 2038 # Fingerprint (SHA-256): B0:85:D7:0B:96:4F:19:1A:73:E4:AF:0D:54:AE:7A:0E:07:AA:FD:AF:9B:71:DD:08:62:13:8A:B7:32:5A:24:A2 # Fingerprint (SHA1): 6B:A0:B0:98:E1:71:EF:5A:AD:FE:48:15:80:77:10:F4:BD:6F:0B:28 CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE CKA_TOKEN CK_BBOOL CK_TRUE CKA_PRIVATE CK_BBOOL CK_FALSE CKA_MODIFIABLE CK_BBOOL CK_FALSE CKA_LABEL UTF8 "GlobalSign ECC Root CA - R4" CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509 CKA_SUBJECT MULTILINE_OCTAL \060\120\061\044\060\042\006\003\125\004\013\023\033\107\154\157 $\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\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

CKA_NSS_MOZILLA_CA_POLICY

\060\202\001\334\060\202\001\203\240\003\002\001\002\002\015\002 \003\345\176\365\077\223\375\245\011\041\262\246\060\012\006\010 \052\206\110\316\075\004\003\002\060\120\061\044\060\042\006\003 $\label{eq:125} 004 013 023 033 107 154 157 142 141 154 123 151 147 156 040$ \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 $\label{eq:154} $$ 151\147\156\061\023\060\021\006\003\125\004\003\023\012 $$$ \107\154\157\142\141\154\123\151\147\156\060\036\027\015\061\062 \061\061\061\063\060\060\060\060\060\060\132\027\015\063\070\060 \061\061\071\060\063\061\064\060\067\132\060\120\061\044\060\042 \006\003\125\004\013\023\033\107\154\157\142\141\154\123\151\147 \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 $\label{eq:23} 012 107 154 157 142 141 154 123 151 147 156 060 131 060 023$ \006\007\052\206\110\316\075\002\001\006\010\052\206\110\316\075 \003\001\007\003\102\000\004\270\306\171\323\217\154\045\016\237 \056\071\031\034\003\244\256\232\345\071\007\011\026\312\143\261 \271\206\370\212\127\301\127\316\102\372\163\241\367\145\102\377 \036\301\000\262\156\163\016\377\307\041\345\030\244\252\331\161 \077\250\324\271\316\214\035\243\102\060\100\060\016\006\003\125 \035\017\001\001\377\004\003\002\001\206\060\017\006\003\125 \035\023\001\001\377\004\005\060\003\001\001\377\060\035\006\003 \125\035\016\004\026\004\024\124\260\173\255\105\270\342\100\177 \373\012\156\373\276\063\311\074\243\204\325\060\012\006\010\052 \206\110\316\075\004\003\002\003\107\000\060\104\002\040\042\117 \164\162\271\140\257\361\346\234\240\026\005\120\137\303\136\073 \156\141\164\357\276\001\304\276\030\110\131\141\202\062\002\040 \046\235\124\143\100\336\067\140\120\317\310\330\355\235\202\256 \067\230\274\243\217\114\114\251\064\053\154\357\373\225\233\046 END

END

MULTILINE_OCTAL \002\015\002\003\345\176\365\077\223\375\245\011\041\262\246

CKA_SERIAL_NUMBER

CKA VALUE MULTILINE OCTAL

END

147 156

CKA_ID UTF8 "0" CKA_ISSUER MULTILINE_OCTAL \060\120\061\044\060\042\006\003\125\004\013\023\033\107\154\157 \142\141\154\123\151\147\156\040\105\103\103\040\122\157\157\164 \040\103\101\040\055\040\122\064\061\023\060\021\006\003\125\004 \012\023\012\107\154\157\142\141\154\123\151\147\156\061\023\060 \021\006\003\125\004\003\023\012\107\154\157\142\141\154\123\151

\147\156 END 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

\046\051\370\155\341\210\277\242\145\177\252\304\315\017\177\374 END

CKA_ISSUER MULTILINE_OCTAL

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

 $\label{eq:list} $$ 123\040\122\157\157\164\040\122\061 $$

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

\002\015\002\003\345\223\157\061\260\023\111\210\153\242\027 END

CKA_VALUE MULTILINE_OCTAL

\060\202\005\127\060\202\003\077\240\003\002\001\002\002\015\002 \003\345\223\157\061\260\023\111\210\153\242\027\060\015\006\011 \052\206\110\206\367\015\001\001\014\005\000\060\107\061\013\060 \011\006\003\125\004\006\023\002\125\123\061\042\060\040\006\003 $\label{eq:2.125} 004 012 023 031 107 157 157 147 154 145 040 124 162 165 163$ $\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 \074\241\375\202\371\175\062\006\202\161\366\366\214\177\373\350 \333\274\152\056\227\243\214\113\371\053\366\261\371\316\204 \035\261\371\305\227\336\357\271\362\243\351\274\022\211\136\247 \252\122\253\370\043\047\313\244\261\234\143\333\327\231\176\360 \012\136\353\150\246\364\306\132\107\015\115\020\063\343\116\261 \023\243\310\030\154\113\354\374\011\220\337\235\144\051\045\043 \007\241\264\322\075\056\140\340\317\322\011\207\273\315\110\360 \115\302\302\172\210\212\273\272\317\131\031\326\257\217\260\007 \260\236\061\361\202\301\300\337\056\246\155\154\031\016\265\330 \176\046\032\105\003\075\260\171\244\224\050\255\017\177\046\345 \250\010\376\226\350\074\150\224\123\356\203\072\210\053\025\226 \011\262\340\172\214\056\165\326\234\353\247\126\144\217\226\117 \150\256\075\227\302\204\217\300\274\100\300\013\134\275\366\207 $\label{eq:263} \\ (263) \\ (05) \\ 154) \\ (254) \\ (030) \\ 120) \\ (177) \\ (204) \\ (340) \\ (114) \\ (315) \\ (222) \\ (323) \\ (040) \\ (351) \\ (063)$ \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 $\label{eq:24} \end{tabular} 1013 \\ 265 \\ 305 \\ 305 \\ 212 \\ 125 \\ 253 \\ 323 \\ 254 \\ 352 \\ 221 \\ 113 \\ 051 \\ 314 \\ 031 \\ 244 \\ 312 \\ 44 \\ 312 \\ 314 \\ 314 \\ 312 \\ 314 \\ 314 \\ 312 \\ 314 \\ 312 \\ 314 \\$ \062\045\116\052\361\145\104\320\002\316\252\316\111\264\352\237 \174\203\260\100\173\347\103\253\247\154\243\217\175\211\201\372 $\label{eq:114} $$ 14\245\377\325\216\303\316\113\340\265\330\263\216\105\317\166\$ \300\355\100\053\375\123\017\260\247\325\073\015\261\212\242\003 \336\061\255\314\167\352\157\173\076\326\337\221\042\022\346\276 \372\330\062\374\020\143\024\121\162\336\135\326\026\223\275\051 \150\063\357\072\146\354\007\212\046\337\023\327\127\145\170\047 \336\136\111\024\000\242\000\177\232\250\041\266\251\261\225\260 \245\271\015\026\021\332\307\154\110\074\100\340\176\015\132\315 \126\074\321\227\005\271\313\113\355\071\113\234\304\077\322\125 \023\156\044\260\326\161\372\364\301\272\314\355\033\365\376\201 \101\330\000\230\075\072\310\256\172\230\067\030\005\225\002\003 \001\000\001\243\102\060\100\060\016\006\003\125\035\017\001\001 \377\004\004\003\002\001\206\060\017\006\003\125\035\023\001\001 \377\004\005\060\003\001\001\377\060\035\006\003\125\035\016\004 \054\357\360\211\023\161\076\060\015\006\011\052\206\110\206\367 \015\001\001\014\005\000\003\202\001\000\237\252\102\046\333 \013\233\276\377\036\226\222\056\076\242\145\112\152\230\272\042 \313\175\301\072\330\202\012\006\306\366\245\336\300\116\207\146 \171\241\371\246\130\234\252\371\265\346\140\347\340\350\261\036 \102\101\063\013\067\075\316\211\160\025\312\265\044\250\317\153 \265\322\100\041\230\317\042\064\317\073\305\042\204\340\305\016 \212\174\135\210\344\065\044\316\233\076\032\124\036\156\333\262 \207\247\374\363\372\201\125\024\142\012\131\251\042\005\061\076 \202\326\356\333\127\064\274\063\225\323\027\033\350\047\242\213 \173\116\046\032\172\132\144\266\321\254\067\361\375\240\363\070 \354\162\360\021\165\235\313\064\122\215\346\166\153\027\306\337

\206\253\047\216\111\053\165\146\201\020\041\246\352\076\364\256 \045\377\174\025\336\316\214\045\077\312\142\160\012\367\057\011 \235\303\237\112\336\131\131\107\305\207\042\066\346\202\247\355 \012\271\342\007\240\215\173\172\112\074\161\322\342\003\241\037 \062\007\335\033\344\102\316\014\000\105\141\200\265\013\040\131 \051\170\275\371\125\313\143\305\074\114\364\266\377\333\152\137 \061\153\231\236\054\301\153\120\244\327\346\030\024\275\205\077 $\label{eq:147} $$ 106 237 240 377 102 247 072 177 134 313 135 260 160 035 $$$ \053\064\365\324\166\011\014\353\170\114\131\005\363\063\102\303 $\label{eq:141} $$ 141\025\020\033\167\115\316\042\214\324\205\362\105\175\267\123 $$ \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 \154\376\214\274\362\160\065\014\334\231\031\065\334\327\310\106 \143\325\066\161\256\127\373\267\202\155\334 END CKA NSS MOZILLA CA POLICY CK_BBOOL CK_TRUE CKA NSS SERVER 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

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

\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

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

\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

 $123\040\122\157\157\164\040\122\061$

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

\002\015\002\003\345\223\157\061\260\023\111\210\153\242\027 END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#

Certificate "GTS Root R2"

#

Issuer: CN=GTS Root R2,O=Google Trust Services LLC,C=US

Serial Number:02:03:e5:ae:c5:8d:04:25:1a:ab:11:25:aa

Subject: CN=GTS Root R2,O=Google Trust Services LLC,C=US

Not Valid Before:

Wed Jun 22 00:00:00 2016

Not Valid After : Sun Jun 22 00:00:00 2036

Fingerprint (SHA-256):

8D:25:CD:97:22:9D:BF:70:35:6B:DA:4E:B3:CC:73:40:31:E2:4C:F0:0F:AF:CF:D3:2D:C7:6E:B5:84:1C:7E:A8

Fingerprint (SHA1): 9A:44:49:76:32:DB:DE:FA:D0:BC:FB:5A:7B:17:BD:9E:56:09:24:94

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "GTS Root R2"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL

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

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

\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\062

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

\060\107\061\013\060\011\006\003\125\004\006\023\002\125\123\061 \042\060\040\006\003\125\004\012\023\031\107\157\157\147\154\145

\040\124\162\165\163\164\040\123\145\162\166\151\143\145\163\040

\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 \023\013\107\124\123\040\122\157\157\164\040\122\062\060\202\002 \042\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000 \003\202\002\017\000\060\202\002\012\002\202\002\001\000\316\336 \375\246\373\354\354\024\064\074\007\006\132\154\131\367\031\065 \335\367\301\235\125\252\323\315\073\244\223\162\357\012\372\155 \235\366\360\205\200\133\241\110\122\237\071\305\267\356\050\254 \357\313\166\150\024\271\337\255\001\154\231\037\304\042\035\237 \376\162\167\340\054\133\257\344\004\277\117\162\240\032\064\230 \350\071\150\354\225\045\173\166\241\346\151\271\205\031\275\211 \214\376\255\355\066\352\163\274\377\203\342\313\175\301\322\316 \112\263\215\005\236\213\111\223\337\301\133\320\156\136\360\056 \060\056\202\374\372\274\264\027\012\110\345\210\233\305\233\153 \336\260\312\264\003\360\332\364\220\270\145\144\367\134\114\255 \350\176\146\136\231\327\270\302\076\310\320\023\235\255\356\344 \105\173\211\125\367\212\037\142\122\204\022\263\302\100\227\343 \212\037\107\221\246\164\132\322\370\261\143\050\020\270\263\011 \270\126\167\100\242\046\230\171\306\376\337\045\356\076\345\240 \241\371\301\014\351\241\342\177\273\125\074\166\006\356\152\116 \314\222\210\060\115\232\275\117\013\110\232\204\265\230\243\325 \373\163\301\127\141\335\050\126\165\023\256\207\216\347\014\121 \011\020\165\210\114\274\215\371\173\074\324\042\110\037\052\334 \353\153\273\104\261\313\063\161\062\106\257\255\112\361\214\350 \164\072\254\347\032\042\163\200\322\060\367\045\102\307\042\073 \073\022\255\226\056\306\303\166\007\252\040\267\065\111\127\351 \222\111\350\166\026\162\061\147\053\226\176\212\243\307\224\126

\114\114\103\061\024\060\022\006\003\125\004\003\023\013\107\124

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

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

CKA VALUE MULTILINE OCTAL

CKA_SERIAL_NUMBER MULTILINE OCTAL

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 "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} \end{tabular} $$ \232\104\111\166\062\333\36\372\320\274\373\132\173\027\275\236\8\\$

126011044224

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

 $\label{eq:sphere:sphe$

 $\label{eq:list} $$ 123\040\122\157\157\164\040\122\062 $$

END

CKA_SERIAL_NUMBER

MULTILINE_OCTAL

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

END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#

Certificate "GTS Root R3"

#

Issuer: CN=GTS Root R3,O=Google Trust Services LLC,C=US

Serial Number:02:03:e5:b8:82:eb:20:f8:25:27:6d:3d:66

Subject: CN=GTS Root R3,O=Google Trust Services LLC,C=US

Not Valid Before: Wed Jun 22 00:00:00 2016 # Not Valid After : Sun Jun 22 00:00:00 2036 # Fingerprint (SHA-256): 34:D8:A7:3E:E2:08:D9:BC:DB:0D:95:65:20:93:4B:4E:40:E6:94:82:59:6E:8B:6F:73:C8:42:6B:01:0A:6F:48 # Fingerprint (SHA1): ED:E5:71:80:2B:C8:92:B9:5B:83:3C:D2:32:68:3F:09:CD:A0:1E:46 CKA CLASS CK OBJECT CLASS CKO CERTIFICATE CKA_TOKEN CK_BBOOL CK_TRUE CKA_PRIVATE CK_BBOOL CK_FALSE CKA MODIFIABLE CK BBOOL CK FALSE CKA_LABEL UTF8 "GTS Root R3" CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509 CKA SUBJECT MULTILINE OCTAL \060\107\061\013\060\011\006\003\125\004\006\023\002\125\123\061 \042\060\040\006\003\125\004\012\023\031\107\157\157\147\154\145 \040\124\162\165\163\164\040\123\145\162\166\151\143\145\163\040 \123\040\122\157\157\164\040\122\063 END CKA_ID UTF8 "0" CKA ISSUER MULTILINE OCTAL \060\107\061\013\060\011\006\003\125\004\006\023\002\125\123\061 \042\060\040\006\003\125\004\012\023\031\107\157\157\147\154\145 \040\124\162\165\163\164\040\123\145\162\166\151\143\145\163\040 \114\114\103\061\024\060\022\006\003\125\004\003\023\013\107\124 \123\040\122\157\157\164\040\122\063 END CKA_SERIAL_NUMBER MULTILINE_OCTAL \002\015\002\003\345\270\202\353\040\370\045\047\155\075\146 END CKA_VALUE MULTILINE OCTAL \060\202\002\011\060\202\001\216\240\003\002\001\002\002\015\002 \003\345\270\202\353\040\370\045\047\155\075\146\060\012\006\010 \052\206\110\316\075\004\003\003\060\107\061\013\060\011\006\003 \125\004\006\023\002\125\123\061\042\060\040\006\003\125\004\012 $\label{eq:23} 031 107 157 157 147 154 145 040 124 162 165 163 164 040 123$ \145\162\166\151\143\145\163\040\114\114\103\061\024\060\022\006 $\label{eq:2.125} \\ 003 \\ 125 \\ 004 \\ 003 \\ 023 \\ 013 \\ 107 \\ 124 \\ 123 \\ 040 \\ 122 \\ 157 \\ 157 \\ 164 \\ 040 \\ 122 \\ 127 \\ 157 \\ 164 \\ 040 \\ 122 \\ 127 \\ 157 \\ 164 \\ 040 \\ 122 \\ 127 \\ 157 \\ 164 \\ 040 \\ 122 \\ 127 \\ 157 \\ 164 \\ 040 \\ 122 \\ 127 \\ 157 \\ 164 \\ 040 \\ 122 \\ 127 \\ 157 \\ 164 \\ 040 \\ 122 \\ 127 \\ 157 \\ 157 \\ 164 \\ 040 \\ 122 \\ 157 \\ 157 \\ 164 \\ 040 \\ 122 \\ 157 \\ 157 \\ 164 \\ 040 \\ 122 \\ 157 \\ 157 \\ 164 \\ 040 \\ 122 \\ 127 \\ 157 \\ 157 \\ 164 \\ 040 \\ 122 \\ 127 \\ 157 \\ 157 \\ 157 \\ 164 \\ 122 \\ 127 \\ 157$ \061\042\060\040\006\003\125\004\012\023\031\107\157\157\147\154 $\label{eq:145}040\124\162\165\163\164\040\123\145\162\166\151\143\145\163$ \040\114\114\103\061\024\060\022\006\003\125\004\003\023\013\107 \124\123\040\122\157\157\164\040\122\063\060\166\060\020\006\007 \052\206\110\316\075\002\001\006\005\053\201\004\000\042\003\142

\000\004\037\117\063\207\063\051\212\241\204\336\313\307\041\130

\101\211\352\126\235\053\113\205\306\035\114\047\274\177\046\121 \162\157\342\237\326\243\312\314\105\024\106\213\255\357\176\206 $\label{eq:214} $$ \frac{214}{354} \\ 057 \\ 377 \\ 251 \\ 161 \\ 235 \\ 030 \\ 204 \\ 105 \\ 004 \\ 101 \\ 125 \\ 156 \\ 105 \\ 10$ \053\352\046\177\273\220\001\343\113\031\272\344\124\226\105\011 \261\325\154\221\104\255\204\023\216\232\214\015\200\014\062\366 \340\047\243\102\060\100\060\016\006\003\125\035\017\001\001\377 \004\003\002\001\206\060\017\006\003\125\035\023\001\001\377 \004\005\060\003\001\001\377\060\035\006\003\125\035\016\004\026 $\label{eq:22} \end{tabular} \end{tabular}$ \275\270\012\147\375\274\060\012\006\010\052\206\110\316\075\004 \003\003\003\151\000\060\146\002\061\000\366\341\040\225\024\173 $\label{eq:243} $$ 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 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

 $\label{eq:224} $$ 076 347 235 130 002 224 106 121 224 345 340 042 112 213 347 163$

END

CKA_ISSUER MULTILINE_OCTAL

\060\107\061\013\060\011\006\003\125\004\006\023\002\125\123\061 \042\060\040\006\003\125\004\012\023\031\107\157\157\147\154\145

\040\124\162\165\163\164\040\123\145\162\166\151\143\145\163\040 \114\114\103\061\024\060\022\006\003\125\004\003\023\013\107\124 \123\040\122\157\157\164\040\122\063 END CKA SERIAL NUMBER MULTILINE OCTAL \002\015\002\003\345\270\202\353\040\370\045\047\155\075\146 END CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR CKA TRUST CODE SIGNING CK TRUST CKT NSS MUST VERIFY TRUST CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE # # Certificate "GTS Root R4" # # Issuer: CN=GTS Root R4,O=Google Trust Services LLC,C=US # Serial Number:02:03:e5:c0:68:ef:63:1a:9c:72:90:50:52 # Subject: CN=GTS Root R4,O=Google Trust Services LLC.C=US # Not Valid Before: Wed Jun 22 00:00:00 2016 # Not Valid After : Sun Jun 22 00:00:00 2036 # Fingerprint (SHA-256): 34:9D:FA:40:58:C5:E2:63:12:3B:39:8A:E7:95:57:3C:4E:13:13:C8:3F:E6:8F:93:55:6C:D5:E8:03:1B:3C:7D # Fingerprint (SHA1): 77:D3:03:67:B5:E0:0C:15:F6:0C:38:61:DF:7C:E1:3B:92:46:4D:47 CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE CKA TOKEN CK BBOOL CK TRUE CKA PRIVATE CK BBOOL CK FALSE CKA_MODIFIABLE CK_BBOOL CK_FALSE CKA LABEL UTF8 "GTS Root R4" CKA CERTIFICATE TYPE CK CERTIFICATE TYPE CKC X 509 CKA_SUBJECT MULTILINE_OCTAL \060\107\061\013\060\011\006\003\125\004\006\023\002\125\123\061 \042\060\040\006\003\125\004\012\023\031\107\157\157\147\154\145 \040\124\162\165\163\164\040\123\145\162\166\151\143\145\163\040 \114\114\103\061\024\060\022\006\003\125\004\003\023\013\107\124 \123\040\122\157\157\164\040\122\064 END CKA ID UTF8 "0" CKA_ISSUER MULTILINE_OCTAL \060\107\061\013\060\011\006\003\125\004\006\023\002\125\123\061 \042\060\040\006\003\125\004\012\023\031\107\157\157\147\154\145 \040\124\162\165\163\164\040\123\145\162\166\151\143\145\163\040 \114\114\103\061\024\060\022\006\003\125\004\003\023\013\107\124 \123\040\122\157\157\164\040\122\064 **END** CKA_SERIAL_NUMBER MULTILINE_OCTAL \002\015\002\003\345\300\150\357\143\032\234\162\220\120\122

CKA VALUE MULTILINE OCTAL \060\202\002\011\060\202\001\216\240\003\002\001\002\002\015\002 \003\345\300\150\357\143\032\234\162\220\120\122\060\012\006\010 \052\206\110\316\075\004\003\003\060\107\061\013\060\011\006\003 \125\004\006\023\002\125\123\061\042\060\040\006\003\125\004\012 \023\031\107\157\157\147\154\145\040\124\162\165\163\164\040\123 \145\162\166\151\143\145\163\040\114\114\103\061\024\060\022\006 \003\125\004\003\023\013\107\124\123\040\122\157\157\164\040\122 \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 $\label{eq:173} 113 111 235 373 301 141 316 346 336 106 275 153 325 141 030$ \065\256\100\335\163\367\211\221\060\132\353\074\356\205\174\242 \100\166\073\251\306\270\107\330\052\347\222\221\152\163\351\261 \162\071\237\051\237\242\230\323\137\136\130\206\145\017\241\204 \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 \130\042\050\013\367\060\266\057\261\174\002\061\000\360\141\074 \247\364\240\202\343\041\325\204\035\163\206\234\055\257\312\064 \233\361\237\271\043\066\342\274\140\003\235\200\263\232\126\310

\341\342\273\024\171\312\315\041\324\224\265\111\103

END

CKA_NSS_MOZILLA_CA_POLICY

CK_BBOOL CK_TRUE

CKA_NSS_SERVER_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 \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 \123\040\122\157\157\164\040\122\064 **END** CKA_SERIAL_NUMBER MULTILINE_OCTAL \002\015\002\003\345\300\150\357\143\032\234\162\220\120\122 **END** CKA TRUST SERVER AUTH CK TRUST CKT NSS TRUSTED DELEGATOR CKA TRUST EMAIL PROTECTION CK TRUST CKT_NSS_TRUSTED_DELEGATOR CKA TRUST CODE SIGNING CK TRUST CKT NSS MUST VERIFY TRUST CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE # # Certificate "Telia Root CA v2" # # Issuer: CN=Telia Root CA v2,O=Telia Finland Oyj,C=FI # Serial Number:01:67:5f:27:d6:fe:7a:e3:e4:ac:be:09:5b:05:9e # Subject: CN=Telia Root CA v2,O=Telia Finland Oyj,C=FI # Not Valid Before: Thu Nov 29 11:55:54 2018 # Not Valid After : Sun Nov 29 11:55:54 2043 # Fingerprint (SHA-256): 24:2B:69:74:2F:CB:1E:5B:2A:BF:98:89:8B:94:57:21:87:54:4E:5B:4D:99:11:78:65:73:62:1F:6A:74:B8:2C # Fingerprint (SHA1): B9:99:CD:D1:73:50:8A:C4:47:05:08:9C:8C:88:FB:BE:A0:2B:40:CD CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE CKA_TOKEN CK_BBOOL CK_TRUE CKA_PRIVATE CK_BBOOL CK_FALSE CKA_MODIFIABLE CK_BBOOL CK_FALSE CKA_LABEL UTF8 "Telia Root CA v2" CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA VALUE MULTILINE OCTAL \060\202\005\164\060\202\003\134\240\003\002\001\002\002\017\001 \006\011\052\206\110\206\367\015\001\001\013\005\000\060\104\061 \013\060\011\006\003\125\004\006\023\002\106\111\061\032\060\030 \006\003\125\004\012\014\021\124\145\154\151\141\040\106\151\156 \154\141\156\144\040\117\171\152\061\031\060\027\006\003\125\004 \040\166\062\060\036\027\015\061\070\061\061\062\071\061\061\065 \065\065\064\132\027\015\064\063\061\061\062\071\061\061\065\065 \065\064\132\060\104\061\013\060\011\006\003\125\004\006\023\002 \106\111\061\032\060\030\006\003\125\004\012\014\021\124\145\154 \151\141\040\106\151\156\154\141\156\144\040\117\171\152\061\031 \060\027\006\003\125\004\003\014\020\124\145\154\151\141\040\122 \157\157\164\040\103\101\040\166\062\060\202\002\042\060\015\006 \011\052\206\110\206\367\015\001\001\001\005\000\003\202\002\017 \000\060\202\002\012\002\202\002\001\000\262\320\077\007\274\342 \173\320\153\231\370\342\167\151\347\316\235\244\003\274\202\155 $\label{eq:241} $$ $$ 201 145 037 114 047 254 216 000 272 026 173 353 060 152 $$$ \000\300\263\164\150\176\262\257\307\325\142\263\172\077\120\312 \214\066\104\044\143\322\066\351\014\205\366\103\166\325\114\241 \140\162\147\342\050\063\245\313\061\270\072\042\043\064\270\175 \275\126\042\100\235\352\364\173\003\255\150\374\262\201\117\230 \320\164\352\215\345\175\315\143\303\243\366\336\222\302\130\031 \340\226\273\305\304\251\075\245\164\226\376\257\371\211\252\275 \225\027\124\330\170\104\361\014\167\025\222\340\230\102\247\244 \326\252\040\222\315\301\240\263\226\262\072\204\102\215\175\325 \225\344\326\333\351\142\304\130\263\171\305\214\323\065\063\203

END

\236

CKA_SERIAL_NUMBER MULTILINE_OCTAL \002\017\001\147\137\047\326\376\172\343\344\254\276\011\133\005

END

040103101040166062

\060\104\061\013\060\011\006\003\125\004\006\023\002\106\111\061 \032\060\030\006\003\125\004\012\014\021\124\145\154\151\141\040 \106\151\156\154\141\156\144\040\117\171\152\061\031\060\027\006

CKA ISSUER MULTILINE OCTAL

UTF8 "0"

CKA ID

END

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

CKA SUBJECT MULTILINE OCTAL \060\104\061\013\060\011\006\003\125\004\006\023\002\106\111\061 \032\060\030\006\003\125\004\012\014\021\124\145\154\151\141\040 \106\151\156\154\141\156\144\040\117\171\152\061\031\060\027\006 \003\125\004\003\014\020\124\145\154\151\141\040\122\157\157\164

\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 $\label{eq:212} $$ $$ 254 260 342 051 306 271 044 263 153 104 021 364 245 103 302 $$$ \114\103\345\160\066\214\266\063\127\172\225\056\202\240\364\134 \020\263\141\203\366\002\005\206\056\174\055\154\334\003\106\156 \131\075\004\005\165\235\067\242\016\056\075\353\301\244\122\203 \376\320\153\324\146\216\334\306\351\022\116\035\052\127\252\020 \274\174\136\202\175\246\246\311\362\055\271\365\027\047\255\321 \016\211\124\053\225\372\300\255\035\230\024\170\063\102\206\012 \251\163\265\373\164\015\267\033\060\031\304\132\016\034\047\267 \332\030\320\377\212\310\005\272\361\252\034\242\067\267\346\110 \244\106\054\224\352\250\166\142\107\213\020\123\007\110\127\154 \342\222\115\266\256\005\313\334\301\112\136\217\254\075\031\116 \302\355\140\165\053\333\301\312\102\325\002\003\001\000\001\243 \143\060\141\060\037\006\003\125\035\043\004\030\060\026\200\024 $\label{eq:254} $$ 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 $\label{eq:156} \end{tabular} 156 \end{tabular} 007 \end{tabular} 157 \end{tabular} 152 \end{tabular} 346 \end{tabular} 352 \end{tabular} 221 \end{tabular} 202 \end{tabular} 151 \end{tabular} 156 \end{tabular} 007 \end{tabular} 157 \end{tabular}$ \242\236\153\106\025\230\133\323\257\106\035\142\310\316\200\122 \111\021\077\311\004\022\303\023\174\077\073\212\226\333\074\240 \036\012\264\213\124\262\044\147\015\357\202\313\276\074\175\321 \342\177\256\026\326\126\130\271\332\040\261\203\025\241\357\212 \115\062\157\101\057\023\122\202\224\327\032\301\170\242\121\335 \053\160\155\267\032\371\367\260\340\147\227\126\333\174\141\123 \011\003\050\002\100\307\263\330\375\234\160\152\306\050\303\205 \351\342\355\032\223\240\336\113\230\242\204\076\005\167\001\226 \075\373\264\040\017\234\162\002\172\022\057\325\243\272\121\170 \257\052\053\104\145\116\265\375\012\350\301\315\171\207\141\053

 $\label{eq:sigma} $$ $ 36 \ 200 \ 127 \ 105 \ 277 \ 147 \ 361 \ 233 \ 221 \ 136 \ 245 \ 244 \ 354 \ 131 \ 110 \ 020 \ 015 \ 070 \ 307 \ 260 \ 372 \ 303 \ 104 \ 155 \ 004 \ 365 \ 170 \ 120 \ 034 \ 222 \ 226 \ 133 \ 332 \ 365 \ 270 \ 056 \ 272 \ 133 \ 317 \ 345 \ 360 \ 152 \ 235 \ 113 \ 057 \ 130 \ 163 \ 055 \ 117 \ 055 \ 304 \ 034 \ 076 \ 364 \ 263 \ 077 \ 253 \ 025 \ 016 \ 073 \ 031 \ 101 \ 212 \ 244 \ 301 \ 127 \ 022 \ 146 \ 161 \ 114 \ 372 \ 123 \ 343 \ 127 \ 353 \ 142 \ 225 \ 011 \ 236 \ 124 \ 335 \ 321 \ 302 \ 074 \ 127 \ 074 \ 275 \ 070 \ 255 \ 230 \ 144 \ 267 \ 270 \ 003 \ 232 \ 123 \ 126 \ 140 \ 135 \ 263 \ 330 \ 102 \ 033 \ 134 \ 113 \ 022 \ 212 \ 034 \ 353 \ 353 \ 175 \ 306 \ 172 \ 151 \ 307 \ 047 \ 177 \ 244 \ 370 \ 213 \ 362 \ 344 \ 224 \ 146 \ 207 \ 113 \ 351 \ 224 \ 007 \ 011 \ 022 \ 177 \ 244 \ 370 \ 213 \ 362 \ 344 \ 224 \ 146 \ 207 \ 113 \ 351 \ 224 \ 007 \ 110 \ 122 \ 262 \ 353 \ 164 \ 004 \ 334 \ 316 \ 364 \ 104 \ 131 \ 340 \ 026 \ 312 \ 305 \ 054 \ 130 \ 327 \ 074 \ 173 \ 317 \ 142 \ 206 \ 152 \ 120 \ 175 \ 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 \ 3$

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$

\240\053\100\315

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL

\016\217\254\252\202\337\205\261\364\334\020\034\374\231\331\110 END

CKA_ISSUER MULTILINE_OCTAL

 $\label{eq:sphere:sphe$

END

CKA SERIAL NUMBER MULTILINE OCTAL \002\017\001\147\137\047\326\376\172\343\344\254\276\011\133\005 \236 **END** CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR CKA TRUST CODE SIGNING CK TRUST CKT NSS MUST VERIFY TRUST CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE # # Certificate "D-TRUST BR Root CA 1 2020" # # Issuer: CN=D-TRUST BR Root CA 1 2020,O=D-Trust GmbH,C=DE # Serial Number:7c:c9:8f:2b:84:d7:df:ea:0f:c9:65:9a:d3:4b:4d:96 # Subject: CN=D-TRUST BR Root CA 1 2020,O=D-Trust GmbH,C=DE # Not Valid Before: Tue Feb 11 09:45:00 2020 # Not Valid After : Sun Feb 11 09:44:59 2035 # Fingerprint (SHA-256): E5:9A:AA:81:60:09:C2:2B:FF:5B:25:BA:D3:7D:F3:06:F0:49:79:7C:1F:81:D8:5A:B0:89:E6:57:BD:8F:00:44 # Fingerprint (SHA1): 1F:5B:98:F0:E3:B5:F7:74:3C:ED:E6:B0:36:7D:32:CD:F4:09:41:67 CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE CKA_TOKEN CK_BBOOL CK_TRUE CKA PRIVATE CK BBOOL CK FALSE CKA_MODIFIABLE CK_BBOOL CK_FALSE CKA LABEL UTF8 "D-TRUST BR Root CA 1 2020" CKA CERTIFICATE TYPE CK CERTIFICATE TYPE CKC X 509 CKA_SUBJECT MULTILINE_OCTAL \060\110\061\013\060\011\006\003\125\004\006\023\002\104\105\061 \025\060\023\006\003\125\004\012\023\014\104\055\124\162\165\163 \164\040\107\155\142\110\061\042\060\040\006\003\125\004\003\023 \031\104\055\124\122\125\123\124\040\102\122\040\122\157\157\164 \040\103\101\040\061\040\062\060\062\060 **END** CKA ID UTF8 "0" CKA ISSUER MULTILINE OCTAL \060\110\061\013\060\011\006\003\125\004\006\023\002\104\105\061 \025\060\023\006\003\125\004\012\023\014\104\055\124\162\165\163 \164\040\107\155\142\110\061\042\060\040\006\003\125\004\003\023 \031\104\055\124\122\125\123\124\040\102\122\040\122\157\157\164 \040\103\101\040\061\040\062\060\062\060 END CKA_SERIAL_NUMBER MULTILINE_OCTAL \115\226 END CKA_VALUE MULTILINE_OCTAL

\060\202\002\333\060\202\002\140\240\003\002\001\002\002\020\174 \311\217\053\204\327\337\352\017\311\145\232\323\113\115\226\060 \012\006\010\052\206\110\316\075\004\003\003\060\110\061\013\060 \011\006\003\125\004\006\023\002\104\105\061\025\060\023\006\003 $\label{eq:125}004 012 023 014 104 055 124 162 165 163 164 040 107 155 142$ \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 \003\125\004\003\023\031\104\055\124\122\125\123\124\040\102\122 \040\122\157\157\164\040\103\101\040\061\040\062\060\062\060\060 \166\060\020\006\007\052\206\110\316\075\002\001\006\005\053\201 \004\000\042\003\142\000\004\306\313\307\050\321\373\204\365\232 \357\102\024\040\341\103\153\156\165\255\374\053\003\204\324\166 \223\045\327\131\073\101\145\153\036\346\064\052\273\164\366\022 \316\350\155\347\253\344\074\116\077\104\010\213\315\026\161\313 \277\222\231\364\244\327\074\120\124\122\220\205\203\170\224\147 \147\243\034\011\031\075\165\064\205\336\355\140\175\307\014\264 \101\122\271\156\345\356\102\243\202\001\015\060\202\001\011\060 \017\006\003\125\035\023\001\001\377\004\005\060\003\001\001\377 \060\035\006\003\125\035\016\004\026\004\024\163\221\020\253\377 \125\263\132\174\011\045\325\262\272\010\240\153\253\037\155\060 \016\006\003\125\035\017\001\001\377\004\003\002\001\006\060 201\306\006\003\125\035\037\004\201\276\060\201\273\060\076\240 \074\240\072\206\070\150\164\164\160\072\057\057\143\162\154\056 \144\055\164\162\165\163\164\056\156\145\164\057\143\162\154\057 \144\055\164\162\165\163\164\137\142\162\137\162\157\157\164\137 $\label{eq:143} \\ 143 \\ 141 \\ 137 \\ 061 \\ 137 \\ 062 \\ 060 \\ 062 \\ 060 \\ 056 \\ 143 \\ 162 \\ 154 \\ 060 \\ 171 \\ 240 \\$ \167\240\165\206\163\154\144\141\160\072\057\057\144\151\162\145 \143\164\157\162\171\056\144\055\164\162\165\163\164\056\156\145 \164\057\103\116\075\104\055\124\122\125\123\124\045\062\060\102 \122\045\062\060\122\157\157\164\045\062\060\103\101\045\062\060 \061\045\062\060\062\060\062\060\054\117\075\104\055\124\162\165 \163\164\045\062\060\107\155\142\110\054\103\075\104\105\077\143 $\label{eq:145} \\ 145 \\ 162 \\ 164 \\ 151 \\ 146 \\ 151 \\ 143 \\ 141 \\ 164 \\ 145 \\ 162 \\ 145 \\ 166 \\ 157 \\ 143 \\ 141 \\ 164 \\ 145 \\ 162 \\ 145 \\ 166 \\ 157 \\ 143 \\ 141 \\ 164 \\ 145 \\ 162 \\ 162 \\ 165 \\ 166 \\ 157 \\ 143 \\ 141 \\ 164 \\ 164 \\ 164 \\ 165 \\ 162 \\ 165 \\ 166 \\ 157 \\ 143 \\ 141 \\ 164 \\ 164 \\ 165 \\ 162 \\ 162 \\ 165 \\$ $\label{eq:164} $$ 151\157\156\154\151\163\164\060\012\006\010\052\206\110\316\$ \075\004\003\003\003\151\000\060\146\002\061\000\224\220\055\023 \372\341\143\370\141\143\350\255\205\170\124\221\234\270\223\070 \076\032\101\332\100\026\123\102\010\312\057\216\361\076\201\126 \300\252\330\355\030\304\260\256\364\076\372\046\002\061\000\363 \050\342\306\333\053\231\373\267\121\270\044\243\244\224\172\032 $\label{eq:2.1} \end{tabular} $$ \007 \ 346 \ 066 \ 342 \ 003 \ 127 \ 063 \ 212 \ 060 \ 313 \ 202 \ 307 \ 326 \ 024 \ 021 \ 325 \ 024 \ 021 \ 325 \ 024 \ 021 \ 325 \ 024 \ 021 \ 325 \ 024 \ 021 \ 325 \ 024 \ 021 \ 325 \ 024 \ 021 \ 325 \ 024 \ 021 \ 325 \ 024 \ 021 \ 325 \ 024 \ 021 \ 325 \ 024 \ 021 \ 325 \ 024 \ 021 \ 325 \ 024 \ 021 \ 325 \ 024 \ 021 \ 325 \ 024 \ 021 \ 325 \ 024 \ 021 \ 325 \ 024 \ 021 \ 0$ \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

\037\133\230\360\343\265\367\164\074\355\346\260\066\175\062\315

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

 $\label{eq:sphere:sphe$

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

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

 $\label{eq:sphere:sphe$

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

 $\label{eq:2020} $$ 002\02\137\002\101\327\172\207\174\114\003\243\254\226\215\373\377\320 $$$

END

CKA_VALUE MULTILINE_OCTAL

\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 $\label{eq:2.12} \end{tabular} \end{tabular$ \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 \074\240\072\206\070\150\164\164\160\072\057\057\143\162\154\056 \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 \163\164\045\062\060\107\155\142\110\054\103\075\104\105\077\143 \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 \141\333\214\041\131\151\003\220\330\174\234\022\206\124\317\235 \075\364\335\007

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL

\214\055\235\160\237\110\231\021\006\021\373\351\313\060\300\156 END

CKA_ISSUER MULTILINE_OCTAL

 $\label{eq:starter} $$ $ 1060 \ 1006 \ 003 \ 125 \ 004 \ 006 \ 023 \ 002 \ 104 \ 105 \ 061 \ 025 \ 060 \ 023 \ 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 \ 164 \ 040 \ 122 \ 157 \ 157 \ 164 \ 040 \ 122 \ 157 \ 157 \ 164 \ 040 \ 122 \ 157 \ 157 \ 164 \ 040 \ 122 \ 157 \ 157 \ 164 \ 040 \ 122 \ 157 \ 157 \ 157 \ 164 \ 040 \ 157 \ 15$

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

END

CKA_SERIAL_NUMBER

MULTILINE_OCTAL

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

\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

 $\label{eq:2.123} \\ 060 \\ 116 \\ 061 \\ 013 \\ 060 \\ 011 \\ 006 \\ 003 \\ 125 \\ 004 \\ 006 \\ 023 \\ 002 \\ 125 \\ 123 \\ 061 \\ 012 \\ 004 \\ 006 \\ 023 \\ 002 \\ 125 \\ 123 \\ 061 \\ 012 \\ 004 \\ 006 \\ 023 \\ 002 \\ 125 \\ 123 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 000 \\ 003 \\ 125 \\ 000$

\027\060\025\006\003\125\004\012\023\016\104\151\147\151\103\145 \162\164\054\040\111\156\143\056\061\046\060\044\006\003\125\004 \003\023\035\104\151\147\151\103\145\162\164\040\124\114\123\040 \105\103\103\040\120\063\070\064\040\122\157\157\164\040\107\065 **END**

CKA ID UTF8 "0" CKA ISSUER MULTILINE OCTAL \060\116\061\013\060\011\006\003\125\004\006\023\002\125\123\061 \027\060\025\006\003\125\004\012\023\016\104\151\147\151\103\145 \162\164\054\040\111\156\143\056\061\046\060\044\006\003\125\004

END

\056\363 **END**

CKA_SERIAL_NUMBER MULTILINE_OCTAL

\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

CKA VALUE MULTILINE OCTAL \060\202\002\031\060\202\001\237\240\003\002\001\002\002\020\011 \340\223\145\254\367\331\310\271\076\034\013\004\052\056\363\060

\002\020\011\340\223\145\254\367\331\310\271\076\034\013\004\052

\012\006\010\052\206\110\316\075\004\003\003\060\116\061\013\060 \011\006\003\125\004\006\023\002\125\123\061\027\060\025\006\003 \125\004\012\023\016\104\151\147\151\103\145\162\164\054\040\111 \156\143\056\061\046\060\044\006\003\125\004\003\023\035\104\151 \147\151\103\145\162\164\040\124\114\123\040\105\103\103\040\120 \063\070\064\040\122\157\157\164\040\107\065\060\036\027\015\062 \061\060\061\061\065\060\060\060\060\060\060\132\027\015\064\066 \060\061\061\064\062\063\065\071\065\071\132\060\116\061\013\060 \011\006\003\125\004\006\023\002\125\123\061\027\060\025\006\003 \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 $\label{eq:263} \\ 165 \\ 271 \\ 333 \\ 011 \\ 354 \\ 310 \\ 023 \\ 365 \\ 116 \\ 306 \\ 012 \\ 035 \\ 146 \\ 060 \\ 114 \\ 146 \\ 060 \\ 114 \\ 146 \\$ \273\037\107\012\074\141\020\102\051\174\245\010\016\340\042\351 \323\065\150\316\233\143\237\204\265\231\115\130\240\216\365\124 \347\225\311\243\102\060\100\060\035\006\003\125\035\016\004\026 \004\024\301\121\105\120\131\253\076\347\054\132\372\040\042\022 \007\200\210\174\021\152\060\016\006\003\125\035\017\001\001\377 \004\004\003\002\001\206\060\017\006\003\125\035\023\001\001\377 \004\005\060\003\001\001\377\060\012\006\010\052\206\110\316\075 \004\003\003\003\150\000\060\145\002\061\000\211\152\215\107\347 \354\374\156\125\003\331\147\154\046\116\203\306\375\311\373\053

\023\274\267\172\214\264\145\322\151\151\143\023\143\073\046\120 \056\001\241\171\006\221\235\110\277\302\276\002\060\107\303\025 \173\261\240\221\231\111\223\250\074\174\350\106\006\213\054\362 \061\000\224\235\142\310\211\275\031\204\024\351\245\373\001\270 \015\166\103\214\056\123\313\174\337\014\027\226\120 END

CKA_NSS_MOZILLA_CA_POLICY

CK_BBOOL CK_TRUE

CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE

CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "DigiCert TLS ECC P384 Root G5"

Issuer: CN=DigiCert TLS ECC P384 Root G5,O="DigiCert, Inc.",C=US

Serial Number:09:e0:93:65:ac:f7:d9:c8:b9:3e:1c:0b:04:2a:2e:f3

Subject: CN=DigiCert TLS ECC P384 Root G5,O="DigiCert, Inc.",C=US

Not Valid Before: Fri Jan 15 00:00:00 2021

Not Valid After : Sun Jan 14 23:59:59 2046

Fingerprint (SHA-256):

01:8E:13:F0:77:25:32:CF:80:9B:D1:B1:72:81:86:72:83:FC:48:C6:E1:3B:E9:C6:98:12:85:4A:49:0C:1B:05 # Fingerprint (SHA1):

17:F3:DE:5E:9F:0F:19:E9:8E:F6:1F:32:26:6E:20:C4:07:AE:30:EE

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "DigiCert TLS ECC P384 Root G5"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL

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

007 256 060 356

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL

\323\161\004\152\103\034\333\246\131\341\250\243\252\305\161\355 END

CKA_ISSUER MULTILINE_OCTAL

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

#

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:122} $$ 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\010\371\264\170\250\372\176\332\152\063\067\211\336\174 \317\212

END

CKA_VALUE MULTILINE_OCTAL

\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 \064\060\071\066\040\122\157\157\164\040\107\065\060\202\002\042 \060\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003 \202\002\017\000\060\202\002\012\002\202\002\001\000\263\320\364 \311\171\021\235\375\374\146\201\347\314\325\344\274\354\201\076 \152\065\216\056\267\347\336\257\371\007\115\317\060\235\352\011 \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 \223\130\357\315\101\070\165\274\023\003\225\174\177\343\134\351 \325\015\325\342\174\020\142\252\153\360\075\166\363\077\243\350 \260\301\375\357\252\127\115\254\206\247\030\264\051\301\054\016 \277\144\276\051\214\330\002\055\315\134\057\362\177\357\025\364 \014\025\254\012\260\361\323\015\117\152\115\167\227\001\240\361 \146\267\267\316\357\316\354\354\245\165\312\254\343\341\143\367 \270\241\004\310\274\173\077\135\055\026\042\126\355\110\111\376 \247\057\171\060\045\233\272\153\055\077\235\073\304\027\347\035 \056\373\362\317\246\374\343\024\054\226\230\041\214\264\221\351 \031\140\203\362\060\053\006\163\120\325\230\073\006\351\307\212 \014\140\214\050\370\122\233\156\341\366\115\273\006\044\233\327 \053\046\077\375\052\057\161\365\326\044\276\177\061\236\017\155 \350\217\117\115\243\077\377\065\352\337\111\136\101\217\206\371 \361\167\171\113\033\264\243\136\057\373\106\002\320\146\023\136 \136\205\117\316\330\160\210\173\316\001\265\226\227\327\315\175 \375\202\370\302\044\301\312\001\071\117\215\242\301\024\100\037 \234\146\325\014\011\106\326\362\320\321\110\166\126\072\103\313 \266\012\021\071\272\214\023\154\006\265\236\317\353\002\003\001 \000\001\243\102\060\100\060\035\006\003\125\035\016\004\026\004 \024\121\063\034\355\066\100\257\027\323\045\315\151\150\362\257 \116\043\076\263\101\060\016\006\003\125\035\017\001\001\377\004 \004\003\002\001\206\060\017\006\003\125\035\023\001\001\377\004 \005\060\003\001\001\377\060\015\006\011\052\206\110\206\367\015 \001\001\014\005\000\003\202\002\001\000\140\246\257\133\137\127 \332\211\333\113\120\251\304\043\065\041\377\320\141\060\204\221

\267\077\020\317\045\216\311\277\106\064\331\301\041\046\034\160 \031\162\036\243\311\207\376\251\103\144\226\072\310\123\004\012 $\label{eq:266} \end{tabular} \end{tabular}$ \044\367\335\257\040\140\256\222\050\137\066\347\135\344\336\307 \074\333\120\071\255\273\075\050\115\226\174\166\306\133\364\301 \333\024\245\253\031\142\007\030\100\137\227\221\334\234\307\253 \265\121\015\346\151\123\125\314\071\175\332\305\021\125\162\305 \073\213\211\370\064\055\244\027\345\027\346\231\175\060\210\041 \067\315\060\027\075\270\362\274\250\165\240\103\334\076\211\113 \220\256\155\003\340\034\243\240\226\011\273\175\243\267\052\020 \104\113\106\007\064\143\355\061\271\004\356\243\233\232\256\346 \061\170\364\352\044\141\073\253\130\144\377\273\207\047\142\045 \201\337\334\241\057\366\355\247\377\172\217\121\056\060\370\244 \001\322\205\071\137\001\231\226\157\132\133\160\031\106\376\206 \140\076\255\200\020\011\335\071\045\057\130\177\273\322\164\360 \367\106\037\106\071\112\330\123\320\363\056\073\161\245\324\157 \374\363\147\344\007\217\335\046\031\341\215\133\372\243\223\021 \233\351\310\072\303\125\150\232\222\341\122\166\070\350\341\272 \275\373\117\325\357\263\347\110\203\061\360\202\041\343\266\276 \247\253\157\357\237\337\114\317\001\270\142\152\043\075\347\011 \115\200\033\173\060\244\303\335\007\177\064\276\244\046\262\366 $\label{eq:101} $$ 101\35\343\040\230\252\067\117\377\367\361\342\051\160\$ $\label{eq:2.1} \end{tabular} $$ 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 $\label{eq:22} \end{tabular} 1045 \end{tabular} 136 \end{tabular} 206 \end{tabular} 221 \end{tabular} 136 \end{tabular} 221 \end{tabular} 136 \end{tabular} 221 \end{tabular} 136 \end{tabular} 221 \end{tabular} 136 \end{tabular}$ \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

 $\label{eq:247} $$ $$ 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

CKA_ISSUER MULTILINE_OCTAL

 $\label{eq:listical_$

\122\123\101\064\060\071\066\040\122\157\157\164\040\107\065 END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

 $\label{eq:2020} \\ 020 \\ 010 \\ 371 \\ 264 \\ 170 \\ 250 \\ 372 \\ 176 \\ 332 \\ 152 \\ 063 \\ 067 \\ 211 \\ 336 \\ 174$

317212

END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR

CKA_TRUST_EMAIL_PROTECTION

CK_TRUST CKT_NSS_MUST_VERIFY_TRUST

CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST

CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#

Certificate "DigiCert SMIME ECC P384 Root G5"

#

Issuer: CN=DigiCert SMIME ECC P384 Root G5,O="DigiCert, Inc.",C=US

Serial Number:05:3f:6e:a0:06:01:72:7d:ed:3f:c3:a3:b6:a3:d6:ef

Subject: CN=DigiCert SMIME ECC P384 Root G5,O="DigiCert, Inc.",C=US

Not Valid Before: Fri Jan 15 00:00:00 2021

Not Valid After : Sun Jan 14 23:59:59 2046

Fingerprint (SHA-256):

E8:E8:17:65:36:A6:0C:C2:C4:E1:01:87:C3:BE:FC:A2:0E:F2:63:49:70:18:F5:66:D5:BE:A0:F9:4D:0C:11:1B

Fingerprint (SHA1): 1C:B8:A7:08:C9:0D:20:79:01:A0:B2:36:7F:F0:95:65:E4:53:24:FE

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "DigiCert SMIME ECC P384 Root G5"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL

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

 $\label{eq:loss} $$ 162\164\054\040\111\156\143\056\061\050\060\046\006\003\125\004\003\125\004\003\125\004\003\125\004\125\115\111\115\105\040\105\103\103\040\120\063\070\064\040\122\157\157\164\040\107\065 $$$

\002\020\005\077\156\240\006\001\162\175\355\077\303\243\266\243

END CKA_ID UTF8 "0"

\107\065 END

CKA ISSUER MULTILINE OCTAL

CKA SERIAL NUMBER MULTILINE OCTAL

\326\357 **END** CKA_VALUE MULTILINE_OCTAL \060\202\002\034\060\202\001\243\240\003\002\001\002\002\002\005 \077\156\240\006\001\162\175\355\077\303\243\266\243\326\357\060 \012\006\010\052\206\110\316\075\004\003\003\060\120\061\013\060 \011\006\003\125\004\006\023\002\125\123\061\027\060\025\006\003 \156\143\056\061\050\060\046\006\003\125\004\003\023\037\104\151 \147\151\103\145\162\164\040\123\115\111\115\105\040\105\103\103 \040\120\063\070\064\040\122\157\157\164\040\107\065\060\036\027 \015\062\061\060\061\061\065\060\060\060\060\060\060\060\132\027\015 \064\066\060\061\061\064\062\063\065\071\065\071\132\060\120\061 \013\060\011\006\003\125\004\006\023\002\125\123\061\027\060\025 \006\003\125\004\012\023\016\104\151\147\151\103\145\162\164\054 \040\111\156\143\056\061\050\060\046\006\003\125\004\003\023\037 \103\103\040\120\063\070\064\040\122\157\157\164\040\107\065\060 \166\060\020\006\007\052\206\110\316\075\002\001\006\005\053\201 \004\000\042\003\142\000\004\026\235\125\345\266\324\373\373\147 \153\032\324\241\252\322\167\225\076\210\345\007\237\266\160\146 \040\050\244\210\354\160\065\257\263\062\377\067\023\112\236\274 \001\003\336\204\301\270\306\346\145\107\211\362\023\125\277\315 \245\036\010\140\177\255\177\350\141\222\051\317\011\107\136\013 \034\300\037\244\277\362\133\274\230\357\231\114\314\160\153\266 \272\320\050\035\277\276\004\243\102\060\100\060\035\006\003\125 \035\016\004\026\004\024\163\172\153\226\333\102\007\213\122\146 \302\144\062\027\376\340\147\220\056\255\060\016\006\003\125\035 \017\001\001\377\004\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

 $\label{eq:stability} $$ \frac{161}{353} = \frac{161}{330} = \frac{16$

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

END

CKA_CERT_MD5_HASH

MULTILINE_OCTAL

```
\246\376\364\122\066\104\330\356\015\267\003\013\357\164\263\003
END
```

CKA_ISSUER MULTILINE_OCTAL

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

\002\020\005\077\156\240\006\001\162\175\355\077\303\243\266\243 \326\357

END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR

CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Certificate "DigiCert SMIME RSA4096 Root G5" # # Issuer: CN=DigiCert SMIME RSA4096 Root G5,O="DigiCert, Inc.",C=US # Serial Number:05:f6:ba:04:23:83:46:cb:7d:5c:e6:b9:5b:ba:1c:55 # Subject: CN=DigiCert SMIME RSA4096 Root G5,O="DigiCert, Inc.",C=US # Not Valid Before: Fri Jan 15 00:00:00 2021 # Not Valid After : Sun Jan 14 23:59:59 2046 # Fingerprint (SHA-256): 90:37:0D:3E:FA:88:BF:58:C3:01:05:BA:25:10:4A:35:84:60:A7:FA:52:DF:C2:01:1D:F2:33:A0:F4:17:91:2A # Fingerprint (SHA1): 5B:C5:AD:E2:9A:A7:54:DA:84:89:53:A5:FE:D7:5B:46:86:D0:57:08 CKA CLASS CK OBJECT CLASS CKO CERTIFICATE CKA_TOKEN CK_BBOOL CK_TRUE CKA PRIVATE CK BBOOL CK FALSE CKA_MODIFIABLE CK_BBOOL CK_FALSE CKA_LABEL UTF8 "DigiCert SMIME RSA4096 Root G5" CKA CERTIFICATE TYPE CK CERTIFICATE TYPE CKC X 509 CKA_SUBJECT MULTILINE_OCTAL \060\117\061\013\060\011\006\003\125\004\006\023\002\125\123\061 \027\060\025\006\003\125\004\012\023\016\104\151\147\151\103\145 \162\164\054\040\111\156\143\056\061\047\060\045\006\003\125\004 \003\023\036\104\151\147\151\103\145\162\164\040\123\115\111\115 \105\040\122\123\101\064\060\071\066\040\122\157\157\164\040\107 \065 END CKA ID UTF8 "0" CKA_ISSUER MULTILINE OCTAL \060\117\061\013\060\011\006\003\125\004\006\023\002\125\123\061 \027\060\025\006\003\125\004\012\023\016\104\151\147\151\103\145 \162\164\054\040\111\156\143\056\061\047\060\045\006\003\125\004 \003\023\036\104\151\147\151\103\145\162\164\040\123\115\111\115 \105\040\122\123\101\064\060\071\066\040\122\157\157\164\040\107 \065 **END** CKA_SERIAL_NUMBER MULTILINE_OCTAL \002\020\005\366\272\004\043\203\106\313\175\134\346\271\133\272 \034\125 END CKA_VALUE MULTILINE_OCTAL \060\202\005\152\060\202\003\122\240\003\002\001\002\002\002\005 \366\272\004\043\203\106\313\175\134\346\271\133\272\034\125\060 \015\006\011\052\206\110\206\367\015\001\001\014\005\000\060\117

\061\013\060\011\006\003\125\004\006\023\002\125\123\061\027\060

\025\006\003\125\004\012\023\016\104\151\147\151\103\145\162\164 \054\040\111\156\143\056\061\047\060\045\006\003\125\004\003\023 \036\104\151\147\151\103\145\162\164\040\123\115\111\115\105\040 \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 \023\036\104\151\147\151\103\145\162\164\040\123\115\111\115\105 \040\122\123\101\064\060\071\066\040\122\157\157\164\040\107\065 \060\202\002\042\060\015\006\011\052\206\110\206\367\015\001\001 \001\005\000\003\202\002\017\000\060\202\002\012\002\202\002\001 \000\340\152\133\331\370\371\175\354\265\173\357\137\335\134\064 \330\332\135\321\313\145\165\253\041\174\133\000\324\202\157\105 \205\101\212\251\022\002\162\062\360\024\365\003\165\273\143\227 \111\017\100\231\013\032\036\126\247\322\320\341\253\335\345\004 \033\343\037\024\022\002\210\365\240\200\011\366\047\232\120\360 \272\343\242\340\254\152\024\221\265\153\070\020\172\242\061\341 \221\033\267\271\360\053\133\310\167\011\166\267\121\304\066\012 \231\123\124\104\045\267\011\065\206\027\005\126\223\075\101\267 \002\327\142\037\212\222\021\207\352\021\155\352\010\021\334\261 \170\110\111\222\366\264\121\200\170\043\330\376\341\126\032\072 \220\023\126\064\211\325\342\225\213\137\336\262\314\373\077\070 \267\205\367\352\236\277\056\241\056\057\115\175\152\021\056\066 \240\377\021\010\004\225\125\340\033\073\147\223\251\224\125\352 \062\355\006\072\177\302\177\343\255\023\047\321\064\101\263\060 \161\347\335\353\000\004\173\314\110\071\050\340\036\243\025\151 \310\066\262\241\013\227\337\125\326\357\221\234\244\366\026\367 \121\012\356\003\043\221\334\004\377\340\335\070\366\042\003\000 \302\007\161\032\022\311\327\106\052\224\033\315\326\273\033\356 \277\276\115\120\130\260\013\315\060\166\051\365\317\345\266\152 \057\166\260\260\151\152\320\155\145\030\065\176\223\274\162\027 \301\125\102\315\057\302\045\273\364\375\035\241\144\042\124\135 \342\236\162\101\204\156\161\226\352\105\007\266\136\172\112\206 \235\163\144\167\070\003\322\017\123\245\125\040\304\115\377\150 \013\011\362\032\123\314\000\246\335\321\064\366\015\301\060\261 \234\002\144\254\065\355\245\260\051\261\322\225\063\017\322\040 \063\275\354\043\113\362\031\371\332\230\144\344\054\061\037\056 \341\215\034\004\225\050\115\214\130\315\113\345\163\202\206\214 \354\250\326\171\134\373\144\273\334\014\114\050\366\027\257\342 \150\326\026\206\230\333\374\001\334\061\272\370\234\016\371\050 \106\112\341\375\226\006\105\171\021\150\027\145\134\213\046\207 \133\002\003\001\000\001\243\102\060\100\060\035\006\003\125\035 \016\004\026\004\024\321\243\324\127\035\117\125\333\165\114\134 \102\236\143\026\316\264\306\073\037\060\016\006\003\125\035\017

\001\001\377\004\003\002\001\206\060\017\006\003\125\035\023 \001\001\377\004\005\060\003\001\001\377\060\015\006\011\052\206 \110\206\367\015\001\001\014\005\000\003\202\002\001\000\007\247 \012\336\123\273\232\353\160\277\262\066\220\315\344\247\270\361 \014\344\135\132\035\170\145\374\311\270\036\043\021\127\174\151 $\label{eq:224} \end{tabular} \end{tabular}$ \165\003\253\034\013\043\334\033\212\036\067\075\035\130\217\163 \331\263\052\157\337\020\240\133\014\247\312\260\177\271\044\242 \001\065\062\345\136\106\101\353\330\177\163\347\102\351\244\121 \046\167\201\012\250\353\017\012\120\235\176\212\040\147\374\013 \216\072\021\323\305\214\140\030\331\113\261\374\324\361\264\111 \236\165\201\134\123\015\042\374\066\346\111\156\164\333\000\205 \215\174\042\240\216\373\020\114\324\142\023\133\357\113\162\046 \213\374\116\212\217\376\227\020\123\305\170\213\102\144\033\137 \340\211\375\273\011\177\120\340\124\205\046\021\152\035\145\371 $\label{eq:111} 051 34 174 066 337 373 075 367 322 254 356 062 215 156 246$ \175\071\234\105\304\312\015\365\073\264\171\123\245\057\126\307 $\label{eq:121} 305 212 14 144 135 220 103 043 216 153 114 027 170 314 350$ \277\365\073\344\250\110\317\255\233\014\337\062\112\323\331\022 \216\043\170\015\055\257\237\257\236\074\011\302\227\000\355\072 $\label{eq:151}034 \\ 161 \\ 077 \\ 071 \\ 337 \\ 323 \\ 217 \\ 304 \\ 146 \\ 365 \\ 357 \\ 066 \\ 224 \\ 017 \\ 363 \\ 363 \\ 363 \\ 363 \\ 365 \\ 357 \\ 066 \\ 224 \\ 017 \\ 363 \\ 363 \\ 363 \\ 363 \\ 365 \\ 36$ \335\222\266\226\137\220\246\335\163\252\246\040\224\224\045\152 \011\014\162\344\023\043\140\114\243\312\027\056\173\147\000\333 \320\315\352\172\037\071\046\127\211\060\167\313\116\345\225\105 \117\137\373\066\134\075\371\040\265\072\020\045\117\223\062\132 \356\301\226\350\351\126\004\260\111\141\115\354\170\250\235\030 $\label{eq:301} 301 \\ 377 \\ 330 \\ 352 \\ 057 \\ 126 \\ 357 \\ 225 \\ 053 \\ 173 \\ 004 \\ 136 \\ 147 \\ 343 \\ 125 \\ 100 \\ 1$ \355\071\004\371\013\171\365\152\214\134\017\211\232\220\307\315 \213\336\333\046\065\241\156\315\263\102\362\242\017\073\014\216 \223\377\024\317\374\367\223\367\344\101\010\156\031\122\021\017 \123\031\163\170\014\317\330\205\201\370\255\125\310\260\236\106 \143\257\234\122\356\134\277\360\300\133\067\036\011\040\322\076 \043\306\241\025\112\016\066\176\060\305\171\152\274\042\210\331 **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 \133\305\255\342\232\247\124\332\204\211\123\245\376\327\133\106 \206\320\127\010 END CKA CERT MD5 HASH MULTILINE OCTAL \321\173\340\265\077\065\162\237\175\276\013\245\244\035\251\156 **END** CKA ISSUER MULTILINE OCTAL \060\117\061\013\060\011\006\003\125\004\006\023\002\125\123\061 \027\060\025\006\003\125\004\012\023\016\104\151\147\151\103\145 \162\164\054\040\111\156\143\056\061\047\060\045\006\003\125\004 $\label{eq:2.1} \end{tabular} \end{tabular}$ \105\040\122\123\101\064\060\071\066\040\122\157\157\164\040\107 \065 END CKA SERIAL NUMBER MULTILINE OCTAL \002\020\005\366\272\004\043\203\106\313\175\134\346\271\133\272 \034\125 **END** CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST CKA TRUST EMAIL PROTECTION CK TRUST CKT NSS TRUSTED DELEGATOR CKA TRUST CODE SIGNING CK TRUST CKT NSS MUST VERIFY TRUST CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE # # Certificate "Certainly Root R1" # # Issuer: CN=Certainly Root R1,O=Certainly,C=US # Serial Number:00:8e:0f:f9:4b:90:71:68:65:33:54:f4:d4:44:39:b7:e0 # Subject: CN=Certainly Root R1,O=Certainly,C=US # Not Valid Before: Thu Apr 01 00:00:00 2021 # Not Valid After : Sun Apr 01 00:00:00 2046 # Fingerprint (SHA-256): 77:B8:2C:D8:64:4C:43:05:F7:AC:C5:CB:15:6B:45:67:50:04:03:3D:51:C6:0C:62:02:A8:E0:C3:34:67:D3:A0 # Fingerprint (SHA1): A0:50:EE:0F:28:71:F4:27:B2:12:6D:6F:50:96:25:BA:CC:86:42:AF CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE CKA_TOKEN CK_BBOOL CK_TRUE CKA_PRIVATE CK_BBOOL CK_FALSE CKA_MODIFIABLE CK_BBOOL CK_FALSE

\060\202\005\107\060\202\003\057\240\003\002\001\002\002\021\000 \060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060 \075\061\013\060\011\006\003\125\004\006\023\002\125\123\061\022 \060\020\006\003\125\004\012\023\011\103\145\162\164\141\151\156 \154\171\061\032\060\030\006\003\125\004\003\023\021\103\145\162 \027\015\062\061\060\064\060\061\060\060\060\060\060\060\060\132\027 \061\013\060\011\006\003\125\004\006\023\002\125\123\061\022\060 \020\006\003\125\004\012\023\011\103\145\162\164\141\151\156\154 \171\061\032\060\030\006\003\125\004\003\023\021\103\145\162\164 \141\151\156\154\171\040\122\157\157\164\040\122\061\060\202\002 \042\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000 \003\202\002\017\000\060\202\002\012\002\202\002\001\000\320\066 \324\037\352\335\253\344\321\266\346\373\042\300\335\023\015\152 \173\042\023\034\227\074\150\143\146\062\234\003\265\215\244\201 \203\332\170\060\021\317\334\262\053\276\222\277\216\344\304\023 \276\244\150\114\332\002\150\026\164\276\262\335\004\344\153\052 \335\067\037\140\054\333\365\367\241\174\225\267\014\160\206\056 \361\072\357\122\367\314\323\233\371\213\276\016\337\061\267\235 \150\134\222\246\365\345\363\012\064\265\377\173\242\344\207\241 \306\257\027\000\357\003\221\355\251\034\116\161\075\322\213\154 \211\364\170\206\346\152\111\240\316\265\322\260\253\233\366\364 \324\056\343\162\371\066\306\353\025\267\045\214\072\374\045\015 \263\042\163\041\164\310\112\226\141\222\365\057\013\030\245\364 \255\342\356\101\275\001\171\372\226\214\215\027\002\060\264\371

CKA VALUE MULTILINE OCTAL

END

\071\267\340

MULTILINE_OCTAL \002\021\000\216\017\371\113\220\161\150\145\063\124\364\324\104

CKA SERIAL NUMBER

END

CKA ISSUER MULTILINE OCTAL \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 $\label{eq:162} $$ 162\164\141\151\156\154\171\040\122\157\157\164\040\122\061\$

END CKA ID UTF8 "0"

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\122\061\$

CKA LABEL UTF8 "Certainly Root R1" CKA CERTIFICATE TYPE CK CERTIFICATE TYPE CKC X 509

\257\170\032\214\264\066\020\020\007\005\160\320\364\061\220\212 \121\305\206\046\171\262\021\210\136\305\360\012\124\315\111\246 \277\002\234\322\104\247\355\343\170\357\106\136\155\161\321\171 \160\034\106\137\121\351\311\067\334\137\176\151\173\101\337\064 \105\340\073\204\364\241\212\012\066\236\067\314\142\122\341\211 \015\050\371\172\043\261\015\075\075\232\375\235\201\357\054\220 \027\211\221\336\141\211\164\222\250\343\062\205\276\116\205\244 $\label{eq:113} \\ 131 \\ 313 \\ 053 \\ 305 \\ 170 \\ 216 \\ 161 \\ 124 \\ 320 \\ 002 \\ 067 \\ 231 \\ 214 \\ 345 \\ 111 \\ 111 \\ 1124 \\ 320 \\ 102$ \352\340\124\162\244\021\006\057\013\214\301\133\276\265\241\260 $\label{eq:123} $$ 123\156\234\270\140\221\037\131\153\371\055\364\224\012\227\265\$ $\label{eq:2.10} $$ \frac{354}{305} \frac{166}{003} \frac{124}{033} \frac{145}{122} \frac{272}{114} \frac{222}{126} \frac{121}{065} \frac{240}{100} \\$ \330\051\333\256\122\166\073\055\060\100\233\212\320\102\126\264 \267\210\001\244\207\073\123\226\315\243\026\217\363\146\252\027 \261\307\140\340\301\103\005\014\356\233\133\140\157\006\134\207 \133\047\371\100\021\236\234\063\301\267\345\065\127\005\177\047 \316\027\040\214\034\374\361\373\332\061\051\111\355\365\013\204 \247\117\301\366\116\302\050\234\372\356\340\257\007\373\063\021 \172\041\117\013\041\020\266\100\072\253\042\072\004\234\213\233 \204\206\162\232\322\247\245\304\264\165\221\251\053\043\002\003 \001\000\001\243\102\060\100\060\016\006\003\125\035\017\001\001 \377\004\004\003\002\001\006\060\017\006\003\125\035\023\001\001 \377\004\005\060\003\001\001\377\060\035\006\003\125\035\016\004 \026\004\024\340\252\077\045\215\237\104\134\301\072\350\056\256 \167\114\204\076\147\014\364\060\015\006\011\052\206\110\206\367 \015\001\001\013\005\000\003\202\002\001\000\271\127\257\270\022 \332\127\203\217\150\013\063\035\003\123\125\364\225\160\344\053 \075\260\071\353\372\211\142\375\367\326\030\004\057\041\064\335 \361\150\360\325\226\132\336\302\200\243\301\215\306\152\367\131 \167\256\025\144\317\133\171\005\167\146\352\214\323\153\015\335 \361\131\054\301\063\245\060\200\025\105\007\105\032\061\042\266 \222\000\253\231\115\072\217\167\257\251\042\312\057\143\312\025 \326\307\306\360\075\154\374\034\015\230\020\141\236\021\242\042 \327\012\362\221\172\153\071\016\057\060\303\066\111\237\340\351 \017\002\104\120\067\224\125\175\352\237\366\073\272\224\245\114 \351\274\076\121\264\350\312\222\066\124\155\134\045\050\332\335 \255\024\375\323\356\342\042\005\353\320\362\267\150\022\327\132 $\label{eq:212} $$ $$ 212\101\032\306\222\245\132\073\143\105\117\277\341\072\167\042 $$$ \265\246\065\004\302\107\377\231\375\204\337\134\316\351\136\200 \050\101\362\175\347\036\220\330\117\166\076\202\074\015\374\245 \003\372\173\032\331\105\036\140\332\304\216\371\374\053\311\173 \225\305\052\377\252\211\337\202\061\017\162\377\014\047\327\012 \036\126\000\120\036\014\220\301\226\265\330\024\205\273\247\015 \026\301\370\007\044\033\272\205\241\032\005\011\200\272\225\143 \311\072\354\045\237\177\235\272\244\107\025\233\104\160\361\152 \113\326\070\136\103\363\030\176\120\156\351\132\050\346\145\346 \167\033\072\375\035\276\003\046\243\333\324\341\273\176\226\047

\053\035\356\244\373\332\045\124\023\003\336\071\306\303\037\115 \220\354\217\033\112\322\034\355\205\225\070\120\171\106\326\301 \310\054\063\223\222\060\307\116\214\145\063\020\144\027\375\044 \027\226\321\215\302\072\152\053\353\023\213\104\362\041\363\112 \032\267\167\137\327\355\210\244\162\345\071\037\225\235\276\147 \301\160\021\075\273\364\370\111\267\343\046\227\072\237\322\137 \174\373\300\231\174\071\051\340\173\035\277\015\247\217\322\051 \064\156\044\025\313\336\220\136\277\032\304\146\352\302\346\272 **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:C2:2D: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_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

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

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

\156\154\171\061\032\060\030\006\003\125\004\003\023\021\103\145

 $\label{eq: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\123\157\164\040\105\061

\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

\154\171\040\122\157\157\164\040\105\061\060\036\027\015\062\061 \060\064\060\061\060\060\060\060\060\060\132\027\015\064\066\060 \064\060\061\060\060\060\060\060\060\132\060\075\061\013\060\011 \006\003\125\004\006\023\002\125\123\061\022\060\020\006\003\125 $\label{eq:2.1} \end{tabular} \end{tabular}$ \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 $\label{eq:20} \end{tabular} \end{tabular}$ \370\202\227\200\352\217\310\112\136\052\175\210\150\247\001\142 \020\336\320\067\113\046\307\031\140\200\351\064\275\140\031\066 \100\326\051\207\011\074\221\172\366\274\023\043\335\131\116\004 \136\317\310\002\034\030\123\301\061\330\332\040\351\104\215\344 \166\243\102\060\100\060\016\006\003\125\035\017\001\001\377\004 \004\003\002\001\006\060\017\006\003\125\035\023\001\001\377\004 \005\060\003\001\001\377\060\035\006\003\125\035\016\004\026\004 \024\363\050\030\313\144\165\356\051\052\353\355\256\043\130\070 \205\353\310\042\007\060\012\006\010\052\206\110\316\075\004\003 \003\003\150\000\060\145\002\061\000\261\216\132\040\303\262\031 \142\115\336\260\117\337\156\322\160\212\361\237\176\152\214\346 \272\336\203\151\312\151\263\251\005\265\226\222\027\207\302\322 \352\320\173\316\330\101\133\174\256\002\060\106\336\352\313\135 \232\354\062\302\145\026\260\114\060\134\060\363\332\116\163\206 \006\330\316\211\004\110\067\067\370\335\063\121\235\160\257\173 \125\330\001\056\175\005\144\016\206\270\221

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA_NSS_EMAIL_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):

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 $\label{eq:162} $$ 162\164\141\151\156\154\171\040\122\157\157\164\040\105\061\$ END CKA SERIAL NUMBER MULTILINE OCTAL \002\020\006\045\063\261\107\003\063\047\134\371\215\232\271\277 \314\370 END CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR CKA TRUST EMAIL PROTECTION CK TRUST CKT NSS MUST VERIFY TRUST CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE # # Certificate "E-Tugra Global Root CA RSA v3" # # Issuer: CN=E-Tugra Global Root CA RSA v3,OU=E-Tugra Trust Center,O=E-Tugra EBG A.S.,L=Ankara,C=TR # Serial Number:0d:4d:c5:cd:16:22:95:96:08:7e:b8:0b:7f:15:06:34:fb:79:10:34 # Subject: CN=E-Tugra Global Root CA RSA v3,OU=E-Tugra Trust Center,O=E-Tugra EBG A.S.,L=Ankara,C=TR # Not Valid Before: Wed Mar 18 09:07:17 2020 # Not Valid After : Sun Mar 12 09:07:17 2045 # Fingerprint (SHA-256): EF:66:B0:B1:0A:3C:DB:9F:2E:36:48:C7:6B:D2:AF:18:EA:D2:BF:E6:F1:17:65:5E:28:C4:06:0D:A1:A3:F4:C2 # Fingerprint (SHA1): E9:A8:5D:22:14:52:1C:5B:AA:0A:B4:BE:24:6A:23:8A:C9:BA:E2:A9 CKA CLASS CK OBJECT CLASS CKO CERTIFICATE CKA_TOKEN CK_BBOOL CK_TRUE CKA_PRIVATE CK_BBOOL CK_FALSE CKA_MODIFIABLE CK_BBOOL CK_FALSE CKA_LABEL UTF8 "E-Tugra Global Root CA RSA v3" CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509 CKA_SUBJECT MULTILINE_OCTAL \060\201\200\061\013\060\011\006\003\125\004\006\023\002\124\122 \061\017\060\015\006\003\125\004\007\023\006\101\156\153\141\162 \141\061\031\060\027\006\003\125\004\012\023\020\105\055\124\165 \147\162\141\040\105\102\107\040\101\056\123\056\061\035\060\033 \006\003\125\004\013\023\024\105\055\124\165\147\162\141\040\124 \162\165\163\164\040\103\145\156\164\145\162\061\046\060\044\006 \003\125\004\003\023\035\105\055\124\165\147\162\141\040\107\154

CKA VALUE MULTILINE OCTAL \060\202\005\363\060\202\003\333\240\003\002\001\002\002\024\015 \115\305\315\026\042\225\226\010\176\270\013\177\025\006\064\373 \171\020\064\060\015\006\011\052\206\110\206\367\015\001\001\013 \005\000\060\201\200\061\013\060\011\006\003\125\004\006\023\002 \124\122\061\017\060\015\006\003\125\004\007\023\006\101\156\153 \141\162\141\061\031\060\027\006\003\125\004\012\023\020\105\055 \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 \123\101\040\166\063\060\036\027\015\062\060\060\063\061\070\060 \071\060\067\061\067\132\027\015\064\065\060\063\061\062\060\071 \060\067\061\067\132\060\201\200\061\013\060\011\006\003\125\004 \006\023\002\124\122\061\017\060\015\006\003\125\004\007\023\006 \101\156\153\141\162\141\061\031\060\027\006\003\125\004\012\023 \020\105\055\124\165\147\162\141\040\105\102\107\040\101\056\123 \056\061\035\060\033\006\003\125\004\013\023\024\105\055\124\165 \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 \356\011\311\143\322\323\103\335\136\303\246\204\070\112\361\215 \201\273\024\275\107\350\100\027\363\075\303\170\105\162\246\056 \220\336\232\072\324\040\161\312\274\237\035\113\227\012\307\061

END

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

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

END

\040\166\063

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 $\label{eq:2.124} \\ 006 \\ 003 \\ 125 \\ 004 \\ 013 \\ 023 \\ 024 \\ 105 \\ 055 \\ 124 \\ 165 \\ 147 \\ 162 \\ 141 \\ 040 \\ 124$ \003\125\004\003\023\035\105\055\124\165\147\162\141\040\107\154

UTF8 "0"

CKA ID

END

\040\166\063

\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 $\label{eq:241} 267 \\ 253 \\ 344 \\ 261 \\ 352 \\ 041 \\ 024 \\ 134 \\ 203 \\ 244 \\ 374 \\ 377 \\ 266 \\ 120 \\ 323 \\ 324 \\ 374 \\ 377 \\ 266 \\ 120 \\ 323 \\ 324 \\ 374 \\ 377 \\ 266 \\ 120 \\ 323 \\ 324 \\ 374 \\ 377 \\ 266 \\ 120 \\ 323 \\ 324 \\ 374 \\ 377 \\ 266 \\ 120 \\ 323 \\ 324 \\ 374 \\ 377 \\ 266 \\ 120 \\ 323 \\ 324 \\ 377 \\ 266 \\ 120 \\ 323 \\ 324 \\ 377 \\ 266 \\ 120 \\ 323 \\ 324 \\ 377 \\ 266 \\ 120 \\ 323 \\ 324 \\ 377 \\ 266 \\ 120 \\ 323 \\ 324 \\ 377 \\ 266 \\ 120 \\ 323 \\ 324 \\ 377 \\ 377 \\ 266 \\ 120 \\ 323 \\ 324 \\ 377 \\ 3$ \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 \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 $$ 227 $$ 234 $$ 151 $$ 47 $$ 012 $$ 377 $$ 017 $$ 132 $$ 170 $$ 161 $$$ 161 $$ 161 $$ 161 $$ 161 $$ 161 $$ 161 $$ 161 $$ 1$ \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 $\label{eq:2.15} $$ 157\050\073\240\151\233\217\354\254\256\053\124\235\233\004\261\$ \107\040\257\226\022\076\143\224\035\004\347\056\273\206\307\014 \232\210\277\166\107\357\367\260\013\227\146\322\104\317\140\122 $\label{eq:2.1} \end{tabular} \end{tabular}$ \377\014\273\004\342\141\303\242\310\227\141\216\264\060\152\074 \155\302\007\137\112\163\057\077\371\026\212\001\146\357\272\221 \312\122\127\173\256\324\346\017\335\013\172\177\213\236\046\040 \317\073\357\201\161\203\131 END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE CKA_NSS_SERVER_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): EF:66:B0:B1:0A:3C:DB:9F:2E:36:48:C7:6B:D2:AF:18:EA:D2:BF:E6:F1:17:65:5E:28:C4:06:0D:A1:A3:F4:C2 # Fingerprint (SHA1): E9:A8:5D:22:14:52:1C:5B:AA:0A:B4:BE:24:6A:23:8A:C9:BA:E2:A9 CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST CKA_TOKEN CK_BBOOL CK_TRUE CKA_PRIVATE CK_BBOOL CK_FALSE CKA_MODIFIABLE CK_BBOOL CK_FALSE CKA_LABEL UTF8 "E-Tugra Global Root CA RSA v3" CKA_CERT_SHA1_HASH MULTILINE_OCTAL \351\250\135\042\024\122\034\133\252\012\264\276\044\152\043\212 \311\272\342\251 END CKA_CERT_MD5_HASH

MULTILINE_OCTAL

\042\276\020\366\302\370\003\210\163\137\063\051\107\050\107\244 END

CKA_ISSUER MULTILINE_OCTAL

 $\label{eq:solution} $$ \ (060\201\200\061\013\060\011\006\003\125\004\006\023\002\124\122\061\017\060\015\006\003\125\004\007\023\006\101\156\153\141\162\141\060\003\125\004\003\125\004\003\125\004\012\023\022\105\055\124\165\147\162\141\040\124\162\141\040\124\162\165\163\164\040\103\145\156\164\145\162\061\046\060\044\006\003\125\004\003\023\035\105\055\124\165\147\162\141\040\107\154\157\142\141\154\040\122\157\157\164\040\103\101\040\122\123\101\040\122\123\101\040\122\123\101\040\122\123\101\040\122\123\101\040\166\063 $$$

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL \002\024\015\115\305\315\026\042\225\226\010\176\270\013\177\025 \006\064\373\171\020\064 END CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST CKA_TRUST_CODE_SIGNING CK_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#

Certificate "E-Tugra Global Root CA ECC v3"

#

Issuer: CN=E-Tugra Global Root CA ECC v3,OU=E-Tugra Trust Center,O=E-Tugra EBG A.S.,L=Ankara,C=TR # Serial Number:26:46:19:77:31:e1:4f:6f:28:36:de:39:51:86:e6:d4:97:88:22:c1

Subject: CN=E-Tugra Global Root CA ECC v3,OU=E-Tugra Trust Center,O=E-Tugra EBG

A.S.,L=Ankara,C=TR

Not Valid Before: Wed Mar 18 09:46:58 2020

Not Valid After : Sun Mar 12 09:46:58 2045

Fingerprint (SHA-256):

87:3F:46:85:FA:7F:56:36:25:25:2E:6D:36:BC:D7:F1:6F:C2:49:51:F2:64:E4:7E:1B:95:4F:49:08:CD:CA:13

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

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

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

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL

 $\label{eq:201} $$ 060\201\200\061\013\060\011\006\003\125\004\006\023\002\124\122 $$

 $\label{eq:141} $$ 147 162 141 040 105 102 107 040 101 056 123 056 061 035 060 033 $$$

\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 201200/061/013/060/011/006/003/125/004/006/023/002/124/122/061 \017\060\015\006\003\125\004\007\023\006\101\156\153\141\162\141 \061\031\060\027\006\003\125\004\012\023\020\105\055\124\165\147 \162\141\040\105\102\107\040\101\056\123\056\061\035\060\033\006 \003\125\004\013\023\024\105\055\124\165\147\162\141\040\124\162 \165\163\164\040\103\145\156\164\145\162\061\046\060\044\006\003 \125\004\003\023\035\105\055\124\165\147\162\141\040\107\154\157 \142\141\154\040\122\157\157\164\040\103\101\040\105\103\103\040 \166\063\060\036\027\015\062\060\060\063\061\070\060\071\064\066 \065\070\132\027\015\064\065\060\063\061\062\060\071\064\066\065 \070\132\060\201\200\061\013\060\011\006\003\125\004\006\023\002 \124\122\061\017\060\015\006\003\125\004\007\023\006\101\156\153 \141\162\141\061\031\060\027\006\003\125\004\012\023\020\105\055 \124\165\147\162\141\040\105\102\107\040\101\056\123\056\061\035 $\label{eq:2.141} $$ 060\03\006\003\125\004\013\023\024\105\055\124\165\147\162\141\165\166\166\147\165\147\162\141\165\147\162\141\165\147\162\141\165\147\162\141\162\141\165\147\162\141\162\141\165\142\141\162\141\141\162\141\141\162\141\141\162\141\162\141\162\141\162\141\162\141\162\141\162\141\162\141\1$ \040\124\162\165\163\164\040\103\145\156\164\145\162\061\046\060 \044\006\003\125\004\003\023\035\105\055\124\165\147\162\141\040 \107\154\157\142\141\154\040\122\157\157\164\040\103\101\040\105 \103\103\040\166\063\060\166\060\020\006\007\052\206\110\316\075 \002\001\006\005\053\201\004\000\042\003\142\000\004\216\230\051 \277\307\020\036\047\333\253\003\314\050\054\330\136\110\031\020

CKA_VALUE MULTILINE_OCTAL

END

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

MULTILINE_OCTAL \002\024\046\106\031\167\061\341\117\157\050\066\336\071\121\206

CKA_SERIAL_NUMBER

END

\040\166\063

CKA_ISSUER MULTILINE_OCTAL \060\201\200\061\013\060\011\006\003\125\004\006\023\002\124\122 \061\017\060\015\006\003\125\004\007\023\006\101\156\153\141\162 \141\061\031\060\027\006\003\125\004\012\023\020\105\055\124\165 \147\162\141\040\105\102\107\040\101\056\123\056\061\035\060\033 \006\003\125\004\013\023\024\105\055\124\165\147\162\141\040\124 \162\165\163\164\040\103\145\156\164\145\162\061\046\060\044\006 \003\125\004\003\023\035\105\055\124\165\147\162\141\040\107\154 \157\142\141\154\040\122\157\157\164\040\103\101\040\105\103\103

UTF8 "0"

CKA ID

END

\040\166\063

 $\label{eq:li62li63li64l040l03l145li56l64l145li62l061l046l060l044l006} \\ \begin{tabular}{ll} \begin{tabular}{lll} \end{tabular} \end{tabular}$

\051\314\313\131\201\314\214\270\222\027\211\203\052\222\366\303 \244\035\114\142\325\237\326\240\106\334\034\274\166\301\343\107 \320\133\023\332\347\245\263\146\110\347\041\232\112\117\206\012 $\label{eq:175} $$ 154352115062200012262172011233151113230201342 $$$ \056\354\002\160\226\037\375\365\106\316\312\334\202\243\143\060 \141\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001 \001\377\060\037\006\003\125\035\043\004\030\060\026\200\024\377 \202\061\162\076\371\304\146\154\255\070\236\321\260\121\210\245 \220\314\365\060\035\006\003\125\035\016\004\026\004\024\377\202 \061\162\076\371\304\146\154\255\070\236\321\260\121\210\245\220 \314\365\060\016\006\003\125\035\017\001\001\377\004\004\003\002 \001\006\060\012\006\010\052\206\110\316\075\004\003\003\003\151 \000\060\146\002\061\000\346\005\130\151\141\345\055\312\015\313 $\label{eq:21} 065 \\ 221 \\ 071 \\ 231 \\ 372 \\ 007 \\ 251 \\ 146 \\ 223 \\ 272 \\ 310 \\ 150 \\ 324 \\ 212 \\ 077 \\ 372 \\ 37$ \355\156\026\002\047\267\002\061\000\335\132\027\053\166\035\145 $\label{eq:226} $$ 102\226\246\254\135\212\171\126\330\212\033\337\232\336\137\307\$ \120\217\261\133\161\014\046\337\152\100\000\354\063\221\041\161 \276\150\344\043\244\331\255\241\067 END CKA NSS MOZILLA CA POLICY

CK_BBOOL CK_TRUE

CKA_NSS_SERVER_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

 $\label{eq:212} $$ \frac{212}057}{257}127123}261260346241004354133152151161155$

END

CKA_CERT_MD5_HASH

MULTILINE_OCTAL

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

END

CKA_ISSUER MULTILINE_OCTAL

\060\201\200\061\013\060\011\006\003\125\004\006\023\002\124\122 $\label{eq:2.1} \end{tabular} \end{tabular}$ \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 $\label{eq:2.10} \\ 003\125\004\003\023\035\105\055\124\165\147\162\141\040\107\154$ \040\166\063 **END** CKA_SERIAL_NUMBER MULTILINE_OCTAL \002\024\046\106\031\167\061\341\117\157\050\066\336\071\121\206 \346\324\227\210\042\301 END CKA TRUST SERVER AUTH CK TRUST CKT NSS TRUSTED DELEGATOR CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST CKA TRUST CODE SIGNING CK TRUST CKT_NSS_MUST_VERIFY_TRUST CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Found in path(s):

* /opt/cola/permits/1538589024_1681232081.9126525/0/ca-certificates-bundle-20220614-r4-tar-gz/ca-certificates/ca-certificates-20220614-tar-bz2/ca-certificates-20220614/certdata.txt No license file was found, but licenses were detected in source scan.

/* c_rehash.c - Create hash symlinks for certificates

* C implementation based on the original Perl and shell versions

*

* Copyright (c) 2013-2014 Timo Teräs <timo.teras@iki.fi>

```
* All rights reserved.
```

*

* This software is licensed under the MIT License.

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Found in path(s):

 $* /opt/cola/permits/1538589024_1681232081.9126525/0/ca-certificates-bundle-20220614-r4-tar-gz/ca-certificates/ca-certificates-20220614-tar-bz2/ca-certificates-20220614/c_rehash.c$

1.125 fastjson v1.6.4

1.125.1 Available under license :

The MIT License (MIT)

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1.126 musl-utils 1.2.3-r4

1.126.1 Available under license :

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1.128 valyala-fastjson 1.6.4

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1.129 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()
```

 ${\ensuremath{/\!/}}$ 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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```
package compute_test
```

import ("context"

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

)

```
func ExampleNewLicensesRESTClient() {
```

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

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

// It will

require modifications to work:

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

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

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

```
c, err := compute.NewLicensesRESTClient(ctx)
```

```
if err != nil {
```

// TODO: Handle error.

```
}
```

```
defer c.Close()
```

```
// TODO: Use client.
```

```
_= c
}
```

```
func ExampleLicensesClient_Delete() {
```

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

 ${\ensuremath{/\!/}}$ 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()
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// 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.
```

```
\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.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.
// - 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()
```

```
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```

// It will require modifications to work:

 $\prime\prime$ - 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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```

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package compute

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

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

gax "github.com/googleapis/gax-go/v2"

"google.golang.org/api/googleapi"

"google.golang.org/api/iterator"

"google.golang.org/api/option"

"google.golang.org/api/option/internaloption"

httptransport

"google.golang.org/api/transport/http"

"google.golang.org/grpc"

"google.golang.org/grpc/metadata"

"google.golang.org/protobuf/encoding/protojson"

"google.golang.org/protobuf/proto"

)

var newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {

Delete[]gax.CallOptionGet[]gax.CallOptionGetIamPolicy[]gax.CallOptionInsert[]gax.CallOptionList[]gax.CallOptionSetIamPolicy[]gax.CallOptionTestIamPermissions[]gax.CallOption

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

 $Get (context. Context, *computepb. GetLicense Request, ...gax. CallOption) \ (*computepb. License, error) \\$

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

Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)

List (context, *computepb.ListLicenses Request, ...gax. Call Option) * License Iterator

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.internal Client.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()...),
}
}
//
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
```

```
}
```

```
}
// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licensesRESTClient) Connection()
 *grpc.ClientConn {
 return nil
}
```

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(),
 },
}
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
}
here Url Ded are for for intf("(compared of 1))
```

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

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as 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 {
 if settings.Path != "" {
 baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
 if err != nil {
 return err
 }
 httpReq.Header = headers
 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
 return err
 }
 defer httpRsp.Body.Close()
 if err = googleapi.CheckResponse(httpRsp); err != nil {
 return err
 }
 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
 return err
 }
 if err := unm.Unmarshal(buf, resp); err != nil {
 return
maybeUnknownEnum(err)
 }
 return nil
}, opts...)
if e != nil {
 return nil, "", e
}
it.Response = resp
return resp.GetItems(), resp.GetNextPageToken(), nil
}
fetch := func(pageSize int, pageToken string) (string, error) {
items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
if err != nil {
 return "", err
}
it.items = append(it.items, items...)
return nextPageToken, nil
}
```

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

return it

}

```
// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
m := protojson.MarshalOptions{AllowPartial:
true }
body := req.GetGlobalSetPolicyRequestResource()
jsonReq, err := m.Marshal(body)
if err != nil {
 return nil, err
}
baseUrl, err := url.Parse(c.endpoint)
if err != nil {
 return nil, err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())
// Build HTTP headers from client and context metadata.
md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))
headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Policy{ }
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings)
error {
 if settings.Path != "" {
 baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
 return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers
```

```
httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
 return err
 }
defer httpRsp.Body.Close()
if err = googleapi.CheckResponse(httpRsp); err != nil {
 return err
}
buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
 return err
 }
if err := unm.Unmarshal(buf, resp); err != nil {
 return maybeUnknownEnum(err)
}
return nil
}, opts...)
if e != nil {
return nil, e
}
return resp, nil
}
```

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

```
if err != nil {
return nil, err
}
```

baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(), req.GetResource())

// Build HTTP headers from client and context metadata.

```
md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))
headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).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
 }
buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
 return err
 }
if err := unm.Unmarshal(buf, resp); err != nil {
 return maybeUnknownEnum(err)
 }
return nil
}, opts...)
if e != nil \{
return nil, e
}
return resp, nil
}
```

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

//

Response is the raw response for the current page. // It must be cast to the RPC response type. // Calling Next() or InternalFetch() updates this value. Response interface{} // InternalFetch is for use by the Google Cloud Libraries only. // It is not part of the stable interface of this package. // // InternalFetch returns results from a single call to the underlying RPC. // The number of results is no greater than pageSize.

// If there are no more results, nextPageToken is empty and err is nil.

InternalFetch func(pageSize int, pageToken string) (results []*computepb.License, nextPageToken string, err error) }

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

}

 $/\!/$ Next returns the next result. Its second return value is iterator. Done if there are no more

// results. Once Next returns Done, all subsequent calls will return Done.
func (it *LicenseIterator)

```
Next() (*computepb.License, error) {
var item *computepb.License
if err := it.nextFunc(); err != nil {
return item, err
}
item = it.items[0]
it.items = it.items[1:]
return item, nil
}
func (it *LicenseIterator) bufLen() int {
return len(it.items)
}
```

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

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package compute

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

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

gax "github.com/googleapis/gax-go/v2"

"google.golang.org/api/googleapi"

"google.golang.org/api/option"

"google.golang.org/api/option/internaloption"

httptransport "google.golang.org/api/transport/http"

"google.golang.org/grpc"

"google.golang.org/grpc/metadata"

"google.golang.org/protobuf/encoding/protojson"

)

var

newLicenseCodesClientHook clientHook

// LicenseCodesCallOptions contains the retry settings for each method of LicenseCodesClient.

type LicenseCodesCallOptions struct { Get []gax.CallOption

TestIamPermissions []gax.CallOption

}

func defaultLicenseCodesRESTCallOptions() *LicenseCodesCallOptions { return &LicenseCodesCallOptions{ Get: []gax.CallOption{}, TestIamPermissions: []gax.CallOption{},

} }

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

Close() error

setGoogleClientInfo(...string)

Connection() *grpc.ClientConn

Get(context.Context, *computepb.GetLicenseCodeRequest, ...gax.CallOption) (*computepb.LicenseCode, error) TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseCodeRequest, ...gax.CallOption) (*computepb.TestPermissionsResponse, error)

}

// LicenseCodesClient is a client for interacting with Google Compute Engine API.

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with method calls.

//

// The LicenseCodes API.

type LicenseCodesClient struct {

 $\ensuremath{\ensuremath{\mathcal{H}}}$ The internal transport-dependent client.

 $internal Client\ internal License Codes Client$

// 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,

 $req\ * compute pb. Test Iam Permissions License Code Request, opts\ ...gax. Call Option)$

(*computepb.TestPermissionsResponse, error) {

return c.internalClient.TestIamPermissions(ctx, req, opts...)

}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with method calls.

type licenseCodesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

// The http client.
httpClient *http.Client

// The x-goog-* metadata to be sent with each request. xGoogMetadata metadata.MD

// Points back to the CallOptions field of the containing LicenseCodesClient
CallOptions **LicenseCodesCallOptions

}

// NewLicenseCodesRESTClient creates a new license codes rest client.

//

// The LicenseCodes API.

func NewLicenseCodesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicenseCodesClient, error) {
 clientOpts := append(defaultLicenseCodesRESTClientOptions(), opts...)

httpClient, endpoint, err := httptransport.NewClient(ctx,

clientOpts...)

if err != nil {

return nil, err

}

callOpts := defaultLicenseCodesRESTCallOptions()
c := &licenseCodesRESTClient{
 endpoint: endpoint,

```
httpClient: httpClient,
 CallOptions: &callOpts,
c.setGoogleClientInfo()
return &LicenseCodesClient{internalClient: c, CallOptions: callOpts}, nil
}
func defaultLicenseCodesRESTClientOptions() []option.ClientOption {
return []option.ClientOption{
 internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
 internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
 internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
 internaloption.WithDefaultScopes(DefaultAuthScopes()...),
 }
}
// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licenseCodesRESTClient) setGoogleClientInfo(keyval ...string) {
kv := append([]string{"gl-go",
versionGo()}, keyval...)
kv = append(kv, "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 *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).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
}
buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
 return err
 }
if err := unm.Unmarshal(buf, resp); err != nil {
 return maybeUnknownEnum(err)
}
return nil
}, opts...)
if e != nil {
return nil, e
}
return resp, nil
}
```

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1.132 github.com/go-kit/log v0.2.1 1.132.1 Available under license :

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1.133 prometheus-operator-prometheusoperator 0.62.0

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1.135 prometheus-procfs 0.9.0

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1.137 prometheus-operator-prometheusoperator-pkg-client 0.62.0

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1.148 protobuf v1.30.0

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1.149 x-text 0.9.0

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1.150 k8s-io-api v0.25.6

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1.152 go-restful v3.10.0

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1.154 k8s-io-client-go v0.25.6

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1.155 utils v0.0.0-20221108210102-8e77b1f39fe2

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1.158 k8s-io-apiextensions-apiserver v0.25.4

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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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1.172 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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* /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
```

1.173 x-sync v0.2.0

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1.175 prometheus-client 0.4.0

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1.178 go-uber-org-atomic v1.11.0

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1.180 prometheus-client v1.15.1

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1.181 common v0.43.0

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1.182 clientmodel v0.4.0

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1.183 fasthttp 1.2.0

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1.184 golang 1.20.7

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1.185 metricsql v0.56.2

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1.186

github.com/victoriametrics/victoriametrics v1.91.3

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Protocol Buffers for Go with Gadgets

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

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1.187 metrics v1.24.0

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1.188 victoriametrics-victoriametrics 1.91.3

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

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Protocol Buffers for Go with Gadgets

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

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1.190 victoriametrics-metrics 1.24.0

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1.194 json iterator go v1.1.12

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1.197 spf13-pflag v1.0.5

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1.199 uuid v1.3.0

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1.200 golang-protobuf-extensions v1.0.4

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1.203 logr 1.2.4

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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/1893063483_1706126891.2118979/0/dbosak01-logr-v1-2-4-0-g8c5ac86-1-tar-gz/dbosak01-logr-8c5ac86/DESCRIPTION

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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/1893063483_1706126891.2118979/0/dbosak01-logr-v1-2-4-0-g8c5ac86-1-tar-gz/dbosak01-logr-8c5ac86/docs/bootstrap-toc.js

* /opt/cola/permits/1893063483_1706126891.2118979/0/dbosak01-logr-v1-2-4-0-g8c5ac86-1-tar-gz/dbosak01-logr-8c5ac86/docs/bootstrap-toc.css

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Found in path(s):

 $* / opt/cola/permits/1893063483_1706126891.2118979 / 0/dbosak01 - logr-v1-2-4-0-g8c5ac86-1-tar-gz/dbosak01 - logr-8c5ac86 / docs/docsearch.css$

1.204 xxhash v2.2.0

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1.205 victoriametrics-operator V0.36.0

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* /opt/cola/permits/1953341721_1711742413.0601435/0/operator-44-

zip/operator/api/v1beta1/groupversion_info.go

* /opt/cola/permits/1953341721_1711742413.0601435/0/operator-44-zip/operator/api/v1beta1/vmauth_webhook.go

* /opt/cola/permits/1953341721_1711742413.0601435/0/operator-44-zip/operator/api/v1beta1/vmprobe_types.go

* /opt/cola/permits/1953341721_1711742413.0601435/0/operator-44-

zip/operator/api/v1beta1/vmalertmanagerconfig_types.go

*

/opt/cola/permits/1953341721_1711742413.0601435/0/operator-44-zip/operator/api/v1beta1/vmuser_webhook.go */opt/cola/permits/1953341721_1711742413.0601435/0/operator-44-

zip/operator/api/v1beta1/vmalertmanagerconfig_webhook.go

* /opt/cola/permits/1953341721_1711742413.0601435/0/operator-44-

 $zip/operator/api/v1beta1/zz_generated.deepcopy.go$

1.206 go.uber.org/atomi 1.11.0

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1.207 gopkg.in-yaml 3.0.1

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1.208 spew 1.1.1

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1.209 xxhash 2.2.0

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1.210 kubernetes-klog 2.80.1

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1.211 mergo 0.3.13

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 site: string
 author: root

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1.213 goprotobuf 1.5.3

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1.214 xxhash 2.1.2

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1.215 protobuf 1.28.0

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1.216 gopkg.in-inf 0.9.1

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1.217 protobuf 1.30.0

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1.219 go-uber-org-multierr 1.7.0

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1.220 fsnotify 1.6.0

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1.221 easyjson 0.7.7

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1.223 controller-runtime 0.13.1

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1.224 yaml 1.3.0

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1.225 errors 0.9.1

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1.227 goprotobuf 1.5.2

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1.228 units 0.0.0-20211218093645b94a6e3cc137

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