



Open Source Used In AppDynamics_Java_Agent 24.11.0.0 - Multiarchitecture

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1.10 error_prone_annotations 2.3.3

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Found in path(s):
*/opt/cola/permits/1150926774_1617721880.98/0/error-prone-annotations-2-3-3-sources-5-
jar/com/google/errorprone/annotations/FormatString.java
*/opt/cola/permits/1150926774_1617721880.98/0/error-prone-annotations-2-3-3-sources-5-
jar/com/google/errorprone/annotations/FormatMethod.java
*/opt/cola/permits/1150926774 1617721880.98/0/error-prone-annotations-2-3-3-sources-5-
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/opt/cola/permits/1150926774 1617721880.98/0/error-prone-annotations-2-3-3-sources-5-
jar/com/google/errorprone/annotations/RestrictedApi.java
* /opt/cola/permits/1150926774_1617721880.98/0/error-prone-annotations-2-3-3-sources-5-
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*/opt/cola/permits/1150926774_1617721880.98/0/error-prone-annotations-2-3-3-sources-5-
jar/com/google/errorprone/annotations/DoNotCall.java
*/opt/cola/permits/1150926774_1617721880.98/0/error-prone-annotations-2-3-3-sources-5-
jar/com/google/errorprone/annotations/OverridingMethodsMustInvokeSuper.java
```

jar/com/google/errorprone/annotations/CheckReturnValue.java

*/opt/cola/permits/1150926774_1617721880.98/0/error-prone-annotations-2-3-3-sources-5jar/com/google/errorprone/annotations/concurrent/GuardedBy.java No license file was found, but licenses were detected in source scan.

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- $*/opt/cola/permits/1150926774_1617721880.98/0/error-prone-annotations-2-3-3-sources-5-jar/com/google/errorprone/annotations/concurrent/UnlockMethod.java$
- $*/opt/cola/permits/1150926774_1617721880.98/0/error-prone-annotations-2-3-3-sources-5-jar/com/google/errorprone/annotations/concurrent/LockMethod.java$

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- $*/opt/cola/permits/1150926774_1617721880.98/0/error-prone-annotations-2-3-3-sources-5-jar/com/google/errorprone/annotations/RequiredModifiers.java$
- $*/opt/cola/permits/1150926774_1617721880.98/0/error-prone-annotations-2-3-3-sources-5-jar/com/google/errorprone/annotations/SuppressPackageLocation.java$

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 $/opt/cola/permits/1150926774_1617721880.98/0/error-prone-annotations-2-3-3-sources-5-jar/com/google/errorprone/annotations/CompileTimeConstant.java$

- * /opt/cola/permits/1150926774_1617721880.98/0/error-prone-annotations-2-3-3-sources-5-jar/com/google/errorprone/annotations/Immutable.java
- $*/opt/cola/permits/1150926774_1617721880.98/0/error-prone-annotations-2-3-3-sources-5-jar/com/google/errorprone/annotations/Var.java$
- * /opt/cola/permits/1150926774_1617721880.98/0/error-prone-annotations-2-3-3-sources-5-jar/com/google/errorprone/annotations/IncompatibleModifiers.java
- */opt/cola/permits/1150926774_1617721880.98/0/error-prone-annotations-2-3-3-sources-5-jar/com/google/errorprone/annotations/concurrent/LazyInit.java
- * /opt/cola/permits/1150926774_1617721880.98/0/error-prone-annotations-2-3-3-sources-5-jar/com/google/errorprone/annotations/ForOverride.java

1.11 jeromq 0.3.5

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1.13 log4j-api 2.17.1

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Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007.

It is currently developed by a community of developers.

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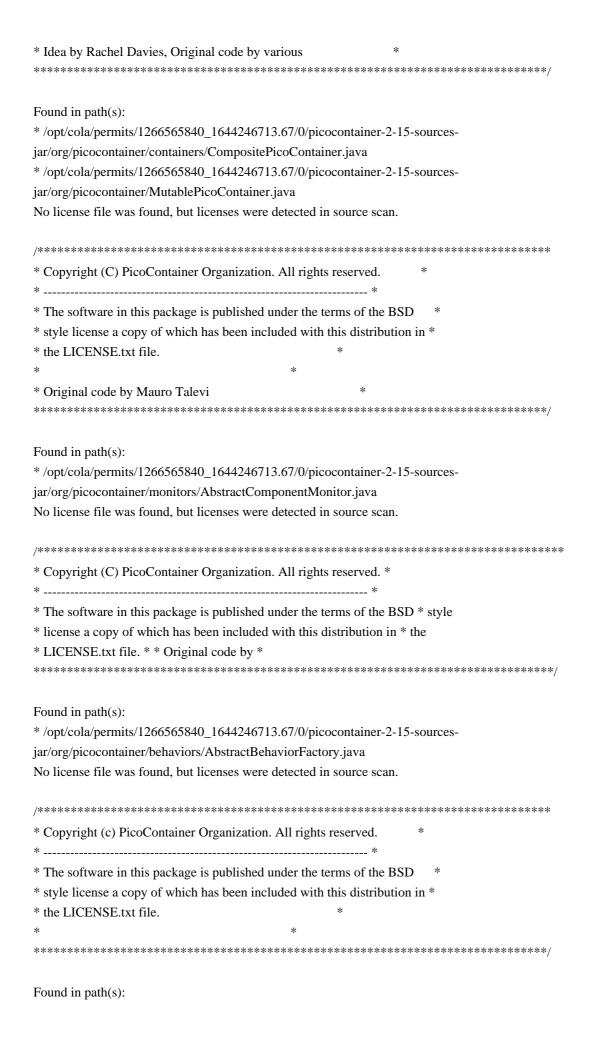
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* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/behaviors/AbstractBehavior.java
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| * Original code by Joerg Schaibe * |
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| Found in path(s): |
| * /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources- |
| jar/org/picocontainer/behaviors/Decorating.java |
| */opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources- |
| jar/org/picocontainer/behaviors/FieldDecorating.java |
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| * * |
| * Original code by Paul Hammaant * |
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| Found in path(s): |
| */opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources- |
| jar/org/picocontainer/monitors/ComponentMonitorHelper.java |
| */opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources- |
| jar/org/picocontainer/monitors/WriterComponentMonitor.java |
| * |
| /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources- |
| • |
| jar/org/picocontainer/monitors/ConsoleComponentMonitor.java |
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| * /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources- |
| |
| jar/org/picocontainer/containers/AbstractDelegatingMutablePicoContainer.java |
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| Found in path(s): |
| */opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources- |
| jar/org/picocontainer/injectors/PrimitiveMemberChecker.java |
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| Found in path(s): |
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| Found in path(s): |
| * /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources- |
| jar/org/picocontainer/ComponentMonitor.java |
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* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/containers/PropertiesPicoContainer.java
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/injectors/MethodInjector.java
*/opt/cola/permits/1266565840 1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/behaviors/Intercepting.java
/opt/cola/permits/1266565840 1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/PicoLifecycleException.java
*/opt/cola/permits/1266565840 1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/injectors/ForgetfulConstructorInjection.java
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/behaviors/Intercepted.java
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/containers/SystemPropertiesPicoContainer.java
*/opt/cola/permits/1266565840 1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/containers/CommandLineArgumentsPicoContainer.java
*/opt/cola/permits/1266565840 1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/injectors/ParameterNameBinding.java
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/parameters/AbstractParameter.java
/opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/injectors/SingleMemberInjector.java
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* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/composers/RegexComposer.java
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/monitors/ComposingMonitor.java
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| Found in path(s): |
| * /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources- |
| jar/org/picocontainer/parameters/ConstantParameter.java |
| */opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/Parameter.java |
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| Found in path(s): |
| * /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/Behavior.java |
| */opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources- |
| |
| jar/org/picocontainer/containers/EmptyPicoContainer.java |
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| Found in path(s): |
| * /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources- |
| jar/org/picocontainer/Disposable.java |
| $*/opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/Startable.java$ |
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- $*/opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/behaviors/Guarding.java$

/opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/injectors/SetterInjection.java

- * /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/injectors/MethodInjection.java
- * /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/injectors/AnnotatedMethodInjection.java
- * /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/injectors/AdaptingInjection.java
- $*/opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/injectors/ConstructorInjection.java$
- $*/opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/behaviors/ThreadCaching.java$
- * /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/injectors/ConstructorInjector.java
- $*/opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/behaviors/Storing.java$

/opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/behaviors/Caching.java

- $*/opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/PicoCompositionException.java$
- $*/opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/behaviors/OptInCaching.java$
- * /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/behaviors/Cached.java

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- * /opt/cola/permits/1349013147_1655879756.6643403/0/failureaccess-1-0-1-sources-4-jar/com/google/common/util/concurrent/internal/InternalFutureFailureAccess.java

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- $*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/tools/Callback.java$

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jar/javassist/bytecode/InnerClassesAttribute.java

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- $*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/scopedpool/ScopedClassPoolFactoryImpl.java$
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- $*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/compiler/ast/NewExpr.java$
- * /opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/bytecode/CodeIterator.java
- $*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/CtNewWrappedConstructor.java$
- $*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/expr/FieldAccess.java$

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- $*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/compiler/ast/Member.java$
- $*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/scopedpool/ScopedClassPool.java$
- * /opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/bytecode/LineNumberAttribute.java
- */opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/compiler/ast/BinExpr.java
- */opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-

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jar/javassist/bytecode/StackMap.java
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jar/javassist/tools/web/Viewer.java
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jar/javassist/bytecode/stackmap/BasicBlock.java
*/opt/cola/permits/1434218610 1664996210.5127783/0/javassist-3-29-2-ga-sources-
jar/javassist/util/proxy/FactoryHelper.java
*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/Modifier.java
*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-
jar/javassist/bytecode/analysis/Type.java
*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-
jar/javassist/bytecode/NestMembersAttribute.java
*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-
jar/javassist/ByteArrayClassPath.java
/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-
jar/javassist/compiler/MemberCodeGen.java
*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-
jar/javassist/bytecode/NestHostAttribute.java
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jar/javassist/compiler/KeywordTable.java
*/opt/cola/permits/1434218610 1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/expr/Expr.java
*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-
jar/javassist/compiler/ast/Pair.java
*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-
jar/javassist/ClassClassPath.java
*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-
jar/javassist/bytecode/AccessFlag.java
*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-
jar/javassist/convert/Transformer.java
*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-
jar/javassist/util/HotSwapAgent.java
/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-
jar/javassist/compiler/ProceedHandler.java
*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/CtClassType.java
*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-
jar/javassist/bytecode/FieldInfo.java
*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-
jar/javassist/tools/rmi/ObjectNotFoundException.java
*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-
jar/javassist/convert/TransformNewClass.java
*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-
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jar/javassist/runtime/Inner.java

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*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/ClassMap.java
*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-
jar/javassist/ClassPoolTail.java
/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/ClassPath.java
*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-
jar/javassist/bytecode/ClassFilePrinter.java
*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-
jar/javassist/compiler/TypeChecker.java
*/opt/cola/permits/1434218610 1664996210.5127783/0/javassist-3-29-2-ga-sources-
jar/javassist/bytecode/ParameterAnnotationsAttribute.java
*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-
jar/javassist/convert/TransformAfter.java
*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-
jar/javassist/bytecode/ConstantAttribute.java
*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/ClassPool.java
*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-
jar/javassist/bytecode/DeprecatedAttribute.java
/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-
jar/javassist/tools/web/BadHttpRequest.java
*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-
jar/javassist/util/proxy/ProxyFactory.java
*/opt/cola/permits/1434218610 1664996210.5127783/0/javassist-3-29-2-ga-sources-
jar/javassist/compiler/ast/CastExpr.java
*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-
jar/javassist/compiler/ast/ASTree.java
*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-
jar/javassist/bytecode/analysis/Frame.java
*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-
jar/javassist/CtNewMethod.java
*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-
jar/javassist/bytecode/stackmap/TypeData.java
*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-
jar/javassist/CtPrimitiveType.java
*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-
jar/javassist/bytecode/stackmap/MapMaker.java
/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-
jar/javassist/compiler/ast/InstanceOfExpr.java
*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-
jar/javassist/util/proxy/SerializedProxy.java
*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-
jar/javassist/expr/ExprEditor.java
*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/Translator.java
* /opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-
jar/javassist/LoaderClassPath.java
```

*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-

jar/javassist/bytecode/analysis/Analyzer.java

- $*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/convert/TransformReadField.java$
- */opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/expr/Handler.java

 $/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/scopedpool/ScopedClassPoolFactory.java$

- $*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/bytecode/annotation/NoSuchClassError.java$
- * /opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/bytecode/BadBytecode.java
- * /opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/compiler/ast/Stmnt.java
- * /opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/bytecode/ByteArray.java
- $*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/compiler/ast/Symbol.java$
- $*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/convert/TransformCall.java$
- $*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/convert/TransformFieldAccess.java$

 $/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/tools/rmi/AppletServer.java$

- $*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/compiler/Parser.java$
- $*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/util/proxy/Proxy.java$
- $*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/compiler/ast/Keyword.java$
- $*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/expr/NewArray.java$
- */opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/compiler/ast/CallExpr.java
- $*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/CodeConverter.java$
- $*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/compiler/ast/DoubleConst.java$

 $/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/convert/TransformAccessArrayField.java$

- * /opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/tools/rmi/ObjectImporter.java
- $*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/tools/reflect/CannotReflectException.java$
- */opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/convert/TransformWriteField.java
- */opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-

*

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jar/javassist/bytecode/Opcode.java
*/opt/cola/permits/1434218610 1664996210.5127783/0/javassist-3-29-2-ga-sources-
jar/javassist/bytecode/EnclosingMethodAttribute.java
*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-
jar/javassist/bytecode/analysis/MultiArrayType.java
*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-
jar/javassist/tools/reflect/Compiler.java
/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-
jar/javassist/util/proxy/ProxyObjectOutputStream.java
*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-
jar/javassist/compiler/ast/Declarator.java
*/opt/cola/permits/1434218610 1664996210.5127783/0/javassist-3-29-2-ga-sources-
jar/javassist/CannotCompileException.java
*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-
jar/javassist/bytecode/stackmap/Tracer.java
*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/CtBehavior.java
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jar/javassist/compiler/ast/IntConst.java
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jar/javassist/expr/MethodCall.java
*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-
jar/javassist/tools/framedump.java
/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-
jar/javassist/util/proxy/DefinePackageHelper.java
*/opt/cola/permits/1434218610 1664996210.5127783/0/javassist-3-29-2-ga-sources-
jar/javassist/bytecode/analysis/Subroutine.java
*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-
jar/javassist/compiler/JvstCodeGen.java
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jar/javassist/convert/TransformBefore.java
*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/CtMethod.java
*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-
jar/javassist/compiler/ast/Visitor.java
*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-
jar/javassist/scopedpool/ScopedClassPoolRepositoryImpl.java
*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/Loader.java
*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-
jar/javassist/compiler/CodeGen.java
/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-
jar/javassist/bytecode/analysis/FramePrinter.java
*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-
jar/javassist/tools/rmi/StubGenerator.java
*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-
jar/javassist/runtime/DotClass.java
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*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-

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jar/javassist/bytecode/CodeAttribute.java
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jar/javassist/bytecode/ConstPool.java
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jar/javassist/SerialVersionUID.java
*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-
jar/javassist/compiler/ast/FieldDecl.java
*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-
jar/javassist/bytecode/LongVector.java
/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-
jar/javassist/bytecode/ExceptionsAttribute.java
*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-
jar/javassist/bytecode/stackmap/TypedBlock.java
*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-
jar/javassist/bytecode/StackMapTable.java
*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-
jar/javassist/bytecode/LocalVariableAttribute.java
*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-
jar/javassist/bytecode/ClassFileWriter.java
*/opt/cola/permits/1434218610 1664996210.5127783/0/javassist-3-29-2-ga-sources-
jar/javassist/bytecode/ExceptionTable.java
*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-
jar/javassist/tools/rmi/RemoteRef.java
*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-
jar/javassist/tools/rmi/Proxy.java
/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-
jar/javassist/compiler/Javac.java
*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/CtMember.java
*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-
jar/javassist/compiler/ast/CondExpr.java
*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-
jar/javassist/CtNewConstructor.java
*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-
jar/javassist/expr/ConstructorCall.java
*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-
jar/javassist/bytecode/analysis/Executor.java
*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-
jar/javassist/compiler/SyntaxError.java
*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-
jar/javassist/compiler/SymbolTable.java
*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-
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/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/tools/rmi/Sample.java

jar/javassist/tools/reflect/ClassMetaobject.java

*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/tools/Dump.java

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*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/CtNewWrappedMethod.java

*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist_3_29_2_ga_sources
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 $*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/util/proxy/MethodHandler.java$

- * /opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/util/proxy/ProxyObject.java
- * /opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/compiler/JvstTypeChecker.java
- $*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/bytecode/analysis/ControlFlow.java$
- $*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/NotFoundException.java$

/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/scopedpool/ScopedClassPoolRepository.java

- $*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jav/javassist/bytecode/SyntheticAttribute.java$
- $*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/compiler/AccessorMaker.java$
- $*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/tools/reflect/Sample.java$
- $*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/tools/reflect/Metaobject.java$
- $*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/util/proxy/MethodFilter.java$
- $*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/runtime/Cflow.java$
- $*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/compiler/CompileError.java$

/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/CtClass.java

- $*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/tools/reflect/CannotCreateException.java$
- $*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jav/assist/bytecode/Bytecode.java$
- $*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jav/javassist/compiler/ast/ASTList.java$
- */opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/CtArray.java
- $*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jav/javassist/bytecode/stackmap/TypeTag.java$
- $*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jav/javassist/util/proxy/DefineClassHelper.java$
- $*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/bytecode/analysis/MultiType.java$

 $/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/bytecode/MethodInfo.java$

* /opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-

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jar/javassist/bytecode/ClassFile.java

- $*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/bytecode/AnnotationDefaultAttribute.java$
- $*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/expr/Instanceof.java$
- */opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/compiler/ast/MethodDecl.java
- * /opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/compiler/ast/AssignExpr.java
- $*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/bytecode/Mnemonic.java$
- $*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/bytecode/analysis/Util.java$

/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/compiler/NoFieldException.java

- */opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/expr/Cast.java
- $*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/bytecode/DuplicateMemberException.java$
- $*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/tools/reflect/Metalevel.java$
- $*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/bytecode/annotation/AnnotationImpl.java$
- $*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/URLClassPath.java$
- $*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/bytecode/Descriptor.java$
- $*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jav/javassist/util/HotSwapper.java$
- $*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/tools/rmi/RemoteException.java$

 $/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/bytecode/annotation/AnnotationsWriter.java$

- $*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/compiler/MemberResolver.java$
- * /opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/bytecode/LocalVariableTypeAttribute.java
- * /opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/compiler/ast/Expr.java
- * /opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/bytecode/SourceFileAttribute.java
- $*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jav/javassist/convert/TransformNew.java$
- $*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/compiler/ast/ArrayInit.java$
- $*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/tools/reflect/CannotInvokeException.java$

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/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/util/proxy/SecurityActions.java

- * /opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/util/proxy/ProxyObjectInputStream.java
- * /opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/bytecode/InstructionPrinter.java
- $*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jav/javassist/tools/web/Webserver.java$
- * /opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/compiler/ast/StringL.java
- * /opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/compiler/TokenId.java
- * /opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/compiler/ast/Variable.java
- $*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/util/proxy/RuntimeSupport.java$

/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/bytecode/AttributeInfo.java

- $*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jav/javassist/bytecode/SignatureAttribute.java$
- * /opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/tools/reflect/Reflection.java
- * /opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/bytecode/AnnotationsAttribute.java
- $*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jav/javassist/bytecode/analysis/SubroutineScanner.java$
- */opt/cola/permits/1434218610 1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/CtField.java
- $*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/expr/NewExpr.java$
- $*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jav/assist/bytecode/CodeAnalyzer.java$

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- $*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/bytecode/annotation/FloatMemberValue.java$
- $*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/bytecode/annotation/MemberValueVisitor.java$

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 $/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/bytecode/annotation/MemberValue.java$

- * /opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/bytecode/annotation/LongMemberValue.java
- * /opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/bytecode/annotation/CharMemberValue.java
- $*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/bytecode/annotation/ByteMemberValue.java$
- $*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/bytecode/annotation/ClassMemberValue.java$
- * /opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/bytecode/annotation/Annotation.java
- $*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/bytecode/annotation/ArrayMemberValue.java$

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/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/bytecode/annotation/DoubleMemberValue.java

- $*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/bytecode/annotation/ShortMemberValue.java$
- $*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/bytecode/annotation/IntegerMemberValue.java$
- $*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/bytecode/annotation/StringMemberValue.java$
- $*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/bytecode/annotation/EnumMemberValue.java$
- * /opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/bytecode/annotation/BooleanMemberValue.java
- $*/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jav/javassist/bytecode/annotation/AnnotationMemberValue.java$

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1.25 jctools-core 4.0.1

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Found in path(s):

*/opt/cola/permits/1532380834_1673637846.4237232/0/jctools-core-4-0-1-1-jar/META-

INF/maven/org.jctools/jctools-core/pom.xml

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Manifest-Version: 1.0

Bnd-LastModified: 1662622707903

Build-Jdk-Spec: 11

Bundle-Description: Java Concurrency Tools Core Library

Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt

Bundle-ManifestVersion: 2

Bundle-Name: Java Concurrency Tools Core Library

Bundle-SymbolicName: org.jctools.core

Bundle-Version: 4.0.1

Created-By: Apache Maven Bundle Plugin 5.1.6

Export-Package: org.jctools.maps;version="4.0.1",org.jctools.util;uses :="sun.misc";version="4.0.1",org.jctools.queues;version="4.0.1",org.jctools.queues.atomic;uses:="org.jctools.queues";version="4.0.1",org.jctools.queues.unpadded;uses:="org.jctools.queues";version="4.0.1",org.jctools.queues";version="4.0.1",org.jctools.queues";version="4.0.1",org.jctools.queues";version="4.0.1",org.jctools.queues";version="4.0.1",org.jctools.queues";version="4.0.1",org.jctools.queues]

.jctools.counters;version="4.0.1"

Import-Package: sun.misc;resolution:=optional

Require-Capability: osgi.ee; filter:="(&(osgi.ee=JavaSE)(version=1.6))"

Tool: Bnd-6.2.0.202202251641

Found in path(s):

*/opt/cola/permits/1532380834_1673637846.4237232/0/jctools-core-4-0-1-1-jar/META-INF/MANIFEST.MF

1.26 error_prone_annotations 2.18.0

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* /opt/cola/permits/1561114197_1676017124.4546986/0/error-prone-annotations-2-18-0-jar/META-INF/maven/com.google.errorprone/error_prone_annotations/pom.xml

1.27 gson 2.10.1

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Manifest-Version: 1.0

Created-By: 11.0.16.1 (Azul Systems, Inc.)

Build-Jdk-Spec: 11

Bnd-LastModified: 1673019830620

Bundle-ContactAddress: https://github.com/google/gson

Bundle-Description: Gson JSON library

Bundle-Developers: google;organization=Google;organizationUrl="https://w

ww.google.com"

Bundle-DocURL: https://github.com/google/gson/gson

Bundle-License: "Apache-2.0";link="https://www.apache.org/licenses/LICEN

SE-2.0.txt"

Bundle-ManifestVersion: 2

Bundle-Name: Gson

Bundle-RequiredExecutionEnvironment: JavaSE-1.7, JavaSE-1.8

Bundle-SCM: url="https://github.com/google/gson/gson/",connection="scm:g it:https://github.com/google/gson.git/gson",developer-connection="scm:g it:git@github.com:google/gson.git/gson",tag="gson-parent-2.10.1"

Bundle-SymbolicName: com.google.gson Bundle-Vendor: Google Gson Project

Bundle-Version: 2.10.1

Export-Package: com.google.gson;uses:="com.google.gson.reflect,com.google.gson.stream";version="2.10.1",com.google.gson.annotations;version="2.10.1",com.google.gson.stream;version="2.10.1",com.google.gson.stream;version="2.10.1"

Import-Package: sun.misc; resolution:= optional, com.google.gson.annotation

Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.7))"

Tool: Bnd-6.4.0.202211291949

Multi-Release: true

Found in path(s):

* /opt/cola/permits/1570533427_1676891842.8285189/0/gson-2-10-1-jar/META-INF/MANIFEST.MF

1.28 commons-fileupload 1.5

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1.29 bridgeutils 1.7.1-r2

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1.30 okhttp 4.11.0

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/**

* A Base64 encoder/decoder.
```

* ~n>

*

* This class is used to encode and decode data in Base64 format as described in RFC 1521.

```
* 
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Found in path(s):
*/opt/cola/permits/1781959558 1693363168.8337896/0/snakeyaml-2-2-sources-
jar/org/yaml/snakeyaml/external/biz/base64Coder/Base64Coder.java
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Found in path(s):
*/opt/cola/permits/1781959558 1693363168.8337896/0/snakeyaml-2-2-sources-
jar/org/yaml/snakeyaml/external/com/google/gdata/util/common/base/UnicodeEscaper.java
*/opt/cola/permits/1781959558 1693363168.8337896/0/snakeyaml-2-2-sources-
jar/org/yaml/snakeyaml/external/com/google/gdata/util/common/base/Escaper.java
*/opt/cola/permits/1781959558 1693363168.8337896/0/snakeyaml-2-2-sources-
jar/org/yaml/snakeyaml/external/com/google/gdata/util/common/base/PercentEscaper.java
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Found in path(s):
* /opt/cola/permits/1781959558_1693363168.8337896/0/snakeyaml-2-2-sources-
jar/org/yaml/snakeyaml/error/Mark.java
*/opt/cola/permits/1781959558_1693363168.8337896/0/snakeyaml-2-2-sources-
jar/org/yaml/snakeyaml/resolver/Resolver.java
*/opt/cola/permits/1781959558 1693363168.8337896/0/snakeyaml-2-2-sources-
jar/org/yaml/snakeyaml/constructor/CustomClassLoaderConstructor.java
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jar/org/yaml/snakeyaml/error/MarkedYAMLException.java
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jar/org/yaml/snakeyaml/scanner/ScannerImpl.java
*/opt/cola/permits/1781959558_1693363168.8337896/0/snakeyaml-2-2-sources-
jar/org/yaml/snakeyaml/representer/SafeRepresenter.java
*/opt/cola/permits/1781959558_1693363168.8337896/0/snakeyaml-2-2-sources-
jar/org/yaml/snakeyaml/nodes/Node.java
*/opt/cola/permits/1781959558 1693363168.8337896/0/snakeyaml-2-2-sources-
jar/org/yaml/snakeyaml/serializer/SerializerException.java
*/opt/cola/permits/1781959558_1693363168.8337896/0/snakeyaml-2-2-sources-
jar/org/yaml/snakeyaml/inspector/TagInspector.java
*/opt/cola/permits/1781959558_1693363168.8337896/0/snakeyaml-2-2-sources-
jar/org/yaml/snakeyaml/error/YAMLException.java
*/opt/cola/permits/1781959558 1693363168.8337896/0/snakeyaml-2-2-sources-
jar/org/yaml/snakeyaml/events/Event.java
opt/cola/permits/1781959558_1693363168.8337896/0/snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/Yaml.java
* /opt/cola/permits/1781959558_1693363168.8337896/0/snakeyaml-2-2-sources-
jar/org/yaml/snakeyaml/events/DocumentEndEvent.java
* /opt/cola/permits/1781959558_1693363168.8337896/0/snakeyaml-2-2-sources-
jar/org/yaml/snakeyaml/inspector/UnTrustedTagInspector.java
*/opt/cola/permits/1781959558_1693363168.8337896/0/snakeyaml-2-2-sources-
jar/org/yaml/snakeyaml/events/SequenceStartEvent.java
*/opt/cola/permits/1781959558_1693363168.8337896/0/snakeyaml-2-2-sources-
jar/org/yaml/snakeyaml/serializer/NumberAnchorGenerator.java
* /opt/cola/permits/1781959558_1693363168.8337896/0/snakeyaml-2-2-sources-
jar/org/yaml/snakeyaml/nodes/CollectionNode.java
* /opt/cola/permits/1781959558_1693363168.8337896/0/snakeyaml-2-2-sources-
jar/org/yaml/snakeyaml/constructor/BaseConstructor.java
* /opt/cola/permits/1781959558_1693363168.8337896/0/snakeyaml-2-2-sources-
jar/org/yaml/snakeyaml/emitter/EmitterState.java
/opt/cola/permits/1781959558_1693363168.8337896/0/snakeyaml-2-2-sources-
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* /opt/cola/permits/1781959558_1693363168.8337896/0/snakeyaml-2-2-sources-

jar/org/yaml/snakeyaml/tokens/FlowSequenceStartToken.java

jar/org/yaml/snakeyaml/comments/CommentEventsCollector.java

- $*/opt/cola/permits/1781959558_1693363168.8337896/0/snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/util/ArrayUtils.java$
- * /opt/cola/permits/1781959558_1693363168.8337896/0/snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/composer/ComposerException.java
- $*/opt/cola/permits/1781959558_1693363168.8337896/0/snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/comments/CommentType.java$
- * /opt/cola/permits/1781959558_1693363168.8337896/0/snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/nodes/SequenceNode.java
- $*/opt/cola/permits/1781959558_1693363168.8337896/0/snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/parser/VersionTagsTuple.java$
- $*/opt/cola/permits/1781959558_1693363168.8337896/0/snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/ValueToken.java$

 $/opt/cola/permits/1781959558_1693363168.8337896/0/snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/nodes/NodeTuple.java$

- * /opt/cola/permits/1781959558_1693363168.8337896/0/snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/util/ArrayStack.java
- $*/opt/cola/permits/1781959558_1693363168.8337896/0/snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/reader/StreamReader.java$
- * /opt/cola/permits/1781959558_1693363168.8337896/0/snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/composer/Composer.java
- * /opt/cola/permits/1781959558_1693363168.8337896/0/snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/emitter/ScalarAnalysis.java
- $*/opt/cola/permits/1781959558_1693363168.8337896/0/snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/internal/Logger.java$
- $*/opt/cola/permits/1781959558_1693363168.8337896/0/snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/FlowMappingStartToken.java$
- $*/opt/cola/permits/1781959558_1693363168.8337896/0/snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/events/NodeEvent.java$

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- $*/opt/cola/permits/1781959558_1693363168.8337896/0/snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/DocumentEndToken.java$
- * /opt/cola/permits/1781959558_1693363168.8337896/0/snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/util/EnumUtils.java
- $*/opt/cola/permits/1781959558_1693363168.8337896/0/snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/parser/ParserImpl.java$
- $*/opt/cola/permits/1781959558_1693363168.8337896/0/snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/emitter/Emitter.java$
- $*/opt/cola/permits/1781959558_1693363168.8337896/0/snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/events/CollectionEndEvent.java$
- * /opt/cola/permits/1781959558_1693363168.8337896/0/snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/introspector/PropertySubstitute.java
- * /opt/cola/permits/1781959558_1693363168.8337896/0/snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/introspector/Property.java

*

/opt/cola/permits/1781959558_1693363168.8337896/0/snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/nodes/ScalarNode.java

- $*/opt/cola/permits/1781959558_1693363168.8337896/0/snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/TagTuple.java$
- $*/opt/cola/permits/1781959558_1693363168.8337896/0/snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/serializer/Serializer.java$
- $*/opt/cola/permits/1781959558_1693363168.8337896/0/snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/constructor/SafeConstructor.java$
- $*/opt/cola/permits/1781959558_1693363168.8337896/0/snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/events/StreamStartEvent.java$
- * /opt/cola/permits/1781959558_1693363168.8337896/0/snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/representer/BaseRepresenter.java
- $*/opt/cola/permits/1781959558_1693363168.8337896/0/snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/BlockEntryToken.java$
- $*/opt/cola/permits/1781959558_1693363168.8337896/0/snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/CommentToken.java$

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- $*/opt/cola/permits/1781959558_1693363168.8337896/0/snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/events/SequenceEndEvent.java$
- $*/opt/cola/permits/1781959558_1693363168.8337896/0/snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/scanner/ScannerException.java$
- $*/opt/cola/permits/1781959558_1693363168.8337896/0/snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/emitter/Emitable.java$
- $*/opt/cola/permits/1781959558_1693363168.8337896/0/snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/events/AliasEvent.java$
- $*/opt/cola/permits/1781959558_1693363168.8337896/0/snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/DirectiveToken.java$
- * /opt/cola/permits/1781959558_1693363168.8337896/0/snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/events/DocumentStartEvent.java
- $*/opt/cola/permits/1781959558_1693363168.8337896/0/snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/events/CollectionStartEvent.java$

 $/opt/cola/permits/1781959558_1693363168.8337896/0/snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/AliasToken.java$

- $*/opt/cola/permits/1781959558_1693363168.8337896/0/snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/emitter/EmitterException.java$
- * /opt/cola/permits/1781959558_1693363168.8337896/0/snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/env/EnvScalarConstructor.java
- */opt/cola/permits/1781959558_1693363168.8337896/0/snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/introspector/GenericProperty.java
- $*/opt/cola/permits/1781959558_1693363168.8337896/0/snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/AnchorToken.java$
- $*/opt/cola/permits/1781959558_1693363168.8337896/0/snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/util/PlatformFeatureDetector.java$
- $*/opt/cola/permits/1781959558_1693363168.8337896/0/snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/nodes/NodeId.java$

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* /opt/cola/permits/1781959558_1693363168.8337896/0/snakeyaml-2-2-sources-
jar/org/yaml/snakeyaml/tokens/DocumentStartToken.java
/opt/cola/permits/1781959558 1693363168.8337896/0/snakeyaml-2-2-sources-
jar/org/yaml/snakeyaml/tokens/BlockMappingStartToken.java
*/opt/cola/permits/1781959558_1693363168.8337896/0/snakeyaml-2-2-sources-
jar/org/yaml/snakeyaml/introspector/BeanAccess.java
*/opt/cola/permits/1781959558_1693363168.8337896/0/snakeyaml-2-2-sources-
jar/org/yaml/snakeyaml/tokens/StreamStartToken.java
*/opt/cola/permits/1781959558 1693363168.8337896/0/snakeyaml-2-2-sources-
jar/org/yaml/snakeyaml/parser/Production.java
*/opt/cola/permits/1781959558_1693363168.8337896/0/snakeyaml-2-2-sources-
jar/org/yaml/snakeyaml/parser/ParserException.java
*/opt/cola/permits/1781959558_1693363168.8337896/0/snakeyaml-2-2-sources-
jar/org/yaml/snakeyaml/nodes/AnchorNode.java
*/opt/cola/permits/1781959558_1693363168.8337896/0/snakeyaml-2-2-sources-
jar/org/yaml/snakeyaml/tokens/FlowSequenceEndToken.java
*/opt/cola/permits/1781959558 1693363168.8337896/0/snakeyaml-2-2-sources-
jar/org/yaml/snakeyaml/scanner/Constant.java
/opt/cola/permits/1781959558 1693363168.8337896/0/snakeyaml-2-2-sources-
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*/opt/cola/permits/1781959558_1693363168.8337896/0/snakeyaml-2-2-sources-
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*/opt/cola/permits/1781959558_1693363168.8337896/0/snakeyaml-2-2-sources-
jar/org/yaml/snakeyaml/comments/CommentLine.java
*/opt/cola/permits/1781959558 1693363168.8337896/0/snakeyaml-2-2-sources-
jar/org/yaml/snakeyaml/events/CommentEvent.java
*/opt/cola/permits/1781959558 1693363168.8337896/0/snakeyaml-2-2-sources-
jar/org/yaml/snakeyaml/constructor/Construct.java
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jar/org/yaml/snakeyaml/events/ImplicitTuple.java
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* /opt/cola/permits/1781959558_1693363168.8337896/0/snakeyaml-2-2-sources-
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* /opt/cola/permits/1781959558_1693363168.8337896/0/snakeyaml-2-2-sources-
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- jar/org/yaml/snakeyaml/events/StreamEndEvent.java
- * /opt/cola/permits/1781959558_1693363168.8337896/0/snakeyaml-2-2-sourcesjar/org/yaml/snakeyaml/extensions/compactnotation/PackageCompactConstructor.java
- */opt/cola/permits/1781959558_1693363168.8337896/0/snakeyaml-2-2-sourcesjar/org/yaml/snakeyaml/constructor/AbstractConstruct.java
- * /opt/cola/permits/1781959558_1693363168.8337896/0/snakeyaml-2-2-sources-

jar/org/yaml/snakeyaml/constructor/Constructor.java

- $*/opt/cola/permits/1781959558_1693363168.8337896/0/snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/introspector/PropertyUtils.java$
- $*/opt/cola/permits/1781959558_1693363168.8337896/0/snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/DumperOptions.java$

*

/opt/cola/permits/1781959558_1693363168.8337896/0/snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/introspector/MissingProperty.java

- * /opt/cola/permits/1781959558_1693363168.8337896/0/snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/nodes/MappingNode.java
- $*/opt/cola/permits/1781959558_1693363168.8337896/0/snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/FlowEntryToken.java$
- $*/opt/cola/permits/1781959558_1693363168.8337896/0/snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/TagToken.java$
- $*/opt/cola/permits/1781959558_1693363168.8337896/0/snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/parser/Parser.java$
- $*/opt/cola/permits/1781959558_1693363168.8337896/0/snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/events/MappingEndEvent.java$
- $*/opt/cola/permits/1781959558_1693363168.8337896/0/snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/constructor/ConstructorException.java$
- * /opt/cola/permits/1781959558_1693363168.8337896/0/snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/extensions/compactnotation/CompactConstructor.java

 $/opt/cola/permits/1781959558_1693363168.8337896/0/snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/extensions/compactnotation/CompactData.java$

- $*/opt/cola/permits/1781959558_1693363168.8337896/0/snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/reader/UnicodeReader.java$
- $*/opt/cola/permits/1781959558_1693363168.8337896/0/snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/representer/Representer.java$
- */opt/cola/permits/1781959558_1693363168.8337896/0/snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/util/UriEncoder.java
- $*/opt/cola/permits/1781959558_1693363168.8337896/0/snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/KeyToken.java$
- * /opt/cola/permits/1781959558_1693363168.8337896/0/snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/events/MappingStartEvent.java
- * /opt/cola/permits/1781959558_1693363168.8337896/0/snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/TypeDescription.java
- $*/opt/cola/permits/1781959558_1693363168.8337896/0/snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/LoaderOptions.java$

*

/opt/cola/permits/1781959558_1693363168.8337896/0/snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/introspector/MethodProperty.java

- $*/opt/cola/permits/1781959558_1693363168.8337896/0/snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/BlockEndToken.java$
- $*/opt/cola/permits/1781959558_1693363168.8337896/0/snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/resolver/ResolverTuple.java$
- $*/opt/cola/permits/1781959558_1693363168.8337896/0/snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/BlockSequenceStartToken.java$

- * /opt/cola/permits/1781959558_1693363168.8337896/0/snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/serializer/AnchorGenerator.java
- * /opt/cola/permits/1781959558_1693363168.8337896/0/snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/introspector/FieldProperty.java
- $*/opt/cola/permits/1781959558_1693363168.8337896/0/snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/FlowMappingEndToken.java$
- $*/opt/cola/permits/1781959558_1693363168.8337896/0/snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/Token.java$

/opt/cola/permits/1781959558_1693363168.8337896/0/snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/constructor/DuplicateKeyException.java

* /opt/cola/permits/1781959558_1693363168.8337896/0/snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/scanner/SimpleKey.java

1.34 j2objc-annotations 2.8

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- $*/opt/cola/permits/1790784188_1694441847.7570086/0/j2objc-annotations-2-8-sources-2-jar/com/google/j2objc/annotations/ReflectionSupport.java$
- */opt/cola/permits/1790784188_1694441847.7570086/0/j2objc-annotations-2-8-sources-2-jar/com/google/j2objc/annotations/J2ObjCIncompatible.java
- $*/opt/cola/permits/1790784188_1694441847.7570086/0/j2objc-annotations-2-8-sources-2-jar/com/google/j2objc/annotations/RetainedWith.java$

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 $/opt/cola/permits/1790784188_1694441847.7570086/0/j2objc-annotations-2-8-sources-2-jar/com/google/j2objc/annotations/WeakOuter.java$

- $*/opt/cola/permits/1790784188_1694441847.7570086/0/j2objc-annotations-2-8-sources-2-jar/com/google/j2objc/annotations/ObjectiveCName.java$
- $*/opt/cola/permits/1790784188_1694441847.7570086/0/j2objc-annotations-2-8-sources-2-jar/com/google/j2objc/annotations/Property.java$

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- */opt/cola/permits/1790784188_1694441847.7570086/0/j2objc-annotations-2-8-sources-2-jar/com/google/j2objc/annotations/OnDealloc.java
- * /opt/cola/permits/1790784188_1694441847.7570086/0/j2objc-annotations-2-8-sources-2-jar/com/google/j2objc/annotations/RetainedLocalRef.java

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- $*/opt/cola/permits/1790784188_1694441847.7570086/0/j2objc-annotations-2-8-sources-2-jar/com/google/j2objc/annotations/Weak.java$
- * /opt/cola/permits/1790784188_1694441847.7570086/0/j2objc-annotations-2-8-sources-2-jar/com/google/j2objc/annotations/AutoreleasePool.java

1.35 animal-sniffer-annotation 1.23

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1.36 kotlin 1.9.10

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1.37 okio 3.6.0

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jar/commonMain/okio/internal/RealBufferedSource.kt
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jar/commonMain/okio/internal/SegmentedByteString.kt
*/opt/cola/permits/1825538429 1697657800.9267037/0/okio-3-6-0-sources-
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*/opt/cola/permits/1825538429_1697657800.9267037/0/okio-3-6-0-sources-
jar/nonAppleMain/okio/SegmentedByteString.kt
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jar/hashFunctions/okio/internal/Sha512.kt
*/opt/cola/permits/1825538429 1697657800.9267037/0/okio-3-6-0-sources-jar/hashFunctions/okio/internal/Md5.kt
* /opt/cola/permits/1825538429_1697657800.9267037/0/okio-3-6-0-sources-
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/opt/cola/permits/1825538429_1697657800.9267037/0/okio-3-6-0-sources-
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jar/unixMain/okio/UnixPosixVariant.kt
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jar/linuxMain/okio/LinuxPosixVariant.kt
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jar/commonMain/okio/internal/FileSystem.kt

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- $*/opt/cola/permits/1825538429_1697657800.9267037/0/okio-3-6-0-sources-jar/unixMain/okio/UnixFileHandle.kt$

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jar/nonJvmMain/okio/RealBufferedSource.kt

 $*/opt/cola/permits/1825538429_1697657800.9267037/0/okio-3-6-0-sources-jar/commonMain/okio/Segment.kt$

 $*/opt/cola/permits/1825538429_1697657800.9267037/0/okio-3-6-0-sources-jar/commonMain/okio/SegmentPool.kt$

jar/commonMain/okio/ForwardingSource.kt

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1.38 guava 32.1.3-jre

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1.39 zt 1.16

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Found in path(s):
*/opt/cola/permits/1886919998 1705485810.177811/0/zt-zip-1-16-sources-
jar/org/zeroturnaround/zip/timestamps/TimestampStrategy.java
*/opt/cola/permits/1886919998 1705485810.177811/0/zt-zip-1-16-sources-jar/org/zeroturnaround/zip/Zips.java
*/opt/cola/permits/1886919998 1705485810.177811/0/zt-zip-1-16-sources-
jar/org/zeroturnaround/zip/timestamps/Java8TimestampStrategy.java
/opt/cola/permits/1886919998 1705485810.177811/0/zt-zip-1-16-sources-
jar/org/zeroturnaround/zip/timestamps/PreJava8TimestampStrategy.java
* /opt/cola/permits/1886919998_1705485810.177811/0/zt-zip-1-16-sources-
jar/org/zeroturnaround/zip/ZipEntryUtil.java
*/opt/cola/permits/1886919998 1705485810.177811/0/zt-zip-1-16-sources-
jar/org/zeroturnaround/zip/IdentityNameMapper.java
* /opt/cola/permits/1886919998_1705485810.177811/0/zt-zip-1-16-sources-
jar/org/zeroturnaround/zip/FileSource.java
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* /opt/cola/permits/1886919998_1705485810.177811/0/zt-zip-1-16-sources-
jar/org/zeroturnaround/zip/ZipEntrySource.java
* /opt/cola/permits/1886919998_1705485810.177811/0/zt-zip-1-16-sources-
jar/org/zeroturnaround/zip/ByteSource.java
* /opt/cola/permits/1886919998_1705485810.177811/0/zt-zip-1-16-sources-
jar/org/zeroturnaround/zip/ZipInfoCallback.java
/opt/cola/permits/1886919998_1705485810.177811/0/zt-zip-1-16-sources-jar/org/zeroturnaround/zip/ZipUtil.java
```

* /opt/cola/permits/1886919998_1705485810.177811/0/zt-zip-1-16-sources-

```
jar/org/zeroturnaround/zip/ZTFileUtil.java
*/opt/cola/permits/1886919998 1705485810.177811/0/zt-zip-1-16-sources-
jar/org/zeroturnaround/zip/timestamps/TimestampStrategyFactory.java
* /opt/cola/permits/1886919998_1705485810.177811/0/zt-zip-1-16-sources-
jar/org/zeroturnaround/zip/ZipEntryCallback.java
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*/
Found in path(s):
*/opt/cola/permits/1886919998 1705485810.177811/0/zt-zip-1-16-sources-
jar/org/zeroturnaround/zip/commons/StringBuilderWriter.java
/opt/cola/permits/1886919998 1705485810.177811/0/zt-zip-1-16-sources-
jar/org/zeroturnaround/zip/commons/FilenameUtils.java
* /opt/cola/permits/1886919998_1705485810.177811/0/zt-zip-1-16-sources-
jar/org/zeroturnaround/zip/commons/FileUtilsV2 2.java
* /opt/cola/permits/1886919998_1705485810.177811/0/zt-zip-1-16-sources-
jar/org/zeroturnaround/zip/commons/FileExistsException.java
* /opt/cola/permits/1886919998_1705485810.177811/0/zt-zip-1-16-sources-
jar/org/zeroturnaround/zip/commons/IOUtils.java
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*/

Found in path(s):

 $*/opt/cola/permits/1886919998_1705485810.177811/0/zt-zip-1-16-sources-jar/org/zeroturnaround/zip/extra/ZipConstants.java$

*

 $/opt/cola/permits/1886919998_1705485810.177811/0/zt-zip-1-16-sources-jar/org/zeroturnaround/zip/extra/AsiExtraField.java$

- $*/opt/cola/permits/1886919998_1705485810.177811/0/zt-zip-1-16-sources-jar/org/zeroturnaround/zip/extra/ZipShort.java$
- $*/opt/cola/permits/1886919998_1705485810.177811/0/zt-zip-1-16-sources-jar/org/zeroturnaround/zip/extra/ZipExtraField.java$
- $*/opt/cola/permits/1886919998_1705485810.177811/0/zt-zip-1-16-sources-jar/org/zeroturnaround/zip/extra/ExtraFieldUtils.java$
- $*/opt/cola/permits/1886919998_1705485810.177811/0/zt-zip-1-16-sources-jar/org/zeroturnaround/zip/extra/UnrecognizedExtraField.java$
- $*/opt/cola/permits/1886919998_1705485810.177811/0/zt-zip-1-16-sources-jar/org/zeroturnaround/zip/extra/ZipLong.java$

1.40 gettext 0.22.5-r0

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@subheading END OF TERMS AND CONDITIONS

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@subheading How to Apply These Terms to Your New Libraries

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@smallexample

@var{one line to give the library's name and an idea of what it does.}
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@var{signature of Ty Coon}, 1 April 1990Ty Coon, President of Vice@end smallexample

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@page

@heading Appendix: How to Apply These Terms to Your New Programs

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and a brief idea of what it does.}
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Gnomovision version

69, Copyright (C) @var{year} @var{name of author}

Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.

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@end smallexample

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@example

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@var{signature of Ty Coon}, 1 April 1989Ty Coon, President of Vice@end example

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

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- the _programs_ gettext, ngettext, envsubst,
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Version 2.1, February 1999

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(For example, a function in a library to compute square roots has

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

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

@end enumerate

These requirements apply to the modified work as a whole. If identifiable sections

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@item

A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a `work that uses the Library'. Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a ``work that uses the Library' with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a ``work that uses the library''. The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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

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

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

@item

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

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@enumerate a

@item

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

@item

Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable,

and (2) will operate

properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

@item

Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

@item

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@item

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@enumerate a

@item

Accompany the combined library with a copy of the same work

based on the Library,
uncombined with any other library
facilities. This must be distributed under the terms of the
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@subheading END OF TERMS AND CONDITIONS

@page

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@end
smallexample

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@var{signature of Ty Coon}, 1 April 1990Ty Coon, President of Vice@end smallexample

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@smallexample

@var{one line to give the program's name
and a brief idea of what it does.}
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@smallexample

Gnomovision version

69, Copyright (C) @var{year} @var{name of author}

Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.

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@end smallexample

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@example

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@var{signature of Ty Coon}, 1 April 1989Ty Coon, President of Vice@end example

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

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- the _programs_ gettext, ngettext, envsubst,
- the documentation.

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Version 2.1, February 1999

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Finally,

software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General

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

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes

a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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"work that uses the

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Otherwise, if the work is a derivative of the Library, you may distribute

the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand

ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

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The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

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The

"System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

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arch="noarch"
license="GPL PerlArtistic"
cpandepends="perl-text-template perl-data-section perl-sub-install"
cpanmakedepends=" "
depends="$cpandepends"
makedepends="perl-dev $cpanmakedepends"
subpackages="$pkgname-doc"
source="http://search.cpan.org/CPAN/authors/id/R/RJ/RJBS/$_pkgreal-$pkgver.tar.gz"
_builddir="$srcdir/$_pkgreal-$pkgver"
prepare() {
cd "$ builddir"
export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}'`
PERL_MM_USE_DEFAULT=1 perl Makefile.PL INSTALLDIRS=vendor
}
build() {
cd "$_builddir"
export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}'`
make && make test
}
package() {
cd "$_builddir"
make
DESTDIR="$pkgdir" install || return 1
find "$pkgdir" \( -name perllocal.pod -o -name .packlist \) -delete
}
md5sums="0c5fd53d93818566234578b27d667b35" Software-License-0.103004.tar.gz"
# 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
build() {
    cd "$_builddir"
    ./configure --prefix=/usr || return 1
    make || return 1
}

package() {
    cd "$_builddir"
    make DESTDIR="$pkgdir" install || return 1
    rm "$pkgdir"/usr/lib/*.la
}
```

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1.49 slf4j 2.0.16

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1.50 pam 1.6.1-r1

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1.51 cracklib 2.10.2-r1

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Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990 Ty Coon, President of Vice

That's all there is to it!

EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected in released code until Nov 2009 - slow release cycle...)

Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.

[Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML

looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde= r=20

GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists =2Dmike

Re: [Cracklib-devel] cracklib license

From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18

I understand that, and you're welcome to bring it up with Alec directly and see if he wants to relicense his code as LGPL... but at this point, it was enough to just get it consistent and documented as to what it was released under. This wasn't actually a license change, just a clarification of the licensing that was already in place.=20

-- Nathan =20

Nathan Neulinger EMail: nneul@um...

UMR Information Technology Fax: (573) 341-4216 > -----Original Message-----> From: cracklib-devel-bounces@li... > [mailto:cracklib-devel-bounces@li...] On Behalf Of > Mike Frysinger > Sent: Monday, October 01, 2007 8:15 PM > To: cracklib-devel@li... > Subject: [Cracklib-devel] cracklib license > looks like 2.8.11 is out and marked as "GPL-2" ... releasing > libraries under > GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists > -mike Re: [Cracklib-devel] cracklib license From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33 Attachments: Message as HTML On Monday 01 October 2007, Neulinger, Nathan wrote: > I understand that, and you're welcome to bring it up with Alec directly > and see if he wants to relicense his code as LGPL... but at this point, > it was enough to just get it consistent and documented as to what it was > released under. This wasn't actually a license change, just a > clarification of the licensing that was already in place. the original license (before moving to sourceforge -- aka, 2.7) was not=20 GPL-2 ... it was a modified artistic license ... i didnt notice the license= =20change until it was mentioned in the latest notes. unlike the old license, GPL-2 prevents people from using cracklib unless th= applications are also GPL-2 which imo is just wrong, it isnt the place of = a = 20library to dictact to application writes what license they should be using.= =20thus LGPL-2.1 enters to fill this void. =2Dmike Re: [Cracklib-devel] cracklib license From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46

University of Missouri - Rolla Phone: (573) 341-6679

Seems like the ideal thing here would be for you and the other distro

maintainers to get together with Alec in a conversation and come to a decision as to what licensing scheme y'all want. I haven't really done much other than cleaning up the packaging and patches and a small bit of additional code, so whatever licensing y'all come up with is fine by me.

```
-- Nathan
  =20
  Nathan Neulinger EMail: nneul@um...
  University of Missouri - Rolla Phone: (573) 341-6679
  UMR Information Technology Fax: (573) 341-4216
  > ----Original Message-----
  > From: cracklib-devel-bounces@li...
  > [mailto:cracklib-devel-bounces@li...] On Behalf Of
  > Mike Frysinger
  > Sent: Monday, October 01, 2007 8:33 PM
  > To: Neulinger, Nathan
  > Cc: cracklib-devel@li...: Alec Muffett
  > Subject: Re: [Cracklib-devel] cracklib license
  >=20
  > On Monday 01 October 2007, Neulinger, Nathan wrote:
  >> I understand that, and you're welcome to bring it up with Alec
  >> and see if he wants to relicense his code as LGPL... but at this
  >> it was enough to just get it consistent and documented as to what
  > it was
  >> released under. This wasn't actually a license change, just a
  >> clarification of the licensing that was already in place.
  >=20
  > the original license (before moving to sourceforge -- aka, 2.7) was
  > GPL-2 ... it was a modified artistic license ... i didnt notice the
  > change until it was mentioned in the latest notes.
  > unlike the old license, GPL-2 prevents people from using cracklib
  > unless their
  > applications are also GPL-2 which imo is just wrong. it isnt the
  > place of a
  > library
to dictact to application writes what license they should
  > be using.
  > thus LGPL-2.1 enters to fill this void.
  > -mike
```

Re: [Cracklib-devel] cracklib license From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57 > Seems like the ideal thing here would be for you and the other distro > maintainers to get together with Alec in a conversation and come to a > decision as to what licensing scheme y'all want. I haven't really done > much other than cleaning up the packaging and patches and a small > additional code, so whatever licensing y'all come up with is fine > by me. I am sympathetic. Guys, what do you reckon? What I am hearing so far is that LGPL makes sense, since it can be linked with any code, not just GPL... -a Re: [Cracklib-devel] cracklib license From: Devin Reade <gdr@gn...> - 2007-10-02 15:04 I would like to see it under LGPL as well. I think it is in everyone's best interests to have as secure systems as possible, and I think tainting it via GPL will just make it less likely that the library gets used, and will not usually cause companies/developers to GPL the dependent code (where it is not already GPL). I like GPL, I use it when I can, but I don't think that it's the correct license in this situation. Devin If it's sinful, it's more fun. Re: [Cracklib-devel] cracklib license From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32 On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote: >> Seems like the ideal thing here would be for you and the other distro >> maintainers to get together with Alec in a conversation and come to a >> decision as to what licensing scheme y'all want. I haven't really done >> much other than cleaning up the packaging and patches and a small >> bit of >> additional code, so whatever licensing y'all come up with is fine >> by me.

> I am sympathetic. Guys, what do you reckon?

>

> What I am hearing so far is that LGPL makes sense, since it can be > linked with any code, not just GPL...

My apologies for not chiming in in anything resembling a reasonable timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately, GPLv2 with the option of using the library under a later version of the GPL would permit applications which were released under version 3 of the GPL to use the library, too, which would be sufficient for the packages which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML

On Monday 28 January 2008, Nalin Dahyabhai wrote:

- > On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
- >>> Seems like the ideal thing here would be for you and the other distro
- >>> maintainers to get together with Alec in a conversation and come to a
- >>> decision as to what licensing scheme y'all want. I haven't really done
- >>> much other than cleaning up the packaging and patches and a small
- >>> bit of
- >>> additional code, so whatever licensing y'all come up with is fine
- >>> by me.

>>

>> I am sympathetic. Guys, what do you reckon?

>>

- >> What I am hearing so far is that LGPL makes sense, since it can be
- >> linked with any code, not just GPL...

>

- > My apologies for not chiming in in anything resembling a reasonable > timeframe.
- >
- > I'd also suggest the LGPL, for the reason you noted above. Alternately,
- > GPLv2 with the option of using

the library under a later version of the

- > GPL would permit applications which were released under version 3 of the
- > GPL to use the library, too, which would be sufficient for the packages

```
> which are included in Fedora. FWIW, I'd personally lean toward LGPL.
   > In any case, I thank you both for working on sorting this out.
   looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
   the change now?
   -mike
   Re: [Cracklib-devel] cracklib license
   From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18
   >> In any case, I thank you both for working on sorting this out.
   >
   > looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
   > the change now?
   yes. go for it. thanks++
   -a
   Re: [Cracklib-devel] cracklib license
   From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34
   Attachments: Message as HTML
   On Sunday 05 October
2008, Alec Muffett wrote:
   >>> In any case, I thank you both for working on sorting this out.
   >> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we
   >> make the change now?
  > yes. go for it. thanks++
   Nathan Neulinger is the only one who can actually make said change ...
   -mike
BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.
CrackLib was originally licensed with a variant of the Artistic license. In the
```

interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed

as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address that was used at the time. For any future emails regarding this, please use nneul@neulinger.org.

From

alecm@crypticide.com Mon Oct 1 12:26:03 2007

Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);

Mon, 1 Oct 2007 12:26:03 -0500

Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);

Mon, 1 Oct 2007 12:26:02 -0500

Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000

Received: from smtp1.srv.mst.edu (131.151.1.43)

by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000

Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])

by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id 191Gxtpr020623

for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500

Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])

by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311

for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)

Received: from

[82.68.43.14] (helo=[192.168.1.3])

by rutherford.zen.co.uk with esmtp (Exim 4.50)

id 1IcOcX-0004Qt-6L

for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000

Mime-Version: 1.0 (Apple Message framework v752.2)

In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>

References: <1190922867.3457.147.camel@localhost.localdomain>

<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>

<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>

Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed

Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFEBE6E9F@crypticide.com>

Content-Transfer-Encoding: 7bit

From: Alec Muffett <alecm@crypticide.com>

Subject: Re: cracklib license

Date: Mon, 1 Oct 2007 17:59:46 +0100

To: Nathan Neulinger <nneul@neulinger.org>

X-Mailer: Apple Mail (2.752.2)

X-Originating-Rutherford-IP: [82.68.43.14]

Return-Path: alecm@crypticide.com

X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]

```
Status: RO
Content-Length:
585
Lines: 21
> ----- Forwarded message -----
> From: Neulinger, Nathan < nneul@umr.edu>
> Date: Sep 27, 2007 2:58 PM
> Subject: RE: cracklib license
> To: alecm@crypto.dircon.co.uk
> Any chance you could write me a self-contained email stating clearly
> that the license is being changed to GPL, so I could include that
> email
> in the repository and clean up the repository/tarballs? I have all the
> original discussion, but something succinct and self contained
> would be
> ideal.
The license for my code in the Cracklib distribution is henceforth GPL.
Happy now?:-)
-a
```

1.52 libpwquality 1.4.5-r4

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pkgdesc="packages that provide templated software licenses"
url="http://search.cpan.org/dist/Software-License/"
arch="noarch"
license="GPL PerlArtistic"
cpandepends="perl-text-template perl-data-section perl-sub-install"
cpanmakedepends=" "
depends="$cpandepends"
makedepends="perl-dev $cpanmakedepends"
subpackages="$pkgname-doc"
source="http://search.cpan.org/CPAN/authors/id/R/RJ/RJBS/$_pkgreal-$pkgver.tar.gz"
_builddir="$srcdir/$_pkgreal-$pkgver"
prepare() {
cd "$_builddir"
export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}'`
PERL_MM_USE_DEFAULT=1 perl Makefile.PL INSTALLDIRS=vendor
build() {
cd "$ builddir"
export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}'`
make && make test
package() {
cd "$ builddir"
make
DESTDIR="$pkgdir" install || return 1
find "$pkgdir" \( -name perllocal.pod -o -name .packlist \) -delete
}
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build() {
 cd "$builddir"
python3 setup.py build || return 1
}
package() {
 cd "$builddir"
 python3 setup.py install --prefix=/usr --root="$pkgdir" || return 1
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sha256sums="aeef26eb4d5223c9cd5b101e68175fcef6d2b353bf36da688fdde62fccfe2b73 flake8-copyright-
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```
# Maintainer: Natanael Copa <ncopa@alpinelinux.org>
pkgname=libart-lgpl
pkgver=2.3.21
pkgrel=5
pkgdesc="A library for high-performance 2D graphics"
url="http://www.levien.com/libart/"
arch="all"
license="LGPL"
depends=
makedepends=
subpackages="$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"
# Automatically generated by apkbuild-cpan, template 1
# Contributor: Valery Kartel <valery.kartel@gmail.com>
# Maintainer: Valery Kartel <valery.kartel@gmail.com>
pkgname=perl-bsd-resource
pkgreal=BSD-Resource
pkgver=1.2909
pkgrel=1
pkgdesc="Perl extension implements the BSD process resource limit functions"
url="http://search.cpan.org/dist/BSD-Resource/"
arch="all"
license="GPL PerlArtistic"
cpandepends=""
cpanmakedepends=" "
depends="$cpandepends"
makedepends="perl-dev $cpanmakedepends"
subpackages="$pkgname-doc"
source="http://search.cpan.org/CPAN/authors/id/J/JH/JHI/$_pkgreal-$pkgver.tar.gz"
_builddir="$srcdir/$_pkgreal-$pkgver"
prepare() {
cd "$ builddir"
export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}'`
PERL_MM_USE_DEFAULT=1 perl Makefile.PL INSTALLDIRS=vendor
build() {
cd "$ builddir"
export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}'`
make && make test || return 1
package() {
cd "$_builddir"
make DESTDIR="$pkgdir" install || return 1
find "$pkgdir"
\( -name perllocal.pod -o -name .packlist \) -delete
md5sums="3c6dd2fa953088aa87e263f40818d012 BSD-Resource-1.2909.tar.gz"
sha256sums="c47d460e2bd00d8d049f6ff4a0f1f61957e289e8de45af5fc79e851e2e855e06 BSD-Resource-
1.2909.tar.gz"
85743363750157943c7f7700276cce2bd40a429fa430 BSD-Resource-1.2909.tar.gz"
```

1.56 zlib 1.3.1-r2

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1.57 commons-io 2.17.0

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1.58 protobuf-java 3.25.5

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Found in path(s):

- */opt/cola/permits/2206986858_1727943263.751567/0/protobuf-java-3-25-5-jar/google/protobuf/type.proto
- */opt/cola/permits/2206986858_1727943263.751567/0/protobuf-java-3-25-5-jar/google/protobuf/struct.proto
- $*/opt/cola/permits/2206986858_1727943263.751567/0/protobuf-java-3-25-5-jar/google/protobuf/timestamp.protobuf/protobuf/since/protobuf/timestamp.protobuf/since/protobuf/s$

*

/opt/cola/permits/2206986858_1727943263.751567/0/protobuf-java-3-25-5-jar/google/protobuf/api.proto

- */opt/cola/permits/2206986858_1727943263.751567/0/protobuf-java-3-25-5-jar/google/protobuf/empty.proto
- * /opt/cola/permits/2206986858_1727943263.751567/0/protobuf-java-3-25-5-

jar/google/protobuf/source_context.proto

- * /opt/cola/permits/2206986858_1727943263.751567/0/protobuf-java-3-25-5-jar/google/protobuf/wrappers.proto
- */opt/cola/permits/2206986858_1727943263.751567/0/protobuf-java-3-25-5-jar/google/protobuf/duration.proto
- */opt/cola/permits/2206986858 1727943263.751567/0/protobuf-java-3-25-5-jar/google/protobuf/field mask.proto
- */opt/cola/permits/2206986858_1727943263.751567/0/protobuf-java-3-25-5-jar/google/protobuf/any.proto
- * /opt/cola/permits/2206986858_1727943263.751567/0/protobuf-java-3-25-5-jar/google/protobuf/descriptor.proto No license file was found, but licenses were detected in source scan.

Manifest-Version: 1.0 Created-By: mergejars

Automatic-Module-Name: com.google.protobuf

Bnd-LastModified: 1726689439980

Bundle-Description: Core Protocol Buffers library. Protocol Buffers are a way of encoding structured data in an efficient yet extensible format

.

Bundle-DocURL: https://developers.google.com/protocol-buffers/Bundle-License: https://opensource.org/licenses/BSD-3-Clause

Bundle-ManifestVersion: 2

Bundle-Name: Protocol Buffers [Core] Bundle-SymbolicName: com.google.protobuf

Bundle-Version: 3.25.5

Export-Package: com.google.protobuf; version="3.25.5", com.google.protobuf

.compiler;version="3.25.5";uses:="com.google.protobuf"

Import-Package: com.google.protobuf;version="[3.25,4)",sun.misc;resoluti

on:=optional

Require-Capability: osgi.ee; filter:="(&(osgi.ee=JavaSE)(version=1.8))"

Tool: Bnd-6.4.0.202211291949

Target-Label: //java/core:lite_runtime_only

Found in path(s):

 $*/opt/cola/permits/2206986858_1727943263.751567/0/protobuf-java-3-25-5-jar/META-INF/MANIFEST.MF$

1.59 pax-utils 1.3.8-r1

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```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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1.60 ca-certificates-bundle 20241010-r0

1.60.1 Available under license:

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

```
# This Source Code Form is subject to the terms of the Mozilla Public
# License, v. 2.0. If a copy of the MPL was not distributed with this
# file, You can obtain one at http://mozilla.org/MPL/2.0/.
# certdata.txt
# This file contains the object definitions for the certs and other
# information "built into" NSS.
# Object definitions:
# Certificates
# -- Attribute --
                      -- type --
                                    -- value --
# CKA_CLASS
                          CK_OBJECT_CLASS CKO_CERTIFICATE
# CKA_TOKEN
                           CK_BBOOL
                                             CK_TRUE
# CKA_PRIVATE
                            CK_BBOOL
                                              CK_FALSE
# CKA_MODIFIABLE
                              CK_BBOOL
                                                 CK_FALSE
# CKA_LABEL
                           UTF8
                                         (varies)
```

```
# CKA_CERTIFICATE_TYPE
                             CK_CERTIFICATE_TYPE CKC_X_509
# CKA SUBJECT
                       DER+base64
                                      (varies)
# CKA_ID
                    byte array
                                (varies)
CKA_ISSUER
                     DER+base64
                                    (varies)
# CKA_SERIAL_NUMBER
                            DER+base64
                                           (varies)
# CKA VALUE
                       DER+base64
                                      (varies)
# CKA_NSS_EMAIL
                         ASCII7
                                     (unused here)
# CKA_NSS_SERVER_DISTRUST_AFTER DER+base64
                                                  (varies)
# CKA_NSS_EMAIL_DISTRUST_AFTER DER+base64
                                                  (varies)
#
 Trust
# -- Attribute --
                  -- type --
                              -- value --
# CKA_CLASS
                      CK_OBJECT_CLASS CKO_TRUST
# CKA_TOKEN
                      CK_BBOOL
                                      CK_TRUE
# CKA_PRIVATE
                       CK_BBOOL
                                       CK_FALSE
# CKA MODIFIABLE
                         CK BBOOL
                                         CK FALSE
# CKA_LABEL
                      UTF8
                                  (varies)
# CKA_ISSUER
                      DER+base64
                                     (varies)
# CKA SERIAL NUMBER
                            DER+base64
                                          (varies)
# CKA_CERT_HASH
                         binary+base64
                                       (varies)
# CKA_EXPIRES
                      CK_DATE
(not used here)
# CKA_TRUST_DIGITAL_SIGNATURE CK_TRUST
                                                 (varies)
# CKA TRUST NON REPUDIATION CK TRUST
                                                (varies)
# CKA_TRUST_KEY_ENCIPHERMENT CK_TRUST
                                                 (varies)
# CKA_TRUST_DATA_ENCIPHERMENT CK_TRUST
                                                  (varies)
# CKA_TRUST_KEY_AGREEMENT
                                CK TRUST
                                                (varies)
# CKA_TRUST_KEY_CERT_SIGN
                               CK_TRUST
                                              (varies)
# CKA_TRUST_CRL_SIGN
                           CK_TRUST
                                           (varies)
# CKA_TRUST_SERVER_AUTH
                               CK_TRUST
                                              (varies)
# CKA_TRUST_CLIENT_AUTH
                              CK_TRUST
                                             (varies)
# CKA_TRUST_CODE_SIGNING
                              CK_TRUST
                                              (varies)
# CKA_TRUST_EMAIL_PROTECTION CK_TRUST
                                                 (varies)
# CKA_TRUST_IPSEC_END_SYSTEM CK_TRUST
                                                (varies)
# CKA_TRUST_IPSEC_TUNNEL
                              CK_TRUST
                                             (varies)
# CKA_TRUST_IPSEC_USER
                            CK TRUST
                                            (varies)
# CKA_TRUST_TIME_STAMPING
                              CK_TRUST
                                               (varies)
# CKA_TRUST_STEP_UP_APPROVED CK_BBOOL
                                                 (varies)
# (other
trust attributes can be defined)
# The object to tell NSS that this is a root list and we don't
# have to go looking for others.
```

```
BEGINDATA
CKA CLASS CK OBJECT CLASS CKO NSS BUILTIN ROOT LIST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA MODIFIABLE CK BBOOL CK FALSE
CKA_LABEL UTF8 "Mozilla Builtin Roots"
# Certificate "GlobalSign Root CA"
# Issuer: CN=GlobalSign Root CA,OU=Root CA,O=GlobalSign nv-sa,C=BE
# Serial Number:04:00:00:00:00:01:15:4b:5a:c3:94
# Subject: CN=GlobalSign Root CA,OU=Root CA,O=GlobalSign nv-sa,C=BE
# Not Valid Before: Tue Sep 01 12:00:00 1998
# Not Valid After: Fri Jan 28 12:00:00 2028
# Fingerprint (SHA-256):
EB:D4:10:40:E4:BB:3E:C7:42:C9:E3:81:D3:1E:F2:A4:1A:48:B6:68:5C:96:E7:CE:F3:C1:DF:6C:D4:33:1C:99
# Fingerprint (SHA1): B1:BC:96:8B:D4:F4:9D:62:2A:A8:9A:81:F2:15:01:52:A4:1D:82:9C
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA PRIVATE CK BBOOL CK FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign
 Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA SUBJECT MULTILINE OCTAL
\060\127\061\013\060\011\006\003\125\004\006\023\002\102\105\061
\label{eq:condition} $$ \031\060\027\006\003\125\004\012\023\020\107\154\157\142\141\154
\123\151\147\156\040\156\166\055\163\141\061\020\060\016\006\003
\125\004\013\023\007\122\157\157\164\040\103\101\061\033\060\031
\label{eq:condition} $$ \006\003\125\004\003\022\107\154\157\142\141\154\123\151\147 = 123\151\147 = 123\151\147 = 123\151\147 = 123\151\147 = 123\151\147 = 123\151\147 = 123\151\147 = 123\151\147 = 123\151\147 = 123\151\147 = 123\151\147 = 123\151\147 = 123\151\147 = 123\151\147 = 123\151\147 = 123\151\147 = 123\151\147 = 123\151\147 = 123\151\147 = 123\151\147 = 123\151\147 = 123\151\147 = 123\151\147 = 123\151\147 = 123\151\147 = 123\151\151 = 123\151\151 = 123\151\151 = 123\151\151 = 123\151\151 = 123\151\151 = 123\151\151 = 123\151\151 = 123\151\151 = 123\151\151 = 123\151\151 = 123\151\151 = 123\151\151 = 123\151\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 123\151 = 1
\156\040\122\157\157\164\040\103\101
END
```

CKA_ID UTF8 "0"

CKA ISSUER MULTILINE OCTAL

 $\label{eq:condition} $$ \000\127\061\013\060\011\006\003\125\004\006\023\002\102\105\061 $$ \031\060\027\006\003\125\004\012\023\020\107\154\157\142\141\154 $$ \123\151\147\156\040\156\166\055\163\141\061\020\060\016\006\003\125\004\003\022\157\157\164\040\103\101\061\033\060\031\156\040\122\157\157\164\040\103\101$$

END

${\tt CKA_SERIAL_NUMBER\ MULTILINE_OCTAL}$

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

END

CKA_VALUE MULTILINE_OCTAL

\110\206\367\015\001\001\005\005\000\060\127\061\013\060\011\006 \003\125\004\006\023\002\102\105\061\031\060\027\006\003\125\004 \012\023\020\107\154\157\142\141\154\123\151\147\156\040\156\166 \055\163\141\061\020\060\016\006\003\125\004\013\023\007\122\157 \157\164\040\103\101\061\033\060\031\006\003\125\004\003\023\022 \103\101\060\036\027\015\071\070\060\071\060\061\061\062\060\060 \060\060\132\027\015\062\070\060\061\062\070\061\062\060\060 $\label{eq:condition} $$ \060\132\060\127\061\013\060\011\006\003\125\004\006\023\002\102 $$$ \105\061\031\060\027\006\003\125\004\012\023\020\107\154\157\142 \141\154\123\151\147\156\040\156\166\055\163\141\061\020\060\016 $\label{eq:condition} $$ \006\003\125\004\013\023\007\122\157\157\164\040\103\101\061\033$ \060\031\006\003\125\004\003\023\022\107\154\157\142\141\154\123 \151\147\156\040\122\157\157\164\040\103\101\060\202\001\042\060 $\label{eq:condition} $$ \015\006\011\052\206\110\206\367\015\001\001\001\000\000\003\202 $$$ \001\017\000\060\202\001\012\002\202\001\001\000\332\016\346\231 \215\316\243\343\117\212\176\373\361\213\203\045\153\352\110\037 \361\052\260\271\225\021\004\275\360\143\321\342\147\146\317\034 \335\317\033\110\053\356\215\211\216\232\257\051\200\145\253\351 $\label{eq:condition} $$ 307 \times 5 \times 22 \times 313 \times 253 \times 114 \times 160 \times 007 \times 41 \times 075 \times 12 \times 060 \times 315 \times 2515$ \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 $\label{eq:condition} $$ \frac{325}{152}\frac{343}{262}\frac{11}{072}\frac{071}{070}\frac{157}{006}\frac{074}{210}\frac{151}{133}\frac{052}{120} $$$ \115\305\247\124\270\154\211\314\233\371\074\312\345\375\211\365 $\label{eq:condition} $$ \022\074\222\170\226\326\334\164\156\223\104\141\321\215\307\106$ \262\165\016\206\350\031\212\325\155\154\325\170\026\225\242\351 \310\012\070\353\362\044\023\117\163\124\223\023\205\072\033\274 $\label{eq:condition} $$ \036\064\265\213\005\214\271\167\213\261\333\037\040\221\253\011 $$$ \123\156\220\316\173\067\164\271\160\107\221\042\121\143\026\171 \256\261\256\101\046\010\310\031\053\321\106\252\110\326\144\052 $\label{eq:condition} $$ 327 \times 03 \cdot 064 \times 77 \cdot 054 \cdot 052 \times 01154 \cdot 031 \cdot 103 \cdot 112 \cdot 007 \cdot 205 \cdot 347 \cdot 323 \cdot 174 \cdot 052 \cdot 052$ \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:condition} $$ \024\140\173\146\032\105\015\227\312\211\120\057\175\004\315\064$$$ \250\377\374\375\113\060\015\006\011\052\206\110\206\367\015\001 $\label{eq:condition} $$ \001\005\000\003\202\001\001\000\326\163\347\174\117\166\320 $$$ \215\277\354\272\242\276\064\305\050\062\265\174\374\154\234\054 \053\275\011\236\123\277\153\136\252\021\110\266\345\010\243\263 \312\075\141\115\323\106\011\263\076\303\240\343\143\125\033\362 \272\357\255\071\341\103\271\070\243\346\057\212\046\073\357\240 \120\126\371\306\012\375\070\315\304\013\160\121\224\227\230\004 \337\303\137\224\325\025\311\024\101\234\304\135\165\144\025\015 \377\125\060\354\206\217\377\015\357\054\271\143\106\366\252\374 \337\274\151\375\056\022\110\144\232\340\225\360\246\357\051\217 \001\261\025\265\014\035\245\376\151\054\151\044\170\036\263\247 $\label{eq:condition} $$ \034\161\142\356\312\310\227\254\027\135\212\302\370\107\206\156$$ $\label{eq:control} $$ \052\304\126\061\225\320\147\211\205\053\371\154\246\135\106\235\014\252\202\344\231\121\335\160\267\333\126\075\141\344\152\341\134\326\366\376\075\336\101\314\007\256\143\122\277\123\123\364\053\351\307\375\266\367\202\137\205\322\101\030\333\201\263\004\034\305\037\244\200\157\025\040\311\336\014\210\012\035\326\146\125\342\374\110\311\051\046\151\340$

END

CKA_NSS_MOZILLA_CA_POLICY

CK_BBOOL CK_TRUE

CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "GlobalSign Root CA"

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

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

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

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

#

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

Fingerprint (SHA-256):

EB:D4:10:40:E4:BB:3E:C7:42:C9:E3:81:D3:1E:F2:A4:1A:48:B6:68:5C:96:E7:CE:F3:C1:DF:6C:D4:33:1C:99

Fingerprint (SHA1): B1:BC:96:8B:D4:F4:9D:62:2A:A8:9A:81:F2:15:01:52:A4:1D:82:9C

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA MODIFIABLE CK BBOOL CK FALSE

CKA LABEL UTF8 "GlobalSign Root CA"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL

 $\label{eq:condition} $$ \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

END

CKA_ISSUER MULTILINE_OCTAL

\060\127\061\013\060\011\006\003\125\004\006\023\002\102\105\061

 $\label{eq:condition} $$ \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

 $\label{eq:condition} $$ \frac{125\\004\\013\\023\\007\\122\\157\\157\\164\\040\\103\\101\\061\\033\\060\\031$

 $\\ \\ 006 \\ 003 \\ 125 \\ 004 \\ 003 \\ 023 \\ 022 \\ 107 \\ 154 \\ 157 \\ 142 \\ 141 \\ 154 \\ 123 \\ 151 \\ 147 \\$

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

END

CKA_SERIAL_NUMBER

MULTILINE_OCTAL

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

END

 ${\tt CKA_TRUST_SERVER_AUTH\ CK_TRUST\ CKT_NSS_TRUSTED_DELEGATOR}$

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.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
\label{eq:condition} $$ \060\201\264\061\024\060\022\006\003\125\004\012\023\013\105\156$
\164\162\165\163\164\056\156\145\164\061\100\060\076\006\003\125
\004\013\024\067\167\167\167\056\145\156\164\162\165\163\164\056
\label{eq:condition} $$ \frac{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\\071\\040\\105
\156\164\162\165\163\164\056\156\145\164\040\114\151\155\151\164
\145\144\061\063\060\061\006\003\125\004\003\023\052\105\156\164
\162\165\163\164\056\156\145\164\040\103\145\162\164\151\146\151
\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171
\040\050\062\060\064\070\051
END
CKA ID
UTF8 "0"
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

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

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

END

CKA VALUE MULTILINE OCTAL

\060\202\004\052\060\202\003\022\240\003\002\001\002\002\004\070 \143\336\370\060\015\006\011\052\206\110\206\367\015\001\001\005 $\label{eq:condition} $$ \005\000\060\201\264\061\024\060\022\006\003\125\004\012\023\013$ \105\156\164\162\165\163\164\056\156\145\164\061\100\060\076\006 $\label{eq:condition} $$ \003\125\004\013\024\067\167\167\167\056\145\156\164\162\165\163$$ $\label{eq:condition} $$ 164\056\145\164\057\103\120\123\137\062\060\064\070\040\151 $$$ \156\143\157\162\160\056\040\142\171\040\162\145\146\056\040\050 \154\151\155\151\164\163\040\154\151\141\142\056\051\061\045\060 \043\006\003\125\004\013\023\034\050\143\051\040\061\071\071\071 \040\105\156\164\162\165\163\164\056\156\145\164\040\114\151\155 \151\164\145\144\061\063\060\061\006\003\125\004\003\023\052\105 \156\164\162\165\163\164\056\156\145\164\040\103\145\162\164\151 \146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151 $\label{eq:condition} $$ 164\171\040\050\062\060\064\070\051\060\036\027\015\071\071\061 $$$ \062\062\064\061\067\065\060\065\061\132\027\015\062\071\060\067 \062\064\061\064\061\065\061\062\132\060\201\264\061\024\060\022 \006\003\125\004\012\023\013\105\156\164\162\165\163\164\056\156 \145\164\061\100\060\076\006\003\125\004\013\024\067\167\167\167 \056\145\156\164\162\165\163\164\056\156\145\164\057\103\120\123 \137\062\060\064\070\040\151\156\143\157\162\160\056\040\142\171 \040\162\145\146\056\040\050\154\151\155\151\164\163\040\154\151 \141\142\056\051\061\045\060\043\006\003\125\004\013\023\034\050 \143\051\040\061\071\071\071\040\105\156\164\162\165\163\164\056 \156\145\164\040\114\151\155\151\164\145\144\061\063\060\061\006 \003\125\004\003\023\052\105\156\164\162\165\163\164\056\156\145 \164\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040 \101\165\164\150\157\162\151\164\171\040\050\062\060\064\070\051 \060\202\001\042\060\015\006\011\052\206\110\206\367\015\001\001 $\label{eq:condition} $$ \001\005\000\003\202\001\017\000\060\202\001\012\002\202\001\001$ $\label{eq:condition} $$ \000\255\115\113\251\022\206\262\352\243\040\007\025\026\144\052$ $\label{eq:condition} $$ \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 $\verb|235|125|315|344|303|176|327|152|144|253|205|024|206|225|133|227|$ \062\120\157\075\310\272\146\014\343\374\275\270\111\301\166\211 \111\031\375\300\250\275\211\243\147\057\306\237\274\161\031\140 \270\055\351\054\311\220\166\146\173\224\342\257\170\326\145\123

\135\074\326\234\262\317\051\003\371\057\244\120\262\324\110\316 \005\062\125\212\375\262\144\114\016\344\230\007\165\333\177\337 \271\010\125\140\205\060\051\371\173\110\244\151\206\343\065\077 $\label{eq:condition} $$ \036\206\135\172\172\025\275\357\000\216\025\042\124\027\000\220$ $\\ \\ \langle 046 \rangle 223 \rangle 274 \\ \langle 016 \rangle 111 \\ \\ 150 \rangle 221 \\ \langle 277 \rangle 370 \\ \\ \langle 107 \rangle 323 \\ \langle 235 \rangle 225 \\ \langle 102 \rangle 301 \\ \langle 016 \rangle 111 \\ \\ \langle 116 \rangle 111 \\$ \115\337\157\046\317\303\030\041\142\146\103\160\326\325\300\007 \341\002\003\001\000\001\243\102\060\100\060\016\006\003\125\035 $\label{eq:condition} $$ \017\001\001\377\004\004\003\002\001\006\060\017\006\003\125\035$$ $\label{eq:condition} $$ \023\001\001\377\004\005\060\003\001\001\377\060\035\006\003\125$$ \035\016\004\026\004\024\125\344\201\321\021\200\276\330\211\271 $\label{eq:condition} $$ \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 $\label{eq:condition} $$ \220\373\006\037\312\063\174\106\143\217\226\146\044\372\100\033$ $\\ \\ 041\\ 047\\ 312\\ 346\\ 162\\ 163\\ 362\\ 117\\ 376\\ 061\\ 231\\ 375\\ 310\\ 014\\ 114\\ 150$ \123\306\200\202\023\230\372\266\255\332\135\075\361\316\156\366 $\label{eq:condition} $$ \025\021\224\202\014\356\077\225\257\021\253\017\327\057\336\037 $$$ \003\217\127\054\036\311\273\232\032\104\225\353\030\117\246\037 \315\175\127\020\057\233\004\011\132\204\265\156\330\035\072\341 \326\236\321\154\171\136\171\034\024\305\343\320\114\223\073\145 \074\355\337\075\276\246\345\225\032\303\265\031\303\275\136\133 \273\377\043\357\150\031\313\022\223\047\134\003\055\157\060\320 $\label{eq:condition} $$ \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 CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

```
# Trust for "Entrust.net Premium 2048 Secure Server CA"
```

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

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

Serial Number: 946069240 (0x3863def8)

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

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

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

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

Fingerprint (SHA-256):

6D:C4:71:72:E0:1C:BC:B0:BF:62:58:0D:89:5F:E2:B8:AC:9A:D4:F8:73:80:1E:0C:10:B9:C8:37:D2:1E:B1:77

Fingerprint (SHA1): 50:30:06:09:1D:97:D4:F5:AE:39:F7:CB:E7:92:7D:7D:65:2D:34:31

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

CKA_TOKEN CK_BBOOL CK_TRUE

```
CKA PRIVATE CK BBOOL CK FALSE
CKA MODIFIABLE CK BBOOL CK FALSE
CKA_LABEL UTF8 "Entrust.net Premium 2048 Secure Server CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\label{eq:condition} $$ \frac{120\\060\\006\\011\\035\\227\\324\\365\\256\\071\\367\\313\\347\\222\\175\\175
\145\055\064\061
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\356\051\061\274\062\176\232\346\350\265\367\121\264\064\161\220
END
CKA ISSUER MULTILINE OCTAL
\label{eq:condition} $$ \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
\label{eq:condition} $$ \004\013\024\067\167\167\167\056\145\156\164\162\165\163\164\056$
\label{eq:condition} $$ \frac{156}145 \cdot 164 \cdot 057 \cdot 103 \cdot 120 \cdot 123 \cdot 137 \cdot 062 \cdot 060 \cdot 064 \cdot 070 \cdot 040 \cdot 151 \cdot 156 \cdot 143 }{156} \cdot 143 \cdot 120 \cdot 123 \cdot 120 \cdot 120
\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
\145\144\061\063\060\061\006\003\125\004\003\023\052\105\156\164
\162\165\163\164\056\156\145\164\040\103\145\162\164\151\146\151
\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171
\040\050\062\060\064\070\051
END
CKA_SERIAL_NUMBER
 MULTILINE OCTAL
\002\004\070\143\336\370
END
CKA TRUST SERVER AUTH CK TRUST CKT NSS TRUSTED DELEGATOR
CKA TRUST EMAIL PROTECTION CK TRUST CKT NSS TRUSTED DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
# Certificate "Baltimore CyberTrust Root"
# Issuer: CN=Baltimore CyberTrust Root,OU=CyberTrust,O=Baltimore,C=IE
# Serial Number: 33554617 (0x20000b9)
# Subject: CN=Baltimore CyberTrust Root,OU=CyberTrust,O=Baltimore,C=IE
# Not Valid Before: Fri May 12 18:46:00 2000
# Not Valid After: Mon May 12 23:59:00 2025
# Fingerprint (SHA-256):
 16:AF:57:A9:F6:76:B0:AB:12:60:95:AA:5E:BA:DE:F2:2A:B3:11:19:D6:44:AC:95:CD:4B:93:DB:F3:F2:6A:EB
 Fingerprint (SHA1): D4:DE:20:D0:5E:66:FC:53:FE:1A:50:88:2C:78:DB:28:52:CA:E4:74
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
```

CKA MODIFIABLE CK BBOOL CK FALSE

CKA LABEL UTF8 "Baltimore CyberTrust Root"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509 CKA SUBJECT MULTILINE OCTAL

 $\label{eq:condition} $$ \000\13\000\01\000\003\125\004\000\023\002\111\105\061\022\060\020\000\003\125\0004\012\023\011\102\141\154\164\151\155\157\162\145\061\023\060\021\0006\003\125\0004\013\023\012\103\171\142\145\162\124\162\165\163\164\040\122\157\157\164$

END

CKA ID UTF8 "0"

CKA ISSUER MULTILINE OCTAL

END

CKA_SERIAL_NUMBER

MULTILINE_OCTAL

\002\004\002\000\000\271

END

CKA_VALUE MULTILINE_OCTAL

\060\202\003\167\060\202\002\137\240\003\002\001\002\002\004\002 \000\000\271\060\015\006\011\052\206\110\206\367\015\001\001\005 $\label{eq:condition} $$ \005\000\060\132\061\013\060\011\006\003\125\004\006\023\002\111 $$$ \105\061\022\060\020\006\003\125\004\012\023\011\102\141\154\164 \151\155\157\162\145\061\023\060\021\006\003\125\004\013\023\012 \103\171\142\145\162\124\162\165\163\164\061\042\060\040\006\003 \125\004\003\023\031\102\141\154\164\151\155\157\162\145\040\103 \171\142\145\162\124\162\165\163\164\040\122\157\157\164\060\036 \027\015\060\060\060\065\061\062\061\070\064\066\060\060\132\027 \015\062\065\060\065\061\062\062\063\065\071\060\060\132\060\132 \061\013\060\011\006\003\125\004\006\023\002\111\105\061\022\060 \020\006\003\125\004\012\023\011\102\141\154\164\151\155\157\162 $\label{eq:condition} $$ 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 $\label{eq:condition} $$ 325\backslash 160\backslash 160\backslash 360\backslash 217\backslash 300\backslash 022\backslash 312\backslash 006\backslash 313\backslash 232\backslash 341\backslash 331\backslash 312\backslash 063\backslash 172$$ \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 $\label{eq:condition} $$ 165\317\167\122\115\363\311\220\054\271\075\345\311\043\123\077$ \037\044\230\041\134\007\231\051\275\306\072\354\347\156\206\072 \153\227\164\143\063\275\150\030\061\360\170\215\166\277\374\236 \216\135\052\206\247\115\220\334\047\032\071\002\003\001\000\001 \243\105\060\103\060\035\006\003\125\035\016\004\026\004\024\345 \235\131\060\202\107\130\314\254\372\010\124\066\206\173\072\265 $\label{eq:condition} $$ \004\115\360\060\022\006\003\125\035\023\001\001\377\004\010\060 $$$ $\label{eq:condition} $$ \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 \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 $\label{eq:condition} $$ \206\100\117\354\314\243\176\070\306\067\021\117\355\335\150\061 $$$ \216\114\322\263\001\164\356\276\165\136\007\110\032\177\160\377 \026\134\204\300\171\205\270\005\375\177\276\145\021\243\017\300 $\label{eq:condition} $$ \002\264\370\122\067\071\004\325\251\061\172\030\277\240\052\364$ \022\231\367\243\105\202\343\074\136\365\235\236\265\310\236\174 \056\310\244\236\116\010\024\113\155\375\160\155\153\032\143\275 \144\346\037\267\316\360\362\237\056\273\033\267\362\120\210\163 \222\302\342\343\026\215\232\062\002\253\216\030\335\351\020\021 \356\176\065\253\220\257\076\060\224\172\320\063\075\247\145\017 $\label{eq:condition} $$ \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"
```

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

 $^{{\}tt\#\,Issuer:\,CN=Baltimore\,CyberTrust\,Root,OU=CyberTrust,O=Baltimore,C=IE}$

[#] 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):

```
# 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
\label{eq:condition} $\324\336\040\320\136\146\374\123\376\032\120\210\054\170\333\050$
\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
\label{eq:condition} $$ \060\132\061\013\060\011\006\003\125\004\006\023\002\111\105\061 $$
\022\060\020\006\003\125\004\012\023\011\102\141\154\164\151\155
\157\162\145\061\023\060\021\006\003\125\004\013\023\012\103\171
\142\145\162\124\162\165\163\164\061\042\060\040\006\003\125\004
\\ \\003\\ \\023\\ \\031\\ \\102\\ \\141\\ \\154\\ \\164\\ \\151\\ \\155\\ \\157\\ \\162\\ \\145\\ \\040\\ \\103\\ \\171\\ \\142
\145\162\124\162\165\163\164\040\122\157\157\164
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\004\002\000\000\271
END
CKA TRUST SERVER AUTH CK TRUST CKT NSS TRUSTED DELEGATOR
CKA TRUST EMAIL PROTECTION CK TRUST CKT NSS TRUSTED DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
# Certificate "Entrust Root Certification Authority"
# Issuer: CN=Entrust Root Certification Authority, OU="(c) 2006 Entrust, Inc.", OU=www.entrust.net/CPS is
incorporated by reference,O="Entrust, Inc.",C=US
# Serial Number: 1164660820 (0x456b5054)
# Subject: CN=Entrust Root Certification Authority, OU="(c) 2006 Entrust, Inc.", OU=www.entrust.net/CPS
is incorporated by reference,O="Entrust, Inc.",C=US
# Not Valid Before: Mon Nov 27 20:23:42 2006
# Not Valid After: Fri Nov 27 20:53:42 2026
# Fingerprint (SHA-256):
73:C1:76:43:4F:1B:C6:D5:AD:F4:5B:0E:76:E7:27:28:7C:8D:E5:76:16:C1:E6:E6:14:1A:2B:2C:BC:7D:8E:4C
# Fingerprint (SHA1): B3:1E:B1:B7:40:E3:6C:84:02:DA:DC:37:D4:4D:F5:D4:67:49:52:F9
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Entrust Root Certification Authority"
```

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509 CKA_SUBJECT MULTILINE_OCTAL

 $\label{eq:condition} $$ \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\126\004\0111\156\143\056\061\007\1060\067\006\003\125\004\0151\165\163\164\056\156\145\164\165\163\164\162\165\163\164\162\145\162\145\162\145\144\040\142\171\040\162\145\146\145\162\145\145\164\165\163\164\054\040\111\156\143\165\163\164\055\060\053\006\003\125\004\003\023\026\050\143\151\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$

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:condition} $$ \000\202\004\221\060\202\003\171\240\003\002\001\002\002\004\105 \\ \005\000\060\201\260\061\013\060\011\006\003\125\004\006\023\002 \\ \125\123\061\026\060\024\006\003\125\004\012\023\015\105\156\164 \\ \162\165\163\164\054\040\111\156\143\056\061\071\060\067\006\003 \\ \125\004\013\023\060\167\167\167\056\145\156\164\162\165\163\164 \\ \056\156\145\164\057\103\120\123\040\151\163\040\151\156\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\060\053\006\003\125\004\003\023 \\ \044\105\156\164\162\165\163\164\040\122\157\157\164\040\103\145 \\ \040\103\145$

\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150 \157\162\151\164\171\060\036\027\015\060\066\061\061\062\067\062 \060\062\063\064\062\132\027\015\062\066\061\061\062\067\062\060 \065\063\064\062\132\060\201\260\061\013\060\011\006\003\125\004 \006\023\002\125\123\061\026\060\024\006\003\125\004\012\023\015 \105\156\164\162\165\163\164\054\040\111\156\143\056\061\071\060 \067\006\003\125\004\013\023\060\167\167\167\056\145\156\164\162 \165\163\164\056\156\145\164\057\103\120\123\040\151\163\040\151 $\label{eq:condition} $$ \frac{156}{143}\frac{157}{162}\frac{160}{157}\frac{162}{141}\frac{164}{145}\frac{144}{040}\frac{142}{171}\frac{162}{162}$ \145\146\145\162\145\156\143\145\061\037\060\035\006\003\125\004 \013\023\026\050\143\051\040\062\060\060\066\040\105\156\164\162 \165\163\164\054\040\111\156\143\056\061\055\060\053\006\003\125 \004\003\023\044\105\156\164\162\165\163\164\040\122\157\157\164 $\label{eq:condition} $$ 040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101$ \052\206\110\206\367\015\001\001\001\005\000\003\202\001\017\000 $\label{eq:condition} $$ \000\202\001\001\000\266\225\266\103\102\372\306 $$$ \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 $\label{eq:condition} $$ \frac{306}{32}\frac{300}{225}\frac{311}{377}\frac{311}{377}\frac{311}{377}$ \063\003\333\267\203\173\076\040\204\136\355\262\126\050\247\370 \340\271\100\161\067\305\313\107\016\227\052\150\300\042\225\142 $\label{eq:condition} $$ \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 $\verb|255|276|274|217|254|122|226|113|252|121|215|344|023|061|031|350|$ \116\115\237\333\254\263\152\325\274\071\124\161\312\172\177 \220\335\175\035\200\331\201\273\131\046\302\021\376\346\223\342 $\label{eq:condition} $$ 367 \times 344 \times 373 \times 344 \times 373 \times 373 \times 316 \times 31200 \times 344 \times 373 \times 373 \times 316 \times 31$ \236\177\127\257\236\027\256\353\034\313\050\041\137\266\034\330 \347\242\004\042\371\323\332\330\313\002\003\001\000\001\243\201 \260\060\201\255\060\016\006\003\125\035\017\001\001\377\004\004 \003\002\001\006\060\017\006\003\125\035\023\001\001\377\004\005 \060\003\001\001\377\060\053\006\003\125\035\020\004\044\060\042 \200\017\062\060\060\066\061\061\062\067\062\060\062\063\064\062 \132\201\017\062\060\062\066\061\061\062\067\062\060\065\063\064 $\label{eq:condition} $$ \062\132\060\037\006\003\125\035\043\004\030\060\026\200\024\150 $$$ \220\344\147\244\246\123\200\307\206\146\244\361\367\113\103\373 \204\275\155\060\035\006\003\125\035\016\004\026\004\024\150\220 \344\147\244\246\123\200\307\206\146\244\361\367\113\103\373\204 \275\155\060\035\006\011\052\206\110\206\366\175\007\101\000\004 \020\060\016\033\010\126\067\056\061\072\064\056\060\003\002\004 \220\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000 \003\202\001\001\000\223\324\060\260\327\003\040\052\320\371\143 \350\221\014\005\040\251\137\031\312\173\162\116\324\261\333\320 \226\373\124\132\031\054\014\010\367\262\274\205\250\235\177\155

 $\label{eq:constraint} $$ \073\122\263\052\333\347\324\204\214\143\366\017\313\046\001\221\120\154\364\137\024\342\223\164\300\023\236\060\072\120\343\264\140\305\034\360\042\104\215\161\107\254\310\032\311\351\233\232\000\140\023\377\160\176\137\021\115\111\033\263\025\122\173\311\124\332\277\235\225\257\153\232\330\236\351\361\344\103\215\342\1021\104\072\277\257\275\203\102\163\122\213\252\273\247\051\317\365\144\034\012\115\321\274\252\254\237\052\320\377\177\177\332\175\352\261\355\060\045\301\204\332\064\322\133\170\203\126\354\234\066\303\046\342\021\366\147\111\035\222\253\214\373\353\377\172\356\205\112\247\120\200\360\247\134\112\224\056\137\005\231\074\122\101\340\315\264\143\317\001\103\272\234\203\334\217\140\073\363\132\264\264\173\256\332\013\220\070\165\357\201\035\146\322\367\127\160\066\263\277\374\050\257\161\045\205\133\023\376\036\177\132\264\074$

END

CKA_NSS_MOZILLA_CA_POLICY

CK_BBOOL CK_TRUE

CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "Entrust Root Certification Authority"

Issuer: CN=Entrust Root Certification Authority,OU="(c) 2006 Entrust, Inc.",OU=www.entrust.net/CPS is incorporated by reference,O="Entrust, Inc.",C=US

Serial Number: 1164660820 (0x456b5054)

Subject: CN=Entrust Root Certification Authority,OU="(c) 2006 Entrust, Inc.",OU=www.entrust.net/CPS is incorporated by reference,O="Entrust, Inc.",C=US

Not Valid Before: Mon Nov 27 20:23:42 2006

Not Valid After: Fri Nov 27 20:53:42 2026

Fingerprint (SHA-256):

73:C1:76:43:4F:1B:C6:D5:AD:F4:5B:0E:76:E7:27:28:7C:8D:E5:76:16:C1:E6:E6:14:1A:2B:2C:BC:7D:8E:4C

Fingerprint (SHA1): B3:1E:B1:B7:40:E3:6C:84:02:DA:DC:37:D4:4D:F5:D4:67:49:52:F9

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "Entrust Root Certification Authority"

CKA_CERT_SHA1_HASH

MULTILINE OCTAL

 $\label{eq:condition} $$ \263\036\261\267\100\343\154\204\002\332\334\067\324\115\365\324 $$$

 $\label{eq:lambda} $$147\111\122\371$$

END

CKA CERT MD5 HASH MULTILINE OCTAL

\326\245\303\355\135\335\076\000\301\075\207\222\037\035\077\344

END

CKA_ISSUER MULTILINE_OCTAL

\060\201\260\061\013\060\011\006\003\125\004\006\023\002\125\123 \061\026\060\024\006\003\125\004\012\023\015\105\156\164\162\165 \163\164\054\040\111\156\143\056\061\071\060\067\006\003\125\004

\013\023\060\167\167\167\056\145\156\164\162\165\163\164\056\156 \145\164\057\103\120\123\040\151\163\040\151\156\143\157\162\160 \157\162\141\164\145\144\040\142\171\040\162\145\146\145\162\145 \156\143\145\061\037\060\035\006\003\125\004\013\023\026\050\143 $\label{eq:condition} $$ \051\040\062\060\066\040\105\156\164\162\165\163\164\054\040 $$$ \111\156\143\056\061\055\060\053\006\003\125\004\003\023\044\105 \156\164\162\165\163\164\040\122\157\157\164\040\103\145\162\164 $\label{eq:continuous} $$ \frac{151}146\times151\times144\times151\times157\times156\times040\times101\times165\times164\times150\times157\times162}$$ \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 $\label{eq:condition} $$ \03\060\031\006\003\125\004\012\023\022\125\156\151\172\145\164$$$ \157\040\123\160\056\040\172\040\157\056\157\056\061\022\060\020 \006\003\125\004\003\023\011\103\145\162\164\165\155\040\103\101 **END** CKA_ID UTF8 "0" CKA_ISSUER MULTILINE_OCTAL \060\076\061\013\060\011\006\003\125\004\006\023\002\120\114\061 \033\060\031\006\003\125\004\012\023\022\125\156\151\172\145\164 \157\040\123\160\056\040\172\040\157\056\157\056\061\022\060\020

CKA_SERIAL_NUMBER MULTILINE_OCTAL

\002\003\001\000\040

END

CKA VALUE MULTILINE OCTAL

\060\202\003\014\060\202\001\364\240\003\002\001\002\002\003\001 \000\040\060\015\006\011\052\206\110\206\367\015\001\001\005\005 $\label{eq:condition} $$ \000\060\076\061\013\060\011\006\003\125\004\006\023\002\120\114$$$ \061\033\060\031\006\003\125\004\012\023\022\125\156\151\172\145 $\label{eq:condition} $$ 164\157\040\123\160\056\040\172\040\157\056\157\056\061\022\060 $$$ $\label{eq:condition} $$ \000\003\125\004\003\023\011\103\145\162\164\165\155\040\103$ \101\060\036\027\015\060\062\060\066\061\061\061\060\064\066\063 \071\132\027\015\062\067\060\066\061\061\061\060\064\066\063\071 $\label{eq:condition} $$ 132\060\076\061\013\060\011\006\003\125\004\006\023\002\120\114$$ \061\033\060\031\006\003\125\004\012\023\022\125\156\151\172\145 $\label{eq:condition} $$ 164\157\040\123\160\056\040\172\040\157\056\157\056\061\022\060 $$$ \020\006\003\125\004\003\023\011\103\145\162\164\165\155\040\103 \101\060\202\001\042\060\015\006\011\052\206\110\206\367\015\001 $\label{eq:condition} $$ \001\001\005\000\003\202\001\017\000\060\202\001\012\002\202\001$ \001\000\316\261\301\056\323\117\174\315\045\316\030\076\117\304 \214\157\200\152\163\310\133\121\370\233\322\334\273\000\134\261 \240\374\165\003\356\201\360\210\356\043\122\351\346\025\063\215 \254\055\011\305\166\371\053\071\200\211\344\227\113\220\245\250 \170\370\163\103\173\244\141\260\330\130\314\341\154\146\176\234 \363\011\136\125\143\204\325\250\357\363\261\056\060\150\263\304 \074\330\254\156\215\231\132\220\116\064\334\066\232\217\201\210 \120\267\155\226\102\011\363\327\225\203\015\101\113\260\152\153 \370\374\017\176\142\237\147\304\355\046\137\020\046\017\010\117 \360\244\127\050\316\217\270\355\105\366\156\356\045\135\252\156 $\label{eq:condition} $$ \071\276\344\223\057\331\107\240\162\353\372\246\133\257\312\123$ \077\342\016\306\226\126\021\156\367\351\146\251\046\330\177\225 \123\355\012\205\210\272\117\051\245\102\214\136\266\374\205\040 \000\252\150\013\241\032\205\001\234\304\106\143\202\210\266\042 \261\356\376\252\106\131\176\317\065\054\325\266\332\135\367\110 \063\024\124\266\353\331\157\316\315\210\326\253\033\332\226\073 \035\131\002\003\001\000\001\243\023\060\021\060\017\006\003\125 $\label{eq:condition} $$ \035\023\001\001\377\004\005\060\003\001\001\377\060\015\006\011 $$$ $\label{eq:condition} $$ \052\206\110\206\367\015\001\001\005\005\000\003\202\001\001\000$ \270\215\316\357\347\024\272\317\356\260\104\222\154\264\071\076 \242\204\156\255\270\041\167\322\324\167\202\207\346\040\101\201 \356\342\370\021\267\143\321\027\067\276\031\166\044\034\004\032 \114\353\075\252\147\157\055\324\315\376\145\061\160\305\033\246 \002\012\272\140\173\155\130\302\232\111\376\143\062\013\153\343 \072\300\254\253\073\260\350\323\011\121\214\020\203\306\064\340 \305\053\340\032\266\140\024\047\154\062\167\214\274\262\162\230 \317\315\314\077\271\310\044\102\024\326\127\374\346\046\103\251 $\label{eq:condition} $$ \035\345\200\220\316\003\124\050\076\367\077\323\370\115\355\152$$ $\label{eq:control_control_control_control_control} $$ \012\072\223\023\233\073\024\043\023\143\234\077\321\207\047\171 \345\114\121\343\001\255\205\135\032\073\261\325\163\020\244\323 \362\274\156\144\365\132\126\220\250\307\016\114\164\017\056\161 \073\367\310\107\364\151\157\025\362\021\136\203\036\234\174\122 \256\375\002\332\022\250\131\147\030\333\274\160\335\233\261\151 \355\200\316\211\100\110\152\016\065\312\051\146\025\041\224\054 \350\140\052\233\205\112\100\363\153\212\044\354\006\026\054\163 \END$

CKA_NSS_MOZILLA_CA_POLICY

CK BBOOL CK TRUE

 ${\tt CKA_NSS_SERVER_DISTRUST_AFTER\ CK_BBOOL\ CK_FALSE\ CKA_NSS_EMAIL_DISTRUST_AFTER\ CK_BBOOL\ CK_FALSE\ }$

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

\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

END

CKA_SERIAL_NUMBER

MULTILINE_OCTAL

\002\003\001\000\040

END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST

CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR

CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST

```
#
# Certificate "Comodo AAA Services root"
# Issuer: CN=AAA Certificate Services,O=Comodo CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Serial Number: 1 (0x1)
# Subject: CN=AAA Certificate Services,O=Comodo CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Not Valid Before: Thu Jan 01 00:00:00 2004
# Not Valid After: Sun Dec 31 23:59:59 2028
# Fingerprint (SHA-256):
D7:A7:A0:FB:5D:7E:27:31:D7:71:E9:48:4E:BC:DE:F7:1D:5F:0C:3E:0A:29:48:78:2B:C8:3E:E0:EA:69:9E:F4
# Fingerprint (SHA1): D1:EB:23:A4:6D:17:D6:8F:D9:25:64:C2:F1:F1:60:17:64:D8:E3:49
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA PRIVATE
CK_BBOOL CK_FALSE
CKA MODIFIABLE CK BBOOL CK FALSE
CKA LABEL UTF8 "Comodo AAA Services root"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA SUBJECT MULTILINE OCTAL
\060\173\061\013\060\011\006\003\125\004\006\023\002\107\102\061
\label{eq:condition} $$ \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
\143\141\164\145\040\123\145\162\166\151\143\145\163
END
CKA_ID UTF8 "0"
CKA ISSUER MULTILINE OCTAL
\060\173\061\013\060\011\006\003\125\004\006\023\002\107\102\061
\033\060\031\006\003\125\004\010\014\022\107\162\145\141\164\145
\162\040\115\141\156\143\150\145\163\164\145\162\061\020\060\016
\006\003\125\004\007\014\007\123\141\154\146\157\162\144\061\032
\060\030\006\003\125\004\012\014\021\103\157\155\157\144\157\040
\103\101\040\114\151\155\151\164\145\144\061\041\060\037\006\003
\143\141\164\145\040\123\145\162\166\151\143\145\163
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\001\001
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\062\060\202\003\032\240\003\002\001\002\002\001\001
```

\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060

\173\061\013\060\011\006\003\125\004\006\023\002\107\102\061\033 \060\031\006\003\125\004\010\014\022\107\162\145\141\164\145\162 \040\115\141\156\143\150\145\163\164\145\162\061\020\060\016\006 \003\125\004\007\014\007\123\141\154\146\157\162\144\061\032\060 \030\006\003\125\004\012\014\021\103\157\155\157\144\157\040\103 \101\040\114\151\155\151\164\145\144\061\041\060\037\006\003\125 \004\003\014\030\101\101\101\040\103\145\162\164\151\146\151\143 \141\164\145\040\123\145\162\166\151\143\145\163\060\036\027\015 $\label{eq:condition} $$ \0.060\0.0$ \070\061\062\063\061\062\063\065\071\065\071\132\060\173\061\013 \060\011\006\003\125\004\006\023\002\107\102\061\033\060\031\006 $\label{eq:condition} $$ \003\125\004\010\014\022\107\162\145\141\164\145\162\040\115\141 $$$ \156\143\150\145\163\164\145\162\061\020\060\016\006\003\125\004 $\\ \\007\\ \\014\\ \\007\\ \\123\\ \\141\\ \\154\\ \\146\\ \\157\\ \\162\\ \\144\\ \\061\\ \\032\\ \\060\\ \\030\\ \\006\\ \\003$ \151\155\151\164\145\144\061\041\060\037\006\003\125\004\003\014 $\label{eq:condition} $$ \030\101\101\101\040\103\145\162\164\151\146\151\143\141\164\145$$ \040\123\145\162\166\151\143\145\163\060\202\001\042\060\015\006 \011\052\206\110\206\367\015\001\001\001\005\000\003\202\001\017 $\label{eq:condition} $$ \000\060\202\001\012\002\202\001\001\000\276\100\235\364\156\341 $$$ \352\166\207\034\115\105\104\216\276\106\310\203\006\235\301\052 \376\030\037\216\344\002\372\363\253\135\120\212\026\061\013\232 $\label{eq:condition} $$ 0.06\320\305\160\042\315\111\055\124\143\314\266\156\150\106\013 $$$ \123\352\313\114\044\300\274\162\116\352\361\025\256\364\124\232 \022\012\303\172\262\063\140\342\332\211\125\363\042\130\363\336 \334\317\357\203\206\242\214\224\117\237\150\362\230\220\106\204 \047\307\166\277\343\314\065\054\213\136\007\144\145\202\300\110 $\label{eq:condition} $$ \260\250\221\371\141\237\166\040\120\250\221\307\146\265\353\170$$ \142\003\126\360\212\032\023\352\061\243\036\240\231\375\070\366 \366\047\062\130\157\007\365\153\270\373\024\053\257\267\252\314 $\label{eq:condition} $$ 326\143\137\163\214\332\005\231\250\070\250\313\027\170\066\121 $$$ \254\351\236\364\170\072\215\317\017\331\102\342\230\014\253\057 \237\016\001\336\357\237\231\111\361\055\337\254\164\115\033\230 \265\107\305\345\051\321\371\220\030\307\142\234\276\203\307\046 \173\076\212\045\307\300\335\235\346\065\150\020\040\235\217\330 \336\322\303\204\234\015\136\350\057\311\002\003\001\000\001\243 \201\300\060\201\275\060\035\006\003\125\035\016\004\026\004\024 \240\021\012\043\076\226\361\007\354\342\257\051\357\202\245\177 $\label{eq:condition} $$ 320\060\244\264\060\016\006\003\125\035\017\001\001\377\004\004$ $\label{eq:condition} $$ \003\002\001\006\060\017\006\003\125\035\023\001\001\377\004\005 $$$ \060\003\001\001\377\060\173\006\003\125\035\037\004\164\060\162 \060\070\240\066\240\064\206\062\150\164\164\160\072\057\057\143 $\label{eq:loss} $$ 162\154\056\143\157\155\157\144\157\143\141\056\143\157\155\057$$ \101\101\101\103\145\162\164\151\146\151\143\141\164\145\123\145 \162\166\151\143\145\163\056\143\162\154\060\066\240\064\240\062 \206\060\150\164\164\160\072\057\057\143\162\154\056\143\157\155 \157\144\157\056\156\145\164\057\101\101\101\103\145\162\164\151 \146\151\143\141\164\145\123\145\162\166\151\143\145\163\056\143

\162\154\060\015\006\011\052\206\110\206\367\015\001\001\005\005 \000\003\202\001\001\000\010\126\374\002\360\233\350\377\244\372 \326\173\306\104\200\316\117\304\305\366\000\130\314\246\266\274 $\label{eq:condition} $$ \024\111\150\004\166\350\346\356\135\354\002\017\140\326\215\120 $$$ \030\117\046\116\001\343\346\260\245\356\277\274\164\124\101\277 $\label{eq:condition} $$ \frac{375}{374}\frac{22}{270}\frac{307}{117}\frac{32}{364}\frac{211}{140}\frac{005}{177}\frac{40}{267}\frac{005}{112} $$$ \363\366\361\302\277\304\271\164\206\266\055\175\153\314\322\363 \106\335\057\306\340\152\303\303\064\003\054\175\226\335\132\302 \016\247\012\231\301\005\213\253\014\057\363\134\072\317\154\067 \125\011\207\336\123\100\154\130\357\374\266\253\145\156\004\366 \033\334\074\340\132\025\306\236\331\361\131\110\060\041\145\003 \154\354\351\041\163\354\233\003\241\340\067\255\240\025\030\217 \372\272\002\316\247\054\251\020\023\054\324\345\010\046\253\042 \227\140\370\220\136\164\324\242\232\123\275\362\251\150\340\242 \156\302\327\154\261\243\017\236\277\353\150\347\126\362\256\362 \343\053\070\072\011\201\265\153\205\327\276\055\355\077\032\267 \262\143\342\365\142\054\202\324\152\000\101\120\361\071\203\237 \225\351\066\226\230\156

END

CKA_NSS_MOZILLA_CA_POLICY

CK BBOOL CK TRUE

CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "Comodo AAA Services root"

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

Serial Number:

1(0x1)

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

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

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

Fingerprint (SHA-256):

D7:A7:A0:FB:5D:7E:27:31:D7:71:E9:48:4E:BC:DE:F7:1D:5F:0C:3E:0A:29:48:78:2B:C8:3E:E0:EA:69:9E:F4

Fingerprint (SHA1): D1:EB:23:A4:6D:17:D6:8F:D9:25:64:C2:F1:F1:60:17:64:D8:E3:49

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "Comodo AAA Services root"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL

\321\353\043\244\155\027\326\217\331\045\144\302\361\361\140\027

\144\330\343\111

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL

\111\171\004\260\353\207\031\254\107\260\274\021\121\233\164\320

END

CKA_ISSUER MULTILINE_OCTAL

 $\label{eq:condition} $$ \060\173\061\013\060\011\006\003\125\004\006\023\002\107\102\061 $$$

\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 $\label{eq:condition} $$ \000\000\000\12\004\012\014\021\103\157\155\157\144\157\040 $$$ \103\101\040\114\151\155\151\164\145\144\061\041\060\037\006\003 \125\004\003\014\030\101\101\101\040\103\145\162\164\151\146\151 \143\141\164\145\040\123\145\162\166\151\143\145\163 **END** CKA_SERIAL_NUMBER MULTILINE OCTAL \002\001\001 **END** CKA TRUST SERVER AUTH CK TRUST CKT NSS TRUSTED DELEGATOR CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST CKA TRUST STEP UP APPROVED CK BBOOL CK FALSE # Certificate "QuoVadis Root CA 2" # Issuer: CN=QuoVadis Root CA 2,O=QuoVadis Limited,C=BM # Serial Number: 1289 (0x509) # Subject: CN=QuoVadis Root CA 2,O=QuoVadis Limited,C=BM # Not Valid Before: Fri Nov 24 18:27:00 2006 # Not Valid After: Mon Nov 24 18:23:33 2031 # Fingerprint (SHA-256): 85:A0:DD:7D:D7:20:AD:B7:FF:05:F8:3D:54:2B:20:9D:C7:FF:45:28:F7:D6:77:B1:83:89:FE:A5:E5:C4:9E:86 Fingerprint (SHA1): CA:3A:FB:CF:12:40:36:4B:44:B2:16:20:88:80:48:39:19:93:7C:F7 CKA CLASS CK OBJECT CLASS CKO CERTIFICATE CKA_TOKEN CK_BBOOL CK_TRUE CKA_PRIVATE CK_BBOOL CK_FALSE CKA_MODIFIABLE CK_BBOOL CK_FALSE CKA LABEL UTF8 "QuoVadis Root CA 2" CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509 CKA SUBJECT MULTILINE OCTAL \060\105\061\013\060\011\006\003\125\004\006\023\002\102\115\061 \031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144 \151\163\040\114\151\155\151\164\145\144\061\033\060\031\006\003 \125\004\003\023\022\121\165\157\126\141\144\151\163\040\122\157 \157\164\040\103\101\040\062 **END** CKA_ID UTF8 "0" CKA_ISSUER MULTILINE_OCTAL \060\105\061\013\060\011\006\003\125\004\006\023\002\102\115\061 \031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144 \151\163\040\114\151\155\151\164\145\144\061\033\060\031\006\003 \125\004\003\023\022\121\165\157\126\141\144\151\163\040\122\157

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

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

\002\002\005\011

END

CKA VALUE

MULTILINE OCTAL

\060\202\005\267\060\202\003\237\240\003\002\001\002\002\002\005 \011\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000 \060\105\061\013\060\011\006\003\125\004\006\023\002\102\115\061 \031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144 \151\163\040\114\151\155\151\164\145\144\061\033\060\031\006\003 \125\004\003\023\022\121\165\157\126\141\144\151\163\040\122\157 \157\164\040\103\101\040\062\060\036\027\015\060\066\061\061\062 \061\070\062\063\063\063\132\060\105\061\013\060\011\006\003\125 $\label{eq:condition} $$ \004\006\023\002\102\115\061\031\060\027\006\003\125\004\012\023$ \020\121\165\157\126\141\144\151\163\040\114\151\155\151\164\145 \144\061\033\060\031\006\003\125\004\003\023\022\121\165\157\126 \141\144\151\163\040\122\157\157\164\040\103\101\040\062\060\202 \002\042\060\015\006\011\052\206\110\206\367\015\001\001\001\005 \000\003\202\002\017\000\060\202\002\012\002\202\002\001\000\232 $\label{eq:condition} $$ \030\312\113\224\015\000\055\257\003\051\212\360\017\201\310\256$$ \114\031\205\035\010\237\253\051\104\205\363\057\201\255\062\036 \220\106\277\243\206\046\032\036\376\176\034\030\072\134\234\140 \027\052\072\164\203\063\060\175\141\124\021\313\355\253\340\346 \322\242\176\365\153\157\030\267\012\013\055\375\351\076\357\012 \306\263\020\351\334\302\106\027\370\135\375\244\332\377\236\111 \132\234\346\063\346\044\226\367\077\272\133\053\034\172\065\302 \326\147\376\253\146\120\213\155\050\140\053\357\327\140\303\307 $\label{eq:condition} $$ \223\274\215\066\221\363\177\370\333\021\023\304\234\167\166\301 $$$ \256\267\002\152\201\172\251\105\203\342\005\346\271\126\301\224 \067\217\110\161\143\042\354\027\145\007\225\212\113\337\217\306 \132\012\345\260\343\137\136\153\021\253\014\371\205\353\104\351 \370\004\163\362\351\376\134\230\214\365\163\257\153\264\176\315 \324\134\002\053\114\071\341\262\225\225\055\102\207\327\325\263 \220\103\267\154\023\361\336\335\366\304\370\211\077\321\165\365 \222\303\221\325\212\210\320\220\354\334\155\336\211\302\145\161 $\label{eq:condition} $$ \226\213\015\003\375\234\277\133\026\254\222\333\352\376\171\174$ \255\353\257\367\026\313\333\315\045\053\345\037\373\232\237\342 \121\314\072\123\014\110\346\016\275\311\264\166\006\122\346\021 \023\205\162\143\003\004\340\004\066\053\040\031\002\350\164\247 \037\266\311\126\146\360\165\045\334\147\301\016\141\140\210\263 \076\321\250\374\243\332\035\260\321\261\043\124\337\104\166\155 \355\101\330\301\262\042\266\123\034\337\065\035\334\241\167\052 \061\344\055\365\345\345\333\310\340\377\345\200\327\013\143\240 \377\063\241\017\272\054\025\025\352\227\263\322\242\265\276\362 \214\226\036\032\217\035\154\244\141\067\271\206\163\063\327\227

\226\236\043\175\202\244\114\201\342\241\321\272\147\137\225\007 \243\047\021\356\026\020\173\274\105\112\114\262\004\322\253\357 \325\375\014\121\316\120\152\010\061\371\221\332\014\217\144\134 \003\303\072\213\040\077\156\215\147\075\072\326\376\175\133\210 \311\136\373\314\141\334\213\063\167\323\104\062\065\011\142\004 \222\026\020\330\236\047\107\373\073\041\343\370\353\035\133\002 $\label{eq:condition} $$ \003\001\000\001\243\201\260\060\201\255\060\017\006\003\125\035$$ \023\001\001\377\004\005\060\003\001\001\377\060\013\006\003\125 $\label{eq:condition} $$ \026\04\024\032\204\142\274\110\114\063\045\004\324\356\320\366$$ \003\304\031\106\321\224\153\060\156\006\003\125\035\043\004\147 $\label{eq:condition} $$ \000145\200\024\032\204\142\274\110\114\063\045\004\324\356\320 $$$ \366\003\304\031\106\321\224\153\241\111\244\107\060\105\061\013 $\label{eq:condition} $$ \003\125\004\012\023\020\121\165\157\126\141\144\151\163\040\114 $$$ \151\155\151\164\145\144\061\033\060\031\006\003\125\004\003\023 $\label{eq:condition} $$ \022\121\165\157\126\141\144\151\163\040\122\157\157\164\040\103$$ \101\040\062\202\002\005\011\060\015\006\011\052\206\110\206\367 \015\001\001\005\005\000\003\202\002\001\000\076\012\026\115\237 $\label{eq:condition} $$ \006\133\250\256\161\135\057\005\057\147\346\023\105\203\304\066$$$ \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 $\label{eq:condition} $$ 101\107\226\014\373\340\202\046\223\125\214\376\042\037\140\145$$ \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 $\label{eq:condition} $$ \frac{170\,063\,122\,020\,130\,256\,077\,141\,216\,362\,152\,261\,357\,030\,176\,112}{170\,063\,122\,020\,130\,256\,077\,141\,216\,362\,152\,261\,357\,030\,176\,112}$ \131\143\312\215\242\126\325\247\057\274\126\037\317\071\301\342 \373\012\250\025\054\175\115\172\143\306\154\227\104\074\322\157 $\label{eq:condition} $$ 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 $\label{eq:condition} $$ \frac{125\\172\\155\\200\\231\\044\\365\\154\\001\\373\\370\\227\\260\\224\\133\\353$ \375\322\157\361\167\150\015\065\144\043\254\270\125\241\003\321 \115\102\031\334\370\165\131\126\243\371\250\111\171\370\257\016 \271\021\240\174\267\152\355\064\320\266\046\142\070\032\207\014 \370\350\375\056\323\220\177\007\221\052\035\326\176\134\205\203 \231\260\070\010\077\351\136\371\065\007\344\311\142\156\127\177 \247\120\225\367\272\310\233\346\216\242\001\305\326\146\277\171 \141\363\074\034\341\271\202\134\135\240\303\351\330\110\275\031 \242\021\024\031\156\262\206\033\150\076\110\067\032\210\267\135 \226\136\234\307\357\047\142\010\342\221\031\134\322\361\041\335 \272\027\102\202\227\161\201\123\061\251\237\366\175\142\277\162 \341\243\223\035\314\212\046\132\011\070\320\316\327\015\200\026 \264\170\245\072\207\114\215\212\245\325\106\227\362\054\020\271

 $\label{eq:condition} $$\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 "OuoVadis Root CA 2"

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

Serial Number: 1289 (0x509)

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

Not Valid Before: Fri Nov 24 18:27:00 2006 # Not Valid After : Mon Nov 24 18:23:33 2031

Fingerprint (SHA-256):

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

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

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

CKA_TOKEN CK_BBOOL CK_TRUE

CKA PRIVATE CK BBOOL CK FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "QuoVadis Root CA 2"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL

\312\072\373\317\022\100\066\113\104\262\026\040\210\200\110\071

 $\ \ \, \backslash 031 \backslash 223 \backslash 174 \backslash 367$

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL

\136\071\173\335\370\272\354\202\351\254\142\272\014\124\000\053

END

CKA_ISSUER

MULTILINE_OCTAL

 $\label{eq:condition} $$ \060\105\061\013\060\011\006\003\125\004\006\023\002\102\115\061 $$$

 $\label{eq:condition} $$ \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

 ${\tt CKA_TRUST_SERVER_AUTH\ CK_TRUST\ CKT_NSS_TRUSTED_DELEGATOR}$

CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR

CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST

CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#

Certificate "QuoVadis Root CA 3"

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

Serial Number: 1478 (0x5c6)

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

Not Valid Before: Fri Nov 24 19:11:23 2006 # Not Valid After : Mon Nov 24 19:06:44 2031

Fingerprint (SHA-256):

18:F1:FC:7F:20:5D:F8:AD:DD:EB:7F:E0:07:DD:57:E3:AF:37:5A:9C:4D:8D:73:54:6B:F4:F1:FE:D1:E1:8D:35

Fingerprint

(SHA1): 1F:49:14:F7:D8:74:95:1D:DD:AE:02:C0:BE:FD:3A:2D:82:75:51:85

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

CKA_TOKEN CK_BBOOL CK_TRUE

CKA PRIVATE CK BBOOL CK FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "QuoVadis Root CA 3"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL

END

CKA ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

 $\label{eq:condition} $$ \001\05\061\013\060\011\060\003\125\004\0006\023\002\102\115\061\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144\151\163\040\112\157\126\141\144\151\163\040\122\157\157\164\040\103\101\040\063$

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

 $\label{eq:condition} $$ \002\002\005\306$$

END

CKA VALUE

MULTILINE OCTAL

\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 $\label{eq:condition} $$ 004\100\255\002\113\061\253\274\215\221\150\330\040\016\032\001 $$$ $\label{eq:condition} $$ 342\032\173\116\027\135\342\212\267\077\231\032\315\353\141\253$ \302\145\246\037\267\267\275\267\217\374\375\160\217\013\240\147 $\label{eq:condition} $$ \276\001\242\131\317\161\346\017\051\166\377\261\126\171\105\053$$ \037\236\172\124\350\243\051\065\150\244\001\117\017\244\056\067 \363\133\332\054\332\135\216\156\074\243\076\332\373\202\345\335 \362\134\262\005\063\157\212\066\316\320\023\116\377\277\112\014 $\label{eq:condition} $$ \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 $\label{eq:condition} $$ \024\145\224\067\113\222\006\357\004\320\310\234\210\333\013\173$ \201\257\261\075\052\304\145\072\170\266\356\334\200\261\322\323 \231\234\072\356\153\132\153\263\215\267\325\316\234\302\276\245 \113\057\026\261\236\150\073\006\157\256\175\237\370\336\354\314 \051\247\230\243\045\103\057\357\361\137\046\341\210\115\370\136 \156\327\331\024\156\031\063\151\247\073\204\211\223\304\123\125 $\label{eq:condition} $$ \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:condition} $$ 163\253\154\200\270\350\013\144\223\240\234\214\031\377\263\322 $$$ \014\354\221\046\207\212\263\242\341\160\217\054\012\345\315\155 \150\121\353\332\077\005\177\213\062\346\023\134\153\376\137\100 \342\042\310\264\264\144\117\326\272\175\110\076\250\151\014\327 \273\206\161\311\163\270\077\073\235\045\113\332\377\100\353\002 \003\001\000\001\243\202\001\225\060\202\001\221\060\017\006\003 \125\035\023\001\001\377\004\005\060\003\001\001\377\060\201\341 $\label{eq:condition} $$ \000\03\125\035\040\004\201\331\060\201\326\060\201\323\006\011 $$$ $\label{eq:condition} $$ \0.053\0.06\0.001\0.004\0.01\2.76\1.30\0.000\0.003\0.60\2.01\3.05\0.60\2.01\2.23\0.06$ \156\171\040\165\163\145\040\157\146\040\164\150\151\163\040\103 \145\162\164\151\146\151\143\141\164\145\040\143\157\156\163\164 \151\164\165\164\145\163\040\141\143\143\145\160\164\141\156\143 \145\040\157\146\040\164\150\145\040\121\165\157\126\141\144\151 \163\040\122\157\157\164\040\103\101\040\063\040\103\145\162\164 \151\146\151\143\141\164\145\040\120\157\154\151\143\171\040\057 \040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\120

\164\056\060\055\006\010\053\006\001\005\005\007\002\001\026\041 \150\164\164\160\072\057\057\167\167\167\056\161\165\157\166\141 \144\151\163\147\154\157\142\141\154\056\143\157\155\057\143\160 \163\060\013\006\003\125\035\017\004\004\003\002\001\006\060\035 \006\003\125\035\016\004\026\004\024\362\300\023\340\202\103\076 \373\356\057\147\062\226\065\134\333\270\313\002\320\060\156\006 \003\125\035\043\004\147\060\145\200\024\362\300\023\340\202\103 \076\373\356\057\147\062\226\065\134\333\270\313\002\320\241\111 \244\107\060\105\061\013\060\011\006\003\125\004\006\023\002\102 \115\061\031\060\027\006\003\125\004\012\023\020\121\165\157\126 \141\144\151\163\040\114\151\155\151\164\145\144\061\033\060\031 $\label{eq:condition} $$ \006\003\125\004\003\022\121\165\157\126\141\144\151\163\040 $$$ \122\157\157\164\040\103\101\040\063\202\002\005\306\060\015\006 $\label{eq:condition} $$ \011\052\206\110\206\367\015\001\001\005\005\000\003\202\002\001 $$$ $\label{eq:condition} $$ \000\117\255\240\054\114\372\300\362\157\367\146\125\253\043\064$$$ \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 $\label{eq:condition} $$ \frac{153}{017}\frac{155}{044}\frac{172}{154}\frac{247}{007}\frac{226}{312}\frac{343}{204}\frac{237}{255}$$ \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 \110\305\256\237\362\057\200\305\352\062\120\065\022\227\056\301 $\label{eq:condition} $$ \frac{341}{377}\frac{361}{043}\frac{210}{121}\frac{070}{237}\frac{362}{146}\frac{126}{166}\frac{347}{017}\frac{121}{227} $$ \245\122\014\115\111\121\225\066\075\277\242\113\014\020\035\206 \231\114\252\363\162\021\223\344\352\366\233\332\250\135\247\115 \267\236\002\256\163\000\310\332\043\003\350\371\352\031\164\142 \000\224\313\042\040\276\224\247\131\265\202\152\276\231\171\172 \251\362\112\044\122\367\164\375\272\116\346\250\035\002\156\261 $\label{eq:condition} $$ \015\200\104\301\256\323\043\067\137\273\205\174\053\222\056\350 $$$ \176\245\213\335\231\341\277\047\157\055\135\252\173\207\376\012 \335\113\374\216\365\046\344\156\160\102\156\063\354\061\236\173 \223\301\344\311\151\032\075\300\153\116\042\155\356\253\130\115 \306\320\101\301\053\352\117\022\207\136\353\105\330\154\365\230 \002\323\240\330\125\212\006\231\031\242\240\167\321\060\236\254 \314\165\356\203\365\260\142\071\317\154\127\342\114\322\221\013 \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 \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 "XRamp Global CA Root" # Issuer: CN=XRamp Global Certification Authority,O=XRamp Security Services Inc,OU=www.xrampsecurity.com,C=US

```
# Serial Number:50:94:6c:ec:18:ea:d5:9c:4d:d5:97:ef:75:8f:a0:ad
```

Subject: CN=XRamp Global Certification Authority,O=XRamp Security Services

Inc,OU=www.xrampsecurity.com,C=US

Not Valid Before: Mon Nov 01 17:14:04 2004 # Not Valid After: Mon Jan 01 05:37:19 2035

Fingerprint (SHA-256):

CE:CD:DC:90:50:99:D8:DA:DF:C5:B1:D2:09:B7:37:CB:E2:C1:8C:FB:2C:10:C0:FF:0B:CF:0D:32:86:FC:1A:A2 #

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

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA MODIFIABLE CK BBOOL CK FALSE

CKA_LABEL UTF8 "XRamp Global CA Root"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL

 $\label{eq:condition} $$ \060\201\202\061\013\060\011\006\003\125\004\006\023\002\125\123$

\162\141\155\160\163\145\143\165\162\151\164\171\056\143\157\155

 $\label{eq:condition} $$ \004\004\004\004\003\125\004\012\023\033\130\122\141\155\160 $$$

 $\\ \\ 040\\ \\ 123\\ 145\\ 143\\ 165\\ 162\\ 151\\ 164\\ 171\\ 040\\ 123\\ 145\\ 162\\ 166\\ 151\\ 143$

 $\label{eq:condition} $$ 145\backslash 163\backslash 040\backslash 111\backslash 156\backslash 143\backslash 061\backslash 055\backslash 060\backslash 053\backslash 006\backslash 003\backslash 125\backslash 004\backslash 003\backslash 023$$

 $\\ \\ 044\\130\\122\\141\\155\\160\\040\\107\\154\\157\\142\\141\\154\\040\\103\\145$

\157\162\151\164\171

END

CKA ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

 $\label{eq:control} $$ \000\201\202\061\013\060\011\006\003\125\004\006\0023\002\125\123\061\036\060\034\006\003\125\0004\013\023\025\167\167\167\056\170\162\141\155\160\163\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\0004\003\125\0004\003\125\0004\003\125\0004\003\125\0004\003\125\0004\003\125\0004\003\125\0004\003\125\0004\003\125\0004\003\125\0004\003\125\0004\003\125\0004\003\125\0004\003\125\0004\103\145\162\164\151\146\151\143\141\164\151\157\156\0040\101\165\164\150\157\162\151\164\171$

END

CKA_SERIAL_NUMBER

MULTILINE_OCTAL

\002\020\120\224\154\354\030\352\325\234\115\325\227\357\165\217 \240\255

END

CKA_VALUE MULTILINE_OCTAL

\060\202\004\060\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 \151\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162 \151\164\171\060\036\027\015\060\064\061\061\060\061\061\067\061 \064\060\064\132\027\015\063\065\060\061\060\061\060\065\063\067 \061\071\132\060\201\202\061\013\060\011\006\003\125\004\006\023 \002\125\123\061\036\060\034\006\003\125\004\013\023\025\167\167 $\label{eq:condition} $$ \frac{167}{056}\frac{170}{162}\frac{141}{155}\frac{160}{163}\frac{145}{143}\frac{165}{162}\frac{151}{164}\frac{171}{056} $$$ \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 $\label{eq:condition} $$ \040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101 $$$ \165\164\150\157\162\151\164\171\060\202\001\042\060\015\006\011 \052\206\110\206\367\015\001\001\001\005\000\003\202\001\017\000 $\label{eq:condition} $$ \000\202\001\001\000\230\044\036\275\025\264\272 $$$ \337\307\214\245\047\266\070\013\151\363\266\116\250\054\056\041 \035\134\104\337\041\135\176\043\164\376\136\176\264\112\267\246 \255\037\256\340\006\026\342\233\133\331\147\164\153\135\200\217 \051\235\206\033\331\234\015\230\155\166\020\050\130\344\145\260 \177\112\230\171\237\340\303\061\176\200\053\265\214\300\100\073 \021\206\320\313\242\206\066\140\244\325\060\202\155\331\156\320 \017\022\004\063\227\137\117\141\132\360\344\371\221\253\347\035 $\label{eq:condition} $$ \073\274\350\317\364\153\055\064\174\342\110\141\034\216\363\141 $$$ \104\314\157\240\112\251\224\260\115\332\347\251\064\172\162\070 \250\101\314\074\224\021\175\353\310\246\214\267\206\313\312\063 $\label{eq:condition} $$ \073\331\075\067\213\373\172\076\206\054\347\163\327\012\127\254$$ \144\233\031\353\364\017\004\010\212\254\003\027\031\144\364\132 \045\042\215\064\054\262\366\150\035\022\155\323\212\036\024\332 \304\217\246\342\043\205\325\172\015\275\152\340\351\354\354\027 \273\102\033\147\252\045\355\105\203\041\374\301\311\174\325\142 \076\372\362\305\055\323\375\324\145\002\003\001\000\001\243\201 \237\060\201\234\060\023\006\011\053\006\001\004\001\202\067\024 $\label{eq:condition} $$ \002\004\006\036\004\000\103\000\101\060\013\006\003\125\035\017 $$$ $\label{eq:condition} $$ \004\004\003\002\001\206\060\017\006\003\125\035\023\001\001\377 $$$ $\\ \\004\\005\\060\\003\\001\\001\\377\\060\\035\\006\\003\\125\\035\\016\\004\\026$ \004\024\306\117\242\075\006\143\204\011\234\316\142\344\004\254 \215\134\265\351\266\033\060\066\006\003\125\035\037\004\057\060 $\label{eq:condition} $$ \055\060\053\240\051\240\047\206\045\150\164\164\160\072\057\057$ \143\162\154\056\170\162\141\155\160\163\145\143\165\162\151\164 $\label{eq:condition} $$ \frac{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:condition} $$ \202\001\000\221\025\071\003\001\033\147\373\112\034\371\012 $$$

\140\133\241\332\115\227\142\371\044\123\047\327\202\144\116\220 \056\303\111\033\053\232\334\374\250\170\147\065\361\035\360\021 \275\267\110\343\020\366\015\337\077\322\311\266\252\125\244\110 \272\002\333\336\131\056\025\133\073\235\026\175\107\327\067\352 \137\115\166\022\066\273\037\327\241\201\004\106\040\243\054\155 \251\236\001\176\077\051\316\000\223\337\375\311\222\163\211\211 \144\236\347\053\344\034\221\054\322\271\316\175\316\157\061\231 \323\346\276\322\036\220\360\011\024\171\134\043\253\115\322\332 \041\037\115\231\171\235\341\317\047\237\020\233\034\210\015\260 \212\144\101\061\270\016\154\220\044\244\233\134\161\217\272\273 \176\034\033\333\152\200\017\041\274\351\333\246\267\100\364\262 \213\251\261\344\357\232\032\320\075\151\231\356\250\050\243\341 \074\263\360\262\021\234\317\174\100\346\335\347\103\175\242\330 \072\265\251\215\362\064\231\304\324\020\341\006\375\011\204\020 $\label{eq:condition} $$ \073\356\304\114\364\354\047\174\102\302\164\174\202\212\011\311$ \264\003\045\274

END

CKA NSS MOZILLA CA POLICY

CK BBOOL CK TRUE

CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA NSS EMAIL DISTRUST AFTER CK_BBOOL CK_FALSE

Trust for "XRamp Global CA Root"

Issuer: CN=XRamp Global Certification Authority,O=XRamp Security Services

Inc,OU=www.xrampsecurity.com,C=US

Serial Number:50:94:6c:ec:18:ea:d5:9c:4d:d5:97:ef:75:8f:a0:ad

Subject: CN=XRamp Global Certification Authority,O=XRamp Security Services

Inc,OU=www.xrampsecurity.com,C=US

Not Valid Before: Mon Nov 01 17:14:04 2004

Not Valid After: Mon Jan 01 05:37:19 2035

Fingerprint (SHA-256):

CE:CD:DC:90:50:99:D8:DA:DF:C5:B1:D2:09:B7:37:CB:E2:C1:8C:FB:2C:10:C0:FF:0B:CF:0D:32:86:FC:1A:A2

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

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "XRamp Global CA Root"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL

 $\label{eq:condition} $$ \270\001\206\321\353\234\206\245\101\004\317\060\124\363\114\122 $$$

\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

 $\label{eq:condition} $$ \060\201\202\061\013\060\011\006\003\125\004\006\023\002\125\123$

```
\061\036\060\034\006\003\125\004\013\023\025\167\167\167\056\170
\162\141\155\160\163\145\143\165\162\151\164\171\056\143\157\155
\061\044\060\042\006\003\125\004\012\023\033\130\122\141\155\160
\\ \\ 040\\ \\ 123\\ 145\\ 143\\ 165\\ 162\\ 151\\ 164\\ 171\\ 040\\ 123\\ 145\\ 162\\ 166\\ 151\\ 143
\145\163\040\111\156\143\061\055\060\053\006\003\125\004\003\023
\044\130\122\141\155\160\040\107\154\157\142\141\154\040\103\145
\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150
\157\162\151\164\171
END
CKA SERIAL NUMBER MULTILINE OCTAL
\label{eq:condition} $$ \002\020\120\224\154\354\030\352\325\234\115\325\227\357\165\217 $$
\240\255
END
{\tt CKA\_TRUST\_SERVER\_AUTH\ CK\_TRUST\ CKT\_NSS\_TRUSTED\_DELEGATOR}
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA TRUST CODE SIGNING
 CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA TRUST STEP UP APPROVED CK BBOOL CK FALSE
# Certificate "Go Daddy Class 2 CA"
# Issuer: OU=Go Daddy Class 2 Certification Authority,O="The Go Daddy Group, Inc.",C=US
# Serial Number: 0 (0x0)
# Subject: OU=Go Daddy Class 2 Certification Authority,O="The Go Daddy Group, Inc.",C=US
# Not Valid Before: Tue Jun 29 17:06:20 2004
# Not Valid After: Thu Jun 29 17:06:20 2034
# Fingerprint (SHA-256):
C3:84:6B:F2:4B:9E:93:CA:64:27:4C:0E:C6:7C:1E:CC:5E:02:4F:FC:AC:D2:D7:40:19:35:0E:81:FE:54:6A:E4
# Fingerprint (SHA1): 27:96:BA:E6:3F:18:01:E2:77:26:1B:A0:D7:77:70:02:8F:20:EE:E4
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA MODIFIABLE CK BBOOL CK FALSE
CKA_LABEL UTF8 "Go Daddy Class 2 CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA SUBJECT MULTILINE OCTAL
\060\143\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\\ \\ \langle 041 \rangle 060 \rangle 037 \rangle 006 \rangle 003 \rangle 125 \rangle 004 \rangle 012 \rangle 023 \rangle 030 \rangle 124 \rangle 150 \rangle 145 \rangle 040 \rangle 107 \rangle 157 \rangle 126 \rangle 127 
\\ \\ \langle 040 \rangle 104 \rangle 141 \rangle 144 \rangle 144 \rangle 171 \rangle 040 \rangle 107 \rangle 162 \rangle 157 \rangle 165 \rangle 160 \rangle 054 \rangle 040 \rangle 111 \rangle 156
\143\056\061\061\060\057\006\003\125\004\013\023\050\107\157\040
\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
```

 $\label{eq:condition} $$ \000143\061\013\060\011\006\003\125\004\006\023\002\125\123\061\041\060\037\006\003\125\004\012\023\030\124\150\145\040\107\157\040\111\156\143\056\061\061\060\057\006\003\125\004\013\023\050\107\157\040\104\141\144\144\171\040\103\154\141\163\163\040\062\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171$$

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

\002\001\000

END

CKA VALUE MULTILINE OCTAL

\060\202\004\000\060\202\002\350\240\003\002\001\002\002\001\000 $\label{eq:condition} $$ \006\011\052\206\110\206\367\015\001\001\005\005\000\060 $$$ \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 \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 \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 $\label{eq:condition} $$ \066\062\060\132\060\143\061\013\060\011\006\003\125\004\006\023 $$$ \002\125\123\061\041\060\037\006\003\125\004\012\023\030\124\150 \145\040\107\157\040\104\141\144\144\171\040\107\162\157\165\160 \054\040\111\156\143\056\061\061\060\057\006\003\125\004\013\023 \050\107\157\040\104\141\144\144\171\040\103\154\141\163\163\040 $\\ \backslash 062 \backslash 040 \backslash 103 \backslash 145 \backslash 162 \backslash 164 \backslash 151 \backslash 146 \backslash 151 \backslash 143 \backslash 141 \backslash 164 \backslash 151 \backslash 157 \backslash 156 \backslash 040$ \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 $\label{eq:condition} $$ \000\060\202\001\010\002\202\001\001\000\336\235\327\352\127\030 $$$ \111\241\133\353\327\137\110\206\352\276\335\377\344\357\147\034 \364\145\150\263\127\161\240\136\167\273\355\233\111\351\160\200 \075\126\030\143\010\157\332\362\314\320\077\177\002\124\042\124 \020\330\262\201\324\300\165\075\113\177\307\167\303\076\170\253 \032\003\265\040\153\057\152\053\261\305\210\176\304\273\036\260 \301\330\105\047\157\252\067\130\367\207\046\327\330\055\366\251 $\label{eq:condition} $$ \027\267\037\162\066\116\246\027\077\145\230\222\333\052\156\135 $$$ \242\376\210\340\013\336\177\345\215\025\341\353\313\072\325\342 $\label{eq:condition} $$ \022\242\023\055\330\216\257\137\022\075\240\010\005\010\266\134$$$ \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 $\label{eq:condition} $$ \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:condition} $$ \040\12\023\030\124\150\145\040\107\157\040\104\141\144\144\171 $$$ \040\107\162\157\165\160\054\040\111\156\143\056\061\061\060\057 $\label{eq:condition} $$ \006\003\125\004\013\023\050\107\157\040\104\141\144\144\171\040 $$$ \141\164\151\157\156\040\101\165\164\150\157\162\151\164\171\202 $\label{eq:condition} $$ \001\000\060\014\006\003\125\035\023\004\005\060\003\001\001\377 $$$ $\label{eq:condition} $$ \006\011\052\206\110\206\367\015\001\001\005\005\000\003$ \202\001\001\000\062\113\363\262\312\076\221\374\022\306\241\007 \214\216\167\240\063\006\024\134\220\036\030\367\010\246\075\012 $\label{eq:condition} $$ \031\371\207\200\021\156\151\344\226\027\060\377\064\221\143\162 $$$ \070\356\314\034\001\243\035\224\050\244\061\366\172\304\124\327 \366\345\061\130\003\242\314\316\142\333\224\105\163\265\277\105 \311\044\265\325\202\002\255\043\171\151\215\270\266\115\316\317 \114\312\063\043\350\034\210\252\235\213\101\156\026\311\040\345 \211\236\315\073\332\160\367\176\231\046\040\024\124\045\253\156 \163\205\346\233\041\235\012\154\202\016\250\370\302\014\372\020 $\label{eq:condition} $$ \036\154\226\357\207\015\304\017\141\213\255\356\203\053\225\370$$$ \216\222\204\162\071\353\040\352\203\355\203\315\227\156\010\274 \353\116\046\266\163\053\344\323\366\114\376\046\161\342\141\021 \022\141\225\325\321\100\262\020\114\356\304\254\020\103\246\245 \236\012\325\225\142\232\015\317\210\202\305\062\014\344\053\237 $\label{eq:condition} $$ 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"
```

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

[#] 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_LABEL UTF8 "Go Daddy Class 2 CA"
CKA CERT SHA1 HASH MULTILINE OCTAL
\\ \\ \langle 047 \rangle 226 \rangle 272 \rangle 346 \rangle 077 \rangle 030 \rangle 001 \rangle 342 \rangle 167 \rangle 046 \rangle 033 \rangle 240 \rangle 327 \rangle 167 \rangle 160 \rangle 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
\label{eq:condition} $$ \060\143\061\013\060\011\006\003\125\004\006\023\002\125\123\061\
\label{eq:condition} $$ \041\060\037\006\003\125\004\012\023\030\124\150\145\040\107\157 
\040\104\141\144\144\171\040\107\162\157\165\160\054\040\111\156
\label{eq:condition} $$ 143\056\061\060\057\006\003\125\004\013\023\050\107\157\040 $$
\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150
\157\162\151\164\171
END
CKA SERIAL NUMBER MULTILINE OCTAL
\002\001\000
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA TRUST CODE SIGNING CK TRUST CKT NSS MUST VERIFY TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
# Certificate "Starfield Class 2 CA"
# Issuer: OU=Starfield Class 2 Certification Authority,O="Starfield Technologies, Inc.",C=US
# Serial Number: 0 (0x0)
# Subject: OU=Starfield Class 2 Certification Authority,O="Starfield
Technologies, Inc.", C=US
# Not Valid Before: Tue Jun 29 17:39:16 2004
# Not Valid After: Thu Jun 29 17:39:16 2034
# Fingerprint (SHA-256):
14:65:FA:20:53:97:B8:76:FA:A6:F0:A9:95:8E:55:90:E4:0F:CC:7F:AA:4F:B7:C2:C8:67:75:21:FB:5F:B6:58
# Fingerprint (SHA1): AD:7E:1C:28:B0:64:EF:8F:60:03:40:20:14:C3:D0:E3:37:0E:B5:8A
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Starfield Class 2 CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\150\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\045\060\043\006\003\125\004\012\023\034\123\164\141\162\146\151
\145\154\144\040\124\145\143\150\156\157\154\157\147\151\145\163
```

\054\040\111\156\143\056\061\062\060\060\060\006\003\125\004\013\023 \051\123\164\141\162\146\151\145\154\144\040\103\154\141\163\163 \040\062\040\103\145\162\164\151\146\151\143\141\164\151\157\156 \040\101\165\164\150\157\162\151\164\171

END

CKA ID

UTF8 "0"

CKA ISSUER MULTILINE OCTAL

 $\label{eq:condition} $$ \060\150\061\013\060\011\006\003\125\004\006\023\002\125\123\061\045\060\043\006\003\125\004\012\023\034\123\164\141\162\146\151\145\157\154\157\147\151\145\163\054\040\111\156\143\056\061\062\060\060\006\003\125\004\013\023\051\123\164\141\162\146\151\145\154\144\040\103\154\141\163\163\040\062\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\157\162\151\164\171$$

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

\002\001\000

END

CKA_VALUE MULTILINE_OCTAL

\060\202\004\017\060\202\002\367\240\003\002\001\002\002\001\000 \060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060 \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\066\003\125\004\013\023\051 \123\164\141\162\146\151\145\154\144\040\103\154\141\163\163\040 $\\ \backslash 062 \backslash 040 \backslash 103 \backslash 145 \backslash 162 \backslash 164 \backslash 151 \backslash 146 \backslash 151 \backslash 143 \backslash 141 \backslash 164 \backslash 151 \backslash 157 \backslash 156 \backslash 040$ \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 $\\ \begin{tabular}{l} $\langle 062 \rangle 071 \rangle 061 \rangle 063 \rangle 071 \rangle 061 \rangle 066 \rangle 132 \rangle 060 \rangle 150 \rangle 061 \rangle 013 \rangle 060 \rangle 011 \rangle 066 \rangle 011 \rangle 066 \rangle 011 \rangle 011$ \003\125\004\006\023\002\125\123\061\045\060\043\006\003\125\004 \012\023\034\123\164\141\162\146\151\145\154\144\040\124\145\143 \150\156\157\154\157\147\151\145\163\054\040\111\156\143\056\061 \062\060\060\006\003\125\004\013\023\051\123\164\141\162\146\151 \145\154\144\040\103\154\141\163\163\040\062\040\103\145\162\164 \151\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162 \151\164\171\060\202\001\040\060\015\006\011\052\206\110\206\367 \202\001\001\000\267\062\310\376\351\161\246\004\205\255\014\021 \144\337\316\115\357\310\003\030\207\077\241\253\373\074\246\237 \360\303\241\332\324\330\156\053\123\220\373\044\244\076\204\360 \236\350\137\354\345\047\104\365\050\246\077\173\336\340\052\360 \310\257\123\057\236\312\005\001\223\036\217\146\034\071\247\115 $\label{eq:condition} $$ 372\132\266\163\004\045\146\353\167\177\347\131\306\112\231\045$$ \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 $\label{eq:condition} $$ \053\205\046\222\034\247\002\263\344\077\015\257\010\171\202\270 $$$ \066\075\352\234\323\065\263\274\151\312\365\314\235\350\375\144 \215\027\200\063\156\136\112\135\231\311\036\207\264\235\032\300 \325\156\023\065\043\136\337\233\137\075\357\326\367\166\302\352 \076\273\170\015\034\102\147\153\004\330\370\326\332\157\213\362 \104\240\001\253\002\001\003\243\201\305\060\201\302\060\035\006 $\label{eq:condition} $$ \03125\035\016\004\026\004\024\277\137\267\321\316\335\037\206 $$$ \364\133\125\254\334\327\020\302\016\251\210\347\060\201\222\006 $\label{eq:condition} $$ \03125\035\043\004\201\212\060\201\207\200\024\277\137\267\321 $$$ \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 $\label{eq:condition} $$ \002\125\123\061\045\060\043\006\003\125\004\012\023\034\123\164$$$ $\\ 141\\162\\146\\151\\145\\145\\144\\040\\124\\145\\143\\150\\156\\157\\154\\157$ \147\151\145\163\054\040\111\156\143\056\061\062\060\060\006\003 \125\004\013\023\051\123\164\141\162\146\151\145\154\144\040\103 \154\141\163\163\040\062\040\103\145\162\164\151\146\151\143\141 \164\151\157\156\040\101\165\164\150\157\162\151\164\171\202\001 $\label{eq:condition} $$ \000\060\014\006\003\125\035\023\004\005\060\003\001\001\377\060 $$$ \015\006\011\052\206\110\206\367\015\001\001\005\005\000\003\202 $\label{eq:condition} $$ \001\000\005\235\077\210\235\321\311\032\125\241\254\151\363$ $\label{eq:condition} $$ 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 $\label{eq:condition} $$ 167\006\101\130\142\277\216\130\270\012\147\077\354\263\335\041 $$$ \146\037\311\124\372\162\314\075\114\100\330\201\257\167\236\203 \172\273\242\307\365\064\027\216\331\021\100\364\374\054\052\115 $\label{eq:condition} $$ \025\177\247\142\135\056\045\323\000\013\040\032\035\150\371\027$ \270\364\275\213\355\050\131\335\115\026\213\027\203\310\262\145 \307\055\172\245\252\274\123\206\155\335\127\244\312\370\040\101 $\label{eq:condition} $$ \013\150\360\364\373\164\276\126\135\172\171\365\371\035\205\343 $$$ \055\225\276\365\161\220\103\314\215\037\232\000\012\207\051\351 \125\042\130\000\043\352\343\022\103\051\133\107\010\335\214\101 \152\145\006\250\345\041\252\101\264\225\041\225\271\175\321\064 \253\023\326\255\274\334\342\075\071\315\275\076\165\160\241\030 \131\003\311\042\264\217\234\325\136\052\327\245\266\324\012\155 \370\267\100\021\106\232\037\171\016\142\277\017\227\354\340\057 \037\027\224

END

CKA_NSS_MOZILLA_CA_POLICY

CK_BBOOL CK_TRUE

CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "Starfield Class 2 CA"

Issuer: OU=Starfield

Class 2 Certification Authority, O="Starfield Technologies, Inc.", C=US

Serial Number: 0 (0x0)

```
# Subject: OU=Starfield Class 2 Certification Authority,O="Starfield Technologies, Inc.",C=US
# Not Valid Before: Tue Jun 29 17:39:16 2004
# Not Valid After: Thu Jun 29 17:39:16 2034
# Fingerprint (SHA-256):
14:65:FA:20:53:97:B8:76:FA:A6:F0:A9:95:8E:55:90:E4:0F:CC:7F:AA:4F:B7:C2:C8:67:75:21:FB:5F:B6:58
# Fingerprint (SHA1): AD:7E:1C:28:B0:64:EF:8F:60:03:40:20:14:C3:D0:E3:37:0E:B5:8A
CKA CLASS CK OBJECT CLASS CKO NSS TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA MODIFIABLE CK BBOOL CK FALSE
CKA_LABEL UTF8 "Starfield Class 2 CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\255\176\034\050\260\144\357\217\140\003\100\040\024\303\320\343
\067\016\265\212
END
CKA CERT MD5 HASH MULTILINE OCTAL
\062\112\113\273\310\143\151\233\276\164\232\306\335\035\106\044
END
CKA ISSUER MULTILINE OCTAL
\label{eq:condition} $$ \060\150\061\013\060\011\006\003\125\004\006\023\002\125\123\061\
\045\060\043\006\003\125\004\012\023\034\123\164\141\162\146\151
\\ 145\\154\\144\\040\\124\\145\\143\\150\\156\\157\\154\\157\\147\\151\\145\\163
\begin{tabular}{l} $$ \begin{tabular}{l} $0.54 \ 0.40 \ 1.11 \ 1.56 \ 1.43 \ 0.56 \ 0.61 \ 0.62 \ 0.60 \ 0.60 \ 0.060 \ 0.03 \ 1.25 \ 0.04 \ 0.13 \ 0.23 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0.060 \ 0
\051\123\164\141\162\146\151\145\154\144\040\103\154\141\163\163
\040\062\040\103\145\162\164\151\146\151\143\141\164\151\157\156
\040\101\165\164\150\157\162\151\164\171
END
CKA_SERIAL_NUMBER
MULTILINE OCTAL
\002\001\000
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
# Certificate "DigiCert Assured ID Root CA"
# Issuer: CN=DigiCert Assured ID Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
# Serial Number:0c:e7:e0:e5:17:d8:46:fe:8f:e5:60:fc:1b:f0:30:39
# Subject: CN=DigiCert Assured ID Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Fri Nov 10 00:00:00 2006
# Not Valid After: Mon Nov 10 00:00:00 2031
# Fingerprint (SHA-256):
 3E:90:99:B5:01:5E:8F:48:6C:00:BC:EA:9D:11:1E:E7:21:FA:BA:35:5A:89:BC:F1:DF:69:56:1E:3D:C6:32:5C
# Fingerprint (SHA1): 05:63:B8:63:0D:62:D7:5A:BB:C8:AB:1E:4B:DF:B5:A8:99:B2:4D:43
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
```

CKA_TOKEN CK_BBOOL CK_TRUE

CKA PRIVATE CK BBOOL CK FALSE

CKA MODIFIABLE CK BBOOL CK FALSE

CKA_LABEL UTF8 "DigiCert Assured ID Root CA"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509 CKA SUBJECT MULTILINE OCTAL

 $\label{eq:condition} $$ \00145\061\013\060\011\006\003\125\004\006\023\002\125\123\061\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157\155\061\044\060\042\006\003\125\004\003\023\033\104\151\147\151\103\145\162\164\040\101\163\165\162\145\144\040\111\104\040\122\157\157\164\040\103\101$

END

CKA ID UTF8 "0"

CKA ISSUER MULTILINE OCTAL

 $\label{eq:condition} $$ \00145\061\013\060\011\006\003\125\004\006\023\002\125\123\061\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157\155\061\044\060\042\006\003\125\004\003\023\033\104\151\147\151\103\145\162\164\040\101\163\165\162\145\144\040\111\104\040\122\157\157\164\040\103\101$

END

CKA_SERIAL_NUMBER

MULTILINE_OCTAL

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

END

CKA VALUE MULTILINE OCTAL

 $\label{eq:condition} $$ \060\202\003\267\060\202\002\237\240\003\002\001\002\002\002\0014$ \347\340\345\027\330\106\376\217\345\140\374\033\360\060\071\060 \015\006\011\052\206\110\206\367\015\001\001\005\005\000\060\145 \061\013\060\011\006\003\125\004\006\023\002\125\123\061\025\060 \023\006\003\125\004\012\023\014\104\151\147\151\103\145\162\164 \040\111\156\143\061\031\060\027\006\003\125\004\013\023\020\167 \167\167\056\144\151\147\151\143\145\162\164\056\143\157\155\061 \044\060\042\006\003\125\004\003\023\033\104\151\147\151\103\145 $\label{eq:condition} $$ 162\164\040\101\163\163\165\162\145\144\040\111\104\040\122\157$$ \157\164\040\103\101\060\036\027\015\060\066\061\061\061\060\060 \060\060\060\060\060\132\027\015\063\061\061\061\061\060\060\060 \060\060\060\060\132\060\145\061\013\060\011\006\003\125\004\006 \023\002\125\123\061\025\060\023\006\003\125\004\012\023\014\104 \151\147\151\103\145\162\164\040\111\156\143\061\031\060\027\006 \003\125\004\013\023\020\167\167\167\056\144\151\147\151\143\145 \162\164\056\143\157\155\061\044\060\042\006\003\125\004\003\023 \033\104\151\147\151\103\145\162\164\040\101\163\163\165\162\145 \144\040\111\104\040\122\157\157\164\040\103\101\060\202\001\042

\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003 \202\001\017\000\060\202\001\012\002\202\001\001\000\255\016\025 \316\344\103\200\134\261\207\363\267\140\371\161\022\245\256\334 \046\224\210\252\364\316\365\040\071\050\130\140\014\370\200\332 \251\025\225\062\141\074\265\261\050\204\212\212\334\237\012\014 \203\027\172\217\220\254\212\347\171\123\134\061\204\052\366\017 \230\062\066\166\314\336\335\074\250\242\357\152\373\041\362\122 \141\337\237\040\327\037\342\261\331\376\030\144\322\022\133\137 $\label{eq:condition} $$ \371\130\030\065\274\107\315\241\066\371\153\177\324\260\070\076$ \301\033\303\214\063\331\330\057\030\376\050\017\263\247\203\326 \303\156\104\300\141\065\226\026\376\131\234\213\166\155\327\361 \242\113\015\053\377\013\162\332\236\140\320\216\220\065\306\170 \125\207\040\241\317\345\155\012\310\111\174\061\230\063\154\042 \351\207\320\062\132\242\272\023\202\021\355\071\027\235\231\072 $\label{eq:condition} $$ 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 $\label{eq:condition} $$ \004\004\003\002\001\206\060\017\006\003\125\035\023\001\001\377 $$$ \004\005\060\003\001\001\377\060\035\006\003\125\035\016\004\026 \004\024\105\353\242\257\364\222\313\202\061\055\121\213\247\247 $\\ \langle 041 \rangle 235 \rangle 363 \rangle 155 \rangle 310 \rangle 017 \rangle 060 \rangle 037 \rangle 006 \rangle 003 \rangle 125 \rangle 035 \rangle 043 \rangle 004 \rangle 030 \rangle 060$ \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 \355\360\343\162\163\172\144\224\277\367\162\146\330\062\344\102 $\label{eq:condition} $$ 165\142\256\207\353\362\325\331\336\126\263\237\314\316\024\050 $$$ \271\015\227\140\134\022\114\130\344\323\075\203\111\105\130\227 \065\151\032\250\107\352\126\306\171\253\022\330\147\201\204\337 $\label{eq:condition} $$ \frac{177}011\\074\\224\\346\\270\\046\\054\\040\\275\\075\\263\\050\\211\\367\\137$ \377\042\342\227\204\037\351\145\357\207\340\337\301\147\111\263 \135\353\262\011\052\353\046\355\170\276\175\077\053\363\267\046 \065\155\137\211\001\266\111\133\237\001\005\233\253\075\045\301 \314\266\177\302\361\157\206\306\372\144\150\353\201\055\224\353 \102\267\372\214\036\335\142\361\276\120\147\267\154\275\363\361 \037\153\014\066\007\026\177\067\174\251\133\155\172\361\022\106 \140\203\327\047\004\276\113\316\227\276\303\147\052\150\021\337 $\label{eq:condition} $$ \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

```
# Issuer: CN=DigiCert Assured ID Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
# Serial Number:0c:e7:e0:e5:17:d8:46:fe:8f:e5:60:fc:1b:f0:30:39
# Subject: CN=DigiCert Assured ID Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Fri Nov 10 00:00:00 2006
# Not Valid After: Mon Nov 10 00:00:00 2031
# Fingerprint (SHA-256):
3E:90:99:B5:01:5E:8F:48:6C:00:BC:EA:9D:11:1E:E7:21:FA:BA:35:5A:89:BC:F1:DF:69:56:1E:3D:C6:32:5C
# Fingerprint (SHA1): 05:63:B8:63:0D:62:D7:5A:BB:C8:AB:1E:4B:DF:B5:A8:99:B2:4D:43
CKA CLASS
CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA PRIVATE CK BBOOL CK FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Assured ID Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\005\143\270\143\015\142\327\132\273\310\253\036\113\337\265\250
\231\262\115\103
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\207\316\013\173\052\016\111\000\341\130\161\233\067\250\223\162
END
CKA_ISSUER MULTILINE_OCTAL
\060\145\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\label{eq:condition} $$ \frac{155}{061}\frac{044}{060}\frac{042}{006}\frac{125}{004}\frac{03}{023}\frac{33}{104}\frac{151}{147}\frac{151}{151} 
\103\145\162\164\040\101\163\163\165\162\145\144\040\111\104\040
\122\157\157\164\040\103\101
END
CKA SERIAL NUMBER MULTILINE OCTAL
\002\020\014\347\340\345\027\330\106\376\217\345\140\374\033\360
\060\071
END
CKA_TRUST_SERVER_AUTH
CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
# Certificate "DigiCert Global Root CA"
# Issuer: CN=DigiCert Global Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
# Serial Number:08:3b:e0:56:90:42:46:b1:a1:75:6a:c9:59:91:c7:4a
# Subject: CN=DigiCert Global Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Fri Nov 10 00:00:00 2006
```

Trust for "DigiCert Assured ID Root CA"

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:condition} $$ \000141\0013\006\0011\006\003\125\004\0023\002\125\123\061\025\006\0023\006\003\125\004\012\023\014\104\151\147\151\103\145\162\164\040\111\156\143\061\031\060\0027\006\003\125\004\0013\023\027\104\151\147\157\155\061\040\060\036\006\003\125\004\003\023\027\104\151\147\151\103\145\162\164\040\107\154\157\142\141\154\040\122\157\157\164\040\103\101$

END

CKA ID UTF8 "0"

CKA ISSUER MULTILINE OCTAL

 $\label{eq:condition} $$ \000141\0013\006\0011\006\003\125\004\0023\002\125\123\061\025\006\0023\006\003\125\004\012\023\014\104\151\147\151\103\145\162\164\040\111\156\143\061\031\060\0027\006\003\125\004\013\023\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157\155\061\040\060\036\006\003\125\004\003\023\027\104\151\147\151\103\145\162\164\040\107\154\157\142\141\154\040\122\157\157\164\040\103\101$

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

\002\020\010\073\340\126\220\102\106\261\241\165\152\311\131\221 \307\112

END

CKA VALUE

MULTILINE OCTAL

\061\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103 \145\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013 \023\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143 \157\155\061\040\060\036\006\003\125\004\003\023\027\104\151\147 \151\103\145\162\164\040\107\154\157\142\141\154\040\122\157\157 $\label{eq:condition} $$ 164\040\103\101\060\202\001\042\060\015\006\011\052\206\110\206$ \367\015\001\001\001\005\000\003\202\001\017\000\060\202\001\012 \002\202\001\001\000\342\073\341\021\162\336\250\244\323\243\127 \252\120\242\217\013\167\220\311\242\245\356\022\316\226\133\001 \011\040\314\001\223\247\116\060\267\123\367\103\304\151\000\127 \235\342\215\042\335\207\006\100\000\201\011\316\316\033\203\277 $\label{eq:condition} $$ 37\315\073\161\106\342\326\146\307\005\263\166\047\026\217\173$ \236\036\225\175\356\267\110\243\010\332\326\257\172\014\071\006 $\label{eq:condition} $$ \frac{145}177\frac{135}037\frac{274}027\frac{370}253\frac{276}356050\frac{327}{164}\frac{177}{172}$$ $\label{eq:condition} $$ \frac{170}231\\131\\205\\150\\156\\134\\043\\062\\113\\277\\116\\300\\350\\132\\155$ \343\160\277\167\020\277\374\001\366\205\331\250\104\020\130\062 \251\165\030\325\321\242\276\107\342\047\152\364\232\063\370\111 \010\140\213\324\137\264\072\204\277\241\252\112\114\175\076\317 \117\137\154\166\136\240\113\067\221\236\334\042\346\155\316\024 \032\216\152\313\376\315\263\024\144\027\307\133\051\236\062\277 \362\356\372\323\013\102\324\253\267\101\062\332\014\324\357\370 \201\325\273\215\130\077\265\033\350\111\050\242\160\332\061\004 $\label{eq:condition} $$ \frac{335}{367} 262 (026) 362 (114) 012 (116) 007 (250) 355 (112) 075 (136) 265 (177) (196) 367 (196) 36$ \243\220\303\257\047\002\003\001\000\001\243\143\060\141\060\016 \006\003\125\035\017\001\001\377\004\004\003\002\001\206\060\017 $\\ \\006\\ \\003\\ \\125\\ \\035\\ \\023\\ \\001\\ \\001\\ \\377\\ \\004\\ \\005\\ \\060\\ \\003\\ \\001\\ \\001\\ \\377\\ \\060$ \035\006\003\125\035\016\004\026\004\024\003\336\120\065\126\321 \114\273\146\360\243\342\033\033\303\227\262\075\321\125\060\037 \006\003\125\035\043\004\030\060\026\200\024\003\336\120\065\126 \321\114\273\146\360\243\342\033\033\303\227\262\075\321\125\060 $\label{eq:condition} $$ \015\006\011\052\206\110\206\367\015\001\001\005\005\000\003\202 $$$ \001\001\000\313\234\067\252\110\023\022\012\372\335\104\234\117 \122\260\364\337\256\004\365\171\171\010\243\044\030\374\113\053 \204\300\055\271\325\307\376\364\301\037\130\313\270\155\234\172 \164\347\230\051\253\021\265\343\160\240\241\315\114\210\231\223 \214\221\160\342\253\017\034\276\223\251\377\143\325\344\007\140 \323\243\277\235\133\011\361\325\216\343\123\364\216\143\372\077 \247\333\264\146\337\142\146\326\321\156\101\215\362\055\265\352 \167\112\237\235\130\342\053\131\300\100\043\355\055\050\202\105 $\label{eq:condition} $$ \076\171\124\222\046\230\340\200\110\250\067\357\360\326\171\140 $$$ \026\336\254\350\016\315\156\254\104\027\070\057\111\332\341\105 \076\052\271\066\123\317\072\120\006\367\056\350\304\127\111\154 \141\041\030\325\004\255\170\074\054\072\200\153\247\353\257\025 \024\351\330\211\301\271\070\154\342\221\154\212\377\144\271\167 \045\127\060\300\033\044\243\341\334\351\337\107\174\265\264\044 \010\005\060\354\055\275\013\277\105\277\120\271\251\363\353\230 \001\022\255\310\210\306\230\064\137\215\012\074\306\351\325\225 \225\155\336

```
END
```

CKA NSS MOZILLA CA POLICY

CK_BBOOL CK_TRUE

CKA_NSS_SERVER_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:C4:B2:D7:D6:6D:40:C6:DD:2F:B1:9C:54:36
- CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
- CKA TOKEN CK BBOOL CK TRUE
- CKA_PRIVATE CK_BBOOL CK_FALSE
- CKA_MODIFIABLE CK_BBOOL CK_FALSE
- CKA LABEL UTF8 "DigiCert Global Root CA"
- CKA_CERT_SHA1_HASH MULTILINE_OCTAL
- \250\230\135\072\145\345\345\304\262\327\326\155\100\306\335\057

\261\234\124\066

END

CKA CERT MD5 HASH MULTILINE OCTAL

\171\344\251\204\015\175\072\226\327\300\117\342\103\114\211\056

END

CKA ISSUER MULTILINE OCTAL

\060\141\061\013\060\011\006\003\125\004\006\023\002\125\123\061

 $\label{eq:condition} $$ \025\06\003\006\003\125\004\012\023\014\104\151\147\151\103\145 $$$

 $\label{eq:condition} $$ 162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023$

 $\label{eq:condition} $$ \020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157$$$

\155\061\040\060\036\006\003\125\004\003\023\027\104\151\147\151

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

\040\103\101

END

CKA_SERIAL_NUMBER

MULTILINE_OCTAL

 $\label{eq:condition} $$ \002\020\010\073\340\126\220\102\106\261\241\165\152\311\131\221 $$$

\307\112

END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR

CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR

CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST

CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#

```
# Certificate "DigiCert High Assurance EV Root CA"
```

#

- # Issuer: CN=DigiCert High Assurance EV Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
- # Serial Number:02:ac:5c:26:6a:0b:40:9b:8f:0b:79:f2:ae:46:25:77
- # Subject: CN=DigiCert High Assurance EV Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
- # Not Valid Before: Fri Nov 10 00:00:00 2006
- # Not Valid After: Mon Nov 10 00:00:00 2031
- # Fingerprint (SHA-256):
- 74:31:E5:F4:C3:C1:CE:46:90:77:4F:0B:61:E0:54:40:88:3B:A9:A0:1E:D0:0B:A6:AB:D7:80:6E:D3:B1:18:CF
- # Fingerprint (SHA1): 5F:B7:EE:06:33:E2:59:DB:AD:0C:4C:9A:E6:D3:8F:1A:61:C7:DC:25
- CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
- CKA TOKEN CK BBOOL CK TRUE
- CKA_PRIVATE CK_BBOOL CK_FALSE
- CKA_MODIFIABLE CK_BBOOL CK_FALSE
- CKA_LABEL UTF8 "DigiCert High Assurance EV Root CA"
- CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
- CKA SUBJECT MULTILINE OCTAL
- \060\154\061\013\060\011\006\003\125\004\006\023\002\125\123\061
- $\label{eq:condition} $$ \025\06\003\006\003\125\004\012\023\014\104\151\147\151\103\145 $$$
- \162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
- $\label{eq:condition} $$ \020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157$$$
- $\label{eq:condition} $$ \frac{155 \cdot 061 \cdot 053 \cdot 060 \cdot 051 \cdot 006 \cdot 003 \cdot 125 \cdot 004 \cdot 003 \cdot 023 \cdot 042 \cdot 104 \cdot 151 \cdot 147 \cdot 151}{151 \cdot 006 \cdot 0051 \cdot 006 \cdot 003 \cdot 125 \cdot 004 \cdot 003 \cdot 023 \cdot 042 \cdot 104 \cdot 151 \cdot 147 \cdot 151}$
- \156\143\145\040\105\126\040\122\157\157\164\040\103\101

END

CKA ID

UTF8 "0"

CKA ISSUER MULTILINE OCTAL

 $\label{eq:condition} $$ \00154\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\004\0111\156\143\160\1031\060\027\006\003\125\004\0013\125\004\013\125\004\103\145\162\164\056\143\157\155\061\053\060\051\006\003\125\004\003\023\042\104\151\147\151\103\145\162\164\040\110\151\147\150\040\101\163\163\165\162\141\156\143\145\040\105\126\040\122\157\157\164\040\103\101$

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

 $\label{eq:condition} $$ \002\020\02\254\134\046\152\013\100\233\217\013\171\362\256\106\045\167$$

END

CKA VALUE MULTILINE OCTAL

 $\label{eq:condition} $$ \000\202\003\305\060\202\002\255\240\003\002\001\002\002\002\002\254\134\046\152\013\100\233\217\013\171\362\256\106\045\167\060\015\006\011\052\206\110\206\367\015\001\000\1005\0005\000\060\154\061\013\060\011\006\003\125\004\006\023\002\125\123\061\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023\020\167$

\167\167\056\144\151\147\151\143\145\162\164\056\143\157\155\061 \053\060\051\006\003\125\004\003\023\042\104\151\147\151\103\145 \162\164\040\110\151\147\150\040\101\163\163\165\162\141\156\143 \145\040\105\126\040\122\157\157\164\040\103\101\060\036\027\015 $\label{eq:condition} $$ \061\061\060\060\060\060\060\060\132\060\154\061\013 $$$ \060\011\006\003\125\004\006\023\002\125\123\061\025\060\023\006 \003\125\004\012\023\014\104\151\147\151\103\145\162\164\040\111 \156\143\061\031\060\027\006\003\125\004\013\023\020\167\167\167 \056\144\151\147\151\143\145\162\164\056\143\157\155\061\053\060 \051\006\003\125\004\003\023\042\104\151\147\151\103\145\162\164 $\label{eq:condition} $$ \040\101\151\147\150\040\101\163\163\165\162\141\156\143\145\040$$$ \105\126\040\122\157\157\164\040\103\101\060\202\001\042\060\015 $\label{eq:condition} $$ \006\011\052\206\110\206\367\015\001\001\001\005\000\003\202\001 $$$ $\label{eq:condition} $$ \017\000\060\202\001\012\002\202\001\001\000\306\314\345\163\346 $$$ \373\324\273\345\055\055\062\246\337\345\201\077\311\315\045\111 $\verb|\|266|161|052|303|325|224|064|147|242|012|034|260|137|151|246|100|$ \261\304\267\262\217\320\230\244\251\101\131\072\323\334\224\326 \074\333\164\070\244\112\314\115\045\202\367\112\245\123\022\070 \356\363\111\155\161\221\176\143\266\253\246\137\303\244\204\370 \117\142\121\276\370\305\354\333\070\222\343\006\345\010\221\014 \304\050\101\125\373\313\132\211\025\176\161\350\065\277\115\162 $\label{eq:condition} $$ \011\075\276\072\070\120\133\167\061\033\215\263\307\044\105\232 $$$ \247\254\155\000\024\132\004\267\272\023\353\121\012\230\101\101 $\\ \\ \langle 042 \rangle 116 \rangle 145 \rangle 141 \rangle 207 \rangle 201 \rangle 101 \rangle 120 \rangle 246 \rangle 171 \rangle 134 \rangle 211 \rangle 336 \rangle 031 \rangle 112 \rangle 127 \rangle 127$ \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 \021\174\047\146\267\210\267\170\362\312\012\250\070\253\012\144 \302\277\146\135\225\204\301\241\045\036\207\135\032\120\013\040 $\label{eq:condition} $$ \022\314\101\273\156\013\121\070\270\113\313\002\003\001\000\001$ \243\143\060\141\060\016\006\003\125\035\017\001\001\377\004\004 \003\002\001\206\060\017\006\003\125\035\023\001\001\377\004\005 \060\003\001\001\377\060\035\006\003\125\035\016\004\026\004\024 \261\076\303\151\003\370\277\107\001\324\230\046\032\010\002\357 \143\144\053\303\060\037\006\003\125\035\043\004\030\060\026\200 $\label{eq:condition} $$ \024\261\076\303\151\003\370\277\107\001\324\230\046\032\010\002$ \357\143\144\053\303\060\015\006\011\052\206\110\206\367\015\001 $\label{eq:condition} $$ \001\005\000\003\202\001\001\000\034\032\006\227\334\327\234$ \237\074\210\146\006\010\127\041\333\041\107\370\052\147\252\277 \030\062\166\100\020\127\301\212\363\172\331\021\145\216\065\372 \236\374\105\265\236\331\114\061\113\270\221\350\103\054\216\263 \170\316\333\343\123\171\161\326\345\041\224\001\332\125\207\232 \044\144\366\212\146\314\336\234\067\315\250\064\261\151\233\043 \310\236\170\042\053\160\103\343\125\107\061\141\031\357\130\305 \205\057\116\060\366\240\061\026\043\310\347\342\145\026\063\313 \277\032\033\240\075\370\312\136\213\061\213\140\010\211\055\014 $\label{eq:condition} $$ \006\134\122\267\304\371\012\230\321\025\137\237\022\276\174\066$$

 $\label{eq:control} $$ 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

 $\label{eq:condition} $$ \frac{356}{006}063\frac{342}{131}333\frac{55}{014}\frac{114}{232}\frac{346}{323}\frac{217}{032} $$$

\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

 $\label{eq:condition} $$ \060\154\061\013\060\011\006\003\125\004\006\023\002\125\123\061 $$$

 $\label{eq:condition} $$ \025\06\003\125\004\012\023\014\104\151\147\151\103\145 $$$

 $\label{eq:condition} $$ 162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023$

 $\label{eq:condition} $$ \020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157$$

 $\label{thm:loss_section} $$ 155\061\053\060\051\006\003\125\004\003\023\042\104\151\147\151 $$$

 $\label{eq:condition} $$ \frac{143}145\\040\\105\\126\\040\\122\\157\\157\\164\\040\\103\\101$

END

CKA_SERIAL_NUMBER

MULTILINE_OCTAL

 $\label{eq:condition} $$ \002\020\002\254\134\046\152\013\100\233\217\013\171\362\256\106$$

\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 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

 $\label{eq:condition} $$ \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

 $\label{eq:condition} $$ \frac{151}147\\156\\040\\101\\107\\061\\037\\060\\035\\006\\003\\125\\004\\003\\023$

\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

 $\\ \begin{tabular}{l} $026 123 167 151 163 163 123 151 147 156 040 107 157 154 144 040 \\ \end{tabular}$

\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

\014\123\167\151\163\163\123\151\147\156\040\101\107\061\037\060 \035\006\003\125\004\003\023\026\123\167\151\163\163\123\151\147 \156\040\107\157\154\144\040\103\101\040\055\040\107\062\060\036 \027\015\060\066\061\060\062\065\060\070\063\060\063\065\132\027 \015\063\066\061\060\062\065\060\070\063\060\063\065\132\060\105 \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 $\label{eq:condition} $$ \frac{167}{151}\frac{3}{163}\frac{3}{123}\frac{151}{147}\frac{6040}{107}\frac{157}{154}\frac{44040}{103}\frac{101}{101} $$$ \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 $\label{eq:condition} $$ \012\002\202\002\001\000\257\344\356\176\213\044\016\022\156\251 $$$ \120\055\026\104\073\222\222\134\312\270\135\204\222\102\023\052 $\label{eq:condition} $$ \274\145\127\202\100\076\127\044\315\120\213\045\052\267\157\374$$ \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 $\label{eq:condition} $$ \076\346\030\067\132\052\162\371\332\142\220\222\225\312\037\234 $$$ \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 $\label{eq:local_state} $$ \frac{122}{211}\frac{371}044\frac{347}235}{167}\frac{251}{202}\frac{377}{125}\frac{34}{245}\frac{161}{151}\frac{53}{167}$ \321\002\044\362\263\046\324\153\332\004\125\345\301\012\307\155 \060\067\220\052\344\236\024\063\136\026\027\125\305\133\265\313 $\\ \\064\\211\\222\\361\\235\\046\\217\\241\\007\\324\\306\\262\\170\\120\\333\\014$ \014\013\174\013\214\101\327\271\351\335\214\210\367\243\115\262 \062\314\330\027\332\315\267\316\146\235\324\375\136\377\275\227 \076\051\165\347\176\247\142\130\257\045\064\245\101\307\075\274 \015\120\312\003\003\017\010\132\037\225\163\170\142\277\257\162 \024\151\016\245\345\003\016\170\216\046\050\102\360\007\013\142 \040\020\147\071\106\372\251\003\314\004\070\172\146\357\040\203 \265\214\112\126\216\221\000\374\216\134\202\336\210\240\303\342 $\label{eq:condition} $$ \frac{150}{156}\frac{357}{074}\frac{335}{145}\frac{364}{135}\frac{254}{121}\frac{357}{044}\frac{200}{256}$$$ $\label{eq:condition} $$ \252\126\227\157\371\255\175\332\141\077\230\167\074\245\221\266$$ \034\214\046\332\145\242\011\155\301\342\124\343\271\312\114\114 \200\217\167\173\140\232\036\337\266\362\110\036\016\272\116\124 \155\230\340\341\242\032\242\167\120\317\304\143\222\354\107\031 \235\353\346\153\316\301\002\003\001\000\001\243\201\254\060\201 \251\060\016\006\003\125\035\017\001\001\377\004\004\003\002\001 \006\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001 $\label{eq:condition} $$ \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 $\label{eq:condition} $$ \011\140\205\164\001\131\001\002\001\001\060\056\060\054\006\010 $$$ \053\006\001\005\005\007\002\001\026\040\150\164\164\160\072\057 $\begin{tabular}{l} $$ \begin{tabular}{l} $\begin{tabular}{l} \b \163\163\151\147\156\056\143\157\155\057\060\015\006\011\052\206 \110\206\367\015\001\001\005\005\000\003\202\002\001\000\047\272 \343\224\174\361\256\300\336\027\346\345\330\325\365\124\260\203 \364\273\315\136\005\173\117\237\165\146\257\074\350\126\176\374 $\label{eq:condition} $$ \frac{162\\170\\003\\331\\053\\142\\033\\000\\271\\370\\351\\140\\315\\314\\316$ \201\053\343\203\204\346\042\207\216\175\340\356\002\231\141\270 $\label{eq:condition} $$ \036\364\270\053\210\022\026\204\302\061\223\070\226\061\246\271 $$$ $\label{eq:condition} $$ \073\123\077\303\044\223\126\133\151\222\354\305\301\273\070\000 $$$ \343\354\027\251\270\334\307\174\001\203\237\062\107\272\122\042 $\label{eq:condition} $$ \064\035\062\172\011\126\247\174\045\066\251\075\113\332\300\202$ \157\012\273\022\310\207\113\047\021\371\036\055\307\223\077\236 \333\137\046\153\122\331\056\212\361\024\306\104\215\025\251\267 \277\275\336\246\032\356\256\055\373\110\167\027\376\273\354\257 \030\365\052\121\360\071\204\227\225\154\156\033\303\053\304\164 $\label{eq:condition} $$ 140\171\045\260\012\047\337\337\136\322\071\317\105\175\102\113$ $\label{eq:condition} $$ 37\263\054\036\305\306\135\312\125\072\240\234\151\232\217\332$ \357\262\260\074\237\207\154\022\053\145\160\025\122\061\032\044 $\label{eq:condition} $$ \frac{317}{157}061 \cdot 043 \cdot 120 \cdot 037 \cdot 214 \cdot 117 \cdot 217 \cdot 043 \cdot 303 \cdot 164 \cdot 101 \cdot 143 \cdot 034 \cdot 125 \cdot$ \250\024\335\076\340\121\120\317\361\033\060\126\016\222\260\202 \205\330\203\313\042\144\274\055\270\045\325\124\242\270\006\352 $\label{eq:condition} $$ \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

```
# 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
\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
\label{eq:condition} $$ \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
```

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

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

 $\label{eq:condition} $$ \000107\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\123\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

 $\label{eq:condition} $$ \000107\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\123\151\154\166\145\162\040\103\101\040\055\040\107\062$

END

CKA SERIAL NUMBER

MULTILINE_OCTAL

 $\label{eq:condition} $$ \002\010\117\033\324\057\124\273\057\113$$

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 \006\023\002\103\110\061\025\060\023\006\003\125\004\012\023\014 \123\167\151\163\163\123\151\147\156\040\101\107\061\041\060\037 $\\ \\006\\ \\003\\ \\125\\ \\004\\ \\003\\ \\023\\ \\030\\ \\123\\ \\167\\ \\151\\ \\163\\ \\163\\ \\123\\ \\151\\ \\147\\ \\156$ \040\123\151\154\166\145\162\040\103\101\040\055\040\107\062\060 \036\027\015\060\066\061\060\062\065\060\070\063\062\064\066\132 \027\015\063\066\061\060\062\065\060\070\063\062\064\066\132\060 \107\061\013\060\011\006\003\125\004\006\023\002\103\110\061\025 \060\023\006\003\125\004\012\023\014\123\167\151\163\163\123\151 \147\156\040\101\107\061\041\060\037\006\003\125\004\003\023\030 \123\167\151\163\163\123\151\147\156\040\123\151\154\166\145\162 $\label{eq:condition} $$ \040\103\101\040\055\040\107\062\060\202\002\042\060\015\006\011 $$$ $\label{eq:condition} $$ \052\206\110\206\367\015\001\001\001\005\000\003\202\002\017\000 $$$ \060\202\002\012\002\202\002\001\000\304\361\207\177\323\170\061 $\label{eq:condition} $$ 367\070\311\370\303\231\103\274\307\367\274\067\347\116\161\272 $$$ \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 $\label{eq:condition} $$ \052\364\065\012\170\311\125\317\101\260\107\351\060\237\231\276$ \141\250\006\204\271\050\172\137\070\331\033\251\070\260\203\177 \163\301\303\073\110\052\202\017\041\233\270\314\250\065\303\204 $\label{eq:condition} $$ \033\203\263\076\276\244\225\151\001\072\211\000\170\004\331\311 $$$ \364\231\031\253\126\176\133\213\206\071\025\221\244\020\054\011 $\label{eq:condition} $$ \062\200\140\263\223\300\052\266\030\013\235\176\215\111\362\020 $$$ $\label{eq:linear_condition} $$ \frac{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 $\label{eq:condition} $$ \051\067\205\222\150\146\274\203\070\376\173$$ \071\056\323\120\360\037\373\136\140\266\251\246\372\047\101\361 \233\030\162\362\365\204\164\112\311\147\304\124\256\110\144\337 \214\321\156\260\035\341\007\217\010\036\231\234\161\351\114\330 \245\367\107\022\037\164\321\121\236\206\363\302\242\043\100\013 \163\333\113\246\347\163\006\214\301\240\351\301\131\254\106\372 $\label{eq:condition} $$ 346\057\370\317\161\234\106\155\271\304\025\215\070\171\003\105$$ \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 \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 $\label{eq:condition} $$ \000\163\306\201\340\047\322\055\017\340\225\060\342\232\101\177$ $\label{eq:condition} $$ \frac{120}054\\137\\137\\142\\141\\251\\206\\152\\151\\030\\014\\164\\111\\326\\135$ \204\352\101\122\030\157\130\255\120\126\040\152\306\275\050\151 \130\221\334\221\021\065\251\072\035\274\032\245\140\236\330\037 $\label{eq:condition} $$ \frac{177}105\\221\\151\\331\\176\\273\\170\\162\\301\\006\\017\\052\\316\\217\\205$ \160\141\254\240\315\013\270\071\051\126\204\062\116\206\273\075 \304\052\331\327\037\162\356\376\121\241\042\101\261\161\002\143 $\label{eq:condition} $$ \032\202\260\142\253\136\127\022\037\337\313\335\165\240\300\135$ \171\220\214\033\340\120\346\336\061\376\230\173\160\137\245\220 \330\255\370\002\266\157\323\140\335\100\113\042\305\075\255\072 \172\237\032\032\107\221\171\063\272\202\334\062\151\003\226\156

\037\113\360\161\376\343\147\162\240\261\277\134\213\344\372\231 \042\307\204\271\033\215\043\227\077\355\045\340\317\145\273\365 \141\004\357\335\036\262\132\101\042\132\241\237\135\054\350\133 $\label{eq:condition} $$ \frac{311\155\251\014\014\170\252\140\306\126\217\001\132\014\150\274}{217\001\132\014\150\274} $$$ $\label{eq:condition} $$ \frac{151}031}171\\304\\037\\176\\227\\005\\277\\305\\351\\044\\121\\136\\324\\325$ \113\123\355\331\043\132\066\003\145\243\301\003\255\101\060\363 \106\033\205\220\257\145\265\325\261\344\026\133\170\165\035\227 $\label{eq:condition} $$ \frac{172\155\131\251\052\217\173\336\303\207\211\020\231\111\163\170}{1}$$ \310\075\275\121\065\164\052\325\361\176\151\033\052\273\073\275 \045\270\232\132\075\162\141\220\146\207\356\014\326\115\324\021 $\label{eq:condition} $$ 164\013\152\376\013\003\374\243\125\127\211\376\112\313\256\133$ $\label{eq:condition} $$ \027\005\310\362\215\043\061\123\070\322\055\152\077\202\271\215$ \010\152\367\136\101\164\156\303\021\176\007\254\051\140\221\077 \070\312\127\020\015\275\060\057\307\245\346\101\240\332\256\005 $\label{eq:condition} $$ \207\232\240\244\145\154\114\011\014\211\272\270\323\271\300\223$ \212\060\372\215\345\232\153\025\001\116\147\252\332\142\126\076 \204\010\146\322\304\066\175\247\076\020\374\210\340\324\200\345 \000\275\252\363\116\006\243\172\152\371\142\162\343\011\117\353 \233\016\001\043\361\237\273\174\334\334\154\021\227\045\262\362 \264\143\024\322\006\052\147\214\203\365\316\352\007\330\232\152 \036\354\344\012\273\052\114\353\011\140\071\316\312\142\330\056 \156

END

CKA_NSS_MOZILLA_CA_POLICY

CK_BBOOL CK_TRUE

CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "SwissSign Silver CA - G2"

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

Serial Number:4f:1b:d4:2f:54:bb:2f:4b

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

Not Valid Before: Wed Oct 25 08:32:46 2006

Not Valid After: Sat Oct 25 08:32:46 2036

Fingerprint (SHA-256):

BE:6C:4D:A2:BB:B9:BA:59:B6:F3:93:97:68:37:42:46:C3:C0:05:99:3F:A9:8F:02:0D:1D:ED:BE:D4:8A:81:D5

Fingerprint (SHA1): 9B:AA:E5:9F:56:EE:21:CB:43:5A:BE:25:93:DF:A7:F0:40:D1:1D:CB

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

CKA_TOKEN CK_BBOOL CK_TRUE

 ${\sf CKA_PRIVATE\ CK_BBOOL\ CK_FALSE}$

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
\label{eq:condition} $$ \030\123\167\151\163\163\123\151\147\156\040\123\151\154\166\145$
\162\040\103\101\040\055\040\107\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\label{eq:condition} $$ \002\010\117\033\324\057\124\273\057\113$
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
# Certificate "SecureTrust CA"
# Issuer: CN=SecureTrust CA,O=SecureTrust Corporation,C=US
# Serial Number:0c:f0:8e:5c:08:16:a5:ad:42:7f:f0:eb:27:18:59:d0
# Subject: CN=SecureTrust CA,O=SecureTrust
Corporation, C=US
# Not Valid Before: Tue Nov 07 19:31:18 2006
# Not Valid After: Mon Dec 31 19:40:55 2029
# Fingerprint (SHA-256):
F1:C1:B5:0A:E5:A2:0D:D8:03:0E:C9:F6:BC:24:82:3D:D3:67:B5:25:57:59:B4:E7:1B:61:FC:E9:F7:37:5D:73
# Fingerprint (SHA1): 87:82:C6:C3:04:35:3B:CF:D2:96:92:D2:59:3E:7D:44:D9:34:FF:11
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA MODIFIABLE CK BBOOL CK FALSE
CKA LABEL UTF8 "SecureTrust CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA SUBJECT MULTILINE OCTAL
\060\110\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\label{eq:condition} $$ \0040\003\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_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\110\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\040\060\036\006\003\125\004\012\023\027\123\145\143\165\162\145
\124\162\165\163\164\040\103\157\162\160\157\162\141\164\151\157
```

\156\061\027\060\025\006\003\125\004\003\023\016\123\145\143\165 \162\145\124\162\165\163\164\040\103\101

END

CKA SERIAL NUMBER

MULTILINE_OCTAL

 $\label{eq:condition} $$ \002\020\014\360\216\134\010\026\245\255\102\177\360\353\047\030\131\320$

END

CKA_VALUE MULTILINE_OCTAL

\060\202\003\270\060\202\002\240\240\003\002\001\002\002\020\014 \360\216\134\010\026\245\255\102\177\360\353\047\030\131\320\060 $\label{eq:condition} $$ \0.015\0.06\0.01\0.05\0.005\0.0000\0.000\0.000\0.0000\0.000\0.0000\0.0000\0.0000\0.0000\0.0000\0.0000\0.0000\0.0000\0.$ \061\013\060\011\006\003\125\004\006\023\002\125\123\061\040\060 $\label{eq:condition} $$ \006\003\125\004\012\023\027\123\145\143\165\162\145\124\162 $$$ \027\060\025\006\003\125\004\003\023\016\123\145\143\165\162\145 \124\162\165\163\164\040\103\101\060\036\027\015\060\066\061\061 \060\067\061\071\063\061\061\070\132\027\015\062\071\061\062\063 \061\061\071\064\060\065\065\132\060\110\061\013\060\011\006\003 \125\004\006\023\002\125\123\061\040\060\036\006\003\125\004\012 \023\027\123\145\143\165\162\145\124\162\165\163\164\040\103\157 \162\160\157\162\141\164\151\157\156\061\027\060\025\006\003\125 $\\ \\004\\ \\003\\ \\023\\ \\016\\ \\123\\ \\145\\ \\143\\ \\165\\ \\162\\ \\145\\ \\124\\ \\162\\ \\165\\ \\163\\ \\164\\ \\040$ \103\101\060\202\001\042\060\015\006\011\052\206\110\206\367\015 \001\001\001\005\000\003\202\001\017\000\060\202\001\012\002\202 \001\001\000\253\244\201\345\225\315\365\366\024\216\302\117\312 \324\342\170\225\130\234\101\341\015\231\100\044\027\071\221\063 $\\ 146 \\ 351 \\ 276 \\ 341 \\ 203 \\ 257 \\ 142 \\ 134 \\ 211 \\ 321 \\ 374 \\ 044 \\ 133 \\ 141 \\ 263 \\ 340 \\$ \021\021\101\034\035\156\360\270\273\370\336\247\201\272\246\110 \306\237\035\275\276\216\251\101\076\270\224\355\051\032\324\216 \322\003\035\003\357\155\015\147\034\127\327\006\255\312\310\365 \376\016\257\146\045\110\004\226\013\135\243\272\026\303\010\117 \321\106\370\024\134\362\310\136\001\231\155\375\210\314\206\250 \301\157\061\102\154\122\076\150\313\363\031\064\337\273\207\030 \126\200\046\304\320\334\300\157\337\336\240\302\221\026\240\144 \021\113\104\274\036\366\347\372\143\336\146\254\166\244\161\243 \354\066\224\150\172\167\244\261\347\016\057\201\172\342\265\162 $\label{eq:condition} $$ \206\357\242\153\213\360\017\333\323\131\077\272\162\274\104\044 $$$ \234\343\163\263\367\257\127\057\102\046\235\251\164\272\000\122 \362\113\315\123\174\107\013\066\205\016\146\251\010\227\026\064 \127\301\146\367\200\343\355\160\124\307\223\340\056\050\025\131 \207\272\273\002\003\001\000\001\243\201\235\060\201\232\060\023 \103\000\101\060\013\006\003\125\035\017\004\004\003\002\001\206 $\label{eq:condition} $$ \000\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001 $$$ \377\060\035\006\003\125\035\016\004\026\004\024\102\062\266\026 \372\004\375\376\135\113\172\303\375\367\114\100\035\132\103\257 $\label{eq:condition} $$ \060\064\006\003\125\035\037\004\055\060\053\060\051\240\047\240$

\045\206\043\150\164\164\160\072\057\057\143\162\154\056\163\145 \143\165\162\145\164\162\165\163\164\056\143\157\155\057\123\124 $\label{eq:condition} $$103\101\056\143\162\154\060\020\006\011\053\006\001\004\001\202$ $\label{eq:condition} $$ \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 $\label{eq:condition} $$ \262\224\005\024\256\111\307\215\101\007\022\163\224\176\014\043$ \041\375\274\020\177\140\020\132\162\365\230\016\254\354\271\177 \335\172\157\135\323\034\364\377\210\005\151\102\251\005\161\310 \267\254\046\350\056\264\214\152\377\161\334\270\261\337\231\274 \174\041\124\053\344\130\242\273\127\051\256\236\251\243\031\046 \017\231\056\010\260\357\375\151\317\231\032\011\215\343\247\237 \053\311\066\064\173\044\263\170\114\225\027\244\006\046\036\266 \144\122\066\137\140\147\331\234\305\005\164\013\347\147\043\322 \010\374\210\351\256\213\177\341\060\364\067\176\375\306\062\332 \055\236\104\060\060\154\356\007\336\322\064\374\322\377\100\366 \113\364\146\106\006\124\246\362\062\012\143\046\060\153\233\321 \334\213\107\272\341\271\325\142\320\242\240\364\147\005\170\051 \143\032\157\004\326\370\306\114\243\232\261\067\264\215\345\050 \113\035\236\054\302\270\150\274\355\002\356\061

END

CKA_NSS_MOZILLA_CA_POLICY

CK_BBOOL CK_TRUE

CKA_NSS_SERVER_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
\label{eq:condition} $$ \0040\003\006\003\125\004\012\023\027\123\145\143\165\162\145 
\label{eq:local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_
\156\061\027\060\025\006\003\125\004\003\023\016\123\145\143\165
\162\145\124\162\165\163\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\014\360\216\134\010\026\245\255\102\177\360\353\047\030
\131\320
END
CKA TRUST SERVER AUTH CK TRUST CKT NSS TRUSTED DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA TRUST STEP UP APPROVED CK BBOOL CK FALSE
 #
# Certificate "Secure Global CA"
 # Issuer: CN=Secure Global CA.O=SecureTrust
  Corporation, C=US
# Serial Number:07:56:22:a4:e8:d4:8a:89:4d:f4:13:c8:f0:f8:ea:a5
 # Subject: CN=Secure Global CA,O=SecureTrust Corporation,C=US
# Not Valid Before: Tue Nov 07 19:42:28 2006
# Not Valid After: Mon Dec 31 19:52:06 2029
# Fingerprint (SHA-256):
42:00:F5:04:3A:C8:59:0E:BB:52:7D:20:9E:D1:50:30:29:FB:CB:D4:1C:A1:B5:06:EC:27:F1:5A:DE:7D:AC:69
# Fingerprint (SHA1): 3A:44:73:5A:E5:81:90:1F:24:86:61:46:1E:3B:9C:C4:5F:F5:3A:1B
CKA CLASS CK OBJECT CLASS CKO CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA PRIVATE CK BBOOL CK FALSE
CKA MODIFIABLE CK BBOOL CK FALSE
CKA LABEL UTF8 "Secure Global CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA SUBJECT MULTILINE OCTAL
\060\112\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\040\060\036\006\003\125\004\012\023\027\123\145\143\165\162\145
\label{eq:local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_
\156\061\031\060\027\006\003\125\004\003\023\020\123\145\143\165
\162\145\040\107\154\157\142\141\154\040\103\101
END
CKA_ID
  UTF8 "0"
```

\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

CKA_ISSUER MULTILINE_OCTAL

\156\061\031\060\027\006\003\125\004\003\023\020\123\145\143\165 \162\145\040\107\154\157\142\141\154\040\103\101

END

CKA SERIAL NUMBER MULTILINE OCTAL

\002\020\007\126\042\244\350\324\212\211\115\364\023\310\360\370 \352\245

END

CKA VALUE MULTILINE OCTAL

\060\202\003\274\060\202\002\244\240\003\002\001\002\002\020\007 \126\042\244\350\324\212\211\115\364\023\310\360\370\352\245\060 \015\006\011\052\206\110\206\367\015\001\001\005\005\000\060\112 \036\006\003\125\004\012\023\027\123\145\143\165\162\145\124\162 $\label{eq:condition} $$ 165 163 164 040 103 157 162 160 157 162 141 164 151 157 156 061 $$$ $\label{eq:condition} $$ \031\060\027\006\003\125\004\003\023\020\123\145\143\165\162\145$$ \040\107\154\157\142\141\154\040\103\101\060\036\027\015\060\066 \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 \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 $\label{eq:condition} $$ \001\012\002\202\001\001\000\257\065\056\330\254\154\125\151\006$ \161\345\023\150\044\263\117\330\314\041\107\370\361\140\070\211 \211\003\351\275\352\136\106\123\011\334\134\365\132\350\367\105 $\label{eq:condition} $$ \052\002\353\061\14\327\051\063\114\316\307\174\012\067\176\017 $$$ \272\062\230\341\035\227\257\217\307\334\311\070\226\363\333\032 \374\121\355\150\306\320\156\244\174\044\321\256\102\310\226\120 \143\056\340\376\165\376\230\247\137\111\056\225\343\071\063\144 \216\036\244\137\220\322\147\074\262\331\376\101\271\125\247\011 \216\162\005\036\213\335\104\205\202\102\320\111\300\035\140\360 \321\027\054\225\353\366\245\301\222\243\305\302\247\010\140\015 \140\004\020\226\171\236\026\064\346\251\266\372\045\105\071\310 \036\145\371\223\365\252\361\122\334\231\230\075\245\206\032\014 \065\063\372\113\245\004\006\025\034\061\200\357\252\030\153\302 \173\327\332\316\371\063\040\325\365\275\152\063\055\201\004\373 \260\134\324\234\243\342\134\035\343\251\102\165\136\173\324\167 $\label{eq:condition} $$ \frac{357}{071}124\frac{272}{311}012\frac{030}{033}022\frac{231}{111}057\frac{10}{113}\frac{375}{120} $$$ \142\321\163\347\217\172\103\002\003\001\000\001\243\201\235\060 \201\232\060\023\006\011\053\006\001\004\001\202\067\024\002\004 $\label{eq:condition} $$ \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 \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 $\label{eq:condition} $$ \051\240\047\240\045\206\043\150\164\164\160\072\057\057\143\162 $$$

\154\056\163\145\143\165\162\145\164\162\165\163\164\056\143\157 \155\057\123\107\103\101\056\143\162\154\060\020\006\011\053\006 \001\004\001\202\067\025\001\004\003\002\001\000\060\015\006\011 $\label{eq:condition} $$ \052\206\110\206\367\015\001\001\005\005\000\003\202\001\001\000$ \143\032\010\100\175\244\136\123\015\167\330\172\256\037\015\013 $\label{eq:condition} $$ \frac{121}026\\003\\357\\030\\174\\310\\343\\257\\152\\130\\223\\024\\140\\221\\262$ \204\334\210\116\276\071\212\072\363\346\202\211\135\001\067\263 \253\044\244\025\016\222\065\132\112\104\136\116\127\372\165\316 \037\110\316\146\364\074\100\046\222\230\154\033\356\044\106\014 \027\263\122\245\333\245\221\221\317\067\323\157\347\047\010\072 $\label{eq:condition} $$ \frac{31}{037}\frac{072}{247}\frac{30}{134}\frac{027}{317}\frac{171}{077}\frac{344}{247}\frac{323}{046} $$$ $\\ \langle 043 \rangle 235 \rangle 046 \rangle 017 \rangle 130 \rangle 151 \rangle 374 \rangle 107 \rangle 176 \rangle 262 \rangle 320 \rangle 215 \rangle 213 \rangle 223 \rangle 277 \rangle 051 \rangle 176 \rangle$ \117\103\151\164\166\147\113\317\007\214\346\002\367\265\341\264 \103\265\113\055\024\237\371\334\046\015\277\246\107\164\006\330 \210\321\072\051\060\204\316\322\071\200\142\033\250\307\127\111 \274\152\125\121\147\025\112\276\065\007\344\325\165\230\067\171 \060\024\333\051\235\154\305\151\314\107\125\242\060\367\314\134 \177\302\303\230\034\153\116\026\200\353\172\170\145\105\242\000 \032\257\014\015\125\144\064\110\270\222\271\361\264\120\051\362 $\label{eq:condition} $$ \frac{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

 $\label{eq:condition} $$ \frac{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
\label{eq:local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_
\156\061\031\060\027\006\003\125\004\003\023\020\123\145\143\165
\162\145\040\107\154\157\142\141\154\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\007\126\042\244\350\324\212\211\115\364\023\310\360\370
\352\245
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA TRUST EMAIL PROTECTION CK TRUST CKT NSS TRUSTED DELEGATOR
CKA_TRUST_CODE_SIGNING
 CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA TRUST STEP UP APPROVED CK BBOOL CK FALSE
#
# Certificate "COMODO Certification Authority"
# Issuer: CN=COMODO Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater
Manchester.C=GB
# Serial Number:4e:81:2d:8a:82:65:e0:0b:02:ee:3e:35:02:46:e5:3d
# Subject: CN=COMODO Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater
Manchester.C=GB
# Not Valid Before: Fri Dec 01 00:00:00 2006
# Not Valid After: Mon Dec 31 23:59:59 2029
# Fingerprint (SHA-256):
0C:2C:D6:3D:F7:80:6F:A3:99:ED:E8:09:11:6B:57:5B:F8:79:89:F0:65:18:F9:80:8C:86:05:03:17:8B:AF:66
# Fingerprint (SHA1): 66:31:BF:9E:F7:4F:9E:B6:C9:D5:A6:0C:BA:6A:BE:D1:F7:BD:EF:7B
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA TOKEN CK BBOOL CK TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA MODIFIABLE CK BBOOL CK FALSE
CKA_LABEL UTF8 "COMODO Certification Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA SUBJECT MULTILINE OCTAL
\060\201\201\061\013\060\011\006\003\125\004\006\023\002\107\102
\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
\label{eq:condition} $$ \032\060\030\006\003\125\004\012\023\021\103\117\115\117\104\117
\040\103\101\040\114\151\155\151\164\145\144\061\047\060\045\006
\003\125\004\003\023\036\103\117\115\117\104\117\040\103\145\162
\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157
\162\151\164\171
END
CKA_ID
```

UTF8 "0"

CKA ISSUER MULTILINE OCTAL

 $\label{eq:condition} $$ \000\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\061\020\060\016\006\003\125\004\007\023\007\123\141\154\146\157\162\144\061\032\060\030\006\003\125\004\012\023\021\103\117\115\117\104\117\040\103\101\040\114\151\155\151\164\145\144\061\047\060\045\006\003\125\004\003\023\036\103\117\115\117\104\117\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171$

END

CKA SERIAL NUMBER

MULTILINE OCTAL

\002\020\116\201\055\212\202\145\340\013\002\356\076\065\002\106 \345\075

END

CKA_VALUE MULTILINE_OCTAL

\060\202\004\035\060\202\003\005\240\003\002\001\002\002\020\116 \201\055\212\202\145\340\013\002\356\076\065\002\106\345\075\060 \015\006\011\052\206\110\206\367\015\001\001\005\005\000\060\201 \201\061\013\060\011\006\003\125\004\006\023\002\107\102\061\033 $\label{eq:condition} $$ \000\031\006\003\125\004\010\023\022\107\162\145\141\164\145\162$ \040\115\141\156\143\150\145\163\164\145\162\061\020\060\016\006 \003\125\004\007\023\007\123\141\154\146\157\162\144\061\032\060 \101\040\114\151\155\151\164\145\144\061\047\060\045\006\003\125 \004\003\023\036\103\117\115\117\104\117\040\103\145\162\164\151 \146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151 \164\171\060\036\027\015\060\066\061\062\060\061\060\060\060 \060\060\132\027\015\062\071\061\062\063\061\062\063\065\071\065 \071\132\060\201\201\061\013\060\011\006\003\125\004\006\023\002 \107\102\061\033\060\031\006\003\125\004\010\023\022\107\162\145 \141\164\145\162\040\115\141\156\143\150\145\163\164\145\162\061 \020\060\016\006\003\125\004\007\023\007\123\141\154\146\157\162 \144\061\032\060\030\006\003\125\004\012\023\021\103\117\115\117 \104\117\040\103\101\040\114\151\155\151\164\145\144\061\047\060 \045\006\003\125\004\003\023\036\103\117\115\117\104\117\040\103 \145\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164 $\label{eq:condition} $$ \frac{150}{157}\frac{62}{151}\frac{64}{171}\frac{060}{202}\frac{001}{042}\frac{060}{015}\frac{006}{011}\frac{202}{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 $\\ \\043\\ \\076\\ \\245\\ \\322\\ \\044\\ \\071\\ \\152\\ \\107\\ \\253\\ \\000\\ \\324\\ \\241\\ \\263\\ \\251\\ \\045\\ \\376$ \015\077\247\035\272\323\121\301\013\244\332\254\070\357\125\120 $\\ \\044\\005\\145\\106\\223\\064\\117\\055\\215\\255\\306\\324\\041\\031\\322\\216$ $\label{eq:condition} $$ \frac{312\\005\\141\\161\\007\\163\\107\\345\\212\\031\\022\\275\\004\\115\\316\\116$ \234\245\110\254\273\046\367\002\003\001\000\001\243\201\216\060 $\label{eq:condition} $$ \201\213\060\035\006\003\125\035\016\004\026\004\024\013\130\345 $$$ $\label{eq:condition} $$ \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 $\label{eq:condition} $$ \006\000\17\006\003\125\035\023\001\001\377\004\005\060\003\001 $$$ $\label{eq:condition} $$ \001\377\060\111\006\003\125\035\037\004\102\060\100\060\076\240 $$$ \074\240\072\206\070\150\164\164\160\072\057\057\143\162\154\056 $\\ 143\\157\\155\\157\\144\\157\\143\\141\\056\\143\\157\\155\\057\\103\\117\\115$ \117\104\117\103\145\162\164\151\146\151\143\141\164\151\157\156 \101\165\164\150\157\162\151\164\171\056\143\162\154\060\015\006 $\label{eq:condition} $$ \011\052\206\110\206\367\015\001\001\005\005\000\003\202\001\001$ \000\076\230\236\233\366\033\351\327\071\267\170\256\035\162\030 \111\323\207\344\103\202\353\077\311\252\365\250\265\357\125\174 $\label{eq:condition} $$ \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 $\label{eq:condition} $$ 107 \cdot 027 \cdot 114 \cdot 242 \cdot 302 \cdot 006 \cdot 226 \cdot 011 \cdot 326 \cdot 333 \cdot 376 \cdot 077 \cdot 074 \cdot 106 \cdot 101 \cdot 337 \cdot 074 \cdot 106 \cdot 101 \cdot 107 \cdot 107$ \130\342\126\017\074\073\301\034\223\065\331\070\122\254\356\310 \354\056\060\116\224\065\264\044\037\113\170\151\332\362\002\070 $\label{eq:condition} $$ \frac{314}{225}122\frac{3360}{160}045\frac{131}{234}040\frac{147}{304}\frac{356}{371}\frac{127}{213}$$ \141\364\222\166\175\077\204\215\125\267\350\345\254\325\361\365 \031\126\246\132\373\220\034\257\223\353\345\034\324\147\227\135 \004\016\276\013\203\246\027\203\271\060\022\240\305\063\025\005 \271\015\373\307\005\166\343\330\112\215\374\064\027\243\306\041 \050\276\060\105\061\036\307\170\276\130\141\070\254\073\342\001 \145

END

CKA_NSS_MOZILLA_CA_POLICY

CK_BBOOL CK_TRUE

CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

[#] Trust for "COMODO Certification Authority"

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

[#] Serial Number:4e:81:2d:8a:82:65:e0:0b:02:ee:3e:35:02:46:e5:3d

[#] Subject: CN=COMODO Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater

```
Manchester, C=GB
Not Valid Before: Fri Dec 01 00:00:00 2006
# Not Valid After: Mon Dec 31 23:59:59 2029
# Fingerprint (SHA-256):
0C:2C:D6:3D:F7:80:6F:A3:99:ED:E8:09:11:6B:57:5B:F8:79:89:F0:65:18:F9:80:8C:86:05:03:17:8B:AF:66
# Fingerprint (SHA1): 66:31:BF:9E:F7:4F:9E:B6:C9:D5:A6:0C:BA:6A:BE:D1:F7:BD:EF:7B
CKA CLASS CK OBJECT CLASS CKO NSS TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA PRIVATE CK BBOOL CK FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "COMODO Certification Authority"
CKA CERT SHA1 HASH MULTILINE OCTAL
\146\061\277\236\367\117\236\266\311\325\246\014\272\152\276\321
\367\275\357\173
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\134\110\334\367\102\162\354\126\224\155\034\314\161\065\200\165
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\201\061\013\060\011\006\003\125\004\006\023\002\107\102
\label{eq:condition} $$ \061\033\060\031\006\003\125\004\010\023\022\107\162\145\141\164$$
\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
\162\151\164\171
END
CKA_SERIAL_NUMBER
MULTILINE OCTAL
\002\020\116\201\055\212\202\145\340\013\002\356\076\065\002\106
\345\075
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA TRUST EMAIL PROTECTION CK TRUST CKT NSS TRUSTED DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
# Certificate "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
```

Manchester, C=GB

Subject: CN=COMODO ECC Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater

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

 $\label{eq:condition} $$ \000\201\205\006\003\1006\003\125\004\000\0023\002\107\102\006\003\1006\003\125\0004\001\0023\0022\107\162\145\141\164\145\162\006\1020\006\003\125\0004\0007\023\0007\123\141\154\146\157\162\144\061\032\060\030\006\003\125\0004\0012\023\021\103\117\115\117\104\117\040\103\101\0040\114\151\155\151\164\145\144\061\053\060\051\006\003\125\0004\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$

END

CKA ID

UTF8 "0"

CKA ISSUER MULTILINE OCTAL

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

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

\002\020\037\107\257\252\142\000\160\120\124\114\001\236\233\143 \231\052

END

CKA_VALUE MULTILINE_OCTAL

 $\label{eq:condition} $$ \002\002\11\060\202\002\017\240\003\002\001\002\002\0037 $$ \107\257\252\142\000\160\120\124\114\001\236\233\143\231\052\060 $$ \012\006\010\052\206\110\316\075\004\003\003\060\201\205\061\013 $$ \060\011\006\003\125\004\006\023\002\107\102\061\033\060\031\006 $$ \003\125\004\010\023\022\107\162\145\141\164\145\162\040\115\141 $$ \156\143\150\145\163\164\145\162\061\020\060\016\006\003\125\004\007\023\007\123\141\154\146\157\162\144\061\032\060\030\006\003 $$$

\125\004\012\023\021\103\117\115\117\104\117\040\103\101\040\114 \151\155\151\164\145\144\061\053\060\051\006\003\125\004\003\023 $\\ \\ \langle 042 \rangle 103 \rangle 117 \rangle 115 \rangle 117 \rangle 104 \rangle 117 \rangle 040 \rangle 105 \rangle 103 \rangle 103 \rangle 040 \rangle 103 \rangle 145 \rangle 162 \rangle 164 \rangle 164$ $\label{eq:linear_continuous_self_continuous_$ \151\164\171\060\036\027\015\060\070\060\063\060\066\060\060\060 $\label{eq:condition} $$ \060\060\132\027\015\063\070\060\061\061\070\062\063\065\071 $$$ \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 \061\020\060\016\006\003\125\004\007\023\007\123\141\154\146\157 \060\051\006\003\125\004\003\023\042\103\117\115\117\104\117\040 $\label{eq:condition} $$ \frac{156}040\\101\\165\\164\\150\\157\\162\\151\\164\\171\\060\\166\\060\\020\\006$ \007\052\206\110\316\075\002\001\006\005\053\201\004\000\042\003 \142\000\004\003\107\173\057\165\311\202\025\205\373\165\344\221 \026\324\253\142\231\365\076\122\013\006\316\101\000\177\227\341 \012\044\074\035\001\004\356\075\322\215\011\227\014\340\165\344 \372\373\167\212\052\365\003\140\113\066\213\026\043\026\255\011 \161\364\112\364\050\120\264\376\210\034\156\077\154\057\057\011 \131\133\245\133\013\063\231\342\303\075\211\371\152\054\357\262 $\label{eq:condition} $$ 323\006\351\243\102\060\100\060\035\006\003\125\035\016\004\026$ \004\024\165\161\247\031\110\031\274\235\235\352\101\107\337\224 \304\110\167\231\323\171\060\016\006\003\125\035\017\001\001\377 \004\004\003\002\001\006\060\017\006\003\125\035\023\001\001\377 \004\005\060\003\001\001\377\060\012\006\010\052\206\110\316\075 $\\ \langle 004 \rangle 003 \rangle 003 \rangle 150 \rangle 000 \rangle 060 \rangle 145 \rangle 002 \rangle 061 \rangle 000 \rangle 357 \rangle 003 \rangle 133 \rangle 172 \rangle 254$ \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
\label{eq:condition} $$ \237 \ 164 \ 116 \ 237 \ 053 \ 115 \ 272 \ 354 \ 017 \ 061 \ 054 \ 120 \ 266 \ 126 \ 073 \ 216 $$
\055\223\303\021
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\174\142\377\164\235\061\123\136\150\112\325\170\252\036\277\043
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\205\061\013\060\011\006\003\125\004\006\023\002\107\102
\061\033\060\031\006\003\125\004\010\023\022\107\162\145\141\164
\145\162\040\115\141\156\143\150\145\163\164\145\162\061\020\060
\016\006\003\125\004\007\023\007\123\141\154\146\157\162\144\061
\label{eq:condition} $$ \032\060\030\006\003\125\004\012\023\021\103\117\115\117\104\117
\\ \\ 040\\ \\ 103\\ \\ 101\\ \\ 040\\ \\ 114\\ \\ 151\\ \\ 155\\ \\ 151\\ \\ 164\\ \\ 145\\ \\ 144\\ \\ 061\\ \\ 053\\ \\ 060\\ \\ 051\\ \\ 006
\003\125\004\003\023\042\103\117\115\117\104\117\040\105\103\103
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171
END
CKA_SERIAL_NUMBER
MULTILINE OCTAL
\002\020\037\107\257\252\142\000\160\120\124\114\001\236\233\143
\231\052
END
CKA TRUST SERVER AUTH CK TRUST CKT NSS TRUSTED DELEGATOR
CKA TRUST EMAIL PROTECTION CK TRUST CKT NSS TRUSTED DELEGATOR
CKA TRUST CODE SIGNING CK TRUST CKT NSS MUST VERIFY TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
# Certificate "OISTE WISeKey Global Root GA CA"
#
# Issuer: CN=OISTE WISeKey Global Root GA CA,OU=OISTE Foundation Endorsed,OU=Copyright (c)
2005,O=WISeKev,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=WISeKev,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

 $\label{eq:condition} $$ \000\201\212\061\013\060\011\006\003\125\004\012\023\007\127\111\123\145\113 $$ \145\171\061\033\060\031\006\003\125\004\013\023\022\103\157\160 $$ \171\162\151\147\150\164\040\050\143\051\040\062\060\060\065\061 $$ \042\060\040\006\003\125\004\013\023\031\117\111\123\124\105\040 $$ \106\157\165\156\144\141\164\151\157\156\040\105\156\144\157\162 $$ \163\145\144\061\050\060\046\006\003\125\004\003\023\037\117\111 $$ \123\124\105\040\127\111\123\145\113\145\171\040\107\154\157\142 $$ \141\154\040\122\157\156\164\040\107\101\040\103\101 $$$

END

CKA ID UTF8

"0"

CKA_ISSUER MULTILINE_OCTAL

 $\label{eq:condition} $$ \000\201\212\061\013\060\011\006\003\125\004\012\023\007\127\111\123\145\113\145\171\061\033\060\031\25\004\013\25\004\013\023\022\103\157\160\171\162\151\147\150\164\040\050\143\051\040\062\060\060\065\061\042\060\040\006\003\125\004\013\023\031\117\111\123\124\105\040\106\157\165\156\144\141\164\151\157\156\040\105\156\144\157\162\163\145\144\061\050\060\046\006\003\125\0004\003\023\037\117\111\123\124\105\040\127\111\123\145\113\145\171\040\107\154\157\142\141\154\040\122\157\157\164\040\107\101\040\103\101$

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

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

END

CKA_VALUE MULTILINE_OCTAL

\105\040\127\111\123\145\113\145\171\040\107\154\157\142\141\154 \040\122\157\157\164\040\107\101\040\103\101\060\036\027\015\060 \065\061\062\061\061\061\066\060\063\064\064\132\027\015\063\067 \061\062\061\061\061\066\060\071\065\061\132\060\201\212\061\013 \060\011\006\003\125\004\006\023\002\103\110\061\020\060\016\006 \003\125\004\012\023\007\127\111\123\145\113\145\171\061\033\060 \031\006\003\125\004\013\023\022\103\157\160\171\162\151\147\150 \164\040\050\143\051\040\062\060\060\065\061\042\060\040\006\003 \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 \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 $\label{eq:condition} $$ \060\202\001\012\002\202\001\001\000\313\117\263\000\233\075\066 $$$ \335\371\321\111\152\153\020\111\037\354\330\053\262\306\370\062 \201\051\103\225\114\232\031\043\041\025\105\336\343\310\034\121 \125\133\256\223\350\067\377\053\153\351\324\352\276\052\335\250 \121\053\327\146\303\141\134\140\002\310\365\316\162\173\073\270 \362\116\145\010\232\315\244\152\031\301\001\273\163\246\327\366 \303\335\315\274\244\213\265\231\141\270\001\242\243\324\115\324 \005\075\221\255\370\264\010\161\144\257\160\361\034\153\176\366 \303\167\235\044\163\173\344\014\214\341\331\066\341\231\213\005 \231\013\355\105\061\011\312\302\000\333\367\162\240\226\252\225 \207\320\216\307\266\141\163\015\166\146\214\334\033\264\143\242 \237\177\223\023\060\361\241\047\333\331\377\054\125\210\221\240 \340\117\007\260\050\126\214\030\033\227\104\216\211\335\340\027 \156\347\052\357\217\071\012\061\204\202\330\100\024\111\056\172 \101\344\247\376\343\144\314\301\131\161\113\054\041\247\133\175 \340\035\321\056\201\233\303\330\150\367\275\226\033\254\160\261 $\label{eq:condition} $$ \026\024\013\333\140\271\046\001\005\002\003\001\000\001\243\121 $$$ \060\117\060\013\006\003\125\035\017\004\004\003\002\001\206\060 \017\006\003\125\035\023\001\001\377\004\005\060\003\001\001\377 \060\035\006\003\125\035\016\004\026\004\024\263\003\176\256\066 \274\260\171\321\334\224\046\266\021\276\041\262\151\206\224\060 \020\006\011\053\006\001\004\001\202\067\025\001\004\003\002\001 \000\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000 $\label{eq:condition} $$ \003\202\001\000\113\241\377\013\207\156\263\371\301\103\261 $$$ \110\363\050\300\035\056\311\011\101\372\224\000\034\244\244\253 \111\117\217\075\036\357\115\157\275\274\244\366\362\046\060\311 \020\312\035\210\373\164\031\037\205\105\275\260\154\121\371\066 \176\333\365\114\062\072\101\117\133\107\317\350\013\055\266\304 \031\235\164\305\107\306\073\152\017\254\024\333\074\364\163\234 \251\005\337\000\334\164\170\372\370\065\140\131\002\023\030\174 \274\373\115\260\040\155\103\273\140\060\172\147\063\134\305\231 \321\370\055\071\122\163\373\214\252\227\045\134\162\331\010\036 \253\116\074\343\201\061\237\003\246\373\300\376\051\210\125\332 \204\325\120\003\266\342\204\243\246\066\252\021\072\001\341\030

\113\326\104\150\263\075\371\123\164\204\263\106\221\106\226\000 \267\200\054\266\341\343\020\342\333\242\347\050\217\001\226\142 \026\076\000\343\034\245\066\201\030\242\114\122\166\300\021\243 $\label{eq:condition} $$ \frac{346}{035} \frac{272}{343} \frac{132}{276} \frac{66}{123} \frac{305}{076} \frac{165}{217} \frac{206}{151} \frac{151}{051}$ \130\123\265\234\273\157\237\134\305\030\354\335\057\341\230\311 \374\276\337\012\015 **END** CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE CKA NSS SERVER DISTRUST AFTER CK BBOOL CK FALSE CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE Trust for "OISTE WISeKey Global Root GA CA" # Issuer: CN=OISTE WISeKey Global Root GA CA,OU=OISTE Foundation Endorsed,OU=Copyright (c) 2005,O=WISeKey,C=CH # Serial Number:41:3d:72:c7:f4:6b:1f:81:43:7d:f1:d2:28:54:df:9a # Subject: CN=OISTE WISeKey Global Root GA CA,OU=OISTE Foundation Endorsed,OU=Copyright (c) 2005,O=WISeKey,C=CH # Not Valid Before: Sun Dec 11 16:03:44 2005 # Not Valid After: Fri Dec 11 16:09:51 2037 # Fingerprint (SHA-256): 41:C9:23:86:6A:B4:CA:D6:B7:AD:57:80:81:58:2E:02:07:97:A6:CB:DF:4F:FF:78:CE:83:96:B3:89:37:D7:F5 # Fingerprint (SHA1): 59:22:A1:E1:5A:EA:16:35:21:F8:98:39:6A:46:46:B0:44:1B:0F:A9 CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST CKA TOKEN CK BBOOL CK TRUE CKA PRIVATE CK BBOOL CK FALSE CKA_MODIFIABLE CK_BBOOL CK_FALSE CKA LABEL UTF8 "OISTE WISeKey Global Root GA CA" CKA CERT SHA1 HASH MULTILINE OCTAL $\label{eq:condition} $$1\042\241\341\132\352\026\065\041\370\230\071\152\106\106\260$$ \104\033\017\251 **END** CKA CERT MD5 HASH MULTILINE OCTAL \274\154\121\063\247\351\323\146\143\124\025\162\033\041\222\223 **END** CKA ISSUER MULTILINE OCTAL $\label{eq:condition} $$ \060\201\212\061\013\060\011\006\003\125\004\006\023\002\103\110 $$$ \145\171\061\033\060\031\006\003\125\004\013\023\022\103\157\160 \171\162\151\147\150\164\040\050\143\051\040\062\060\060\065\061 \042\060\040\006\003\125\004\013\023\031\117\111\123\124\105\040 \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

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

END

```
\label{eq:condition} $$ \002\020\101\075\162\307\364\153\037\201\103\175\361\322\050\124$$
\337\232
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA TRUST CODE SIGNING CK TRUST CKT NSS MUST VERIFY TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
# Certificate "Certigna"
Issuer: CN=Certigna,O=Dhimyotis,C=FR
# Serial Number:00:fe:dc:e3:01:0f:c9:48:ff
# Subject: CN=Certigna,O=Dhimyotis,C=FR
# Not Valid Before: Fri Jun 29 15:13:05 2007
# Not Valid After: Tue Jun 29 15:13:05 2027
# Fingerprint (SHA-256):
E3:B6:A2:DB:2E:D7:CE:48:84:2F:7A:C5:32:41:C7:B7:1D:54:14:4B:FB:40:C1:1F:3F:1D:0B:42:F5:EE:A1:2D
# Fingerprint (SHA1): B1:2E:13:63:45:86:A4:6F:1A:B2:60:68:37:58:2D:C4:AC:FD:94:97
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA PRIVATE CK BBOOL CK FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA LABEL UTF8 "Certigna"
CKA CERTIFICATE TYPE CK CERTIFICATE TYPE CKC X 509
CKA_SUBJECT MULTILINE_OCTAL
\060\064\061\013\060\011\006\003\125\004\006\023\002\106\122\061
\022\060\020\006\003\125\004\012\014\011\104\150\151\155\171\157
\162\164\151\147\156\141
END
CKA ID UTF8 "0"
CKA ISSUER MULTILINE OCTAL
\060\064\061\013\060\011\006\003\125\004\006\023\002\106\122\061
\022\060\020\006\003\125\004\012\014\011\104\150\151\155\171\157
\label{eq:condition} $$ 164\151\163\061\021\060\017\006\003\125\004\003\014\010\103\145
\162\164\151\147\156\141
END
CKA_SERIAL_NUMBER
MULTILINE OCTAL
\002\011\000\376\334\343\001\017\311\110\377
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\250\060\202\002\220\240\003\002\001\002\002\011\000
\376\334\343\001\017\311\110\377\060\015\006\011\052\206\110\206
\367\015\001\001\005\005\000\060\064\061\013\060\011\006\003\125
```

CKA SERIAL NUMBER MULTILINE OCTAL

\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 $\label{eq:condition} $$ \0.013\0.001\0.003\1.25\0.04\0.06\0.023\0.02\1.06\1.22\0.061\0.020\0.020$ \006\003\125\004\012\014\011\104\150\151\155\171\157\164\151\163 \061\021\060\017\006\003\125\004\003\014\010\103\145\162\164\151 \147\156\141\060\202\001\042\060\015\006\011\052\206\110\206\367 \015\001\001\001\005\000\003\202\001\017\000\060\202\001\012\002 \202\001\001\000\310\150\361\311\326\326\263\064\165\046\202\036 $\label{eq:condition} $$ \frac{354}{264} \frac{352}{134} \frac{341}{046} \frac{355}{021} \frac{107}{141} \frac{341}{242} \frac{174}{026} \frac{170}{141} \frac{341}{242} \frac{174}{026} \frac{170}{141} \frac{1}{341} \frac{1}{341$ \100\041\344\140\236\132\310\143\341\304\261\226\222\377\030\155 $\label{eq:condition} $$ \frac{151}043\frac{341}053\frac{342}367\frac{335}342\\066\frac{057}221\frac{007}271\frac{110}317\\016$ $\label{eq:condition} $$ \frac{354}171\266\054\347\064\113\160\010\045\243\074\207\033\031\362$$$ \201\007\017\070\220\031\323\021\376\206\264\362\321\136\036\036 \226\315\200\154\316\073\061\223\266\362\240\320\251\225\022\175 \245\232\314\153\310\204\126\212\063\251\347\042\025\123\026\360 \314\027\354\127\137\351\242\012\230\011\336\343\137\234\157\334 \110\343\205\013\025\132\246\272\237\254\110\343\011\262\367\364 \062\336\136\064\276\034\170\135\102\133\316\016\042\217\115\220 \327\175\062\030\263\013\054\152\277\216\077\024\021\211\040\016 $\label{eq:condition} $$ 167\024\265\075\224\010\207\367\045\036\325\262\140\000\354\157 $$$ \052\050\045\156\052\076\030\143\027\045\077\076\104\040\026\366 \046\310\045\256\005\112\264\347\143\054\363\214\026\123\176\134 \373\021\032\010\301\106\142\237\042\270\361\302\215\151\334\372 \072\130\006\337\002\003\001\000\001\243\201\274\060\201\271\060 \060\035\006\003\125\035\016\004\026\004\024\032\355\376\101\071 \220\264\044\131\276\001\362\122\325\105\366\132\071\334\021\060 $\label{eq:condition} $$ 144\006\003\125\035\043\004\135\060\133\200\024\032\355\376\101 $$$ \071\220\264\044\131\276\001\362\122\325\105\366\132\071\334\021 \241\070\244\066\060\064\061\013\060\011\006\003\125\004\006\023 \151\155\171\157\164\151\163\061\021\060\017\006\003\125\004\003 \014\010\103\145\162\164\151\147\156\141\202\011\000\376\334\343 \001\017\311\110\377\060\016\006\003\125\035\017\001\001\377\004 $\label{eq:condition} $$ \004\003\002\001\006\0021\006\011\140\206\110\001\206\370\102 $$$ $\label{eq:condition} $$ \001\004\004\003\002\000\007\060\015\006\011\052\206\110\206$ \367\015\001\001\005\005\000\003\202\001\001\000\205\003\036\222 \161\366\102\257\341\243\141\236\353\363\300\017\362\245\324\332 \225\346\326\276\150\066\075\176\156\037\114\212\357\321\017\041 \155\136\245\122\143\316\022\370\357\052\332\157\353\067\376\023 \002\307\313\073\076\042\153\332\141\056\177\324\162\075\335\060 $\label{eq:condition} $$ 341 \cdot 036 \cdot 114 \cdot 100 \cdot 031 \cdot 214 \cdot 017 \cdot 327 \cdot 234 \cdot 321 \cdot 203 \cdot 060 \cdot 173 \cdot 230 \cdot 131 \cdot 334 \cdot 1203 \cdot 060 \cdot 173 \cdot 230 \cdot 131 \cdot 334 \cdot 1203 \cdot 060 \cdot 173 \cdot 1203 \cdot 060 \cdot 1203 \cdot 060 \cdot 173 \cdot 1203 \cdot 060 \cdot 173 \cdot 1203 \cdot 060 \cdot 1203 \cdot 060 \cdot 1203 \cdot 060 \cdot 1203 \cdot 1203 \cdot 060 \cdot 0$ \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 $\verb|265|306|237|065|036|120|320|301|217|152|160|104|002|142|313|256|$

END

CKA_NSS_MOZILLA_CA_POLICY

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

 $\label{eq:condition} $$ \022\060\020\006\003\125\004\012\014\011\104\150\151\155\171\157$

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

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

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

END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR

CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR

CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST

CKA TRUST STEP UP APPROVED CK BBOOL CK FALSE # # Certificate "ePKI Root Certification Authority" # Issuer: OU=ePKI Root Certification Authority,O="Chunghwa Telecom Co., Ltd.",C=TW # Serial Number:15:c8:bd:65:47:5c:af:b8:97:00:5e:e4:06:d2:bc:9d # Subject: OU=ePKI Root Certification Authority,O="Chunghwa Telecom Co., Ltd.",C=TW # Not Valid Before: Mon Dec 20 02:31:27 2004 # Not Valid After: Wed Dec 20 02:31:27 2034 # Fingerprint (SHA-256): C0:A6:F4:DC:63:A2:4B:FD:CF:54:EF:2A:6A:08:2A:0A:72:DE:35:80:3E:2F:F5:FF:52:7A:E5:D8:72:06:DF:D5 Fingerprint (SHA1): 67:65:0D:F1:7E:8E:7E:5B:82:40:A4:F4:56:4B:CF:E2:3D:69:C6:F0 CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE CKA TOKEN CK BBOOL CK TRUE CKA_PRIVATE CK_BBOOL CK_FALSE CKA MODIFIABLE CK BBOOL CK FALSE CKA LABEL UTF8 "ePKI Root Certification Authority" CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509 CKA SUBJECT MULTILINE OCTAL \060\136\061\013\060\011\006\003\125\004\006\023\002\124\127\061 $\\ \\043\\060\\041\\006\\003\\125\\004\\012\\014\\032\\103\\150\\165\\156\\147\\150$ \167\141\040\124\145\154\145\143\157\155\040\103\157\056\054\040 \114\164\144\056\061\052\060\050\006\003\125\004\013\014\041\145 \120\113\111\040\122\157\157\164\040\103\145\162\164\151\146\151 \143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171 **END** CKA ID UTF8 "0" CKA ISSUER MULTILINE OCTAL $\label{eq:condition} $$ \060\136\061\013\060\011\006\003\125\004\006\023\002\124\127\061 $$$ \043\060\041\006\003\125\004\012\014\032\103\150\165\156\147\150 \167\141\040\124\145\154\145\143\157\155\040\103\157\056\054\040 \114\164\144\056\061\052\060\050\006\003\125\004\013\014\041\145 \120\113\111\040\122\157\157\164\040\103\145\162\164\151\146\151 \143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171 **END** CKA_SERIAL_NUMBER MULTILINE OCTAL \002\020\025\310\275\145\107\134\257\270\227\000\136\344\006\322

\274\235

END

CKA_VALUE MULTILINE_OCTAL

\060\202\005\260\060\202\003\230\240\003\002\001\002\002\020\025 \310\275\145\107\134\257\270\227\000\136\344\006\322\274\235\060 \015\006\011\052\206\110\206\367\015\001\001\005\005\000\060\136 \061\013\060\011\006\003\125\004\006\023\002\124\127\061\043\060 \041\006\003\125\004\012\014\032\103\150\165\156\147\150\167\141

\040\124\145\154\145\143\157\155\040\103\157\056\054\040\114\164 \144\056\061\052\060\050\006\003\125\004\013\014\041\145\120\113 $\label{eq:condition} $$ \frac{111\040\122\157\157\164\040\103\145\162\164\151\146\151\143\141}{140\151\146\151\143\141} $$$ $\label{eq:condition} $$ 164\151\157\156\040\101\165\164\150\157\162\151\164\171\060\036$$ \027\015\060\064\061\062\062\060\060\062\063\061\062\067\132\027 \061\013\060\011\006\003\125\004\006\023\002\124\127\061\043\060 \041\006\003\125\004\012\014\032\103\150\165\156\147\150\167\141 $\\ \\ 040\\ \\ 124\\ \\ 145\\ \\ 154\\ \\ 145\\ \\ 143\\ \\ 157\\ \\ 155\\ \\ 040\\ \\ 103\\ \\ 157\\ \\ 056\\ \\ 054\\ \\ 040\\ \\ 114\\ \\ 164$ \144\056\061\052\060\050\006\003\125\004\013\014\041\145\120\113 $\label{eq:condition} $$ \frac{111\040\122\157\157\164\040\103\145\162\164\151\146\151\143\141}{140\151\146\151\143\141} $$$ $\label{eq:condition} $$ 164\151\157\156\040\101\165\164\150\157\162\151\164\171\060\202$ \002\042\060\015\006\011\052\206\110\206\367\015\001\001\001\005 $\label{eq:condition} $$ \000\003\202\002\017\000\060\202\002\012\002\202\002\001\000\341 $$$ $\\ \\045\\017\\356\\215\\333\\210\\063\\165\\147\\315\\255\\037\\175\\072\\116\\155$ \235\323\057\024\363\143\164\313\001\041\152\067\352\204\120\007 \113\046\133\011\103\154\041\236\152\310\325\003\365\140\151\217 \314\360\042\344\037\347\367\152\042\061\267\054\025\362\340\376 \000\152\103\377\207\145\306\265\032\301\247\114\155\042\160\041 \212\061\362\227\164\211\011\022\046\034\236\312\331\022\242\225 \074\332\351\147\277\010\240\144\343\326\102\267\105\357\227\364 \366\365\327\265\112\025\002\130\175\230\130\113\140\274\315\327 $\label{eq:condition} $$ \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 $\label{eq:condition} $$ 327\327\152\356\073\070\343\053\324\227\016\271\033\347\007\111 $$$ \177\067\052\371\167\170\317\124\355\133\106\235\243\200\016\221 \103\301\326\133\137\024\272\237\246\215\044\107\100\131\277\162 $\label{eq:condition} $$ \070\262\066\154\067\377\231\321\135\016\131\012\253\151\367\300 $$$ \262\004\105\172\124\000\256\276\123\366\265\347\341\370\074\243 \061\322\251\376\041\122\144\305\246\147\360\165\007\006\224\024 \201\125\306\047\344\001\217\027\301\152\161\327\276\113\373\224 \130\175\176\021\063\261\102\367\142\154\030\326\317\011\150\076 \177\154\366\036\217\142\255\245\143\333\011\247\037\042\102\101 \036\157\231\212\076\327\371\077\100\172\171\260\245\001\222\322 \235\075\010\025\245\020\001\055\263\062\166\250\225\015\263\172 $\label{eq:condition} $$ \232\373\007\020\170\021\157\341\217\307\272\017\045\032\164\052$$ \345\034\230\101\231\337\041\207\350\225\006\152\012\263\152\107 \166\145\366\072\317\217\142\027\031\173\012\050\315\032\322\203 \036\041\307\054\277\276\377\141\150\267\147\033\273\170\115\215 \316\147\345\344\301\216\267\043\146\342\235\220\165\064\230\251 \066\053\212\232\224\271\235\354\314\212\261\370\045\211\134\132 \266\057\214\037\155\171\044\247\122\150\303\204\065\342\146\215 \143\016\045\115\325\031\262\346\171\067\247\042\235\124\061\002 \003\001\000\001\243\152\060\150\060\035\006\003\125\035\016\004 $\label{eq:condition} $$ \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 $\label{eq:condition} $$ \0.057\0.005\0.055\0.02\0.01\0.000\0.01\0.005\0.053\0.16\0.03\0.02\0.032\0.05 $$$ \000\060\007\006\005\147\052\003\000\000\004\024\105\260\302\307 $\label{eq:condition} $$ \012\126\174\356\133\170\014\225\371\030\123\301\246\034\330\020 $$$ $\label{eq:condition} $$ \006\011\052\206\110\206\367\015\001\001\005\005\000\003$ \202\002\001\000\011\263\203\123\131\001\076\225\111\271\361\201 \272\371\166\040\043\265\047\140\164\324\152\231\064\136\154\000 $\label{eq:condition} $$ \frac{331}{237}\frac{362}{246}\frac{007}{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 $\label{eq:condition} $$ \077\006\151\126\163\303\212\146\110\373\051\201\127\164\006\312 $$$ \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 $\\ \\ \langle 045 \rangle 173 \rangle 150 \rangle 120 \rangle 164 \rangle 125 \rangle 234 \rangle 014 \rangle 131 \rangle 175 \rangle 132 \rangle 075 \rangle 101 \rangle 224 \rangle 045 \rangle 122 \rangle 122 \rangle 123 \rangle 123$ $\label{eq:condition} $$ \010\340\107\054\025\061\031\325\277\007\125\306\273\022\265\227 $$$ \364\137\203\205\272\161\301\331\154\201\021\166\012\012\260\277 $\label{eq:condition} $$ \202\227\367\352\075\372\372\354\055\251\050\224\073\126\335\322 $$$ \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 $\label{eq:condition} $$ 346\351\12\352\120\212\017\141\223\036\342\055\031\342\060\224 $$$ \065\222\135\016\266\007\257\031\200\217\107\220\121\113\056\115 \335\205\342\322\012\122\012\027\232\374\032\260\120\002\345\001 \243\143\067\041\114\104\304\233\121\231\021\016\163\234\006\217 \124\056\247\050\136\104\071\207\126\055\067\275\205\104\224\341 $\label{eq:condition} $$ \014\13\054\234\303\222\205\064\141\313\017\270\233\112\103\122 $$$ \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 $\label{eq:condition} $$ 104\347\176\130\133\250\270\215\023\351\247\154\303\107\355\263$ \032\235\142\256\215\202\352\224\236\335\131\020\303\255\335\342 \115\343\061\325\307\354\350\362\260\376\222\036\026\012\032\374 \331\363\370\047\266\311\276\035\264\154\144\220\177\364\344\304 \133\327\067\256\102\016\335\244\032\157\174\210\124\305\026\156 \341\172\150\056\370\072\277\015\244\074\211\073\170\247\116\143 \203\004\041\010\147\215\362\202\111\320\133\375\261\315\017\203 $\label{eq:condition} $$ \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:condition} $$ \frac{147}145\\015\\361\\176\\216\\176\\133\\202\\100\\244\\364\\126\\113\\317\\342
\075\151\306\360
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\033\056\000\312\046\006\220\075\255\376\157\025\150\323\153\263
END
CKA_ISSUER MULTILINE_OCTAL
\060\136\061\013\060\011\006\003\125\004\006\023\002\124\127\061
\043\060\041\006\003\125\004\012\014\032\103\150\165\156\147\150
\label{eq:condition} $$ 167\141\040\124\145\154\145\143\157\155\040\103\157\056\054\040 $$
\114\164\144\056\061\052\060\050\006\003\125\004\013\014\041\145
\120\113\111\040\122\157\157\164\040\103\145\162\164\151\146\151
\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\025\310\275\145\107\134\257\270\227\000\136\344\006\322
\274\235
END
CKA TRUST SERVER AUTH
CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA TRUST EMAIL PROTECTION CK TRUST CKT NSS TRUSTED DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
# Certificate "certSIGN ROOT CA"
# Issuer: OU=certSIGN ROOT CA,O=certSIGN,C=RO
# Serial Number:20:06:05:16:70:02
# Subject: OU=certSIGN ROOT CA,O=certSIGN,C=RO
# Not Valid Before: Tue Jul 04 17:20:04 2006
# Not Valid After: Fri Jul 04 17:20:04 2031
# Fingerprint (SHA-256):
EA:A9:62:C4:FA:4A:6B:AF:EB:E4:15:19:6D:35:1C:CD:88:8D:4F:53:F3:FA:8A:E6:D7:C4:66:A9:4E:60:42:BB
# Fingerprint (SHA1): FA:B7:EE:36:97:26:62:FB:2D:B0:2A:F6:BF:03:FD:E8:7C:4B:2F:9B
```

CKA CLASS CK OBJECT CLASS CKO CERTIFICATE

CKA TOKEN CK BBOOL CK TRUE

CKA PRIVATE CK BBOOL CK FALSE

CKA MODIFIABLE CK BBOOL CK FALSE

CKA_LABEL UTF8 "certSIGN ROOT CA"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA SUBJECT MULTILINE OCTAL

END

CKA ID

UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

END

CKA SERIAL NUMBER MULTILINE OCTAL

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

END

CKA VALUE MULTILINE OCTAL

 $\label{eq:condition} $$ \0.060\202\0.060\202\0.02\0.040\240\0.03\0.02\0.01\0.02\0.02\0.06\0.40$$$ \006\005\026\160\002\060\015\006\011\052\206\110\206\367\015\001 \001\005\005\000\060\073\061\013\060\011\006\003\125\004\006\023 $\label{eq:condition} $$ \002\122\117\061\021\060\017\006\003\125\004\012\023\010\143\145$$$ \162\164\123\111\107\116\061\031\060\027\006\003\125\004\013\023 \020\143\145\162\164\123\111\107\116\040\122\117\117\124\040\103 \101\060\036\027\015\060\066\060\067\060\064\061\067\062\060\060 \064\132\027\015\063\061\060\067\060\064\061\067\062\060\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\005 \000\003\202\001\017\000\060\202\001\012\002\202\001\001\000\267 $\label{eq:condition} $$ \063\271\176\310\045\112\216\265\333\264\050\033\252\127\220\350$$ \321\042\323\144\272\323\223\350\324\254\206\141\100\152\140\127 \150\124\204\115\274\152\124\002\005\377\337\233\232\052\256\135 $\\ \\007\\217\\112\\303\\050\\177\\357\\373\\053\\372\\171\\361\\307\\255\\360\\020$ \123\044\220\213\146\311\250\210\253\257\132\243\000\351\276\272 \106\356\133\163\173\054\027\202\201\136\142\054\241\002\145\263 \275\305\053\000\176\304\374\003\063\127\015\355\342\372\316\135 \105\326\070\315\065\266\262\301\320\234\201\112\252\344\262\001 \134\035\217\137\231\304\261\255\333\210\041\353\220\010\202\200 \363\060\243\103\346\220\202\256\125\050\111\355\133\327\251\020

\070\016\376\217\114\133\233\106\352\101\365\260\010\164\303\320 \210\063\266\174\327\164\337\334\204\321\103\016\165\071\241\045 \100\050\352\170\313\016\054\056\071\235\214\213\156\026\034\057 $\\ \\ 046\\ \\ 202\\ \\ 020\\ \\ 342\\ \\ 343\\ \\ 145\\ \\ 224\\ \\ 012\\ \\ 004\\ \\ 300\\ \\ 136\\ \\ 367\\ \\ 135\\ \\ 133\\ \\ 370\\ \\ 020$ \342\320\272\172\113\373\336\067\000\000\032\133\050\343\322\234 \163\076\062\207\230\241\311\121\057\327\336\254\063\263\117\002 \003\001\000\001\243\102\060\100\060\017\006\003\125\035\023\001 $\label{eq:condition} $$ \001\377\004\005\060\003\001\001\377\060\016\006\003\125\035\017 $$$ $\label{eq:condition} $$ \001\001\377\004\004\003\002\001\306\060\035\006\003\125\035\016 $$$ \004\026\004\024\340\214\233\333\045\111\263\361\174\206\326\262 \102\207\013\320\153\240\331\344\060\015\006\011\052\206\110\206 $\label{eq:condition} $$ \367\015\001\001\000\005\000\003\202\001\001\000\076\322\034\211 $$$ \056\065\374\370\165\335\346\177\145\210\364\162\114\311\054\327 $\label{eq:condition} $$ \031\171\107\275\216\073\133\223\017\120\111\044$$$ $\label{eq:condition} $$ \023\153\024\006\162\357\011\323\241\241\343\100\204\311\347\030 $$$ \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 $\label{eq:condition} $\343\210\061\370\131\032\201\011\310\227\246\164\307\140\304\133$ $\label{eq:condition} $$ \frac{314}127\\216\\262\\165\\375\\033\\002\\011\\333\\131\\157\\162\\223\\151\\367$ \061\101\326\210\070\277\207\262\275\026\171\371\252\344\276\210 $\\ \\045\\335\\141\\047\\043\\034\\265\\061\\007\\004\\066\\264\\032\\220\\275\\240$ \164\161\120\211\155\274\024\343\017\206\256\361\253\076\307\240 \011\314\243\110\321\340\333\144\347\222\265\317\257\162\103\160 $\label{eq:condition} $$ \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
\label{eq:condition} $$ \021\060\017\006\003\125\004\012\023\010\143\145\162\164\123\111 $$
\label{eq:condition} $$ 107\116\061\031\060\027\006\003\125\004\013\023\020\143\145\162 $$
\164\123\111\107\116\040\122\117\117\124\040\103\101
END
CKA_SERIAL_NUMBER
MULTILINE OCTAL
\002\006\040\006\005\026\160\002
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA TRUST CODE SIGNING CK TRUST CKT NSS MUST VERIFY TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
# Certificate "NetLock Arany (Class Gold) Ftanúsítvány"
# Issuer: CN=NetLock Arany (Class Gold) F..tan..s..tv..ny,OU=Tan..s..tv..nykiad..k (Certification
Services),O=NetLock Kft.,L=Budapest,C=HU
# Serial Number:49:41:2c:e4:00:10
# Subject: CN=NetLock Arany (Class Gold) F..tan..s..tv..ny,OU=Tan..s..tv..nykiad..k (Certification
Services),O=NetLock Kft.,L=Budapest,C=HU
# Not Valid Before: Thu Dec 11 15:08:21 2008
# Not Valid After: Wed Dec 06 15:08:21 2028
# Fingerprint (SHA-256):
6C:61:DA:C3:A2:DE:F0:31:50:6B:E0:36:D2:A6:FE:40:19:94:FB:D1:3D:F9:C8:D4:66:59:92:74:C4:46:EC:98
Fingerprint (SHA1): 06:08:3F:59:3F:15:A1:04:A0:69:A4:6B:A9:03:D0:06:B7:97:09:91
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "NetLock Arany (Class Gold) Ftanúsítvány"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\label{eq:condition} $$ \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
```

 $\label{eq:control_loss} $$ \frac{125\,004\,013\,014\,056\,124\,141\,156\,303\,272\,163\,303\,255\,164\,166\,303}{241\,156\,171\,153\,151\,141\,144\,303\,263\,153\,040\,050\,103\,145\,162\,164} $$ \frac{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} $$ \frac{164\,114\,157\,143\,153\,040\,101\,162\,141\,156\,171\,040\,050\,103\,154\,141}{163\,163\,040\,107\,157\,154\,144\,051\,040\,106\,305\,221\,164\,141\,156\,303} $$ \frac{272\,163\,303\,255\,164\,166\,303\,241\,156\,171} $$$

END

CKA ID

UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

 $\label{eq:condition} $$ \000\201\247\061\013\060\011\006\003\125\0004\0007\014\010\102\165\144\141\160\145\163\164\061\025\060\023\006\003\125\0004\012\014\014\116\145\164\114\157\143\153\040\113\146\164\056\061\067\060\065\006\003\125\0004\013\145\162\164\151\144\156\171\153\151\141\144\303\263\153\040\050\103\145\162\164\151\143\141\164\151\157\156\004\0123\145\162\166\151\143\145\163\051\061\065\060\063\006\003\125\0004\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 VALUE MULTILINE OCTAL

 $\label{eq:condition} $$ \060\202\004\025\060\202\002\375\240\003\002\001\002\002\006\111 $$$ \101\054\344\000\020\060\015\006\011\052\206\110\206\367\015\001 \001\013\005\000\060\201\247\061\013\060\011\006\003\125\004\006 $\label{eq:condition} $$ \023\02\110\125\061\021\060\017\006\003\125\004\007\014\010\102$ \165\144\141\160\145\163\164\061\025\060\023\006\003\125\004\012 \014\014\116\145\164\114\157\143\153\040\113\146\164\056\061\067 \060\065\006\003\125\004\013\014\056\124\141\156\303\272\163\303 \255\164\166\303\241\156\171\153\151\141\144\303\263\153\040\050 \103\145\162\164\151\146\151\143\141\164\151\157\156\040\123\145 \162\166\151\143\145\163\051\061\065\060\063\006\003\125\004\003 $\\ \\014\\\\054\\\\116\\\\145\\\\164\\\\114\\\\157\\\\143\\\\153\\\\040\\\\101\\\\162\\\\141\\\\156\\\\171\\\\040$ $\label{eq:condition} $$ \050\103\154\141\163\163\040\107\157\154\144\051\040\106\305\221 $$$ \164\141\156\303\272\163\303\255\164\166\303\241\156\171\060\036 \027\015\060\070\061\062\061\061\061\065\060\070\062\061\132\027 \015\062\070\061\062\060\066\061\065\060\070\062\061\132\060\201 \247\061\013\060\011\006\003\125\004\006\023\002\110\125\061\021 \060\017\006\003\125\004\007\014\010\102\165\144\141\160\145\163 \157\143\153\040\113\146\164\056\061\067\060\065\006\003\125\004 \013\014\056\124\141\156\303\272\163\303\255\164\166\303\241\156 \171\153\151\141\144\303\263\153\040\050\103\145\162\164\151\146

\151\143\141\164\151\157\156\040\123\145\162\166\151\143\145\163 \051\061\065\060\063\006\003\125\004\003\014\054\116\145\164\114 \157\143\153\040\101\162\141\156\171\040\050\103\154\141\163\163 \040\107\157\154\144\051\040\106\305\221\164\141\156\303\272\163 \303\255\164\166\303\241\156\171\060\202\001\042\060\015\006\011 $\label{eq:condition} $$ \052\206\110\206\367\015\001\001\001\005\000\003\202\001\017\000 $$$ \060\202\001\012\002\202\001\001\000\304\044\136\163\276\113\155 \024\303\241\364\343\227\220\156\322\060\105\036\074\356\147\331 \144\340\032\212\177\312\060\312\203\343\040\301\343\364\072\323 \224\137\032\174\133\155\277\060\117\204\047\366\237\037\111\274 $\label{eq:condition} $$ \306\231\012\220\362\017\365\177\103\204\067\143\121\213\172\245$$ \160\374\172\130\315\216\233\355\303\106\154\204\160\135\332\363 \001\220\043\374\116\060\251\176\341\047\143\347\355\144\074\240 \270\311\063\143\376\026\220\377\260\270\375\327\250\300\300\224 \103\013\266\325\131\246\236\126\320\044\037\160\171\257\333\071 \124\015\145\165\331\025\101\224\001\257\136\354\366\215\361\377 \255\144\376\040\232\327\134\353\376\246\037\010\144\243\213\166 \125\255\036\073\050\140\056\207\045\350\252\257\037\306\144\106 \040\267\160\177\074\336\110\333\226\123\267\071\167\344\032\342 \307\026\204\166\227\133\057\273\031\025\205\370\151\205\365\231 \247\251\362\064\247\251\266\246\003\374\157\206\075\124\174\166 \004\233\153\371\100\135\000\064\307\056\231\165\235\345\210\003 \252\115\370\003\322\102\166\300\033\002\003\000\250\213\243\105 \060\103\060\022\006\003\125\035\023\001\001\377\004\010\060\006 \001\001\377\002\001\004\060\016\006\003\125\035\017\001\001\377 \004\004\003\002\001\006\060\035\006\003\125\035\016\004\026\004 \024\314\372\147\223\360\266\270\320\245\300\036\363\123\375\214 \123\337\203\327\226\060\015\006\011\052\206\110\206\367\015\001 \001\013\005\000\003\202\001\001\000\253\177\356\034\026\251\234 \074\121\000\240\300\021\010\005\247\231\346\157\001\210\124\141 $\label{eq:condition} $$ \frac{361}{271}030\frac{55}{112}255\frac{376}{201}100\frac{43}{224}057\frac{373}{165}174$$ \057\050\113\142\044\201\202\013\365\141\361\034\156\270\141\070 \353\201\372\142\241\073\132\142\323\224\145\304\341\346\155\202 \370\057\045\160\262\041\046\301\162\121\037\214\054\303\204\220 \303\132\217\272\317\364\247\145\245\353\230\321\373\005\262\106 \165\025\043\152\157\205\143\060\200\360\325\236\037\051\034\302 \154\260\120\131\135\220\133\073\250\015\060\317\277\175\177\316 $\label{eq:condition} $$ \frac{361}{235} \frac{203}{275} \frac{311}{106} \frac{156}{040} \frac{246}{371} \frac{141}{121} \frac{272}{041} \frac{173}{057} \frac{173}{121} \frac{1}{121} \frac{$ \276\245\025\143\241\324\225\207\361\236\271\363\211\363\075\205 \270\270\333\276\265\271\051\371\332\067\005\000\111\224\003\204 \104\347\277\103\061\317\165\213\045\321\364\246\144\365\222\366 \253\005\353\075\351\245\013\066\142\332\314\006\137\066\213\266 \136\061\270\052\373\136\366\161\337\104\046\236\304\346\015\221 \264\056\165\225\200\121\152\113\060\246\260\142\241\223\361\233 \330\316\304\143\165\077\131\107\261

END

CKA_NSS_MOZILLA_CA_POLICY

CK BBOOL CK TRUE

CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE

CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "NetLock Arany (Class Gold) Ftanúsítvány"

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

Services),O=NetLock Kft.,L=Budapest,C=HU

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

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

Services),O=NetLock Kft.,L=Budapest,C=HU

Not Valid Before: Thu Dec 11 15:08:21 2008

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

Fingerprint (SHA-256):

6C:61:DA:C3:A2:DE:F0:31:50:6B:E0:36:D2:A6:FE:40:19:94:FB:D1:3D:F9:C8:D4:66:59:92:74:C4:46:EC:98

Fingerprint (SHA1): 06:08:3F:59:3F:15:A1:04:A0:69:A4:6B:A9:03:D0:06:B7:97:09:91

CKA CLASS

CK_OBJECT_CLASS CKO_NSS_TRUST

CKA TOKEN CK BBOOL CK TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA LABEL UTF8 "NetLock Arany (Class Gold) Ftanúsítvány"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL

 $\\ \\006\\010\\077\\131\\077\\025\\241\\004\\240\\151\\244\\153\\251\\003\\320\\006$

\267\227\011\221

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL

\305\241\267\377\163\335\326\327\064\062\030\337\374\074\255\210

END

CKA ISSUER MULTILINE OCTAL

 $\label{eq:condition} $$ \060\201\247\061\013\060\011\006\003\125\004\006\023\002\110\125$

 $\label{eq:condition} $$ \001\001\000\003\125\004\007\014\010\102\165\144\141\160$$

\164\114\157\143\153\040\113\146\164\056\061\067\060\065\006\003

 $\label{eq:condition} $$ \241\156\171\153\151\141\144\303\263\153\040\050\103\145\162\164$$$

\151\146\151\143\141\164\151\157\156\040\123\145\162\166\151\143 \145\163\051\061\065\060\063\006\003\125\004\003\014\054\116\145

\164\114\157\143\153\040\101\162\141\156\171\040\050\103\154\141

\163\163\040\107\157\154\144\051\040\106\305\221\164\141\156\303

\272\163\303\255\164\166\303\241\156\171

END

CKA_SERIAL_NUMBER

MULTILINE_OCTAL

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

END

 ${\tt CKA_TRUST_SERVER_AUTH\ CK_TRUST\ CKT_NSS_TRUSTED_DELEGATOR}$

CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR

CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST

```
#
# Certificate "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
\label{eq:condition} $$ \053\060\051\006\003\125\004\012\023\042\112\141\160\141\156\040 $$
\103\145\162\164\151\146\151\143\141\164\151\157\156\040\123\145
\162\166\151\143\145\163\054\040\111\156\143\056\061\034\060\032
\006\003\125\004\003\023\023\123\145\143\165\162\145\123\151\147
\156\040\122\157\157\164\103\101\061\061
END
CKA ID UTF8 "0"
CKA ISSUER MULTILINE OCTAL
\label{eq:condition} $$ \060\130\061\013\060\011\006\003\125\004\006\023\002\112\120\061\
\053\060\051\006\003\125\004\012\023\042\112\141\160\141\156\040
\103\145\162\164\151\146\151\143\141\164\151\157\156\040\123\145
\162\166\151\143\145\163\054\040\111\156\143\056\061\034\060\032
\006\003\125\004\003\023\023\123\145\143\165\162\145\123\151\147
\156\040\122\157\157\164\103\101\061\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001
END
CKA_VALUE
MULTILINE OCTAL
\060\202\003\155\060\202\002\125\240\003\002\001\002\002\001\001
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060
\130\061\013\060\011\006\003\125\004\006\023\002\112\120\061\053
\060\051\006\003\125\004\012\023\042\112\141\160\141\156\040\103
\145\162\164\151\146\151\143\141\164\151\157\156\040\123\145\162
\166\151\143\145\163\054\040\111\156\143\056\061\034\060\032\006
```

\003\125\004\003\023\023\123\145\143\165\162\145\123\151\147\156 \040\122\157\157\164\103\101\061\061\060\036\027\015\060\071\060 \064\060\070\060\064\065\066\064\067\132\027\015\062\071\060\064 \060\070\060\064\065\066\064\067\132\060\130\061\013\060\011\006 \003\125\004\006\023\002\112\120\061\053\060\051\006\003\125\004 \143\141\164\151\157\156\040\123\145\162\166\151\143\145\163\054 \040\111\156\143\056\061\034\060\032\006\003\125\004\003\023\023 \123\145\143\165\162\145\123\151\147\156\040\122\157\157\164\103 \101\061\061\060\202\001\042\060\015\006\011\052\206\110\206\367 \015\001\001\001\005\000\003\202\001\017\000\060\202\001\012\002 \202\001\001\000\375\167\252\245\034\220\005\073\313\114\233\063 \213\132\024\105\244\347\220\026\321\337\127\322\041\020\244\027 \375\337\254\326\037\247\344\333\174\367\354\337\270\003\332\224 \130\375\135\162\174\214\077\137\001\147\164\025\226\343\002\074 \207\333\256\313\001\216\302\363\146\306\205\105\364\002\306\072 \265\142\262\257\372\234\277\244\346\324\200\060\230\363\015\266 \223\217\251\324\330\066\362\260\374\212\312\054\241\025\063\225 \061\332\300\033\362\356\142\231\206\143\077\277\335\223\052\203 \250\166\271\023\037\267\316\116\102\205\217\042\347\056\032\362 \225\011\262\005\265\104\116\167\241\040\275\251\362\116\012\175 \120\255\365\005\015\105\117\106\161\375\050\076\123\373\004\330 $\label{eq:condition} $$ \055\327\145\035\112\033\372\317\073\260\061\232\065\156\310\213$ \006\323\000\221\362\224\010\145\114\261\064\006\000\172\211\342 \360\307\003\131\317\325\326\350\247\062\263\346\230\100\206\305 \315\047\022\213\314\173\316\267\021\074\142\140\007\043\076\053 \100\156\224\200\011\155\266\263\157\167\157\065\010\120\373\002 \207\305\076\211\002\003\001\000\001\243\102\060\100\060\035\006 \003\125\035\016\004\026\004\024\133\370\115\117\262\245\206\324 \072\322\361\143\232\240\276\011\366\127\267\336\060\016\006\003 \125\035\023\001\001\377\004\005\060\003\001\001\377\060\015\006 \011\052\206\110\206\367\015\001\001\005\005\000\003\202\001\001 \000\240\241\070\026\146\056\247\126\037\041\234\006\372\035\355 \271\042\305\070\046\330\116\117\354\243\177\171\336\106\041\241 \207\167\217\007\010\232\262\244\305\257\017\062\230\013\174\146 \051\266\233\175\045\122\111\103\253\114\056\053\156\172\160\257 $\label{eq:condition} $$ \026\016\343\002\154\373\102\346\030\235\105\330\125\310\350\073$ $\label{eq:condition} $$ 35\347\341\364\056\013\034\064\134\154\130\112\373\214\210\120$ \137\225\034\277\355\253\042\265\145\263\205\272\236\017\270\255 \345\172\033\212\120\072\035\275\015\274\173\124\120\013\271\102 \257\125\240\030\201\255\145\231\357\276\344\234\277\304\205\253 \101\262\124\157\334\045\315\355\170\342\216\014\215\011\111\335 \143\173\132\151\226\002\041\250\275\122\131\351\175\065\313\310 \122\312\177\201\376\331\153\323\367\021\355\045\337\370\347\371 \244\372\162\227\204\123\015\245\320\062\030\121\166\131\024\154 \017\353\354\137\200\214\165\103\203\303\205\230\377\114\236\055 $\label{eq:condition} $$ \015\344\167\203\223\116\265\226\007\213\050\023\233\214\031\215$

```
\label{eq:condition} $$101\047\111\100\356\336\346\043\104\071\334\241\042\326\272\003
```

\362 END

CKA_NSS_MOZILLA_CA_POLICY

CK BBOOL CK TRUE

CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE

CKA NSS EMAIL DISTRUST AFTER CK BBOOL CK FALSE

Trust for "SecureSign RootCA11"

Issuer: CN=SecureSign RootCA11,O="Japan Certification Services, Inc.",C=JP

Serial Number: 1 (0x1)

Subject: CN=SecureSign RootCA11,O="Japan Certification Services, Inc.",C=JP

Not Valid

Before: Wed Apr 08 04:56:47 2009

Not Valid After: Sun Apr 08 04:56:47 2029

Fingerprint (SHA-256):

BF:0F:EE:FB:9E:3A:58:1A:D5:F9:E9:DB:75:89:98:57:43:D2:61:08:5C:4D:31:4F:6F:5D:72:59:AA:42:16:12

Fingerprint (SHA1): 3B:C4:9F:48:F8:F3:73:A0:9C:1E:BD:F8:5B:B1:C3:65:C7:D8:11:B3

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

CKA_TOKEN CK_BBOOL CK_TRUE

CKA PRIVATE CK BBOOL CK FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "SecureSign RootCA11"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL

\073\304\237\110\370\363\163\240\234\036\275\370\133\261\303\145

\307\330\021\263

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL

\267\122\164\342\222\264\200\223\362\165\344\314\327\362\352\046

END

CKA_ISSUER MULTILINE_OCTAL

\060\130\061\013\060\011\006\003\125\004\006\023\002\112\120\061

\053\060\051\006\003\125\004\012\023\042\112\141\160\141\156\040

\103\145\162\164\151\146\151\143\141\164\151\157\156\040\123\145

 $\label{eq:condition} $$ 162\166\151\143\145\163\054\040\111\156\143\056\061\034\060\032$$

\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

 ${\tt CKA_TRUST_CODE_SIGNING\ CK_TRUST\ CKT_NSS_MUST_VERIFY_TRUST}$

CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#

```
# Certificate "Microsec e-Szigno Root CA 2009"
```

#

- # Issuer: E=info@e-szigno.hu,CN=Microsec e-Szigno Root CA 2009,O=Microsec Ltd.,L=Budapest,C=HU
- # Serial Number:00:c2:7e:43:04:4e:47:3f:19
- # Subject: E=info@e-szigno.hu,CN=Microsec e-Szigno Root CA 2009,O=Microsec Ltd.,L=Budapest,C=HU
- # Not Valid Before: Tue Jun 16 11:30:18 2009
- # Not Valid After: Sun Dec 30 11:30:18 2029
- # Fingerprint (SHA-256):

3C:5F:81:FE:A5:FA:B8:2C:64:BF:A2:EA:EC:AF:CD:E8:E0:77:FC:86:20:A7:CA:E5:37:16:3D:F3:6E:DB:F3:78

Fingerprint (SHA1): 89:DF:74:FE:5C:F4:0F:4A:80:F9:E3:37:7D:54:DA:91:E1:01:31:8E

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

CKA_TOKEN CK_BBOOL CK_TRUE

CKA PRIVATE

CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "Microsec e-Szigno Root CA 2009"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA SUBJECT MULTILINE OCTAL

\060\201\202\061\013\060\011\006\003\125\004\006\023\002\110\125

 $\label{eq:condition} $$ \001\001\000\017\000\003\125\004\007\014\010\102\165\144\141\160 $$$

\145\163\164\061\026\060\024\006\003\125\004\012\014\015\115\151

 $\\ 143 \\ 162 \\ 157 \\ 163 \\ 145 \\ 143 \\ 040 \\ 114 \\ 164 \\ 144 \\ 056 \\ 061 \\ 047 \\ 060 \\ 045 \\ 006 \\$

 $\label{eq:condition} $$ \055\123\172\151\147\156\157\040\122\157\157\164\040\103\101\040 $$$

 $\label{eq:condition} $$ \062\060\071\061\037\060\035\006\011\052\206\110\206\367\015$$$

 $\label{eq:condition} $$ \001\01\001\026\020\151\156\146\157\100\145\055\163\172\151\147 $$$

\156\157\056\150\165

END

CKA ID UTF8 "0"

CKA ISSUER MULTILINE OCTAL

END

CKA_SERIAL_NUMBER

MULTILINE_OCTAL

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

END

CKA_VALUE MULTILINE_OCTAL

\060\202\004\012\060\202\002\362\240\003\002\001\002\002\011\000 \302\176\103\004\116\107\077\031\060\015\006\011\052\206\110\206 \367\015\001\001\013\005\000\060\201\202\061\013\060\011\006\003

\125\004\006\023\002\110\125\061\021\060\017\006\003\125\004\007 \014\010\102\165\144\141\160\145\163\164\061\026\060\024\006\003 \125\004\012\014\015\115\151\143\162\157\163\145\143\040\114\164 \144\056\061\047\060\045\006\003\125\004\003\014\036\115\151\143 \162\157\163\145\143\040\145\055\123\172\151\147\156\157\040\122 \157\157\164\040\103\101\040\062\060\060\071\061\037\060\035\006 \011\052\206\110\206\367\015\001\011\001\026\020\151\156\146\157 \100\145\055\163\172\151\147\156\157\056\150\165\060\036\027\015 \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 $\label{eq:condition} $$ \006\003\125\004\007\014\010\102\165\144\141\160\145\163\164\061 $$$ \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 $\\ \\ 014\\ \\ 036\\ \\ 115\\ \\ 151\\ \\ 143\\ \\ 162\\ \\ 157\\ \\ 163\\ \\ 145\\ \\ 143\\ \\ 040\\ \\ 145\\ \\ 055\\ \\ 123\\ \\ 172\\ \\ 151\\ \\ 143\\ \\ 145\\ \\ 143\\ \\ 145\\ \\ 143\\ \\ 145\\ \\ 143\\ \\ 145\\ \\ 143\\ \\ 145\\ \\ 143\\ \\ 145\\ \\ 143\\ \\ 145\\ \\ 143\\ \\ 145\\ \\ 143\\ \\ 145\\ \\ 143\\ \\ 145\\ \\ 143\\ \\ 145\\ \\ 143\\ \\ 145\\ \\ 143\\ \\ 145\\ \\ 143\\ \\ 145\\ \\ 143\\ \\ 145\\ \\ 143\\ \\ 145\\ \\ 143\\ \\ 145$ \147\156\157\040\122\157\157\164\040\103\101\040\062\060\060\071 $\label{eq:condition} $$ \0061\037\060\035\006\011\052\206\110\206\367\015\001\011\001\026$ \020\151\156\146\157\100\145\055\163\172\151\147\156\157\056\150 \165\060\202\001\042\060\015\006\011\052\206\110\206\367\015\001 $\label{eq:condition} $$ \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 $\label{eq:condition} $$ \frac{155}{226} 156 \frac{101}{016} 104 \frac{356}{341} 023 \frac{235}{224} 102 \frac{232}{275} 165$ \205\164\054\250\016\035\223\266\030\267\214\054\250\317\373\134 \161\271\332\354\376\350\176\217\344\057\035\262\250\165\207\330 \267\241\345\073\317\231\112\106\320\203\031\175\300\241\022\034 \225\155\112\364\330\307\245\115\063\056\205\071\100\165\176\024 $\label{eq:condition} $$ \frac{174\200\022\230\120\307\101\147\270\240\200\141\124\246\154\116}{124\246\154\116} $$$ \037\340\235\016\007\351\311\272\063\347\376\300\125\050\054\002 \200\247\031\365\236\334\125\123\003\227\173\007\110\377\231\373 $\label{eq:condition} $$ \067\212\044\304\131\314\120\020\143\216\252\251\032\260\204\032$ \206\371\137\273\261\120\156\244\321\012\314\325\161\176\037\247 \033\174\365\123\156\042\137\313\053\346\324\174\135\256\326\302 \306\114\345\005\001\331\355\127\374\301\043\171\374\372\310\044 \203\225\363\265\152\121\001\320\167\326\351\022\241\371\032\203 \373\202\033\271\260\227\364\166\006\063\103\111\240\377\013\265 \372\265\002\003\001\000\001\243\201\200\060\176\060\017\006\003 \125\035\023\001\001\377\004\005\060\003\001\001\377\060\016\006 $\label{eq:condition} $$ \03125\035\017\001\001\377\004\004\003\002\001\006\060\035\006$ $\label{eq:condition} $$ \03\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 $\begin{tabular}{l} $$ \begin{tabular}{l} $0.55 \\ 163 \\ 172 \\ 151 \\ 147 \\ 156 \\ 157 \\ 056 \\ 150 \\ 165 \\ 060 \\ 015 \\ 006 \\ 011 \\ 052 \\ 206 \\ 015 \\ 006 \\ 011 \\ 052 \\ 206 \\ 015 \\ 006 \\ 011 \\ 052 \\ 006 \\ 015 \\ 006 \\ 011 \\ 005 \\ 015 \\ 006 \\ 011 \\ 005 \\ 015 \\ 006 \\ 011 \\ 005 \\ 015$ \110\206\367\015\001\001\013\005\000\003\202\001\001\000\311\321 $\label{eq:condition} $$ \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

 $\label{eq:controller} $$ \all $$ \al$

CKA NSS MOZILLA CA POLICY

CK_BBOOL CK_TRUE

CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

- # Trust for "Microsec e-Szigno Root CA 2009"
- # Issuer: E=info@e-szigno.hu,CN=Microsec e-Szigno Root CA 2009,O=Microsec Ltd.,L=Budapest,C=HU
- # Serial Number:00:c2:7e:43:04:4e:47:3f:19
- # Subject: E=info@e-szigno.hu,CN=Microsec
- e-Szigno Root CA 2009,O=Microsec Ltd.,L=Budapest,C=HU
- # Not Valid Before: Tue Jun 16 11:30:18 2009
- # Not Valid After: Sun Dec 30 11:30:18 2029
- # Fingerprint (SHA-256):
- 3C:5F:81:FE:A5:FA:B8:2C:64:BF:A2:EA:EC:AF:CD:E8:E0:77:FC:86:20:A7:CA:E5:37:16:3D:F3:6E:DB:F3:78
- # Fingerprint (SHA1): 89:DF:74:FE:5C:F4:0F:4A:80:F9:E3:37:7D:54:DA:91:E1:01:31:8E
- CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
- CKA_TOKEN CK_BBOOL CK_TRUE
- CKA_PRIVATE CK_BBOOL CK_FALSE
- CKA_MODIFIABLE CK_BBOOL CK_FALSE
- CKA_LABEL UTF8 "Microsec e-Szigno Root CA 2009"
- CKA CERT SHA1 HASH MULTILINE OCTAL
- \211\337\164\376\134\364\017\112\200\371\343\067\175\124\332\221 \341\001\061\216
- END
- CKA_CERT_MD5_HASH MULTILINE_OCTAL
- \370\111\364\003\274\104\055\203\276\110\151\175\051\144\374\261
- **END**
- CKA_ISSUER MULTILINE_OCTAL

```
\055\123\172\151\147\156\157\040\122\157\157\164\040\103\101\040
\062\060\060\071\061\037\060\035\006\011\052\206\110\206\367\015
\001\011\001\026\020\151\156\146\157\100\145\055\163\172\151\147
\156\157\056\150\165
END
CKA_SERIAL_NUMBER
MULTILINE OCTAL
\label{eq:condition} $$ \002\011\000\302\176\103\004\116\107\077\031 $$
END
CKA TRUST SERVER AUTH CK TRUST CKT NSS TRUSTED DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA TRUST STEP UP APPROVED CK BBOOL CK FALSE
#
# Certificate "GlobalSign Root CA - R3"
# Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R3
# Serial Number:04:00:00:00:00:01:21:58:53:08:a2
# Subject: CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R3
# Not Valid Before: Wed Mar 18 10:00:00 2009
# Not Valid After: Sun Mar 18 10:00:00 2029
# Fingerprint (SHA-256):
CB:B5:22:D7:B7:F1:27:AD:6A:01:13:86:5B:DF:1C:D4:10:2E:7D:07:59:AF:63:5A:7C:F4:72:0D:C9:63:C5:3B
Fingerprint (SHA1): D6:9B:56:11:48:F0:1C:77:C5:45:78:C1:09:26:DF:5B:85:69:76:AD
CKA CLASS CK OBJECT CLASS CKO CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA PRIVATE CK BBOOL CK FALSE
CKA MODIFIABLE CK BBOOL CK FALSE
CKA_LABEL UTF8 "GlobalSign Root CA - R3"
CKA CERTIFICATE TYPE CK CERTIFICATE TYPE CKC X 509
CKA SUBJECT MULTILINE OCTAL
\060\114\061\040\060\036\006\003\125\004\013\023\027\107\154\157
\142\141\154\123\151\147\156\040\122\157\157\164\040\103\101\040
\055\040\122\063\061\023\060\021\006\003\125\004\012\023\012\107
\154\157\142\141\154\123\151\147\156\061\023\060\021\006\003\125
\004\003\023\012\107\154\157\142\141\154\123\151\147\156
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\114\061\040\060\036\006\003\125\004\013\023\027\107\154\157
\142\141\154\123\151\147\156\040\122\157\157\164\040\103\101\040
\055\040\122\063\061\023\060\021\006\003\125\004\012\023\012\107
\154\157\142\141\154\123\151\147\156\061\023\060\021\006\003\125
\004\003\023\012\107\154\157\142\141\154\123\151\147\156
END
CKA_SERIAL_NUMBER
```

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

CKA VALUE MULTILINE OCTAL

\060\202\003\137\060\202\002\107\240\003\002\001\002\002\013\004 \000\000\000\000\001\041\130\123\010\242\060\015\006\011\052\206 \110\206\367\015\001\001\013\005\000\060\114\061\040\060\036\006 \003\125\004\013\023\027\107\154\157\142\141\154\123\151\147\156 $\\ \\040\\122\\157\\157\\164\\040\\103\\101\\040\\055\\040\\122\\063\\061\\023\\060$ \021\006\003\125\004\012\023\012\107\154\157\142\141\154\123\151 \147\156\061\023\060\021\006\003\125\004\003\023\012\107\154\157 \142\141\154\123\151\147\156\060\036\027\015\060\071\060\063\061 \070\061\060\060\060\060\060\132\027\015\062\071\060\063\061\070 \061\060\060\060\060\060\132\060\114\061\040\060\036\006\003\125 $\\ \\004\\013\\023\\027\\107\\154\\157\\142\\141\\154\\123\\151\\147\\156\\040\\122$ \157\157\164\040\103\101\040\055\040\122\063\061\023\060\021\006 $\\ \\003\\125\\004\\012\\023\\012\\107\\154\\157\\142\\141\\154\\123\\151\\147\\156$ \061\023\060\021\006\003\125\004\003\023\012\107\154\157\142\141 \154\123\151\147\156\060\202\001\042\060\015\006\011\052\206\110 \206\367\015\001\001\001\005\000\003\202\001\017\000\060\202\001 \012\002\202\001\001\000\314\045\166\220\171\006\170\042\026\365 \300\203\266\204\312\050\236\375\005\166\021\305\255\210\162\374 $\label{eq:condition} $$ 106\002\103\307\262\212\235\004\137\044\313\056\113\341\140\202$ \106\341\122\253\014\201\107\160\154\335\144\321\353\365\054\243 \017\202\075\014\053\256\227\327\266\024\206\020\171\273\073\023 \200\167\214\010\341\111\322\152\142\057\037\136\372\226\150\337 \211\047\225\070\237\006\327\076\311\313\046\131\015\163\336\260 $\label{eq:condition} $$ \frac{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 $\label{eq:condition} $$ \075\000\341\006\063\350\202\053\256\123\246\072\026\163\214\335 $$$ \101\016\040\072\300\264\247\241\351\262\117\220\056\062\140\351 \127\313\271\004\222\150\150\345\070\046\140\165\262\237\167\377 \221\024\357\256\040\111\374\255\100\025\110\321\002\061\141\031 \136\270\227\357\255\167\267\144\232\172\277\137\301\023\357\233 \142\373\015\154\340\124\151\026\251\003\332\156\351\203\223\161 \166\306\151\205\202\027\002\003\001\000\001\243\102\060\100\060 $\label{eq:condition} $$ \000\03\125\035\016\004\026\004\024\217\360\113\177\250 $$$ \056\105\044\256\115\120\372\143\232\213\336\342\335\033\274\060 $\label{eq:condition} $$ \0.015\0.06\0.01\0.05\0.00\0.003\0.001\0.01\0.01\0.005\0.000\0.003\0.000 $$$ $\label{eq:condition} $$ \001\001\000\113\100\333\300\120\252\376\310\014\357\367\226\124 $$$ \105\111\273\226\000\011\101\254\263\023\206\206\050\007\063\312 \153\346\164\271\272\000\055\256\244\012\323\365\361\361\017\212 \277\163\147\112\203\307\104\173\170\340\257\156\154\157\003\051 \216\063\071\105\303\216\344\271\127\154\252\374\022\226\354\123 \306\055\344\044\154\271\224\143\373\334\123\150\147\126\076\203

 $\label{eq:constraint} $$ \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\16\010\255\012\034\056\055\174\140\213\303\101\121\023\043\235\316\367\062\153\224\001\250\231\347\054\063\037\072\073\045\322\206\100\316\073\054\206\170\311\141\057\024\272\356\333\125\157\337\204\356\005\011\115\275\050\330\162\316\323\142\120\145\036\353\222\227\203\061\331\263\265\312\107\130\077\137$

END

CKA NSS MOZILLA CA POLICY

CK_BBOOL CK_TRUE

CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "GlobalSign Root CA - R3"

Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R3

Serial Number:04:00:00:00:00:01:21:58:53:08:a2

#

Subject: CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R3

Not Valid Before: Wed Mar 18 10:00:00 2009

Not Valid After: Sun Mar 18 10:00:00 2029

Fingerprint (SHA-256):

CB:B5:22:D7:B7:F1:27:AD:6A:01:13:86:5B:DF:1C:D4:10:2E:7D:07:59:AF:63:5A:7C:F4:72:0D:C9:63:C5:3B

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

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

CKA TOKEN CK BBOOL CK TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "GlobalSign Root CA - R3"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL

\326\233\126\021\110\360\034\167\305\105\170\301\011\046\337\133 \205\151\166\255

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL

\305\337\270\111\312\005\023\125\356\055\272\032\303\076\260\050

END

CKA_ISSUER MULTILINE_OCTAL

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 "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:condition} $$ \060\070\061\013\060\011\006\003\125\004\006\023\002\105\123\061$$$

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

\040\123\056\101\056\061\023\060\021\006\003\125\004\003\014\012

\111\172\145\156\160\145\056\143\157\155

END

CKA_ID UTF8 "0"

CKA ISSUER MULTILINE OCTAL

\060\070\061\013\060\011\006\003\125\004\006\023\002\105\123\061

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

 $\label{eq:condition} $$ \040\123\056\101\056\061\023\060\021\006\003\125\004\003\014\012 $$$

\111\172\145\156\160\145\056\143\157\155

END

 $CKA_SERIAL_NUMBER\ MULTILINE_OCTAL$

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

END

CKA_VALUE MULTILINE_OCTAL

\060\202\005\361\060\202\003\331\240\003\002\001\002\002\000\000\260\267\132\026\110\137\277\341\313\365\213\327\031\346\175\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060\070\061\013\066\011\006\003\125\004\006\023\002\105\123\061\024\060

\022\006\003\125\004\012\014\013\111\132\105\116\120\105\040\123 \056\101\056\061\023\060\021\006\003\125\004\003\014\012\111\172 \145\156\160\145\056\143\157\155\060\036\027\015\060\067\061\062 \061\063\061\063\060\070\062\070\132\027\015\063\067\061\062\061 \063\060\070\062\067\062\065\132\060\070\061\013\060\011\006\003 \125\004\006\023\002\105\123\061\024\060\022\006\003\125\004\012 \014\013\111\132\105\116\120\105\040\123\056\101\056\061\023\060 \021\006\003\125\004\003\014\012\111\172\145\156\160\145\056\143 $\label{eq:condition} $$ \frac{157}{155}060\\202\\002\\042\\060\\015\\006\\011\\052\\206\\110\\206\\367\\015$ \001\001\001\005\000\003\202\002\017\000\060\202\002\012\002\202 $\label{eq:condition} $$ \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 $\label{eq:condition} $$ \054\104\330\236\222\233\024\072\241\347\044\220\012\012\126\216$ \305\330\046\224\341\331\110\341\055\076\332\012\162\335\243\231 \025\332\201\242\207\364\173\156\046\167\211\130\255\326\353\014 $\label{eq:condition} $$ \262\101\172\163\156\155\333\172\170\101\351\010\210\022\176\207 $$$ \056\146\021\143\154\124\373\074\235\162\300\274\056\377\302\267 \335\015\166\343\072\327\367\264\150\276\242\365\343\201\156\301 \271\243\212\230\303\354\073\064\305\225\101\151\176\165\302\074 \040\305\141\272\121\107\240\040\220\223\241\220\113\363\116\174 \205\105\124\232\321\005\046\101\260\265\115\035\063\276\304\003 \310\045\174\301\160\333\073\364\011\055\124\047\110\254\057\341 $\label{eq:condition} $$ 304\254\076\310\313\222\114\123\071\067\043\354\323\001\371\340 $$$ \011\104\115\115\144\300\341\015\132\207\042\274\255\033\243\376 \046\265\025\363\247\374\204\031\351\354\241\210\264\104\151\204 \203\363\211\321\164\006\251\314\013\326\302\336\047\205\120\046 \312\027\270\311\172\207\126\054\032\001\036\154\276\023\255\020 \254\265\044\365\070\221\241\326\113\332\361\273\322\336\107\265 $\label{eq:condition} $$ 361\274\201\366\131\153\317\031\123\351\215\025\313\112\313\251 $$$ \157\104\345\033\101\317\341\206\247\312\320\152\237\274\114\215 \006\063\132\242\205\345\220\065\240\142\134\026\116\360\343\242 \372\003\032\264\054\161\263\130\054\336\173\013\333\032\017\353 \336\041\037\006\167\006\003\260\311\357\231\374\300\271\117\013 \206\050\376\322\271\352\343\332\245\303\107\151\022\340\333\360 \366\031\213\355\173\160\327\002\326\355\207\030\050\054\004\044 \114\167\344\110\212\032\306\073\232\324\017\312\372\165\322\001 $\label{eq:condition} $$ 100\132\215\171\277\213\317\113\317\252\026\301\225\344\255\114$$ \212\076\027\221\324\261\142\345\202\345\200\004\244\003\176\215 \277\332\177\242\017\227\117\014\323\015\373\327\321\345\162\176 \034\310\167\377\133\232\017\267\256\005\106\345\361\250\026\354 \107\244\027\002\003\001\000\001\243\201\366\060\201\363\060\201 \260\006\003\125\035\021\004\201\250\060\201\245\201\017\151\156 $\label{eq:condition} $$ \frac{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 $\label{eq:condition} $$ 101\060\061\063\063\067\062\066\060\055\122\115\145\162\143\056 $$$

\126\151\164\157\162\151\141\055\107\141\163\164\145\151\172\040 \124\061\060\065\065\040\106\066\062\040\123\070\061\103\060\101 \006\003\125\004\011\014\072\101\166\144\141\040\144\145\154\040 \115\145\144\151\164\145\162\162\162\141\156\145\157\040\105\164\157 \162\142\151\144\145\141\040\061\064\040\055\040\060\061\060\061 $\label{eq:condition} $$ \060\040\126\151\164\157\162\151\141\055\107\141\163\164\145\151 $$$ \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 $\label{eq:condition} $$ \001\006\003\005\006\003\125\035\016\004\026\004\024\035\034\145$ \016\250\362\045\173\264\221\317\344\261\261\346\275\125\164\154 $\label{eq:condition} $$ \005\06\015\006\011\052\206\110\206\367\015\001\001\013\005\000 $$$ $\label{eq:condition} $$ \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:condition} $$ \225\244\047\041\107\102\112\174\110\072\365\105\174\263\014\216$ \121\170\254\225\023\336\306\375\175\270\032\220\114\253\222\003 \307\355\102\001\316\017\330\261\372\242\222\341\140\155\256\172 \153\011\252\306\051\356\150\111\147\060\200\044\172\061\026\071 \133\176\361\034\056\335\154\011\255\362\061\301\202\116\271\273 $\label{eq:condition} $$ \frac{371}{276}\frac{277}{052}\frac{205}{077}\frac{300}{100}\frac{243}{072}\frac{131}{374}\frac{131}{113}\frac{074}{050} $$$ \044\333\264\025\165\256\015\210\272\056\163\300\275\130\207\345 \102\362\353\136\356\036\060\042\231\313\067\321\304\041\154\201 $\label{eq:condition} $$ \frac{354}276 \cdot 155 \cdot 046 \cdot 346 \cdot 034 \cdot 344 \cdot 102 \cdot 040 \cdot 236 \cdot 107 \cdot 260 \cdot 254 \cdot 203 \cdot 131 \cdot 160 $$ \054\065\326\257\066\064\264\315\073\370\062\250\357\343\170\211 $\label{eq:condition} $$ 373\215\105\054\332\234\270\176\100\034\141\347\076\242\222\054$$ \113\362\315\372\230\266\051\377\363\362\173\251\037\056\240\223 \127\053\336\205\003\371\151\067\313\236\170\152\005\264\305\061 \170\211\354\172\247\205\341\271\173\074\336\276\036\171\204\316 \237\160\016\131\302\065\056\220\052\061\331\344\105\172\101\244 \056\023\233\064\016\146\173\111\253\144\227\320\106\303\171\235 $\label{eq:condition} $$ 162\120\143\246\230\133\006\275\110\155\330\071\203\160\350\065$$ \360\005\321\252\274\343\333\310\002\352\174\375\202\332\302\133 \122\065\256\230\072\255\272\065\223\043\247\037\110\335\065\106 \230\262\020\150\344\245\061\302\012\130\056\031\201\020\311\120 \165\374\352\132\026\316\021\327\356\357\120\210\055\141\377\077 \102\163\005\224\103\325\216\074\116\001\072\031\245\037\106\116 \167\320\135\345\201\042\041\207\376\224\175\204\330\223\255\326 \150\103\110\262\333\353\163\044\347\221\177\124\244\266\200\076 \235\243\074\114\162\302\127\304\240\324\314\070\047\316\325\006 \236\242\110\331\351\237\316\202\160\066\223\232\073\337\226\041 \343\131\267\014\332\221\067\360\375\131\132\263\231\310\151\154 $\label{eq:condition} $$ 103\046\001\065\143\140\125\211\003\072\165\330\272\112\331\124 $$$ \377\356\336\200\330\055\321\070\325\136\055\013\230\175\076\154 \333\374\046\210\307

END

CKA_NSS_MOZILLA_CA_POLICY

CK_BBOOL CK_TRUE

CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE

```
# Trust for "Izenpe.com"
# Issuer: CN=Izenpe.com,O=IZENPE S.A.,C=ES
# Serial Number:00:b0:b7:5a:16:48:5f:bf:e1:cb:f5:8b:d7:19:e6:7d
# Subject: CN=Izenpe.com,O=IZENPE S.A.,C=ES
# Not Valid Before: Thu Dec 13 13:08:28 2007
# Not Valid After: Sun Dec 13 08:27:25 2037
# Fingerprint (SHA-256):
25:30:CC:8E:98:32:15:02:BA:D9:6F:9B:1F:BA:1B:09:9E:2D:29:9E:0F:45:48:BB:91:4F:36:3B:C0:D4:53:1F
# Fingerprint (SHA1): 2F:78:3D:25:52:18:A7:4A:65:39:71:B5:2C:A2:9C:45:15:6F:E9:19
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA TOKEN CK BBOOL CK TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA LABEL UTF8 "Izenpe.com"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\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
\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
\label{eq:condition} $$ \040\123\056\101\056\061\023\060\021\006\003\125\004\003\014\012 $$
\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
{\tt 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 "Go Daddy Root Certificate Authority - G2"
# Issuer: CN=Go Daddy Root Certificate Authority - G2,O="GoDaddy.com, Inc.",L=Scottsdale,ST=Arizona,C=US
# Serial Number: 0 (0x0)
# Subject: CN=Go Daddy Root Certificate Authority - G2,O="GoDaddy.com,
Inc.",L=Scottsdale,ST=Arizona,C=US
# Not Valid Before: Tue Sep 01 00:00:00 2009
# Not Valid After: Thu Dec 31 23:59:59 2037
```

Fingerprint

(SHA-256):

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

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

CKA CLASS CK OBJECT CLASS CKO CERTIFICATE

CKA_TOKEN CK_BBOOL CK_TRUE

CKA PRIVATE CK BBOOL CK FALSE

CKA MODIFIABLE CK BBOOL CK FALSE

CKA_LABEL UTF8 "Go Daddy Root Certificate Authority - G2"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL

 $\label{eq:control} $$ \000\201\203\061\013\060\011\006\003\125\004\000\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\123\143\157\155\054\040\111\156\143\056\061\061\060\057\006\003\125\004\003\023\050\107\157\164\141\144\144\171\040\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164\145\040\101\165\164\150\157\162\151\164\171\040\055\040\107\062$

END

CKA ID

UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

 $\label{eq:control} $$ \000\201\203\0061\013\000\011\000\003\125\0004\010\023\0007\101\162\151\172\157\156\141\0061\023\0060\021\0006\003\125\0004\0007\023\012\123\143\157\164\164\163\144\141\154\145\061\032\060\030\0006\003\125\0004\012\123\143\157\155\054\040\111\156\143\056\061\061\060\057\0006\003\125\0004\003\023\050\107\157\1004\141\144\144\171\040\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164\145\040\101\165\164\150\157\162\151\164\171\040\055\040\107\062$

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

\002\001\000

END

CKA_VALUE MULTILINE_OCTAL

\040\055\040\107\062\060\036\027\015\060\071\060\071\060\061\060 \060\060\060\060\060\132\027\015\063\067\061\062\063\061\062\063 \065\071\065\071\132\060\201\203\061\013\060\011\006\003\125\004 \006\023\002\125\123\061\020\060\016\006\003\125\004\010\023\007 \101\162\151\172\157\156\141\061\023\060\021\006\003\125\004\007 \006\003\125\004\012\023\021\107\157\104\141\144\144\171\056\143 \157\155\054\040\111\156\143\056\061\061\060\057\006\003\125\004 $\\ \\003\\ \\023\\ \\050\\ \\107\\ \\157\\ \\040\\ \\104\\ \\1141\\ \\144\\ \\144\\ \\171\\ \\040\\ \\122\\ \\157\\ \\157\\ \\164$ \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 $\label{eq:condition} $$ \0.015\0.06\0.01\0.05\0.00\0.003\0.001\0.001\0.001\0.005\0.000\0.003\0.000 $$$ \001\017\000\060\202\001\012\002\202\001\001\000\277\161\142\010 $\label{eq:condition} $$ \361\372\131\064\367\033\311\030\243\367\200\111\130\351\042\203$ $\label{eq:condition} $$ \023\246\305\040\103\001\073\204\361\346\205\111\237\047\352\366$$ \204\033\116\240\264\333\160\230\307\062\001\261\005\076\007\116 \356\364\372\117\057\131\060\042\347\253\031\126\153\342\200\007 \374\363\026\165\200\071\121\173\345\371\065\266\164\116\251\215 \202\023\344\266\077\251\003\203\372\242\276\212\025\152\177\336 $\label{eq:condition} $$ \031\024\005\312\352\303\250\004\224\073\106\174\062 $$$ \015\363\000\146\042\310\215\151\155\066\214\021\030\267\323\262 \034\140\264\070\372\002\214\316\323\335\106\007\336\012\076\353 $\label{eq:condition} $$ 135\174\310\174\373\260\053\123\244\222\142\151\121\045\005\141 $$$ \032\104\201\214\054\251\103\226\043\337\254\072\201\232\016\051 $\label{eq:condition} $$ 305 \times 34 \times 135 \times 36 \times 266 \times 236 \times 236 \times 060 \times 12 \times 135 \times 260 \times 200 \times 2$ \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 $\label{eq:condition} $$ \005\060\003\001\001\377\060\016\006\003\125\035\017\001\001\377$ \004\004\003\002\001\006\060\035\006\003\125\035\016\004\026\004 \024\072\232\205\007\020\147\050\266\357\366\275\005\101\156\040 \301\224\332\017\336\060\015\006\011\052\206\110\206\367\015\001 \001\013\005\000\003\202\001\001\000\231\333\135\171\325\371\227 \131\147\003\141\361\176\073\006\061\165\055\241\040\216\117\145 \207\264\367\246\234\274\330\351\057\320\333\132\356\317\164\214 \163\264\070\102\332\005\173\370\002\165\270\375\245\261\327\256 \366\327\336\023\313\123\020\176\212\106\321\227\372\267\056\053 \021\253\220\260\047\200\371\350\237\132\351\067\237\253\344\337 \154\263\205\027\235\075\331\044\117\171\221\065\326\137\004\353 \200\203\253\232\002\055\265\020\364\330\220\307\004\163\100\355 \162\045\240\251\237\354\236\253\150\022\231\127\306\217\022\072 \011\244\275\104\375\006\025\067\301\233\344\062\243\355\070\350 \330\144\363\054\176\024\374\002\352\237\315\377\007\150\027\333 \042\220\070\055\172\215\321\124\361\151\343\137\063\312\172\075 \173\012\343\312\177\137\071\345\342\165\272\305\166\030\063\316 \054\360\057\114\255\367\261\347\316\117\250\304\233\112\124\006

END

CKA_NSS_MOZILLA_CA_POLICY

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

\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

 $\label{eq:condition} $$ \060\201\203\061\013\060\011\006\003\125\004\006\023\002\125\123$

 $\label{eq:condition} $$ \001\020\060\016\006\003\125\004\010\023\007\101\162\151\172\157 $$$

 $\label{eq:condition} $$ \frac{156\141\061\023\060\021\006\003\125\004\007\023\012\123\143\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

 $\label{eq:condition} $$ \023\021\107\157\104\141\144\144\171\056\143\157\155\054\040\111 $$$

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

 $\\ \\ 040\\ \\ 104\\ \\ 141\\ \\ 144\\ \\ 144\\ \\ 171\\ \\ 040\\ \\ 122\\ \\ 157\\ \\ 157\\ \\ 164\\ \\ 040\\ \\ 103\\ \\ 145\\ \\ 162\\ \\ 164$

\151\146\151\143\141\164\145\040\101\165\164\150\157\162\151\164

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

END

CKA_SERIAL_NUMBER

MULTILINE_OCTAL

\002\001\000

END

 ${\tt CKA_TRUST_SERVER_AUTH\ CK_TRUST\ CKT_NSS_TRUSTED_DELEGATOR}$

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
\label{eq:condition} $$ \060\201\217\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\020\060\016\006\003\125\004\010\023\007\101\162\151\172\157
\156\141\061\023\060\021\006\003\125\004\007\023\012\123\143\157
\164\164\163\144\141\154\145\061\045\060\043\006\003\125\004\012
\023\034\123\164\141\162\146\151\145\154\144\040\124\145\143\150
\156\157\154\157\147\151\145\163\054\040\111\156\143\056\061\062
\154\144\040\122\157\157\164\040\103\145\162\164\151\146\151\143
\141\164\145\040\101\165\164\150\157\162\151\164\171\040\055\040
\107\062
END
CKA ID
UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\label{eq:condition} $$ \060\201\217\061\013\060\011\006\003\125\004\006\023\002\125\123
\label{eq:condition} $$ \0061\020\060\016\006\003\125\004\010\023\007\101\162\151\172\157 $$
\156\141\061\023\060\021\006\003\125\004\007\023\012\123\143\157
\164\164\163\144\141\154\145\061\045\060\043\006\003\125\004\012
\023\034\123\164\141\162\146\151\145\154\144\040\124\145\143\150
\156\157\154\157\147\151\145\163\054\040\111\156\143\056\061\062
\060\060\006\003\125\004\003\023\051\123\164\141\162\146\151\145
\154\144\040\122\157\157\164\040\103\145\162\164\151\146\151\143
\141\164\145\040\101\165\164\150\157\162\151\164\171\040\055\040
```

\107\062

END

CKA SERIAL NUMBER MULTILINE OCTAL

\002\001\000

END

CKA_VALUE MULTILINE_OCTAL

\060\202\003\335\060\202\002\305\240\003\002\001\002\002\001\000 \060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060 \201\217\061\013\060\011\006\003\125\004\006\023\002\125\123\061 $\label{eq:condition} $$ \020\060\016\006\003\125\004\010\023\007\101\162\151\172\157\156$$ \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 $\\ \\ 034\\ 123\\ 164\\ 141\\ 162\\ 146\\ 151\\ 145\\ 145\\ 144\\ 040\\ 124\\ 145\\ 143\\ 150\\ 156$ \157\154\157\147\151\145\163\054\040\111\156\143\056\061\062\060 $\label{eq:condition} $$ \000\003\125\004\003\023\051\123\164\141\162\146\151\145\154$$$ $\\ 144 \\ 040 \\ 122 \\ 157 \\ 157 \\ 164 \\ 040 \\ 103 \\ 145 \\ 162 \\ 164 \\ 151 \\ 146 \\ 151 \\ 143 \\ 141 \\$ \164\145\040\101\165\164\150\157\162\151\164\171\040\055\040\107 $\label{eq:condition} $$ \062\060\036\027\015\060\071\060\071\060\061\060\060\060\060\060$ \060\132\027\015\063\067\061\062\063\061\062\063\065\071\065\071 \132\060\201\217\061\013\060\011\006\003\125\004\006\023\002\125 \157\156\141\061\023\060\021\006\003\125\004\007\023\012\123\143 \157\164\164\163\144\141\154\145\061\045\060\043\006\003\125\004 \150\156\157\154\157\147\151\145\163\054\040\111\156\143\056\061 \062\060\060\006\003\125\004\003\023\051\123\164\141\162\146\151 \145\154\144\040\122\157\157\164\040\103\145\162\164\151\146\151 \143\141\164\145\040\101\165\164\150\157\162\151\164\171\040\055 $\label{eq:condition} $$ \040\107\062\060\202\001\042\060\015\006\011\052\206\110\206\367 $$$ \015\001\001\001\005\000\003\202\001\017\000\060\202\001\012\002 \202\001\001\000\275\355\301\003\374\366\217\374\002\261\157\133 \237\110\331\235\171\342\242\267\003\141\126\030\303\107\266\327 \312\075\065\056\211\103\367\241\151\233\336\212\032\375\023\040 \234\264\111\167\062\051\126\375\271\354\214\335\042\372\162\334 \047\141\227\356\366\132\204\354\156\031\271\211\054\334\204\133 \325\164\373\153\137\305\211\245\020\122\211\106\125\364\270\165 \034\346\177\344\124\256\113\370\125\162\127\002\031\370\027\161 \131\353\036\050\007\164\305\235\110\276\154\264\364\244\260\363 $\\ 144 \\ 106 \\ 1171 \\ 222 \\ 300 \\ 354 \\ 106 \\ 136 \\ 177 \\ 341 \\ 155 \\ 123 \\ 114 \\ 142 \\ 257 \\ 315$ $\label{eq:condition} $$ \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 $\label{eq:condition} $$ \226\324\046\324\010\004\131\320\230\016\016\346\336\374\303$ \354\037\220\361\002\003\001\000\001\243\102\060\100\060\017\006 $\label{eq:condition} $$ \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 $\label{eq:condition} $$ \000\021\131\372\045\117\003\157\224\231\073\232\037\202\205\071 $$$ \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 $\label{eq:condition} $$ \056\214\225\003\046\056\103\235\112\061\366\016\265\014\273\267 $$$ \342\067\177\042\272\000\243\016\173\122\373\153\273\073\304\323 \171\121\116\315\220\364\147\007\031\310\074\106\172\015\001\175 \305\130\347\155\346\205\060\027\232\044\304\020\340\004\367\340 \362\177\324\252\012\377\102\035\067\355\224\345\144\131\022\040 \167\070\323\062\076\070\201\165\226\163\372\150\217\261\313\316 $\label{eq:condition} $$ \037\305\354\372\234\176\317\176\261\361\007\055\266\374\277\312$ \244\277\320\227\005\112\274\352\030\050\002\220\275\124\170\011 \041\161\323\321\175\035\331\026\260\251\141\075\320\012\000\042 $\label{eq:condition} $$ 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 $\verb| | 241 | 365 | 146 | 005 | 056 | 177 | 071 | 025 | 251 | 052 | 373 | 120 | 213 | 216 | 205 | 151 |$ \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
\label{eq:condition} $$ \006\006\006\003\125\004\010\023\007\101\162\151\172\157 $$
\156\141\061\023\060\021\006\003\125\004\007\023\012\123\143\157
\164\164\163\144\141\154\145\061\045\060\043\006\003\125\004\012
\023\034\123\164\141\162\146\151\145\154\144\040\124\145\143\150
\156\157\154\157\147\151\145\163\054\040\111\156\143\056\061\062
\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
{\tt CKA\_TRUST\_STEP\_UP\_APPROVED\ CK\_BBOOL\ CK\_FALSE}
# Certificate "Starfield Services Root Certificate Authority - G2"
# Issuer: CN=Starfield
Services Root Certificate Authority - G2,O="Starfield Technologies, Inc.",L=Scottsdale,ST=Arizona,C=US
# Serial Number: 0 (0x0)
# Subject: CN=Starfield Services Root Certificate Authority - G2,O="Starfield Technologies,
Inc.",L=Scottsdale,ST=Arizona,C=US
# Not Valid Before: Tue Sep 01 00:00:00 2009
# Not Valid After: Thu Dec 31 23:59:59 2037
# Fingerprint (SHA-256):
56:8D:69:05:A2:C8:87:08:A4:B3:02:51:90:ED:CF:ED:B1:97:4A:60:6A:13:C6:E5:29:0F:CB:2A:E6:3E:DA:B5
# Fingerprint (SHA1): 92:5A:8F:8D:2C:6D:04:E0:66:5F:59:6A:FF:22:D8:63:E8:25:6F:3F
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Starfield Services Root Certificate Authority - G2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\230\061\013\060\011\006\003\125\004\006\023\002\125\123
\label{eq:condition} $$ \001\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
```

 $\label{eq:control_loss} $$ \frac{156}{157}\frac{4157}{147}\frac{151}{145}\frac{0.054}{040}\frac{111}{156}\frac{143}{056}\frac{1061}{073} \\ \frac{060}{071}\frac{0.06}{003}\frac{125}{004}\frac{0.03}{023}\frac{062}{123}\frac{164}{141}\frac{162}{146}\frac{151}{145} \\ \frac{154}{144}\frac{040}{123}\frac{145}{162}\frac{166}{151}\frac{143}{145}\frac{163}{040}\frac{122}{157}\frac{157}{164} \\ \frac{040}{103}\frac{145}{162}\frac{164}{151}\frac{146}{151}\frac{143}{141}\frac{164}{145}\frac{040}{101}\frac{165}{164} \\ \frac{150}{157}\frac{162}{151}\frac{164}{171}\frac{040}{055}\frac{040}{107}\frac{062}{162} \\ \end{aligned}$

END

CKA ID

UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

 $\label{eq:control} $$ \000\201\200\60\001\000\003\125\0004\0003\125\0004\0006\0023\0002\125\123\143\157\156\141\061\023\060\021\0006\0003\125\0004\0007\023\0012\123\143\157\164\164\163\144\141\154\145\061\045\060\0043\0006\0003\125\0004\012\023\034\123\164\141\162\146\151\145\154\144\040\124\145\143\150\156\157\154\157\147\151\145\163\054\040\111\156\143\056\061\073\060\071\0006\0003\125\0004\0003\023\062\123\164\141\162\146\151\145\151\145\163\040\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164\145\040\101\165\164\150\157\162\151\164\171\040\055\040\107\062$

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL \002\001\000

END

CKA_VALUE MULTILINE_OCTAL

\060\202\003\357\060\202\002\327\240\003\002\001\002\002\001\000 \060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060 $\label{eq:condition} $$ \201\230\061\013\060\011\006\003\125\004\006\023\002\125\123\061 $$$ \020\060\016\006\003\125\004\010\023\007\101\162\151\172\157\156 \141\061\023\060\021\006\003\125\004\007\023\012\123\143\157\164 \164\163\144\141\154\145\061\045\060\043\006\003\125\004\012\023 \034\123\164\141\162\146\151\145\154\144\040\124\145\143\150\156 \157\154\157\147\151\145\163\054\040\111\156\143\056\061\073\060 \071\006\003\125\004\003\023\062\123\164\141\162\146\151\145\154 \144\040\123\145\162\166\151\143\145\163\040\122\157\157\164\040 \103\145\162\164\151\146\151\143\141\164\145\040\101\165\164\150 \157\162\151\164\171\040\055\040\107\062\060\036\027\015\060\071 \060\071\060\061\060\060\060\060\060\060\132\027\015\063\067\061 $\label{eq:condition} $$ \062\063\065\071\065\071\132\060\201\230\061\013\060$$$ \125\004\010\023\007\101\162\151\172\157\156\141\061\023\060\021 \006\003\125\004\007\023\012\123\143\157\164\164\163\144\141\154 \145\061\045\060\043\006\003\125\004\012\023\034\123\164\141\162 \146\151\145\154\144\040\124\145\143\150\156\157\154\157\147\151 \145\163\054\040\111\156\143\056\061\073\060\071\006\003\125\004 \003\023\062\123\164\141\162\146\151\145\154\144\040\123\145\162 \166\151\143\145\163\040\122\157\157\164\040\103\145\162\164\151 \146\151\143\141\164\145\040\101\165\164\150\157\162\151\164\171

\040\055\040\107\062\060\202\001\042\060\015\006\011\052\206\110 \206\367\015\001\001\001\005\000\003\202\001\017\000\060\202\001 $\label{eq:condition} $$ \012\002\202\001\000\325\014\072\304\052\371\116\342\365\276 $$$ $\label{eq:control_control_control_control} $$ \031\227\137\216\210\123\261\037\077\313\317\237\040\023\155\051 $$$ \072\310\017\175\074\367\153\166\070\143\331\066\140\250\233\136 \134\000\200\262\057\131\177\366\207\371\045\103\206\347\151\033 \122\232\220\341\161\343\330\055\015\116\157\366\310\111\331\266 \363\032\126\256\053\266\164\024\353\317\373\046\343\032\272\035 $\label{eq:condition} $$ \226\056\152\073\130\224\211\107\126\377\045\240\223\160\123\203$ \332\204\164\024\303\147\236\004\150\072\337\216\100\132\035\112 $\label{eq:condition} $$ \frac{317}{103}\frac{221}{073}\frac{347}{126}\frac{326}{000}\frac{160}{313}\frac{122}{356}\frac{173}{175}\frac{256}{256} $$$ \072\347\274\061\371\105\366\302\140\317\023\131\002\053\200\314 \064\107\337\271\336\220\145\155\002\317\054\221\246\246\347\336 $\label{eq:condition} $$ \205\030\111\174\146\116\243\072\155\251\265\356\064\056\272\015$$ $\label{eq:condition} $$ \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 \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 $\label{eq:condition} $$ \001\327\060\053\070\210\242\270\155\112\234\362\021\221\203\060 $$$ \015\006\011\052\206\110\206\367\015\001\001\013\005\000\003\202 $\label{eq:condition} $$ \001\000\113\066\246\204\167\151\335\073\031\237\147\043\010 $$$ \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 $\label{eq:condition} $$ \frac{154\\164\\237\\317\\034\\264\\362\\305\\001\\243\\205\\320\\162\\076\\255\\163$ \253\013\233\165\014\155\105\267\216\224\254\226\067\265\240\320 \217\025\107\016\343\350\203\335\217\375\357\101\001\167\314\047 \251\142\205\063\362\067\010\357\161\317\167\006\336\310\031\035 \210\100\317\175\106\035\377\036\307\341\316\377\043\333\306\372 \215\125\116\251\002\347\107\021\106\076\364\375\275\173\051\046 \273\251\141\142\067\050\266\055\052\366\020\206\144\311\160\247 \322\255\267\051\160\171\352\074\332\143\045\237\375\150\267\060 $\label{eq:condition} $$ \frac{354\\160\\373\\165\\212\\267\\155\\140\\147\\262\\036\\310\\271\\351\\330\\250$ $\label{eq:condition} $$ \frac{157\\002\\213\\147\\015\\115\\046\\127\\161\\332\\040\\374\\301\\112\\120\\215$ \261\050\272

END

CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "Starfield Services Root Certificate Authority - G2"

```
# Issuer: CN=Starfield Services Root Certificate Authority - G2,O="Starfield Technologies,
Inc.".L=Scottsdale.ST=Arizona.C=US
# Serial Number: 0 (0x0)
# Subject: CN=Starfield Services Root Certificate Authority - G2,O="Starfield Technologies,
Inc.",L=Scottsdale,ST=Arizona,C=US
# Not Valid Before: Tue Sep 01 00:00:00 2009
# Not Valid After: Thu Dec 31 23:59:59 2037
# Fingerprint (SHA-256):
56:8D:69:05:A2:C8:87:08:A4:B3:02:51:90:ED:CF:ED:B1:97:4A:60:6A:13:C6:E5:29:0F:CB:2A:E6:3E:DA:B5
Fingerprint (SHA1): 92:5A:8F:8D:2C:6D:04:E0:66:5F:59:6A:FF:22:D8:63:E8:25:6F:3F
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA TOKEN CK BBOOL CK TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA LABEL UTF8 "Starfield Services Root Certificate Authority - G2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\222\132\217\215\054\155\004\340\146\137\131\152\377\042\330\143
\350\045\157\077
END
CKA CERT MD5 HASH MULTILINE OCTAL
\027\065\164\257\173\141\034\353\364\371\074\342\356\100\371\242
END
CKA ISSUER MULTILINE OCTAL
\060\201\230\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\020\060\016\006\003\125\004\010\023\007\101\162\151\172\157
\156\141\061\023\060\021\006\003\125\004\007\023\012\123\143\157
\164\164\163\144\141\154\145\061\045\060\043\006\003\125\004\012
\023\034\123\164\141\162\146\151\145\154\144\040\124\145\143\150
\156\157\154\157\147\151\145\163\054\040\111\156\143\056\061\073
\label{eq:condition} $$ \000\003\125\004\003\023\062\123\164\141\162\146\151\145$
\154\144\040\123\145\162\166\151\143\145\163\040\122\157\157\164
\040\103\145\162\164\151\146\151\143\141\164\145\040\101\165\164
\150\157\162\151\164\171\040\055\040\107\062
END
CKA SERIAL NUMBER
MULTILINE_OCTAL
\002\001\000
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
# Certificate "AffirmTrust Commercial"
# Issuer: CN=AffirmTrust Commercial,O=AffirmTrust,C=US
```

- # Serial Number:77:77:06:27:26:a9:b1:7c
- # Subject: CN=AffirmTrust Commercial,O=AffirmTrust,C=US
- # Not Valid Before: Fri Jan 29 14:06:06 2010
- # Not Valid After: Tue Dec 31 14:06:06 2030
- # Fingerprint (SHA-256):

03:76:AB:1D:54:C5:F9:80:3C:E4:B2:E2:01:A0:EE:7E:EF:7B:57:B6:36:E8:A9:3C:9B:8D:48:60:C9:6F:5F:A7

Fingerprint (SHA1): F9:B5:B6:32:45:5F:9C:BE:EC:57:5F:80:DC:E9:6E:2C:C7:B2:78:B7

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

CKA TOKEN

CK BBOOL CK TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA LABEL UTF8 "AffirmTrust Commercial"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL

 $\label{eq:condition} $$ \060\104\061\013\060\011\006\003\125\004\006\023\002\125\123\061 $$$

\124\162\165\163\164\061\037\060\035\006\003\125\004\003\014\026

\101\146\146\151\162\155\124\162\165\163\164\040\103\157\155\155

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

END

CKA ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

\060\104\061\013\060\011\006\003\125\004\006\023\002\125\123\061

\124\162\165\163\164\061\037\060\035\006\003\125\004\003\014\026

\101\146\146\151\162\155\124\162\165\163\164\040\103\157\155\155

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

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

 $\label{eq:condition} $$ \002\010\167\167\006\047\046\251\261\174$$$

END

CKA VALUE MULTILINE OCTAL

 $\label{eq:condition} $$ \end{array} $$ $$ (060\202\003\114\060\202\0003\002\001\002\0002\010\167 \\ $$ (167\006\047\046\251\261\174\060\015\006\011\052\206\110\206\367 \\ $$ (015\001\001\001\3005\000\060\104\061\0013\060\0011\006\003\125\004 \\ $$ (006\023\002\125\123\061\024\060\0022\006\003\125\004\012\014\013 \\ $$ (101\146\146\151\162\155\124\162\165\163\164\061\037\060\035\006 \\ $$ (003\125\004\003\014\026\101\146\146\151\162\155\124\162\165\163 \\ $$ (164\040\103\157\155\155\145\162\143\151\141\154\060\036\027\015 \\ $$ (061\060\060\061\062\063\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 \\ $$ (003\125\004\012\014\013\101\146\146\151\162\155\124\162\143\151 \\ $$ (162\155\124\162\165\163\164\040\103\157\155\155\145\162\143\151 \\ $$ (141\154\060\202\001\042\060\015\006\011\052\206\110\206\367\015 \\ $$ (001\001\001\000\003\202\001\017\000\060\202\001\012\002\202 \\ $$ (001\001\001\000\003\202\001\012\0002\202 \\ $$ (001\012\0002\202\001\012\0002\202 \\ $$ (001\012\0002\202\001\012\0002\202 \\ $$ (001\001\0001\0001\0001\0001\0002\000\003\202\0001\017\000\060\0202\0001\012\0002\202 \\$

\001\001\000\366\033\117\147\007\053\241\025\365\006\042\313\037 \001\262\343\163\105\006\104\111\054\273\111\045\024\326\316\303 \267\253\054\117\306\101\062\224\127\372\022\247\133\016\342\217 \037\036\206\031\247\252\265\055\271\137\015\212\302\257\205\065 \171\062\055\273\034\142\067\362\261\133\112\075\312\315\161\137 \351\102\276\224\350\310\336\371\042\110\144\306\345\253\306\053 \155\255\005\360\372\325\013\317\232\345\360\120\244\213\073\107 $\label{eq:condition} $$ \245\043\133\172\172\370\063\077\270\357\231\227\343\040\301\326 $$$ $\label{eq:condition} $$ \050\211\317\224\373\271\105\355\343\100\027\021\324\164\360\013$ \061\342\053\046\152\233\114\127\256\254\040\076\272\105\172\005 \363\275\233\151\025\256\175\116\040\143\304\065\166\072\007\002 \311\067\375\307\107\356\350\361\166\035\163\025\362\227\244\265 \310\172\171\331\102\252\053\177\134\376\316\046\117\243\146\201 $\label{eq:condition} $$ \065\257\104\272\124\036\034\060\062\145\235\346\074\223\136\120 $$$ \116\172\343\072\324\156\314\032\373\371\322\067\256\044\052\253 \127\003\042\050\015\111\165\177\267\050\332\165\277\216\343\334 $\label{eq:condition} $$ \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 $\label{eq:condition} $$ \035\023\001\001\377\004\005\060\003\001\001\377\060\016\006\003$ \125\035\017\001\001\377\004\004\003\002\001\006\060\015\006\011 \052\206\110\206\367\015\001\001\013\005\000\003\202\001\001\000 $\label{eq:condition} $$ \frac{30}{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 $\\ \\007\\ \\002\\ \\144\\ \\265\\ \\004\\ \\265\\ \\043\\ \\041\\ \\231\\ \\012\\ \\225\\ \\073\\ \\227\\ \\174\\ \\357$

CKA_NSS_MOZILLA_CA_POLICY
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"

END

- # Issuer: CN=AffirmTrust Commercial,O=AffirmTrust,C=US
- # Serial Number:77:77:06:27:26:a9:b1:7c
- # Subject: CN=AffirmTrust Commercial,O=AffirmTrust,C=US

```
# Not Valid Before: Fri Jan 29 14:06:06 2010
# Not Valid After: Tue Dec 31 14:06:06 2030
# Fingerprint (SHA-256):
03:76:AB:1D:54:C5:F9:80:3C:E4:B2:E2:01:A0:EE:7E:EF:7B:57:B6:36:E8:A9:3C:9B:8D:48:60:C9:6F:5F:A7
# Fingerprint (SHA1): F9:B5:B6:32:45:5F:9C:BE:EC:57:5F:80:DC:E9:6E:2C:C7:B2:78:B7
CKA_CLASS
CK OBJECT CLASS CKO NSS TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA MODIFIABLE CK BBOOL CK FALSE
CKA_LABEL UTF8 "AffirmTrust Commercial"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\371\265\266\062\105\137\234\276\354\127\137\200\334\351\156\054
\307\262\170\267
END
CKA CERT MD5 HASH MULTILINE OCTAL
\202\222\272\133\357\315\212\157\246\075\125\371\204\366\326\267
END
CKA ISSUER MULTILINE OCTAL
\label{eq:condition} $$ \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
\145\162\143\151\141\154
END
CKA SERIAL NUMBER MULTILINE OCTAL
\002\010\167\167\006\047\046\251\261\174
END
CKA TRUST SERVER AUTH CK TRUST CKT NSS TRUSTED DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
#
Certificate "AffirmTrust Networking"
# Issuer: CN=AffirmTrust Networking,O=AffirmTrust,C=US
# Serial Number:7c:4f:04:39:1c:d4:99:2d
# Subject: CN=AffirmTrust Networking,O=AffirmTrust,C=US
# Not Valid Before: Fri Jan 29 14:08:24 2010
# Not Valid After: Tue Dec 31 14:08:24 2030
# Fingerprint (SHA-256):
0A:81:EC:5A:92:97:77:F1:45:90:4A:F3:8D:5D:50:9F:66:B5:E2:C5:8F:CD:B5:31:05:8B:0E:17:F3:F0:B4:1B
# Fingerprint (SHA1): 29:36:21:02:8B:20:ED:02:F5:66:C5:32:D1:D6:ED:90:9F:45:00:2F
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
```

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA LABEL UTF8 "AffirmTrust Networking"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509 CKA SUBJECT MULTILINE OCTAL

END

CKA ID

UTF8 "0"

CKA ISSUER MULTILINE OCTAL

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

\002\010\174\117\004\071\034\324\231\055

END

CKA_VALUE MULTILINE_OCTAL

\060\202\003\114\060\202\002\064\240\003\002\001\002\002\010\174 \117\004\071\034\324\231\055\060\015\006\011\052\206\110\206\367 \015\001\001\005\005\000\060\104\061\013\060\011\006\003\125\004 \006\023\002\125\123\061\024\060\022\006\003\125\004\012\014\013 \101\146\146\151\162\155\124\162\165\163\164\061\037\060\035\006 \003\125\004\003\014\026\101\146\146\151\162\155\124\162\165\163 \164\040\116\145\164\167\157\162\153\151\156\147\060\036\027\015 $\label{eq:condition} $$ \061\060\060\061\062\071\061\064\060\070\062\064\132\027\015\063$ \060\061\062\063\061\061\064\060\070\062\064\132\060\104\061\013 \060\011\006\003\125\004\006\023\002\125\123\061\024\060\022\006 \003\125\004\012\014\013\101\146\146\151\162\155\124\162\165\163 \164\061\037\060\035\006\003\125\004\003\014\026\101\146\146\151 \162\155\124\162\165\163\164\040\116\145\164\167\157\162\153\151 \156\147\060\202\001\042\060\015\006\011\052\206\110\206\367\015 $\label{eq:condition} $$ \001\000\264\204\314\063\027\056\153\224\154\153\141\122\240 $$$ \353\243\317\171\224\114\345\224\200\231\313\125\144\104\145\217 \147\144\342\006\343\134\067\111\366\057\233\204\204\036\055\362 \140\235\060\116\314\204\205\342\054\317\036\236\376\066\253\063 \167\065\104\330\065\226\032\075\066\350\172\016\330\325\107\241 \152\151\213\331\374\273\072\256\171\132\325\364\326\161\273\232 \220\043\153\232\267\210\164\207\014\036\137\271\236\055\372\253 \123\053\334\273\166\076\223\114\010\010\214\036\242\043\034\324 \152\255\042\272\231\001\056\155\145\313\276\044\146\125\044\113 \100\104\261\033\327\341\302\205\300\336\020\077\075\355\270\374

\361\361\043\123\334\277\145\227\157\331\371\100\161\215\175\275 \225\324\316\276\240\136\047\043\336\375\246\320\046\016\000\051 $\label{eq:condition} $$ 353\074\106\360\075\140\277\077\120\322\334\046\101\121\236\024$$ $\label{eq:condition} $$ \067\102\004\243\160\127\250\033\207\355\055\372\173\356\214\012 $$$ \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 $\label{eq:condition} $$ 100\264\260\172\120\020\120\164\304\310\275\060\017\006\003\125$$ \035\023\001\001\377\004\005\060\003\001\001\377\060\016\006\003 \125\035\017\001\001\377\004\004\003\002\001\006\060\015\006\011 $\label{eq:condition} $$ \052\206\110\206\367\015\001\001\005\005\000\003\202\001\001\000$ \211\127\262\026\172\250\302\375\326\331\233\233\064\302\234\264 \062\024\115\247\244\337\354\276\247\276\370\103\333\221\067\316 $\label{eq:condition} $$ \264\062\056\120\125\032\065\116\166\103\161\040\357\223\167\116$$ \025\160\056\207\303\301\035\155\334\313\265\047\324\054\126\321 \122\123\072\104\322\163\310\304\033\005\145\132\142\222\234\356 \101\215\061\333\347\064\352\131\041\325\001\172\327\144\270\144 \071\315\311\355\257\355\113\003\110\247\240\231\001\200\334\145 \243\066\256\145\131\110\117\202\113\310\145\361\127\035\345\131 \056\012\077\154\330\321\365\345\011\264\154\124\000\012\340\025 \115\207\165\155\267\130\226\132\335\155\322\000\240\364\233\110 \276\303\067\244\272\066\340\174\207\205\227\032\025\242\336\056 \242\133\275\257\030\371\220\120\315\160\131\370\047\147\107\313 $\label{eq:condition} $$ 307\240\007\072\175\321\054\135\154\031\072\146\265\175\375\221 $$$ \157\202\261\276\010\223\333\024\107\361\242\067\307\105\236\074 \307\167\257\144\250\223\337\366\151\203\202\140\362\111\102\064 $\label{eq:condition} $$ \frac{355}{132}000 124 205 034 026 066 222 014 134 372 246 255 277 333$

END

CKA_NSS_MOZILLA_CA_POLICY

CK_BBOOL CK_TRUE

CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL

CK_FALSE

CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

```
# Trust for "AffirmTrust Networking"
```

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

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

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

Not Valid Before: Fri Jan 29 14:08:24 2010

Not Valid After: Tue Dec 31 14:08:24 2030

Fingerprint (SHA-256):

0A:81:EC:5A:92:97:77:F1:45:90:4A:F3:8D:5D:50:9F:66:B5:E2:C5:8F:CD:B5:31:05:8B:0E:17:F3:F0:B4:1B

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

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

```
CKA_LABEL UTF8 "AffirmTrust Networking"
CKA CERT SHA1 HASH MULTILINE OCTAL
\label{eq:condition} $$ \051\066\041\002\213\040\355\002\365\146\305\062\321\326\355\220 $$
\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
\101\146\146\151\162\155\124\162\165\163\164\040\116\145\164\167
\157\162\153\151\156\147
END
CKA SERIAL NUMBER
MULTILINE_OCTAL
\002\010\174\117\004\071\034\324\231\055
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA TRUST EMAIL PROTECTION CK TRUST CKT NSS MUST VERIFY TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
# Certificate "AffirmTrust Premium"
# Issuer: CN=AffirmTrust Premium.O=AffirmTrust.C=US
# Serial Number:6d:8c:14:46:b1:a6:0a:ee
# Subject: CN=AffirmTrust Premium,O=AffirmTrust,C=US
# Not Valid Before: Fri Jan 29 14:10:36 2010
# Not Valid After: Mon Dec 31 14:10:36 2040
# Fingerprint (SHA-256):
70:A7:3F:7F:37:6B:60:07:42:48:90:45:34:B1:14:82:D5:BF:0E:69:8E:CC:49:8D:F5:25:77:EB:F2:E9:3B:9A
# Fingerprint (SHA1): D8:A6:33:2C:E0:03:6F:B1:85:F6:63:4F:7D:6A:06:65:26:32:28:27
CKA CLASS
CK OBJECT CLASS CKO CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AffirmTrust Premium"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\101\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\124\162\165\163\164\061\034\060\032\006\003\125\004\003\014\023
\101\146\146\151\162\155\124\162\165\163\164\040\120\162\145\155
\151\165\155
```

END

CKA ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

 $\label{eq:condition} $$ \002\010\155\214\024\106\261\246\012\356$$

END

CKA VALUE MULTILINE OCTAL

 $\label{eq:condition} $$ \060\202\005\106\060\202\003\056\240\003\002\001\002\002\010\155$$ \214\024\106\261\246\012\356\060\015\006\011\052\206\110\206\367 \015\001\001\001\014\005\000\060\101\061\013\060\011\006\003\125\004 $\label{eq:condition} $$ \006\023\002\125\123\061\024\060\022\006\003\125\004\012\014\013$ \101\146\146\151\162\155\124\162\165\163\164\061\034\060\032\006 \003\125\004\003\014\023\101\146\146\151\162\155\124\162\165\163 \164\040\120\162\145\155\151\165\155\060\036\027\015\061\060\060 \061\062\071\061\064\061\060\063\066\132\027\015\064\060\061\062 \063\061\061\064\061\060\063\066\132\060\101\061\013\060\011\006 \012\014\013\101\146\146\151\162\155\124\162\165\163\164\061\034 $\\ \backslash 060 \backslash 032 \backslash 006 \backslash 003 \backslash 125 \backslash 004 \backslash 003 \backslash 014 \backslash 023 \backslash 101 \backslash 146 \backslash 146 \backslash 151 \backslash 162 \backslash 155 \backslash 124$ \162\165\163\164\040\120\162\145\155\151\165\155\060\202\002\042 \060\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003 \202\002\017\000\060\202\002\012\002\202\002\001\000\304\022\337 \251\137\376\101\335\335\365\237\212\343\366\254\341\074\170\232 \274\330\360\177\172\240\063\052\334\215\040\133\256\055\157\347 $\label{eq:condition} $$ \223\331\066\160\152\150\317\216\121\243\205\133\147\004\240\020 $$$ \044\157\135\050\202\301\227\127\330\110\051\023\266\341\276\221 \115\337\205\014\123\030\232\036\044\242\117\217\360\242\205\013 \313\364\051\177\322\244\130\356\046\115\311\252\250\173\232\331 \372\070\336\104\127\025\345\370\214\310\331\110\342\015\026\047 \035\036\310\203\205\045\267\272\252\125\101\314\003\042\113\055 \221\215\213\346\211\257\146\307\351\377\053\351\074\254\332\322 $\label{eq:condition} $$ \263\303\341\150\234\211\370\172\000\126\336\364\125\225\154\373$ \272\144\335\142\213\337\013\167\062\353\142\314\046\232\233\273 \252\142\203\114\264\006\172\060\310\051\277\355\006\115\227\271 \034\304\061\053\325\137\274\123\022\027\234\231\127\051\146\167 \141\041\061\007\056\045\111\235\030\362\356\363\053\161\214\265 \272\071\007\111\167\374\357\056\222\220\005\215\055\057\167\173 \357\103\277\065\273\232\330\371\163\247\054\362\320\127\356\050 \116\046\137\217\220\150\011\057\270\370\334\006\351\056\232\076 \121\247\321\042\304\012\247\070\110\154\263\371\377\175\253\206 \127\343\272\326\205\170\167\272\103\352\110\177\366\330\276\043 \155\036\277\321\066\154\130\134\361\356\244\031\124\032\365\003

\322\166\346\341\214\275\074\263\323\110\113\342\310\370\177\222 \250\166\106\234\102\145\076\244\036\301\007\003\132\106\055\270 \227\363\267\325\262\125\041\357\272\334\114\000\227\373\024\225 \047\063\277\350\103\107\106\322\010\231\026\140\073\232\176\322 \346\355\070\352\354\001\036\074\110\126\111\011\307\114\067\000 $\label{eq:condition} $$ \236\210\016\300\163\341\157\146\351\162\107\060\076\020\345\013$ \003\311\232\102\000\154\305\224\176\141\304\212\337\177\202\032 \013\131\304\131\062\167\263\274\140\151\126\071\375\264\006\173 $\label{eq:condition} $$ \054\326\144\066\331\275\110\355\204\037\176\245\042\217\052\270$$ \102\364\202\267\324\123\220\170\116\055\032\375\201\157\104\327 \073\001\164\226\102\340\000\342\056\153\352\305\356\162\254\273 \277\376\352\252\250\370\334\366\262\171\212\266\147\002\003\001 \000\001\243\102\060\100\060\035\006\003\125\035\016\004\026\004 $\label{eq:condition} $$ \024\235\300\147\246\014\042\331\046\365\105\253\246\145\122\021 $$$ \047\330\105\254\143\060\017\006\003\125\035\023\001\001\377\004 \005\060\003\001\001\377\060\016\006\003\125\035\017\001\001\377 \001\001\014\005\000\003\202\002\001\000\263\127\115\020\142\116 \072\344\254\352\270\034\257\062\043\310\263\111\132\121\234\166 $\label{eq:condition} $$ \050\215\171\252\127\106\027\325\365\122\366\267\104\350\010\104$ \277\030\204\322\013\200\315\305\022\375\000\125\005\141\207\101 \334\265\044\236\074\304\330\310\373\160\236\057\170\226\203\040 $\label{eq:condition} $$ \066\336\174\017\151\023\210\245\165\066\230\010\246\306\337\254$$$ \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 $\label{eq:condition} $$ \frac{110}{261}\frac{136}{147}\frac{353}{121}\frac{010}{045}\frac{351}{346}\frac{045}{153}\frac{122}{051}\frac{221}{234} $$ \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 $\label{eq:condition} $$ \217\236\320\024\071\277\125\160\110\231\127\061\264\234\356\112 $$$ \230\003\226\060\037\140\006\356\033\043\376\201\140\043\032\107 \142\205\245\314\031\064\200\157\263\254\032\343\237\360\173\110 \255\325\001\331\147\266\251\162\223\352\055\146\265\262\270\344 \075\074\262\357\114\214\352\353\007\277\253\065\232\125\206\274 \030\246\265\250\136\264\203\154\153\151\100\323\237\334\361\303 \151\153\271\341\155\011\364\361\252\120\166\012\172\175\172\027 \241\125\226\102\231\061\011\335\140\021\215\005\060\176\346\216 \106\321\235\024\332\307\027\344\005\226\214\304\044\265\033\317 $\label{eq:condition} $$ \024\007\262\100\370\243\236\101\206\274\004\320\153\226\310\052$$

\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 $\label{eq:condition} $$ 330 246 063 054 340 003 157 261 205 366 143 117 175 152 006 145$ \046\062\050\047 **END** CKA_CERT_MD5_HASH MULTILINE_OCTAL \304\135\016\110\266\254\050\060\116\012\274\371\070\026\207\127 **END** CKA_ISSUER MULTILINE_OCTAL \060\101\061\013\060\011\006\003\125\004\006\023\002\125\123\061 \024\060\022\006\003\125\004\012\014\013\101\146\146\151\162\155 \124\162\165\163\164\061\034\060\032\006\003\125\004\003\014\023 \151\165\155 **END** CKA_SERIAL_NUMBER MULTILINE_OCTAL $\label{eq:condition} $$ \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

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

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

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

END

CKA_ID

UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

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

END

CKA VALUE MULTILINE OCTAL

 $\label{eq:condition} $$ \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\040\120 \\ \162\145\155\151\165\155\040\105\103\103\060\036\027\015\064\060\061 \\ \062\063\061\061\064\062\060\062\064\132\060\105\061\013\060\011 \\ \006\003\125\004\006\023\002\125\123\061\024\060\022\006\003\125 \\ \004\012\014\013\101\146\146\151\162\155\124\162\165\163\164\061 \\ \040\060\036\006\003\125\004\0003\014\027\101\146\146\151\162\155 \\ \124\162\165\163\164\040\120\162\145\155\151\165\155\040\105\103$

\103\060\166\060\020\006\007\052\206\110\316\075\002\001\006\005 \053\201\004\000\042\003\142\000\004\015\060\136\033\025\235\003 \320\241\171\065\267\072\074\222\172\312\025\034\315\142\363\234 \046\134\007\075\345\124\372\243\326\314\022\352\364\024\137\350 \216\031\253\057\056\110\346\254\030\103\170\254\320\067\303\275 \262\315\054\346\107\342\032\346\143\270\075\056\057\170\304\117 \333\364\017\244\150\114\125\162\153\225\035\116\030\102\225\170 \314\067\074\221\342\233\145\053\051\243\102\060\100\060\035\006 \003\125\035\016\004\026\004\024\232\257\051\172\300\021\065\065 \046\121\060\000\303\152\376\100\325\256\326\074\060\017\006\003 \125\035\023\001\001\377\004\005\060\003\001\001\377\060\016\006 $\label{eq:condition} $$ \03125\035\017\001\001\377\004\004\003\002\001\006\060\012\006$ \010\052\206\110\316\075\004\003\003\003\147\000\060\144\002\060 $\label{eq:condition} $$ \027\011\363\207\210\120\132\257\310\300\102\277\107\137\365\154$$ \152\206\340\304\047\164\344\070\123\327\005\177\033\064\343\306 \057\263\312\011\074\067\235\327\347\270\106\361\375\241\342\161 $\label{eq:condition} $$ \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:condition} $$ \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

 $\label{eq:condition} $$ 144\260\011\125\317\261\325\231\342\276\023\253\246\135\352\115$$

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
\label{eq:condition} $$ 124\162\165\163\164\061\040\060\036\006\003\125\004\003\014\027
\151\165\155\040\105\103\103
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\010\164\227\045\212\307\077\172\124
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA TRUST EMAIL PROTECTION CK TRUST CKT NSS MUST VERIFY TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
# Certificate "Certum Trusted Network CA"
# Issuer: CN=Certum Trusted Network CA,OU=Certum Certification Authority,O=Unizeto Technologies
S.A.,C=PL
# Serial Number: 279744 (0x444c0)
# Subject: CN=Certum Trusted Network CA,OU=Certum Certification Authority,O=Unizeto Technologies
S.A.,C=PL
# Not Valid Before: Wed Oct 22 12:07:37 2008
# Not Valid After: Mon Dec 31 12:07:37 2029
# Fingerprint (SHA-256):
5C:58:46:8D:55:F5:8E:49:7E:74:39:82:D2:B5:00:10:B6:D1:65:37:4A:CF:83:A7:D4:A3:2D:B7:68:C4:40:8E
# Fingerprint (SHA1): 07:E0:32:E0:20:B7:2C:3F:19:2F:06:28:A2:59:3A:19:A7:0F:06:9E
CKA CLASS CK OBJECT CLASS CKO CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA MODIFIABLE
CK BBOOL CK FALSE
CKA LABEL UTF8 "Certum Trusted Network CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA SUBJECT MULTILINE OCTAL
\060\176\061\013\060\011\006\003\125\004\006\023\002\120\114\061
\\ \\042\\\\060\\\\040\\\\006\\\\003\\\\125\\\\004\\\\012\\\\023\\\\031\\\\125\\\\156\\\\151\\\\172\\\\145\\\\164
\157\040\124\145\143\150\156\157\154\157\147\151\145\163\040\123
\056\101\056\061\047\060\045\006\003\125\004\013\023\036\103\145
\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
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
```

 $\label{eq:condition} $$ \000176\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\123\145\163\164\145\146\157\154\157\154\157\154\151\145\163\040\123\145\162\164\165\155\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171\061\042\060\040\006\003\125\004\003\023\031\103\145\162\164\165\155\040\124\162\165\163\164\145\144\040\116\145\164\167\157\162\153\040\103\101\16ND$

CKA_SERIAL_NUMBER MULTILINE_OCTAL \002\003\004\104\300

END

CKA_VALUE MULTILINE_OCTAL

 $\label{eq:condition} $$ \060\202\003\273\060\202\002\243\240\003\002\001\002\002\003\004$ \104\300\060\015\006\011\052\206\110\206\367\015\001\001\005\005 $\label{eq:condition} $$ \000\060\176\061\013\060\011\006\003\125\004\006\023\002\120\114 $$$ \061\042\060\040\006\003\125\004\012\023\031\125\156\151\172\145 \164\157\040\124\145\143\150\156\157\154\157\147\151\145\163\040 \123\056\101\056\061\047\060\045\006\003\125\004\013\023\036\103 \145\162\164\165\155\040\103\145\162\164\151\146\151\143\141\164 \151\157\156\040\101\165\164\150\157\162\151\164\171\061\042\060 $\\ \\ 040\\ \\ 006\\ \\ 003\\ \\ 125\\ \\ 004\\ \\ 003\\ \\ 023\\ \\ 031\\ \\ 103\\ \\ 145\\ \\ 162\\ \\ 164\\ \\ 165\\ \\ 155\\ \\ 040\\ \\ 124$ \162\165\163\164\145\144\040\116\145\164\167\157\162\153\040\103 \101\060\036\027\015\060\070\061\060\062\062\061\062\060\067\063 \067\132\027\015\062\071\061\062\063\061\061\062\060\067\063\067 \132\060\176\061\013\060\011\006\003\125\004\006\023\002\120\114 \164\157\040\124\145\143\150\156\157\154\157\147\151\145\163\040 \123\056\101\056\061\047\060\045\006\003\125\004\013\023\036\103 $\\ 145 \\ 162 \\ 164 \\ 165 \\ 155 \\ 040 \\ 103 \\ 145 \\ 162 \\ 164 \\ 151 \\ 146 \\ 151 \\ 143 \\ 141 \\ 164$ \151\157\156\040\101\165\164\150\157\162\151\164\171\061\042\060 \040\006\003\125\004\003\023\031\103\145\162\164\165\155\040\124 \162\165\163\164\145\144\040\116\145\164\167\157\162\153\040\103 \101\060\202\001\042\060\015\006\011\052\206\110\206\367\015\001 \001\001\005\000\003\202\001\017\000\060\202\001\012\002\202\001 \001\000\343\373\175\243\162\272\302\360\311\024\207\365\153\001 \116\341\156\100\007\272\155\047\135\177\367\133\055\263\132\307 \121\137\253\244\062\246\141\207\266\156\017\206\322\060\002\227 \370\327\151\127\241\030\071\135\152\144\171\306\001\131\254\074 \061\112\070\174\322\004\322\113\050\350\040\137\073\007\242\314 \115\163\333\363\256\117\307\126\325\132\247\226\211\372\363\253 \150\324\043\206\131\047\317\011\047\274\254\156\162\203\034\060 \162\337\340\242\351\322\341\164\165\031\275\052\236\173\025\124 $\label{eq:condition} $$ \004\033\327\103\071\255\125\050\305\342\032\273\364\300\344\256$ \070\111\063\314\166\205\237\071\105\322\244\236\362\022\214\121 \370\174\344\055\177\365\254\137\353\026\237\261\055\321\272\314 \221\102\167\114\045\311\220\070\157\333\360\314\373\216\036\227

\131\076\325\140\116\346\005\050\355\111\171\023\113\272\110\333 \057\371\162\323\071\312\376\037\330\064\162\365\264\100\317\061 $\label{eq:condition} $$ \001\303\354\336\021\055\027\135\037\270\120\321\136\031\247\151 $$$ $\label{eq:condition} $$ 36\007\063\050\312\120\225\371\247\124\313\124\206\120\105\251 $$$ $\label{eq:condition} $$ \frac{371}111002003001000001243102060100060017006003125 $$$ $\label{eq:condition} $$ \035\023\001\001\377\004\005\060\003\001\001\377\060\035\006\003$ \125\035\016\004\026\004\024\010\166\315\313\007\377\044\366\305 \315\355\273\220\274\342\204\067\106\165\367\060\016\006\003\125 \035\017\001\001\377\004\004\003\002\001\006\060\015\006\011\052 \206\110\206\367\015\001\001\005\005\000\003\202\001\001\000\246 \250\255\042\316\001\075\246\243\377\142\320\110\235\213\136\162 \260\170\104\343\334\034\257\011\375\043\110\372\275\052\304\271 \125\004\265\020\243\215\047\336\013\202\143\320\356\336\014\067 $\label{eq:condition} $$ \frac{171}101\frac{33}042\frac{262}{260}\frac{232}{101}\frac{440}{160}\frac{340}{324}\frac{320}{167}\frac{313}{320} $$$ $\\ \langle 043 \rangle 323 \rangle \langle 000 \rangle 340 \rangle 154 \rangle 126 \rangle \langle 057 \rangle 341 \rangle 151 \rangle \langle 015 \rangle \langle 331 \rangle \langle 252 \rangle \langle 277 \rangle \langle 041 \rangle \langle 201 \rangle \langle 277 \rangle \langle 277$ \120\331\006\245\250\377\225\067\320\252\376\342\263\365\231\055 \105\204\212\345\102\011\327\164\002\057\367\211\330\231\351\274 \047\324\107\215\272\015\106\034\167\317\024\244\034\271\244\061 $\label{eq:condition} $$ 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 $\label{eq:condition} $$ 166\157\116\350\116\201\016\077\133\003\042\240\022\276\146\130 $$$ $\label{eq:condition} $$ \021\112\313\003\304\264\052\052\055\226\027\340\071\124\274\110 $$$ \323\166\047\235\232\055\006\246\311\354\071\322\253\333\237\232 $\label{eq:condition} $$ \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):

5C:58:46:8D:55:F5:8E:49:7E:74:39:82:D2:B5:00:10:B6:D1:65:37:4A:CF:83:A7:D4:A3:2D:B7:68:C4:40:8E

Fingerprint (SHA1): 07:E0:32:E0:20:B7:2C:3F:19:2F:06:28:A2:59:3A:19:A7:0F:06:9E

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE

 $CK_BBOOL\ CK_FALSE$

CKA_MODIFIABLE CK_BBOOL CK_FALSE

```
CKA CERT SHA1 HASH MULTILINE OCTAL
\label{eq:condition} $$ \007\340\062\340\040\267\054\077\031\057\006\050\242\131\072\031\
\247\017\006\236
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\325\351\201\100\305\030\151\374\106\054\211\165\142\017\252\170
END
CKA_ISSUER MULTILINE_OCTAL
\060\176\061\013\060\011\006\003\125\004\006\023\002\120\114\061
\\ \\042\\060\\040\\006\\003\\125\\004\\012\\023\\031\\125\\156\\151\\172\\145\\164
\label{eq:condition} $$ \frac{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
\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
END
CKA SERIAL NUMBER MULTILINE OCTAL
\002\003\004\104\300
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION
CK TRUST CKT NSS TRUSTED DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA TRUST STEP UP APPROVED CK BBOOL CK FALSE
# Certificate "TWCA Root Certification Authority"
# Issuer: CN=TWCA Root Certification Authority, OU=Root CA, O=TAIWAN-CA, C=TW
# Serial Number: 1 (0x1)
# Subject: CN=TWCA Root Certification Authority, OU=Root CA,O=TAIWAN-CA,C=TW
# Not Valid Before: Thu Aug 28 07:24:33 2008
# Not Valid After: Tue Dec 31 15:59:59 2030
# Fingerprint (SHA-256):
BF:D8:8F:E1:10:1C:41:AE:3E:80:1B:F8:BE:56:35:0E:E9:BA:D1:A6:B9:BD:51:5E:DC:5C:6D:5B:87:11:AC:44
# Fingerprint (SHA1): CF:9E:87:6D:D3:EB:FC:42:26:97:A3:B5:A3:7A:A0:76:A9:06:23:48
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TWCA Root Certification Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\137\061\013\060\011\006\003\125\004\006\023\002\124\127\061
\022\060\020\006\003\125\004\012\014\011\124\101\111\127\101\116
\055\103\101\061\020\060\016\006\003\125\004\013\014\007\122\157
```

CKA LABEL UTF8 "Certum Trusted Network CA"

END

CKA ID

UTF8 "0"

CKA ISSUER MULTILINE OCTAL

 $\label{eq:condition} $$ \000137061\013\060\011\006\003\125\004\006\023\002\124\127\061\022\060\020\006\003\125\004\011\111\127\101\116\055\103\101\061\020\060\016\0006\003\125\0004\013\014\007\122\157\157\164\040\103\125\0004\003\014\0041\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164\151\157\156\0040\101\165\164\150\157\162\151\164\171$

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

\002\001\001

END

CKA_VALUE MULTILINE_OCTAL

\060\202\003\173\060\202\002\143\240\003\002\001\002\002\001\001 \060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060 $\label{eq:condition} $$ 137 \cdot 061 \cdot 013 \cdot 060 \cdot 011 \cdot 006 \cdot 003 \cdot 125 \cdot 004 \cdot 006 \cdot 023 \cdot 002 \cdot 124 \cdot 127 \cdot 061 \cdot 022 \cdot 006 \cdot 006$ \060\020\006\003\125\004\012\014\011\124\101\111\127\101\116\055 \103\101\061\020\060\016\006\003\125\004\013\014\007\122\157\157 \164\040\103\101\061\052\060\050\006\003\125\004\003\014\041\124 \127\103\101\040\122\157\157\164\040\103\145\162\164\151\146\151 $\\ 143 \\ 141 \\ 164 \\ 151 \\ 157 \\ 156 \\ 040 \\ 101 \\ 165 \\ 164 \\ 150 \\ 157 \\ 162 \\ 151 \\ 164 \\ 171 \\$ \060\036\027\015\060\070\060\070\062\070\060\067\062\064\063\063 \132\027\015\063\060\061\062\063\061\061\065\065\071\065\071\132 $\label{eq:condition} $$ \060\137\061\013\060\011\006\003\125\004\006\023\002\124\127\061 $$$ \022\060\020\006\003\125\004\012\014\011\124\101\111\127\101\116 \055\103\101\061\020\060\016\006\003\125\004\013\014\007\122\157 \157\164\040\103\101\061\052\060\050\006\003\125\004\003\014\041 \124\127\103\101\040\122\157\157\164\040\103\145\162\164\151\146 \151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164 \171\060\202\001\042\060\015\006\011\052\206\110\206\367\015\001 $\label{eq:condition} $$ \001\000\260\176\162\270\244\003\224\346\247\336\011\070\221\112 $$$ $\label{eq:condition} $$ \021\100\207\247\174\131\144\024\173\265\021\020\335\376\277\325 $$$ \300\273\126\342\205\045\364\065\162\017\370\123\320\101\341\104 \001\302\264\034\303\061\102\026\107\205\063\042\166\262\012\157 $\label{eq:condition} $$ \017\345\045\120\117\205\206\276\277\230\056\020\147\036\276\021 $$$ \005\206\005\220\304\131\320\174\170\020\260\200\134\267\341\307 \053\165\313\174\237\256\265\321\235\043\067\143\247\334\102\242 \055\222\004\033\120\301\173\270\076\033\311\126\004\213\057\122 \233\255\251\126\351\301\377\255\251\130\207\060\266\201\367\227 \105\374\031\127\073\053\157\344\107\364\231\105\376\035\361\370

\227\243\210\035\067\034\134\217\340\166\045\232\120\370\240\124 \377\104\220\166\043\322\062\306\303\253\006\277\374\373\277\363 \255\175\222\142\002\133\051\323\065\243\223\232\103\144\140\135 \262\372\062\377\073\004\257\115\100\152\371\307\343\357\043\375 \153\313\345\017\213\070\015\356\012\374\376\017\230\237\060\061 $\label{eq:condition} $$ 35\154\122\145\371\213\201\276\042\341\034\130\003\272\221\033$ \211\007\002\003\001\000\001\243\102\060\100\060\016\006\003\125 \035\017\001\001\377\004\004\003\002\001\006\060\017\006\003\125 $\label{eq:condition} $$ \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:condition} $$ \frac{117}172\frac{24}{203}\frac{31}{030}\frac{343}{010}\frac{65}{246}\frac{272}{060}\frac{015}{006}\frac{011}{052} $$$ \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 $\label{eq:condition} $$ \260\101\075\271\046\144\203\012\057\350\100\300\227\050\047\202 $$$ $\label{eq:condition} $$ \060\112\311\223\377\152\347\246\000\177\211\102\232\326\021\345 $$$ \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 $\label{eq:condition} $$ \036\247\011\151\126\102\323\150\121\030\276\124\232\277\104\101$ \272\111\276\040\272\151\134\356\270\167\315\316\154\037\255\203 \226\030\175\016\265\024\071\204\361\050\351\055\243\236\173\036 \172\162\132\203\263\171\157\357\264\374\320\012\245\130\117\106 $\label{eq:condition} $$ 37\373\155\171\131\362\204\042\122\256\017\314\373\174\073\347 $$ \152\312\107\141\303\172\370\323\222\004\037\270\040\204\341\066 $\label{eq:condition} $$ \frac{124}026\\307\\100\\336\\073\\212\\163\\334\\337\\306\\011\\114\\337\\354\\332$ \377\324\123\102\241\311\362\142\035\042\203\074\227\305\371\031 \142\047\254\145\042\327\323\074\306\345\216\262\123\314\111\316 \274\060\376\173\016\063\220\373\355\322\024\221\037\007\257 **END** CKA NSS MOZILLA CA POLICY

CK_BBOOL CK_TRUE

CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

```
# Trust for "TWCA Root Certification Authority"
```

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

[#] 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):

```
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
\label{eq:condition} $$ \022\060\020\006\003\125\004\012\014\011\124\101\111\127\101\116
\label{eq:condition} $$ \051\03\101\061\020\060\016\006\003\125\004\013\014\007\122\157 $$
\157\164\040\103\101\061\052\060\050\006\003\125\004\003\014\041
\171
END
CKA SERIAL NUMBER
MULTILINE OCTAL
\002\001\001
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA TRUST CODE SIGNING CK TRUST CKT NSS MUST VERIFY TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
# Certificate "Explicitly Distrust DigiNotar Root CA"
# Issuer: E=info@diginotar.nl,CN=DigiNotar Root CA,O=DigiNotar,C=NL
# Serial Number:0f:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff
# Subject: E=info@diginotar.nl,CN=DigiNotar Root CA,O=DigiNotar,C=NL
# Not Valid Before: Fri Jul 27 17:19:37 2007
# Not Valid After: Mon Mar 31 18:19:22 2025
# Fingerprint (MD5): 0A:A4:D5:CC:BA:B4:FB:A3:59:E3:E6:01:DD:53:D9:4E
# Fingerprint (SHA1): C1:77:CB:4B:E0:B4:26:8E:F5:C7:CF:45:99:22:B9:B0:CE:BA:21:2F
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Explicitly Distrust DigiNotar Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT
MULTILINE_OCTAL
\label{eq:condition} $$ \060\137\061\013\060\011\006\003\125\004\006\023\002\116\114\061 $$
\022\060\020\006\003\125\004\012\023\011\104\151\147\151\116\157
\164\141\162\061\032\060\030\006\003\125\004\003\023\021\104\151
\147\151\116\157\164\141\162\040\122\157\157\164\040\103\101\061
```

\040\060\036\006\011\052\206\110\206\367\015\001\011\001\026\021 \151\156\146\157\100\144\151\147\151\156\157\164\141\162\056\156 \154

END

CKA ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

 $\label{eq:condition} $$ \000137061\013\060\011\006\003\125\004\006\023\002\116\114\061\114\061\022\060\003\125\004\001\1104\151\116\157\164\141\162\060\003\125\0004\003\023\021\104\151\147\151\116\157\164\141\162\040\122\157\157\164\040\103\101\061\040\060\036\006\011\052\206\110\206\367\015\001\011\001\026\021\151\156\146\157\100\144\151\147\151\156\157\164\141\162\056\156\154$

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

END

CKA VALUE MULTILINE OCTAL

 $\label{eq:condition} $$ \060\202\005\212\060\202\003\162\240\003\002\001\002\002\002\0017$ \015\006\011\052\206\110\206\367\015\001\001\005\005\000\060\137 \020\006\003\125\004\012\023\011\104\151\147\151\116\157\164\141 \162\061\032\060\030\006\003\125\004\003\023\021\104\151\147\151 \116\157\164\141\162\040\122\157\157\164\040\103\101\061\040\060 \036\006\011\052\206\110\206\367\015\001\011\001\026\021\151\156 $\label{eq:condition} $$ 146\157\100\144\151\147\151\156\157\164\141\162\056\156\154\060$$ \036\027\015\060\067\060\067\062\067\061\067\061\071\063\067\132 \027\015\062\065\060\063\063\061\061\070\061\071\062\062\132\060 $\label{eq:condition} $$ \frac{137}{061}\frac{013}{060}\frac{0011}{006}\frac{003}{125}\frac{004}{006}\frac{023}{002}\frac{116}{114}\frac{061}{022}$ \060\020\006\003\125\004\012\023\011\104\151\147\151\116\157\164 \141\162\061\032\060\030\006\003\125\004\003\023\021\104\151\147 \151\116\157\164\141\162\040\122\157\157\164\040\103\101\061\040 \060\036\006\011\052\206\110\206\367\015\001\011\001\026\021\151 \156\146\157\100\144\151\147\151\156\157\164\141\162\056\156\154 \060\202\002\042\060\015\006\011\052\206\110\206\367\015\001\001 \001\005\000\003\202\002\017\000\060\202\002\012\002\202\002\001 $\label{eq:condition} $$ \000\254\260\130\301\000\275\330\041\010\013\053\232\376\156\126 $$$ $\label{eq:condition} $$ \060\005\237\033\167\220\020\101\134\303\015\207\021\167\216\201 $$$ \361\312\174\351\214\152\355\070\164\065\273\332\337\371\273\300 \011\067\264\226\163\201\175\063\032\230\071\367\223\157\225\177 \075\271\261\165\207\272\121\110\350\213\160\076\225\004\305\330 \266\303\026\331\210\260\261\207\035\160\332\206\264\017\024\213 \172\317\020\321\164\066\242\022\173\167\206\112\171\346\173\337 \002\021\150\245\116\206\256\064\130\233\044\023\170\126\042\045 \036\001\213\113\121\161\373\202\314\131\226\151\210\132\150\123 \305\271\015\002\067\313\113\274\146\112\220\176\052\013\005\007

\355\026\137\125\220\165\330\106\311\033\203\342\010\276\361\043 \314\231\035\326\052\017\203\040\025\130\047\202\056\372\342\042 \302\111\261\271\001\201\152\235\155\235\100\167\150\166\116\041 \052\155\204\100\205\116\166\231\174\202\363\363\267\002\131\324 \046\001\033\216\337\255\123\006\321\256\030\335\342\262\072\313 $\label{eq:condition} $$ 327 \times 10070 \times 16 \times 254 \times 3051 \times 271 \times 31323 \times 320 \times 371 \times 30003 \times 317 \times 1100 \times 327 \times 3100 \times 317 \times 3100 \times 317 \times 3100 \times 31000 \times 3100 \times 31000 \times 3100 \times 310$ \202\206\146\013\033\151\017\311\353\070\210\172\046\032\005\114 \222\327\044\324\226\362\254\122\055\243\107\325\122\366\077\376 $\label{eq:condition} $$ 316 \ 204 \ 006 \ 160 \ 246 \ 252 \ 076 \ 242 \ 362 \ 266 \ 126 \ 064 \ 030 \ 127 \ 242 \ 344 $$$ \201\155\347\312\360\152\323\307\221\153\002\203\101\174\025\357 \153\232\144\136\343\320\074\345\261\353\173\135\206\373\313\346 $\label{eq:condition} $$ \frac{167}{111}\frac{315}{243}\frac{34}{367}\frac{271}{234}\frac{270}{344}\frac{3137}{223}\frac{317}{314} $$$ \060\032\062\034\316\034\143\225\245\371\352\341\164\213\236\351 $\label{eq:condition} $$ \053\251\060\173\240\030\037\016\030\013\345\133\251\323\321\154$$$ $\label{eq:condition} $$ \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 $\label{eq:condition} $$ \246\350\241\331\071\006\227\365\156\215\002\220\214\024\173\077 $$$ \200\315\033\234\272\304\130\162\043\257\266\126\237\306\172\102 \063\051\007\077\202\311\346\037\005\015\315\114\050\066\213\323 \310\076\034\306\210\357\136\356\211\144\351\035\353\332\211\176 \062\246\151\321\335\314\210\237\321\320\311\146\041\334\006\147 \305\224\172\232\155\142\114\175\314\340\144\200\262\236\107\216 $\label{eq:condition} $$ \243\002\003\001\000\001\243\102\060\100\060\017\006\003\125\035$$ \023\001\001\377\004\005\060\003\001\001\377\060\016\006\003\125 \035\017\001\001\377\004\004\003\002\001\006\060\035\006\003\125 $\label{eq:condition} $$ \035\016\004\026\004\024\210\150\277\340\216\065\304\073\070\153 $$$ \142\367\050\073\204\201\310\014\327\115\060\015\006\011\052\206 \110\206\367\015\001\001\005\005\000\003\202\002\001\000\073\002 \215\313\074\060\350\156\240\255\362\163\263\137\236\045\023\004 \005\323\366\343\213\273\013\171\316\123\336\344\226\305\321\257 $\label{eq:condition} $$ 163\274\325\303\320\100\125\174\100\177\315\033\137\011\325\362$ \174\237\150\035\273\135\316\172\071\302\214\326\230\173\305\203 \125\250\325\175\100\312\340\036\367\211\136\143\135\241\023\302 \135\212\266\212\174\000\363\043\303\355\205\137\161\166\360\150 \143\252\105\041\071\110\141\170\066\334\361\103\223\324\045\307 \362\200\145\341\123\002\165\121\374\172\072\357\067\253\204\050 \127\014\330\324\324\231\126\154\343\242\376\131\204\264\061\350 $\label{eq:condition} $$ \063\370\144\224\224\121\227\253\071\305\113\355\332\335\200\013$ $\label{eq:control_loss} $$ \frac{157}174\\051\\015\\304\\216\\212\\162\\015\\347\\123\\024\\262\\140\\101\\075$ \204\221\061\150\075\047\104\333\345\336\364\372\143\105\310\114 \076\230\365\077\101\272\116\313\067\015\272\146\230\361\335\313 \237\134\367\124\066\202\153\054\274\023\141\227\102\370\170\273 \314\310\242\237\312\360\150\275\153\035\262\337\215\157\007\235 \332\216\147\307\107\036\312\271\277\052\102\221\267\143\123\146 \361\102\243\341\364\132\115\130\153\265\344\244\063\255\134\160 \035\334\340\362\353\163\024\221\232\003\301\352\000\145\274\007 \374\317\022\021\042\054\256\240\275\072\340\242\052\330\131\351 $\label{eq:condition} $$ \051\323\030\065\244\254\021\137\031\265\265\033\377\042\112\134$ $\label{eq:control_co$

#

Trust for Certificate "Explicitly Distrust DigiNotar Root CA"

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

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

- # Not Valid Before: Fri Jul 27 17:19:37 2007
- # Not Valid After: Mon Mar 31 18:19:22 2025
- # Fingerprint (MD5): 0A:A4:D5:CC:BA:B4:FB:A3:59:E3:E6:01:DD:53:D9:4E
- # Fingerprint (SHA1): C1:77:CB:4B:E0:B4:26:8E:F5:C7:CF:45:99:22:B9:B0:CE:BA:21:2F

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

CKA_TOKEN CK_BBOOL CK_TRUE

CKA PRIVATE CK BBOOL CK FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA LABEL UTF8 "Explicitly Distrust DigiNotar Root CA"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL

\301\167\313\113\340\264\046\216\365\307\317\105\231\042\271\260 \316\272\041\057

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL

\012\244\325\314\272\264\373\243\131\343\346\001\335\123\331\116 END

CKA ISSUER MULTILINE OCTAL

 $\label{eq:condition} $$ \000137061\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\1147\151\116\157\164\141\162\006\003\125\0004\003\023\021\104\151\147\151\116\157\164\141\162\040\122\157\157\164\040\103\101\061\040\060\036\006\011\052\206\110\206\367\015\001\011\001\026\021\151\156\146\157\100\144\151\147\151\156\157\164\141\162\056\156\154$

END

CKA_SERIAL_NUMBER

MULTILINE_OCTAL

 $\\ \\ \langle 002 \rangle 020 \rangle 017 \rangle 377 \rangle 377$

```
\377\377
END
{\tt CKA\_TRUST\_SERVER\_AUTH\ CK\_TRUST\ CKT\_NSS\_NOT\_TRUSTED}
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_NOT_TRUSTED
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_NOT_TRUSTED
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
# Certificate "Security Communication RootCA2"
# Issuer: OU=Security Communication RootCA2,O="SECOM Trust Systems CO.,LTD.",C=JP
# Serial Number: 0 (0x0)
# Subject: OU=Security Communication RootCA2,O="SECOM Trust Systems CO.,LTD.",C=JP
# Not Valid Before: Fri May 29 05:00:39 2009
# Not Valid After: Tue May 29 05:00:39 2029
# Fingerprint (SHA-256):
51:3B:2C:EC:B8:10:D4:CD:E5:DD:85:39:1A:DF:C6:C2:DD:60:D8:7B:B7:36:D2:B5:21:48:4A:A4:7A:0E:BE:F6
# Fingerprint (SHA1): 5F:3B:8C:F2:F8:10:B3:7D:78:B4:CE:EC:19:19:C3:73:34:B9:C7:74
CKA_CLASS CK_OBJECT_CLASS
CKO_CERTIFICATE
CKA TOKEN CK BBOOL CK TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA LABEL UTF8 "Security Communication RootCA2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA SUBJECT MULTILINE OCTAL
\060\135\061\013\060\011\006\003\125\004\006\023\002\112\120\061
\\ \\045\\060\\043\\006\\003\\125\\004\\012\\023\\034\\123\\105\\103\\117\\115\\040
\124\162\165\163\164\040\123\171\163\164\145\155\163\040\103\117
\056\054\114\124\104\056\061\047\060\045\006\003\125\004\013\023
\label{eq:condition} $$ \036\123\145\143\165\162\151\164\171\040\103\157\155\155\165\156
\151\143\141\164\151\157\156\040\122\157\157\164\103\101\062
END
CKA ID UTF8 "0"
CKA ISSUER MULTILINE OCTAL
\060\135\061\013\060\011\006\003\125\004\006\023\002\112\120\061
\045\060\043\006\003\125\004\012\023\034\123\105\103\117\115\040
\124\162\165\163\164\040\123\171\163\164\145\155\163\040\103\117
```

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

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL \002\001\000

END

CKA_VALUE MULTILINE_OCTAL

\060\202\003\167\060\202\002\137\240\003\002\001\002\002\001\000

\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060 \135\061\013\060\011\006\003\125\004\006\023\002\112\120\061\045 \060\043\006\003\125\004\012\023\034\123\105\103\117\115\040\124 \162\165\163\164\040\123\171\163\164\145\155\163\040\103\117\056 \054\114\124\104\056\061\047\060\045\006\003\125\004\013\023\036 $\\ 143 \\ 141 \\ 164 \\ 151 \\ 157 \\ 156 \\ 040 \\ 122 \\ 157 \\ 157 \\ 164 \\ 103 \\ 101 \\ 062 \\ 060 \\ 036 \\$ \027\015\060\071\060\065\062\071\060\065\060\060\060\063\071\132\027 $\label{eq:condition} $$ \0.015\0.62\0.71\0.60\0.65\0.60\0.60\0.63\0.71\1.32\0.60\1.35 $$$ \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 \114\124\104\056\061\047\060\045\006\003\125\004\013\023\036\123 \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 $\label{eq:condition} $$ \003\202\001\017\000\060\202\001\012\002\202\001\001\000\320\025$$ \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 $\label{eq:condition} $$ \frac{332}{101}220\\020\\301\\326\\326\\102\\211\\302\\277\\364\\070\\022\\225\\114$ \124\005\367\066\344\105\203\173\024\145\326\334\014\115\321\336 \176\014\253\073\304\025\276\072\126\246\132\157\166\151\122\251 \172\271\310\353\152\232\135\122\320\055\012\153\065\026\011\020 \204\320\152\312\072\006\000\067\107\344\176\127\117\077\213\353 $\label{eq:condition} $$ 147\270\210\252\305\276\123\125\262\221\304\175\271\260\205\031 $$$ \006\170\056\333\141\032\372\205\365\112\221\241\347\026\325\216 \242\071\337\224\270\160\037\050\077\213\374\100\136\143\203\074 $\label{eq:condition} $$ \203\052\032\231\153\317\336\131\152\073\374\157\026\327\037\375$ \112\020\353\116\202\026\072\254\047\014\123\361\255\325\044\260 \153\003\120\301\055\074\026\335\104\064\047\032\165\373\002\003 \001\000\001\243\102\060\100\060\035\006\003\125\035\016\004\026 \004\024\012\205\251\167\145\005\230\174\100\201\370\017\227\054 \070\361\012\354\074\317\060\016\006\003\125\035\017\001\001\377 \004\004\003\002\001\006\060\017\006\003\125\035\023\001\001\377 $\label{eq:condition} $$ \004\005\060\003\001\001\377\060\015\006\011\052\206\110\206\367 $$$ $\label{eq:condition} $$ \001\001\001\003\202\001\001\000\114\072\243\104\254$ \271\105\261\307\223\176\310\013\012\102\337\144\352\034\356\131 \154\010\272\211\137\152\312\112\225\236\172\217\007\305\332\105 \162\202\161\016\072\322\314\157\247\264\241\043\273\366\044\237 \313\027\376\214\246\316\302\322\333\314\215\374\161\374\003\051 \301\154\135\063\137\144\266\145\073\211\157\030\166\170\365\334 \242\110\037\031\077\216\223\353\361\372\027\356\315\116\343\004 \022\125\326\345\344\335\373\076\005\174\342\035\136\306\247\274 \227\117\150\072\365\351\056\012\103\266\257\127\134\142\150\174 \267\375\243\212\204\240\254\142\276\053\011\207\064\360\152\001

 $\label{eq:control} $$ \273\233\051\126\074\376\000\067\317\043\154\361\116\252\266\164 \106\022\154\221\356\064\325\354\232\221\347\104\276\220\061\162 \325\111\002\366\002\345\364\037\353\174\331\226\125\251\377\354 \212\371\231\107\377\065\132\0002\252\004\313\212\133\207\161\051 \221\275\244\264\172\015\275\232\365\127\043\000\007\041\027\077 \112\071\321\005\111\013\247\266\067\201\245\135\214\252\063\136 \201\050\174\247\175\047\353\000\256\215\067 $$

END

CKA_NSS_MOZILLA_CA_POLICY

CK BBOOL CK TRUE

 ${\tt CKA_NSS_SERVER_DISTRUST_AFTER\ CK_BBOOL\ CK_FALSE\ CKA_NSS_EMAIL_DISTRUST_AFTER\ CK_BBOOL\ CK_FALSE\ }$

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

\137\073\214\362\370\020\263\175\170\264\316\354\031\031\303\163

\064\271\307\164

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL

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

END

CKA ISSUER MULTILINE OCTAL

 $\label{eq:condition} $$ \060\135\061\013\060\011\006\003\125\004\006\023\002\112\120\061$

\045\060\043\006\003\125\004\012\023\034\123\105\103\117\115\040

 $\label{eq:condition} $$ \056\054\114\124\104\056\061\047\060\045\006\003\125\004\013\023$

\036\123\145\143\165\162\151\164\171\040\103\157\155\155\165\156

 $\label{eq:condition} $$ \frac{151}143\frac{141}164\frac{151}157\frac{6040}122\frac{157}157\frac{164}103\frac{101}{062}$$

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 "Actalis Authentication Root CA" # Issuer: CN=Actalis Authentication Root CA,O=Actalis S.p.A./03358520967,L=Milan,C=IT # Serial Number:57:0a:11:97:42:c4:e3:cc # Subject: CN=Actalis Authentication Root CA,O=Actalis S.p.A./03358520967,L=Milan,C=IT # Not Valid Before: Thu Sep 22 11:22:02 2011 # Not Valid After: Sun Sep 22 11:22:02 2030 # Fingerprint (SHA-256): 55:92:60:84:EC:96:3A:64:B9:6E:2A:BE:01:CE:0B:A8:6A:64:FB:FE:BC:C7:AA:B5:AF:C1:55:B3:7F:D7:60:66 Fingerprint (SHA1): F3:73:B3:87:06:5A:28:84:8A:F2:F3:4A:CE:19:2B:DD:C7:8E:9C:AC CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE CKA TOKEN CK BBOOL CK TRUE CKA_PRIVATE CK_BBOOL CK_FALSE CKA_MODIFIABLE CK_BBOOL CK_FALSE CKA LABEL UTF8 "Actalis Authentication Root CA" CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509 CKA_SUBJECT MULTILINE_OCTAL \060\153\061\013\060\011\006\003\125\004\006\023\002\111\124\061 \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 $\label{eq:condition} $$ \000\071\066\067\061\047\060\045\006\003\125\004\003\014\036\101 $$$ \143\164\141\154\151\163\040\101\165\164\150\145\156\164\151\143 \141\164\151\157\156\040\122\157\157\164\040\103\101 **END** CKA ID UTF8 "0" CKA ISSUER MULTILINE OCTAL \060\153\061\013\060\011\006\003\125\004\006\023\002\111\124\061 \016\060\014\006\003\125\004\007\014\005\115\151\154\141\156\061 \043\060\041\006\003\125\004\012\014\032\101\143\164\141\154\151 \163\040\123\056\160\056\101\056\057\060\063\063\065\070\065\062 \060\071\066\067\061\047\060\045\006\003\125\004\003\014\036\101 $\\ 143 \\ 164 \\ 141 \\ 154 \\ 151 \\ 163 \\ 040 \\ 101 \\ 165 \\ 164 \\ 150 \\ 145 \\ 156 \\ 164 \\ 151 \\ 143 \\$ \141\164\151\157\156\040\122\157\157\164\040\103\101 **END** CKA_SERIAL_NUMBER MULTILINE_OCTAL \002\010\127\012\021\227\102\304\343\314 **END** CKA_VALUE MULTILINE_OCTAL

\060\202\005\273\060\202\003\243\240\003\002\001\002\002\010\127 \012\021\227\102\304\343\314\060\015\006\011\052\206\110\206\367

\015\001\001\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 \063\063\065\070\065\062\060\071\066\067\061\047\060\045\006\003 \150\145\156\164\151\143\141\164\151\157\156\040\122\157\157\164 \040\103\101\060\036\027\015\061\061\060\071\062\062\061\061\062 $\label{eq:condition} $$ \062\060\062\132\027\015\063\060\060\071\062\062\061\061\062\062$ \060\062\132\060\153\061\013\060\011\006\003\125\004\006\023\002 $\label{eq:condition} $$ \frac{111}124 \cdot 061 \cdot 016 \cdot 060 \cdot 014 \cdot 006 \cdot 003 \cdot 125 \cdot 004 \cdot 007 \cdot 014 \cdot 005 \cdot 115 \cdot 151 \cdot 154 \cdot 006 \cdot 0014 \cdot 006 \cdot 0014 \cdot 0$ \141\154\151\163\040\123\056\160\056\101\056\057\060\063\063\065 $\label{eq:condition} $$ \070\065\062\060\071\066\067\061\047\060\045\006\003\125\004\003$ $\\ \\ 014\\ \\ 036\\ \\ 101\\ \\ 143\\ \\ 164\\ \\ 141\\ \\ 154\\ \\ 151\\ \\ 163\\ \\ 040\\ \\ 101\\ \\ 165\\ \\ 164\\ \\ 150\\ \\ 145\\ \\ 156$ \164\151\143\141\164\151\157\156\040\122\157\157\164\040\103\101 $\label{eq:condition} $$ \0.060\202\0.042\0.060\0.15\0.06\0.11\0.52\2.06\1.10\2.06\3.67\0.15\0.01\0.01$$ \001\005\000\003\202\002\017\000\060\202\002\012\002\202\002\001 \000\247\306\304\245\051\244\054\357\345\030\305\260\120\243\157 $\label{eq:condition} $$ \frac{121}073\frac{237}012\frac{311}302\frac{110}070\frac{012}302\frac{304}240\frac{030}{177}221 $$ \265\207\271\100\077\335\035\150\037\010\203\325\055\036\210\240 \370\217\126\217\155\231\002\222\220\026\325\137\010\154\211\327 $\label{eq:condition} $$ 341\254\274\040\302\261\340\203\121\212\151\115\000\226\132\157 $$$ \057\300\104\176\243\016\344\221\315\130\356\334\373\307\036\105 \107\335\047\271\010\001\237\246\041\035\365\101\055\057\114\375 \050\255\340\212\255\042\264\126\145\216\206\124\217\223\103\051 \336\071\106\170\243\060\043\272\315\360\175\023\127\300\135\322 \203\153\110\114\304\253\237\200\132\133\072\275\311\247\042\077 \200\047\063\133\016\267\212\014\135\007\067\010\313\154\322\172 \107\042\104\065\305\314\314\056\216\335\052\355\267\175\146\015 $\label{eq:condition} $$ \frac{137}{141}\frac{042}{125}\frac{33}{343}\frac{343}{075}\frac{320}{065}\frac{142}{232}\frac{333}{106}\frac{343}{343}\frac{343}{075}\frac{320}{065}\frac{320}{142}\frac{333}{106}\frac{343}{343}\frac{343}{075}\frac{320}{065}\frac{320}{142}\frac{333}{106}\frac{343}{1$ \257\024\310\133\241\314\211\033\341\060\046\374\240\233\037\201 \247\107\037\004\353\243\071\222\006\237\231\323\277\323\352\117 \120\234\031\376\226\207\036\074\145\366\243\030\044\203\206\020 \347\124\076\250\072\166\044\117\201\041\305\343\017\002\370\223 \224\107\040\273\376\324\016\323\150\271\335\304\172\204\202\343 \123\124\171\335\333\234\322\362\007\233\056\266\274\076\355\205 \155\357\045\021\362\227\032\102\141\367\112\227\350\213\261\020 $\label{eq:condition} $$ \07^372\145\201\262\242\071\317\367\074\377\030\373\306\361\132 $$$ $\label{eq:condition} $$ \frac{342\\002\\254\\173\\222\\320\\116\\024\\117\\131\\105\\366\\014\\136$ \050\137\260\350\077\105\317\317\257\233\157\373\204\323\167\132 \225\157\254\224\204\236\356\274\300\112\217\112\223\370\104\041 \342\061\105\141\120\116\020\330\343\065\174\114\031\264\336\005 \277\243\006\237\310\265\315\344\037\327\027\006\015\172\225\164 \125\015\150\032\374\020\033\142\144\235\155\340\225\240\303\224 \007\127\015\024\346\275\005\373\270\237\346\337\213\342\306\347 \176\226\366\123\305\200\064\120\050\130\360\022\120\161\027\060 \272\346\170\143\274\364\262\255\233\053\262\376\341\071\214\136

\272\013\040\224\336\173\203\270\377\343\126\215\267\021\351\073 \214\362\261\301\135\235\244\013\114\053\331\262\030\365\265\237 \113\002\003\001\000\001\243\143\060\141\060\035\006\003\125\035 $\label{eq:condition} $$ \016\004\026\004\024\122\330\210\072\310\237\170\146\355\211\363$ \173\070\160\224\311\002\002\066\320\060\017\006\003\125\035\023 $\label{eq:condition} $$ \001\001\377\004\005\060\003\001\001\377\060\037\006\003\125\035 $$$ \043\004\030\060\026\200\024\122\330\210\072\310\237\170\146\355 \211\363\173\070\160\224\311\002\002\066\320\060\016\006\003\125 $\label{eq:condition} $$ \035\017\001\001\377\004\004\003\002\001\006\060\015\006\011\052$$ \206\110\206\367\015\001\001\013\005\000\003\202\002\001\000\013 \173\162\207\300\140\246\111\114\210\130\346\035\210\367\024\144 \110\246\330\130\012\016\117\023\065\337\065\035\324\355\006\061 \310\201\076\152\325\335\073\032\062\356\220\075\021\322\056\364 \216\303\143\056\043\146\260\147\276\157\266\300\023\071\140\252 $\label{eq:condition} $$ 242 \ 064 \ 045 \ 223 \ 165 \ 122 \ 336 \ 247 \ 235 \ 255 \ 016 \ 207 \ 211 \ 122 \ 161 \ 152 \ 161 \ 152 \ 161$ \026\074\031\035\203\370\232\051\145\276\364\077\232\331\360\363 $\label{eq:condition} $$ \frac{200}{041}161\\200\\115\\313\\340\\070\\233\\077\\273\\372\\340\\060\\115$ \317\206\323\145\020\031\030\321\227\002\261\053\162\102\150\254 \240\275\116\132\332\030\277\153\230\201\320\375\232\276\136\025 \110\315\021\025\271\300\051\134\264\350\210\367\076\066\256\267 \142\375\036\142\336\160\170\020\034\110\133\332\274\244\070\272 \147\355\125\076\136\127\337\324\003\100\114\201\244\322\117\143 $\label{eq:condition} $$ \247\011\102\011\024\374\000\251\302\200\163\117\056\300\100\331 $$$ \021\173\110\352\172\002\300\323\353\050\001\046\130\164\301\300 \163\042\155\223\225\375\071\175\273\052\343\366\202\343\054\227 \137\116\037\221\224\372\376\054\243\330\166\032\270\115\262\070 \117\233\372\035\110\140\171\046\342\363\375\251\320\232\350\160 \217\111\172\326\345\275\012\016\333\055\363\215\277\353\343\244 \175\313\307\225\161\350\332\243\174\305\302\370\164\222\004\033 \206\254\244\042\123\100\266\254\376\114\166\317\373\224\062\300 $\label{eq:condition} $$ \065\237\166\077\156\345\220\156\240\246\046\242\270\054\276\321 $$$ \053\205\375\247\150\310\272\001\053\261\154\164\035\270\163\225 \347\356\267\307\045\360\000\114\000\262\176\266\013\213\034\363 \300\120\236\045\271\340\010\336\066\146\377\067\245\321\273\124 \144\054\311\047\265\113\222\176\145\377\323\055\341\271\116\274 \177\244\101\041\220\101\167\246\071\037\352\236\343\237\320\146 \157\005\354\252\166\176\277\153\026\240\353\265\307\374\222\124 $\begin{tabular}{l} $$ \begin{tabular}{l} $0.057 \begin{tabular}{l} 0.057 \begin{tabular}{l} 0.$ $\label{eq:condition} $$ \361\152\110\025\377\302\007\266\261\215\017\216\134\120\106\263$ $\label{eq:condition} $$ \075\277\001\230\117\262\131\124\107\076\064\173\170\155\126\223 $$$ \056\163\352\146\050\170\315\035\024\277\240\217\057\056\270\056 \216\362\024\212\314\351\265\174\373\154\235\014\245\341\226 **END**

CKA_NSS_MOZILLA_CA_POLICY

CK BBOOL CK TRUE

CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

```
# Issuer: CN=Actalis Authentication Root CA,O=Actalis S.p.A./03358520967,L=Milan,C=IT
# Serial Number:57:0a:11:97:42:c4:e3:cc
# Subject: CN=Actalis Authentication Root CA,O=Actalis S.p.A./03358520967,L=Milan,C=IT
# Not Valid Before: Thu Sep 22 11:22:02 2011
# Not Valid After: Sun Sep 22 11:22:02 2030
# Fingerprint (SHA-256):
55:92:60:84:EC:96:3A:64:B9:6E:2A:BE:01:CE:0B:A8:6A:64:FB:FE:BC:C7:AA:B5:AF:C1:55:B3:7F:D7:60:66
# Fingerprint (SHA1):
F3:73:B3:87:06:5A:28:84:8A:F2:F3:4A:CE:19:2B:DD:C7:8E:9C:AC
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Actalis Authentication Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\363\163\263\207\006\132\050\204\212\362\363\112\316\031\053\335
\307\216\234\254
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\151\301\015\117\007\243\033\303\376\126\075\004\274\021\366\246
END
CKA_ISSUER MULTILINE_OCTAL
\060\153\061\013\060\011\006\003\125\004\006\023\002\111\124\061
\016\060\014\006\003\125\004\007\014\005\115\151\154\141\156\061
\043\060\041\006\003\125\004\012\014\032\101\143\164\141\154\151
\163\040\123\056\160\056\101\056\057\060\063\063\065\070\065\062
\label{eq:condition} $$ \000\071\066\067\061\047\060\045\006\003\125\004\003\014\036\101 $$
\143\164\141\154\151\163\040\101\165\164\150\145\156\164\151\143
\141\164\151\157\156\040\122\157\157\164\040\103\101
END
CKA SERIAL NUMBER MULTILINE OCTAL
\002\010\127\012\021\227\102\304\343\314
END
CKA_TRUST_SERVER_AUTH
CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
# Certificate "Buypass Class 2 Root CA"
# Issuer: CN=Buypass Class 2 Root CA,O=Buypass AS-983163327,C=NO
# Serial Number: 2 (0x2)
# Subject: CN=Buypass Class 2 Root CA,O=Buypass AS-983163327,C=NO
# Not Valid Before: Tue Oct 26 08:38:03 2010
# Not Valid After: Fri Oct 26 08:38:03 2040
```

Trust for "Actalis Authentication Root CA"

Fingerprint (SHA-256):

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

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

CKA CLASS CK OBJECT CLASS CKO CERTIFICATE

CKA TOKEN CK BBOOL CK TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA MODIFIABLE CK BBOOL CK FALSE

CKA_LABEL UTF8 "Buypass Class 2 Root CA"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA SUBJECT MULTILINE OCTAL

 $\label{eq:condition} $$ \000116\001\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\0060\036\006\003\125\0004\003\014\027\102\165\171\160\141\163\163\040\103\154\141\163\163\040\062\040\122\157\157\164\040\103\101$

END

CKA_ID

UTF8 "0"

CKA ISSUER MULTILINE OCTAL

 $\label{lem:condition} $$ \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\103\60\003\125\004\003\014\027\102\165\171\160\141\163\163\040\103\154\141\163\163\040\062\040\122\157\157\164\040\103\101\ END$

CKA_SERIAL_NUMBER MULTILINE_OCTAL

\002\001\002

END

CKA VALUE MULTILINE OCTAL

\060\202\005\131\060\202\003\101\240\003\002\001\002\002\001\002 $\label{eq:condition} $$ \006\011\052\206\110\206\367\015\001\001\013\005\000\060$$$ \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 $\label{eq:condition} $$ \027\015\064\060\061\060\062\066\060\070\063\070\060\063\132\060 $$$ \040\101\123\055\071\070\063\061\066\063\063\062\067\061\040\060 $\label{eq:condition} $$ \0.03 \0.03 \1.25 \0.04 \0.03 \0.14 \0.27 \1.02 \1.65 \1.71 \1.60 \1.41 \1.63 \1.63 \0.40 \0.04 \0.06 \0.0$ \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 \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 $\label{eq:condition} $$ \062\120\020\116\177\364\206\223\354\204\323\216\274\113\277\134$$$ \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 $\label{eq:condition} $$ \frac{152}{267}015\\270\\007\\201\\176\\213\\070\\033\\070\\346\\012\\127\\231\\075$ \356\041\350\243\365\014\026\335\213\354\064\216\234\052\034\000 $\label{eq:condition} $$ \025\027\215\150\203\322\160\237\030\010\315\021\150\325\311\153$ \122\315\304\106\217\334\265\363\330\127\163\036\351\224\071\004 \277\323\336\070\336\264\123\354\151\034\242\176\304\217\344\033 $\label{eq:condition} $$ 160\255\362\242\371\373\367\026\144\146\151\237\111\121\242\342$ \025\030\147\006\112\177\325\154\265\115\263\063\340\141\353\135 \276\351\230\017\062\327\035\113\074\056\132\001\122\221\011\362 $\label{eq:condition} $$ 337\352\215\330\006\100\143\252\021\344\376\303\067\236\024\122$ \077\364\342\314\362\141\223\321\375\147\153\327\122\256\277\150 \253\100\103\240\127\065\123\170\360\123\370\141\102\007\144\306 \327\157\233\114\070\015\143\254\142\257\066\213\242\163\012\015 \365\041\275\164\252\115\352\162\003\111\333\307\137\035\142\143 \307\375\335\221\354\063\356\365\155\264\156\060\150\336\310\326 \046\260\165\136\173\264\007\040\230\241\166\062\270\115\154\117 \002\003\001\000\001\243\102\060\100\060\017\006\003\125\035\023 $\\ \\001\\\\001\\\\377\\\\004\\\\005\\\\006\\\\0005\\\\000\\\\0001\\\\001\\\\001\\\\377\\\\060\\\\003\\\\006\\\\003\\\\125\\\\035$ \016\004\026\004\024\311\200\167\340\142\222\202\365\106\234\363 \272\367\114\303\336\270\243\255\071\060\016\006\003\125\035\017 \001\001\377\004\004\003\002\001\006\060\015\006\011\052\206\110 \206\367\015\001\001\013\005\000\003\202\002\001\000\123\137\041 $\label{eq:condition} $$ 365 \times 272 \times 260 \times 72 \times 220 \times 154 \times 311 \times 57 \times 160 \times 357 \times 316 \times 357 \times$ \006\362\226\236\351\244\164\177\172\026\374\267\365\266\373\025 $\label{eq:condition} $$ \033\077\253\246\300\162\135\020\261\161\356\274\117\343\255\254$$ $\label{eq:condition} $$ \056\161\056\257\304\343\255\243\275\014\021\247\264\377 $$$ $\label{eq:local_$ \107\020\210\363\041\121\051\060\312\140\206\257\106\253\035\355 \072\133\260\224\336\104\343\101\010\242\301\354\035\326\375\117 $\verb|\|266|\|326|\|107|\|320|\|024|\|013|\|312|\|346|\|312|\|265|\|173|\|167|\|176|\|101|\|037|\|136|$ \203\307\266\214\071\226\260\077\226\201\101\157\140\220\342\350 \371\373\042\161\331\175\263\075\106\277\264\204\257\220\034\017 \217\022\152\257\357\356\036\172\256\002\112\212\027\053\166\376 $\verb|254|124|211|044|054|117|077|266|262|247|116|214|250|221|227|373|$ $\label{eq:condition} $$ \051\306\173\134\055\271\313\146\266\267\250\133\022\121\205\265$

\011\176\142\170\160\376\251\152\140\266\035\016\171\014\375\312 \352\044\200\162\303\227\077\362\167\253\103\042\012\307\353\266 $\\ \langle 014 \rangle 204 \rangle 202 \rangle 054 \rangle 200 \rangle 153 \rangle 101 \rangle 212 \rangle 010 \rangle 300 \rangle 353 \rangle 245 \rangle 153 \rangle 337 \rangle 231 \rangle 022$ $\label{eq:condition} $$ \frac{313}{212}\frac{325}{136}\frac{200}{014}\frac{340}{046}\frac{010}{066}\frac{110}{305}\frac{372}{070}\frac{021}{021}$ $\label{eq:condition} $$ \065\377\045\203\055\362\172\277\332\375\216\376\245\313\105\054$$$ \037\304\210\123\256\167\016\331\232\166\305\216\054\035\243\272 \325\354\062\256\300\252\254\367\321\172\115\353\324\007\342\110 \367\042\216\260\244\237\152\316\216\262\262\140\364\243\042\320 \043\353\224\132\172\151\335\017\277\100\127\254\153\131\120\331 \243\231\341\156\376\215\001\171\047\043\025\336\222\235\173\011 \115\132\347\113\110\060\132\030\346\012\155\346\217\340\322\273 \346\337\174\156\041\202\301\150\071\115\264\230\130\146\142\314 \112\220\136\303\372\047\004\261\171\025\164\231\314\276\255\040 $\label{eq:condition} $$ 336\046\140\034\353\126\121\246\243\352\344\243\077\247\377\141 $$$ \334\361\132\115\154\062\043\103\356\254\250\356\356\112\022\011 \074\135\161\302\276\171\372\302\207\150\035\013\375\134\151\314 $\label{eq:condition} $$ \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

\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 $\label{eq:condition} $$ \006\003\125\004\003\014\027\102\165\171\160\141\163\163$$ \040\103\154\141\163\163\040\062\040\122\157\157\164\040\103\101 **END** CKA SERIAL NUMBER MULTILINE OCTAL \002\001\002 **END** CKA TRUST SERVER AUTH CK TRUST CKT NSS TRUSTED DELEGATOR CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST CKA TRUST STEP UP APPROVED CK BBOOL CK FALSE # # Certificate "Buypass Class 3 Root CA" # Issuer: CN=Buypass Class 3 Root CA,O=Buypass AS-983163327,C=NO # 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 $\label{eq:condition} $$ \060\116\061\013\060\011\006\003\125\004\006\023\002\116\117\061 $$$ \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:condition} $$ \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 $\label{eq:condition} $$ \006\011\052\206\110\206\367\015\001\001\013\005\000\060$$$ \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 $\\ \langle 040 \rangle 101 \rangle 123 \rangle 055 \rangle 071 \rangle 070 \rangle 063 \rangle 061 \rangle 066 \rangle 063 \rangle 062 \rangle 067 \rangle 061 \rangle 040 \rangle 060$ \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 $\label{eq:condition} $$ \036\027\015\061\060\061\060\062\066\060\070\062\070\065\070\132 $$$ \027\015\064\060\061\060\062\066\060\070\062\070\065\070\132\060 \040\101\123\055\071\070\063\061\066\063\063\062\067\061\040\060 $\label{eq:condition} $$ \006\003\125\004\003\014\027\102\165\171\160\141\163\163\040 $$$ \103\154\141\163\163\040\063\040\122\157\157\164\040\103\101\060 \202\002\042\060\015\006\011\052\206\110\206\367\015\001\001\001 \245\332\012\225\026\120\343\225\362\136\235\166\061\006\062\172 \233\361\020\166\270\000\232\265\122\066\315\044\107\260\237\030 $\\ 144\\274\\232\\366\\372\\325\\171\\330\\220\\142\\114\\042\\057\\336\\070\\075$ \326\340\250\351\034\054\333\170\021\351\216\150\121\025\162\307 \363\063\207\344\240\135\013\134\340\127\007\052\060\365\315\304 \067\167\050\115\030\221\346\277\325\122\375\161\055\160\076\347 \306\304\212\343\360\050\013\364\166\230\241\213\207\125\262\072 $\\023\\374\\267\\076\\047\\067\\216\\042\\343\\250\\117\\052\\357\\140\\273\\075$ \267\071\303\016\001\107\231\135\022\117\333\103\372\127\241\355 \371\235\276\021\107\046\133\023\230\253\135\026\212\260\067\034 $\label{eq:condition} $$ 127\235\105\377\210\226\066\277\273\312\007\173\157\207\143\327$ \320\062\152\326\135\154\014\361\263\156\071\342\153\061\056\071 \000\047\024\336\070\300\354\031\146\206\022\350\235\162\026\023 \144\122\307\251\067\034\375\202\060\355\204\030\035\364\256\134 \377\160\023\000\353\261\365\063\172\113\326\125\370\005\215\113 \151\260\365\263\050\066\134\024\304\121\163\115\153\013\361\064 \007\333\027\071\327\334\050\173\153\365\237\363\056\301\117\027 $\label{eq:condition} $$ \052\020\363\314\312\350\353\375\153\253\056\232\237\055\202\156$ $\label{eq:condition} $$ \004\324\122\001\223\055\075\206\374\176\374\337\357\102\035\246$$ \153\357\271\040\306\367\275\240\247\225\375\247\346\211\044\330 \314\214\064\154\342\043\057\331\022\032\041\271\125\221\157\013 \221\171\031\014\255\100\210\013\160\342\172\322\016\330\150\110 \273\202\023\071\020\130\351\330\052\007\306\022\333\130\333\322 \073\125\020\107\005\025\147\142\176\030\143\246\106\077\011\016 \124\062\136\277\015\142\172\047\357\200\350\333\331\113\006\132 \067\132\045\320\010\022\167\324\157\011\120\227\075\310\035\303 \337\214\105\060\126\306\323\144\253\146\363\300\136\226\234\303 \304\357\303\174\153\213\072\171\177\263\111\317\075\342\211\237

\240\060\113\205\271\234\224\044\171\217\175\153\251\105\150\017 \053\320\361\332\034\313\151\270\312\111\142\155\310\320\143\142 \335\140\017\130\252\217\241\274\005\245\146\242\317\033\166\262 \204\144\261\114\071\122\300\060\272\360\214\113\002\260\266\267 \002\003\001\000\001\243\102\060\100\060\017\006\003\125\035\023 $\label{eq:condition} $$ \001\001\377\004\005\060\003\001\001\377\060\035\006\003\125\035 $$$ $\label{eq:condition} $$ \016\004\026\004\024\107\270\315\377\345\157\356\370\262\354\057 $$$ \116\016\371\045\260\216\074\153\303\060\016\006\003\125\035\017 $\label{eq:condition} $$ \001\001\377\004\004\003\002\001\006\060\015\006\011\052\206\110 $$$ \206\367\015\001\001\013\005\000\003\202\002\001\000\000\040\043 $\label{eq:condition} $$ 101\065\004\220\302\100\142\140\357\342\065\114\327\077\254\342 $$$ $\label{eq:condition} $$ \064\220\270\241\157\166\372\026\026\244\110\067\054\351\220\302$ \362\074\370\012\237\330\201\345\273\133\332\045\054\244\247\125 \161\044\062\366\310\013\362\274\152\370\223\254\262\007\302\137 $\label{eq:condition} $$ \237\333\314\310\212\252\276\152\157\341\111\020\314\061\327\200 $$$ \273\273\310\330\242\016\144\127\352\242\365\302\251\061\025\322 $\label{eq:condition} $$ \040\152\354\374\042\001\050\317\206\270\200\036\251\314\021\245$$ \074\362\026\263\107\235\374\322\200\041\304\313\320\107\160\101 \241\312\203\031\010\054\155\362\135\167\234\212\024\023\324\066 $\label{eq:condition} $$ \034\222\360\345\006\067\334\246\346\220\233\070\217\134\153\033$ \106\206\103\102\137\076\001\007\123\124\135\145\175\367\212\163 \241\232\124\132\037\051\103\024\047\302\205\017\265\210\173\032 $\label{eq:condition} $$ \073\224\267\035\140\247\265\234\347\051\151\127\132\233\223\172$ \103\060\033\003\327\142\310\100\246\252\374\144\344\112\327\221 \123\001\250\040\210\156\234\137\104\271\313\140\201\064\354\157 \323\175\332\110\137\353\264\220\274\055\251\034\013\254\034\325 \242\150\040\200\004\326\374\261\217\057\273\112\061\015\112\206 $\label{eq:condition} $$ \034\353\342\066\051\046\365\332\330\304\362\165\141\317\176\256 $$$ \166\143\112\172\100\145\223\207\370\036\200\214\206\345\206\326 \217\016\374\123\054\140\350\026\141\032\242\076\103\173\315\071 \140\124\152\365\362\211\046\001\150\203\110\242\063\350\311\004 \221\262\021\064\021\076\352\320\103\031\037\003\223\220\014\377 \121\075\127\364\101\156\341\313\240\276\353\311\143\315\155\314 \344\370\066\252\150\235\355\275\135\227\160\104\015\266\016\065 \334\341\014\135\273\240\121\224\313\176\026\353\021\057\243\222 \105\310\114\161\331\274\311\231\122\127\106\057\120\317\275\065 \151\364\075\025\316\006\245\054\017\076\366\201\272\224\273\303 \273\277\145\170\322\206\171\377\111\073\032\203\014\360\336\170 \354\310\362\115\114\032\336\202\051\370\301\132\332\355\356\346 $\\ \\ 047\\136\\350\\105\\320\\235\\034\\121\\250\\150\\253\\104\\343\\320\\213\\152$ \343\370\073\273\334\115\327\144\362\121\276\346\252\253\132\351 $\label{eq:condition} $$ \061\356\006\274\163\277\023\142\012\237\307\271\227 $$$

END

CKA_NSS_MOZILLA_CA_POLICY

CK BBOOL CK TRUE

CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

```
# Trust for "Buypass Class 3 Root CA"
# Issuer: CN=Buypass Class 3 Root CA,O=Buypass AS-983163327,C=NO
# Serial Number: 2 (0x2)
# Subject: CN=Buypass Class 3 Root CA,O=Buypass AS-983163327,C=NO
# Not Valid Before: Tue Oct 26 08:28:58 2010
# Not Valid After: Fri Oct 26 08:28:58 2040
# Fingerprint (SHA-256):
ED:F7:EB:BC:A2:7A:2A:38:4D:38:7B:7D:40:10:C6:66:E2:ED:B4:84:3E:4C:29:B4:AE:1D:5B:93:32:E6:B2:4D
# Fingerprint (SHA1): DA:FA:F7:FA:66:84:EC:06:8F:14:50:BD:C7:C2:81:A5:BC:A9:64:57
CKA CLASS CK OBJECT CLASS CKO NSS TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA MODIFIABLE CK BBOOL CK FALSE
CKA_LABEL UTF8 "Buypass Class 3 Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\332\372\367\372\146\204\354\006\217\024\120\275\307\302\201\245
\274\251\144\127
END
CKA_CERT_MD5_HASH
MULTILINE_OCTAL
\075\073\030\236\054\144\132\350\325\210\316\016\371\067\302\354
END
CKA_ISSUER MULTILINE_OCTAL
\060\116\061\013\060\011\006\003\125\004\006\023\002\116\117\061
\label{eq:condition} $$ \0.03 \0.03 \0.03 \0.03 \0.003 \0.004 \0.012 \0.014 \0.024 \0.021 \0.0165 \0.014 \0.014 \0.014 \0.0165 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014 \0.014
\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:condition} $$ \040\103\154\141\163\163\040\063\040\122\157\157\164\040\103\101 $$
END
CKA SERIAL NUMBER MULTILINE OCTAL
\002\001\002
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA TRUST EMAIL PROTECTION CK TRUST CKT NSS MUST VERIFY TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
# Certificate "T-TeleSec GlobalRoot Class 3"
# Issuer: CN=T-TeleSec GlobalRoot Class 3,OU=T-Systems Trust Center,O=T-Systems Enterprise Services
GmbH,C=DE
# Serial Number: 1 (0x1)
# Subject: CN=T-TeleSec GlobalRoot Class 3,OU=T-Systems Trust Center,O=T-Systems
 Enterprise Services GmbH,C=DE
# Not Valid Before: Wed Oct 01 10:29:56 2008
# Not Valid After: Sat Oct 01 23:59:59 2033
# Fingerprint (SHA-256):
```

FD:73:DA:D3:1C:64:4F:F1:B4:3B:EF:0C:CD:DA:96:71:0B:9C:D9:87:5E:CA:7E:31:70:7A:F3:E9:6D:52:2B:BD # Fingerprint (SHA1): 55:A6:72:3E:CB:F2:EC:CD:C3:23:74:70:19:9D:2A:BE:11:E3:81:D1

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

CKA TOKEN CK BBOOL CK TRUE

CKA PRIVATE CK BBOOL CK FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA LABEL UTF8 "T-TeleSec GlobalRoot Class 3"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL

 $\label{eq:condition} $$ \000\201\202\061\013\060\0011\006\003\125\004\012\125\004\006\023\002\104\105\\ \001\053\060\051\006\003\125\004\012\014\042\124\055\123\171\163\\ \164\145\162\166\151\143\145\163\040\107\155\142\110\061\037\060\\ \035\006\003\125\004\013\014\026\124\055\123\171\163\164\145\155\\ \163\040\124\162\165\163\164\040\103\145\156\164\145\162\061\045\\ \060\043\006\003\125\004\003\014\034\124\055\124\145\154\145\123\\ \145\143\040\107\154\157\142\141\154\122\157\157\164\040\103\154\\ \141\163\163\040\063\\ \end{3}$

END

CKA_ID

UTF8 "0"

CKA ISSUER MULTILINE OCTAL

END

CKA SERIAL NUMBER MULTILINE OCTAL

\002\001\001

END

CKA VALUE MULTILINE OCTAL

\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 $\label{eq:local_$ \110\061\037\060\035\006\003\125\004\013\014\026\124\055\123\171 \163\164\145\155\163\040\124\162\165\163\164\040\103\145\156\164 \145\162\061\045\060\043\006\003\125\004\003\014\034\124\055\124 $\\ 145 \\ 154 \\ 145 \\ 123 \\ 145 \\ 143 \\ 040 \\ 107 \\ 154 \\ 157 \\ 142 \\ 141 \\ 154 \\ 122 \\ 157 \\ 157 \\$ \164\040\103\154\141\163\163\040\063\060\202\001\042\060\015\006 \011\052\206\110\206\367\015\001\001\001\005\000\003\202\001\017 $\label{eq:condition} $$ \000\060\202\001\012\002\202\001\001\000\275\165\223\360\142\042 $$$ \157\044\256\340\172\166\254\175\275\331\044\325\270\267\374\315 \360\102\340\353\170\210\126\136\233\232\124\035\115\014\212\366 \323\317\160\364\122\265\330\223\004\343\106\206\161\101\112\053 \360\052\054\125\003\326\110\303\340\071\070\355\362\134\074\077 \104\274\223\075\141\253\116\315\015\276\360\040\047\130\016\104 $\label{eq:condition} $$ \frac{177}004\\032\\207\\245\\327\\226\\024\\066\\220\\320\\111\\173\\241\\165\\373$ \032\153\163\261\370\316\251\011\054\362\123\325\303\024\104\270 \206\245\366\213\053\071\332\243\063\124\331\372\162\032\367\042 $\label{eq:condition} $$ \025\034\210\221\153\177\146\345\303\152\200\260\044\363\337\206$ \105\210\375\031\177\165\207\037\037\261\033\012\163\044\133\271 \145\340\054\124\310\140\323\146\027\077\341\314\124\063\163\221 $\label{eq:condition} $$ \002\072\246\177\173\166\071\242\037\226\266\070\256\265\310\223 $$$ \164\035\236\271\264\345\140\235\057\126\321\340\353\136\133\114 \022\160\014\154\104\040\253\021\330\364\031\366\322\234\122\067 \347\372\266\302\061\073\112\324\024\231\255\307\032\365\135\137 \372\007\270\174\015\037\326\203\036\263\002\003\001\000\001\243 \102\060\100\060\017\006\003\125\035\023\001\001\377\004\005\060 \003\001\001\377\060\016\006\003\125\035\017\001\001\377\004\004 \003\002\001\006\060\035\006\003\125\035\016\004\026\004\024\265 $\label{eq:condition} $$ \003\367\166\073\141\202\152\022\252\030\123\353\003\041\224\277 $$$ \376\316\312\060\015\006\011\052\206\110\206\367\015\001\001\013 \005\000\003\202\001\001\000\126\075\357\224\325\275\332\163\262 \130\276\256\220\255\230\047\227\376\001\261\260\122\000\270\115 \344\033\041\164\033\176\300\356\136\151\052\045\257\134\326\035 \332\322\171\311\363\227\051\340\206\207\336\004\131\017\361\131 \324\144\205\113\231\257\045\004\036\311\106\251\227\336\202\262 $\label{eq:condition} $$ \033\160\237\234\366\257\161\061\335\173\005\245\054\323\271\312$ \107\366\312\362\366\347\255\271\110\077\274\026\267\301\155\364 \352\011\257\354\363\265\347\005\236\246\036\212\123\121\326\223 \201\314\164\223\366\271\332\246\045\005\164\171\132\176\100\076 \202\113\046\021\060\156\341\077\101\307\107\000\065\325\365\323 \367\124\076\201\075\332\111\152\232\263\357\020\075\346\353\157 \321\310\042\107\313\314\317\001\061\222\331\030\343\042\276\011 $\label{eq:condition} $$ \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 $\verb| | 321| 106| 232| 073| 074| 170| 270| 157| 241| 320| 015| 144| 242| 170| 036| 051|$

\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:condition} $$ \frac{125}246\frac{313}{362}\frac{354}{315}\frac{303}{043}\frac{164}{160}\frac{31}{235}\frac{276}{052}$$

\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

 $\label{eq:condition} $$ \060\201\202\061\013\060\011\006\003\125\004\006\023\002\104\105$

 $\label{eq:condition} $$ \061\053\060\051\006\003\125\004\012\014\042\124\055\123\171\163$

\164\145\155\163\040\105\156\164\145\162\160\162\151\163\145\040

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

 $\label{eq:condition} $$ \006\003\125\004\013\014\026\124\055\123\171\163\164\145\155$$

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

 $\\ 145 \\ 143 \\ 040 \\ 107 \\ 154 \\ 157 \\ 142 \\ 141 \\ 154 \\ 122 \\ 157 \\ 157 \\ 164 \\ 040 \\ 103 \\ 154 \\$

\141\163\163\040\063

END

CKA_SERIAL_NUMBER

MULTILINE_OCTAL

002001001

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 "D-TRUST Root Class 3 CA 2 2009"
# Issuer: CN=D-TRUST Root Class 3 CA 2 2009,O=D-Trust GmbH,C=DE
# Serial Number: 623603 (0x983f3)
# Subject: CN=D-TRUST Root Class 3 CA 2 2009,O=D-Trust GmbH,C=DE
# Not Valid Before: Thu Nov 05 08:35:58 2009
# Not Valid After: Mon Nov 05 08:35:58
2029
# Fingerprint (SHA-256):
49:E7:A4:42:AC:F0:EA:62:87:05:00:54:B5:25:64:B6:50:E4:F4:9E:42:E3:48:D6:AA:38:E0:39:E9:57:B1:C1
# Fingerprint (SHA1): 58:E8:AB:B0:36:15:33:FB:80:F7:9B:1B:6D:29:D3:FF:8D:5F:00:F0
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA TOKEN CK BBOOL CK TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA MODIFIABLE CK BBOOL CK FALSE
CKA LABEL UTF8 "D-TRUST Root Class 3 CA 2 2009"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA SUBJECT MULTILINE OCTAL
\060\115\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\025\060\023\006\003\125\004\012\014\014\104\055\124\162\165\163
\164\040\107\155\142\110\061\047\060\045\006\003\125\004\003\014
\036\104\055\124\122\125\123\124\040\122\157\157\164\040\103\154
\141\163\163\040\063\040\103\101\040\062\040\062\060\060\071
END
CKA ID UTF8 "0"
CKA ISSUER MULTILINE OCTAL
\060\115\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\164\040\107\155\142\110\061\047\060\045\006\003\125\004\003\014
\036\104\055\124\122\125\123\124\040\122\157\157\164\040\103\154
\141\163\163\040\063\040\103\101\040\062\040\062\060\060\071
END
CKA SERIAL NUMBER
MULTILINE OCTAL
\002\003\011\203\363
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\063\060\202\003\033\240\003\002\001\002\002\003\011
\203\363\060\015\006\011\052\206\110\206\367\015\001\001\013\005
\000\060\115\061\013\060\011\006\003\125\004\006\023\002\104\105
\061\025\060\023\006\003\125\004\012\014\014\104\055\124\162\165
\163\164\040\107\155\142\110\061\047\060\045\006\003\125\004\003
\014\036\104\055\124\122\125\123\124\040\122\157\157\164\040\103
```

\154\141\163\163\040\063\040\103\101\040\062\040\062\060\060\071\\060\036\027\015\060\071\061\061\060\065\060\070\063\065\070

\132\027\015\062\071\061\061\060\065\060\070\063\065\065\070\132 \060\115\061\013\060\011\006\003\125\004\006\023\002\104\105\061 \025\060\023\006\003\125\004\012\014\014\104\055\124\162\165\163 \164\040\107\155\142\110\061\047\060\045\006\003\125\004\003\014 \036\104\055\124\122\125\123\124\040\122\157\157\164\040\103\154 \141\163\163\040\063\040\103\101\040\062\040\062\060\060\071\060 \202\001\042\060\015\006\011\052\206\110\206\367\015\001\001\001 \005\000\003\202\001\017\000\060\202\001\012\002\202\001\001\000 \323\262\112\317\172\107\357\165\233\043\372\072\057\326\120\105 \211\065\072\306\153\333\376\333\000\150\250\340\003\021\035\067 \120\010\237\115\112\150\224\065\263\123\321\224\143\247\040\126 $\verb|\|257|336|121|170|354|052|075|363|110|110|120|076|012|337|106|125|$ \213\047\155\303\020\115\015\221\122\103\330\207\340\135\116\066 \265\041\312\137\071\100\004\137\133\176\314\243\306\053\251\100 $\label{eq:condition} $$ \036\331\066\204\326\110\363\222\036\064\106\040\044\301\244\121 $$$ \216\112\032\357\120\077\151\135\031\177\105\303\307\001\217\121 \311\043\350\162\256\264\274\126\011\177\022\313\034\261\257\051 \220\012\311\125\314\017\323\264\032\355\107\065\132\112\355\234 \163\004\041\320\252\275\014\023\265\000\312\046\154\304\153\014 \224\132\225\224\332\120\232\361\377\245\053\146\061\244\311\070 \240\337\035\037\270\011\056\363\247\350\147\122\253\225\037\340 \106\076\330\244\303\312\132\305\061\200\350\110\232\237\224\151 \376\031\335\330\163\174\201\312\226\336\216\355\263\062\005\145 \204\064\346\346\375\127\020\265\137\166\277\057\260\020\015\305 \002\003\001\000\001\243\202\001\032\060\202\001\026\060\017\006 $\\ \\003\\125\\035\\023\\001\\001\\377\\004\\005\\060\\003\\001\\001\\377\\060\\035$ \006\003\125\035\016\004\026\004\024\375\332\024\304\237\060\336 $\\ \langle 041 \rangle 275 \rangle 036 \rangle 102 \rangle 071 \rangle 374 \rangle 253 \rangle 143 \rangle 043 \rangle 111 \rangle 340 \rangle 361 \rangle 204 \rangle 060 \rangle 016 \rangle 006$ \003\125\035\017\001\001\377\004\004\003\002\001\006\060\201\323 \006\003\125\035\037\004\201\313\060\201\310\060\201\200\240\176 $\label{eq:condition} $$ \240\174\206\172\154\144\141\160\072\057\057\144\151\162\145\143$$ \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\060\071\054\117 \075\104\055\124\162\165\163\164\045\062\060\107\155\142\110\054 \103\075\104\105\077\143\145\162\164\151\146\151\143\141\164\145 \162\145\166\157\143\141\164\151\157\156\154\151\163\164\060\103 \240\101\240\077\206\075\150\164\164\160\072\057\057\167\167\167 \056\144\055\164\162\165\163\164\056\156\145\164\057\143\162\154 \057\144\055\164\162\165\163\164\137\162\157\157\164\137\143\154 \141\163\163\137\063\137\143\141\137\062\137\062\060\060\071\056 \143\162\154\060\015\006\011\052\206\110\206\367\015\001\001\013 \005\000\003\202\001\001\000\177\227\333\060\310\337\244\234\175 $\label{eq:condition} $$ \041\172\200\160\316\024\022\151\210\024\225\140\104\001\254\262$ \351\060\117\233\120\302\146\330\176\215\060\265\160\061\351\342 \151\307\363\160\333\040\025\206\320\015\360\276\254\001\165\204 \316\176\237\115\277\267\140\073\234\363\312\035\342\136\150\330 $\label{eq:control_control_control_control_control} $$ \243\25\27\345\100\140\322\066\041\376\320\264\270\027\332\164 \243\177\324\337\260\230\002\254\157\153\153\054\045\044\162\241 \145\356\045\132\346\062\347\362\337\253\111\372\363\220\151 \043\333\004\331\347\134\130\374\145\324\227\276\314\374\056\012 \314\045\052\065\004\370\140\221\025\165\075\101\377\043\037\031 \310\154\353\202\123\004\246\344\114\042\115\215\214\272\316\133 \163\354\144\124\120\155\321\234\125\373\151\303\066\303\214\274 \074\205\246\153\012\046\015\340\223\230\140\256\176\306\044\227 \212\141\137\221\216\146\222\011\207\066\315\213\233\055\076\366 \121\324\120\324\131\050\275\203\362\314\050\173\123\206\155\330 \046\210\160\327\352\221\315\076\271\312\300\220\156\132\306\136 \164\145\327\134\376\243\342$

END

CKA_NSS_MOZILLA_CA_POLICY

CK_BBOOL CK_TRUE

CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

- # Trust for "D-TRUST Root Class 3 CA 2 2009"
- # Issuer: CN=D-TRUST Root Class 3 CA 2 2009,O=D-Trust GmbH,C=DE
- # Serial Number: 623603 (0x983f3)
- # Subject: CN=D-TRUST Root Class 3 CA 2 2009,O=D-Trust GmbH,C=DE
- # Not Valid Before:

Thu Nov 05 08:35:58 2009

- # Not Valid After: Mon Nov 05 08:35:58 2029
- # Fingerprint (SHA-256):
- 49:E7:A4:42:AC:F0:EA:62:87:05:00:54:B5:25:64:B6:50:E4:F4:9E:42:E3:48:D6:AA:38:E0:39:E9:57:B1:C1
- # Fingerprint (SHA1): 58:E8:AB:B0:36:15:33:FB:80:F7:9B:1B:6D:29:D3:FF:8D:5F:00:F0

CKA CLASS CK OBJECT CLASS CKO NSS TRUST

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

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

CKA_CERT_SHA1_HASH MULTILINE_OCTAL

 $\label{eq:condition} $$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

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

END

CKA_ISSUER MULTILINE_OCTAL

 $\label{eq:condition} $$ \000115\061\013\060\011\006\003\125\004\006\023\002\104\105\061\025\060\023\006\003\125\004\012\014\014\104\055\124\162\165\163\164\040\107\155\142\110\061\047\060\045\006\003\125\004\003\014\036\104\055\124\122\125\123\124\040\122\157\157\164\040\103\154\141\163\163\040\063\040\103\101\040\062\040\062\060\060\071$

END

CKA_SERIAL_NUMBER

```
MULTILINE OCTAL
\002\003\011\203\363
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA TRUST STEP UP APPROVED CK BBOOL CK FALSE
#
# Certificate "D-TRUST Root Class 3 CA 2 EV 2009"
# Issuer: CN=D-TRUST Root Class 3 CA 2 EV 2009,O=D-Trust GmbH,C=DE
# Serial Number: 623604 (0x983f4)
# Subject: CN=D-TRUST Root Class 3 CA 2 EV 2009,O=D-Trust GmbH,C=DE
# Not Valid Before: Thu Nov 05 08:50:46 2009
# Not Valid After: Mon Nov 05 08:50:46 2029
# Fingerprint (SHA-256):
EE:C5:49:6B:98:8C:E9:86:25:B9:34:09:2E:EC:29:08:BE:D0:B0:F3:16:C2:D4:73:0C:84:EA:F1:F3:D3:48:81
# Fingerprint (SHA1): 96:C9:1B:0B:95:B4:10:98:42:FA:D0:D8:22:79:FE:60:FA:B9:16:83
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA TOKEN CK BBOOL CK TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA LABEL UTF8 "D-TRUST Root Class 3 CA
2 EV 2009"
CKA CERTIFICATE TYPE CK CERTIFICATE TYPE CKC X 509
CKA SUBJECT MULTILINE OCTAL
\label{eq:condition} $$ \060\120\061\013\060\011\006\003\125\004\006\023\002\104\105\061 $$
\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
\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

 $\label{eq:condition} $$ \060\202\004\103\060\202\003\053\240\003\002\001\002\002\003\011 $$$

\203\364\060\015\006\011\052\206\110\206\367\015\001\001\013\005 \000\060\120\061\013\060\011\006\003\125\004\006\023\002\104\105 \061\025\060\023\006\003\125\004\012\014\014\104\055\124\162\165 \163\164\040\107\155\142\110\061\052\060\050\006\003\125\004\003 \014\041\104\055\124\122\125\123\124\040\122\157\157\164\040\103 \154\141\163\163\040\063\040\103\101\040\062\040\105\126\040\062 \060\060\071\060\036\027\015\060\071\061\061\060\065\060\070\065 \060\064\066\132\027\015\062\071\061\061\060\065\060\070\065\060 \064\066\132\060\120\061\013\060\011\006\003\125\004\006\023\002 \104\105\061\025\060\023\006\003\125\004\012\014\014\104\055\124 $\\ \\004\\ \\003\\ \\014\\ \\041\\ \\104\\ \\055\\ \\124\\ \\122\\ \\125\\ \\123\\ \\124\\ \\040\\ \\122\\ \\157\\ \\157\\ \\164$ \040\103\154\141\163\163\040\063\040\103\101\040\062\040\105\126 $\label{eq:condition} $$ \0.060\0.060\0.071\0.60\2.02\0.01\0.42\0.60\0.15\0.06\0.11\0.52\2.06\1.10 $$$ $\label{eq:condition} $$ \206\367\015\001\001\001\005\000\003\202\001\017\000\060\202\001 $$$ \012\002\202\001\001\000\231\361\204\064\160\272\057\267\060\240 $\label{eq:condition} $$ \216\275\174\004\317\276\142\274\231\375\202\227\322\172\012\147$ \226\070\011\366\020\116\225\042\163\231\215\332\025\055\347\005 \374\031\163\042\267\216\230\000\274\074\075\254\241\154\373\326 \171\045\113\255\360\314\144\332\210\076\051\270\017\011\323\064 \335\063\365\142\321\341\315\031\351\356\030\117\114\130\256\342 \036\326\014\133\025\132\330\072\270\304\030\144\036\343\063\262 $\label{eq:condition} $$ \265\211\167\116\014\277\331\224\153\023\227\157\022\243\376\231 $$$ \251\004\314\025\354\140\150\066\355\010\173\267\365\277\223\355 $\label{eq:condition} $$ 146\061\203\214\306\161\064\207\116\027\352\257\213\221\215\034$$ \126\101\256\042\067\136\067\362\035\331\321\055\015\057\151\121 \247\276\146\246\212\072\052\275\307\032\261\341\024\360\276\072 $\label{eq:condition} $$ \035\271\317\133\261\152\376\264\261\106\040\242\373\036\073\160 $$$ \357\223\230\175\214\163\226\362\305\357\205\160\255\051\046\374 \036\004\076\034\240\330\017\313\122\203\142\174\356\213\123\225 $\label{eq:condition} $$ \220\251\127\242\352\141\005\330\371\115\304\047\372\156\255\355$$ \371\327\121\367\153\245\002\003\001\000\001\243\202\001\044\060 \202\001\040\060\017\006\003\125\035\023\001\001\377\004\005\060 \003\001\001\377\060\035\006\003\125\035\016\004\026\004\024\323 \224\212\114\142\023\052\031\056\314\257\162\212\175\066\327\232 \034\334\147\060\016\006\003\125\035\017\001\001\377\004\004\003 \002\001\006\060\201\335\006\003\125\035\037\004\201\325\060\201 $\label{eq:condition} $$ 322\060\201\207\240\201\204\240\201\201\206\177\154\144\141\160 $$$ $\\ \begin{tabular}{l} $0.072 \\ 0.057 \\ 0.057 \\ 1.44 \\ 1.51 \\ 1.62 \\ 1.45 \\ 1.43 \\ 1.64 \\ 1.57 \\ 1.62 \\ 1.71 \\ 0.56 \\ 1.44 \\ 0.55 \\ 1.64 \\ 1.57 \\ 1.62 \\ 1.71 \\ 0.56 \\ 1.44 \\ 0.55 \\ 1.64 \\ 1.57 \\ 1.62 \\ 1.71 \\ 0.56 \\ 1.44 \\ 0.55 \\ 1.64 \\ 1.57 \\ 1.62 \\ 1.71 \\ 0.56 \\ 1.44 \\ 0.55 \\ 1.64 \\ 1.57 \\ 1.62 \\ 1.71 \\ 1.62 \\ 1.6$ \162\165\163\164\056\156\145\164\057\103\116\075\104\055\124\122 \125\123\124\045\062\060\122\157\157\164\045\062\060\103\154\141 \163\163\045\062\060\063\045\062\060\103\101\045\062\060\062\045 \062\060\105\126\045\062\060\062\060\060\071\054\117\075\104\055 \124\162\165\163\164\045\062\060\107\155\142\110\054\103\075\104 \105\077\143\145\162\164\151\146\151\143\141\164\145\162\145\166 \157\143\141\164\151\157\156\154\151\163\164\060\106\240\104\240 \102\206\100\150\164\164\160\072\057\057\167\167\167\056\144\055 \164\162\165\163\164\056\156\145\164\057\143\162\154\057\144\055

\164\162\165\163\164\137\162\157\157\164\137\143\154\141\163\163 \137\063\137\143\141\137\062\137\145\166\137\062\060\060\071\056 \143\162\154\060\015\006\011\052\206\110\206\367\015\001\001\013 $\label{eq:condition} $$ \005\000\003\202\001\000\064\355\173\132\074\244\224\210\357$ \032\021\165\007\057\263\376\074\372\036\121\046\353\207\366\051 \336\340\361\324\306\044\011\351\301\317\125\033\264\060\331\316 \032\376\006\121\246\025\244\055\357\262\113\277\040\050\045\111 \321\246\066\167\064\350\144\337\122\261\021\307\163\172\315\071 \236\302\255\214\161\041\362\132\153\257\337\074\116\125\257\262 \204\145\024\211\271\167\313\052\061\276\317\243\155\317\157\110 \224\062\106\157\347\161\214\240\246\204\031\067\007\362\003\105 $\label{eq:condition} $$ \011\053\206\165\174\337\137\151\127\000\333\156\330\246\162\042 $$$ \113\120\324\165\230\126\337\267\030\377\103\103\120\256\172\104 $\label{eq:condition} $$ \frac{360}171\121\327\103\075\247\323\201\323\360\311\117\271\332}$ \306\227\206\320\202\303\344\102\155\376\260\342\144\116\016\046 \347\100\064\046\265\010\211\327\010\143\143\070\047\165\036\063 \352\156\250\335\237\231\117\164\115\201\211\200\113\335\232\227 \051\134\057\276\201\101\271\214\377\352\175\140\006\236\315\327 \075\323\056\243\025\274\250\346\046\345\157\303\334\270\003\041 \352\237\026\361\054\124\265

END

CKA_NSS_MOZILLA_CA_POLICY

CK_BBOOL CK_TRUE

CKA_NSS_SERVER_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:condition} $$ \226\311\033\013\225\264\020\230\102\372\320\330\042\171\376\140 $$$

\372\271\026\203

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL

 $\label{eq:condition} $$ \252\306\103\054\136\055\315\304\064\300\120\117\021\002\117\266$$

END

```
CKA ISSUER MULTILINE OCTAL
\060\120\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\025\060\023\006\003\125\004\012\014\014\104\055\124\162\165\163
\164\040\107\155\142\110\061\052\060\050\006\003\125\004\003\014
\041\104\055\124\122\125\123\124\040\122\157\157\164\040\103\154
\141\163\163\040\063\040\103\101\040\062\040\105\126\040\062\060
\060\071
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\003\011\203\364
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA TRUST EMAIL PROTECTION CK TRUST CKT NSS MUST VERIFY TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED
 CK BBOOL CK FALSE
# Certificate "CA Disig Root R2"
# Issuer: CN=CA Disig Root R2,O=Disig a.s.,L=Bratislava,C=SK
# Serial Number:00:92:b8:88:db:b0:8a:c1:63
# Subject: CN=CA Disig Root R2,O=Disig a.s.,L=Bratislava,C=SK
# Not Valid Before: Thu Jul 19 09:15:30 2012
# Not Valid After: Sat Jul 19 09:15:30 2042
# Fingerprint (SHA-256):
E2:3D:4A:03:6D:7B:70:E9:F5:95:B1:42:20:79:D2:B9:1E:DF:BB:1F:B6:51:A0:63:3E:AA:8A:9D:C5:F8:07:03
# Fingerprint (SHA1): B5:61:EB:EA:A4:DE:E4:25:4B:69:1A:98:A5:57:47:C2:34:C7:D9:71
CKA CLASS CK OBJECT CLASS CKO CERTIFICATE
CKA TOKEN CK BBOOL CK TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA MODIFIABLE CK BBOOL CK FALSE
CKA LABEL UTF8 "CA Disig Root R2"
CKA CERTIFICATE TYPE CK CERTIFICATE TYPE CKC X 509
CKA SUBJECT MULTILINE OCTAL
\060\122\061\013\060\011\006\003\125\004\006\023\002\123\113\061
\023\060\021\006\003\125\004\007\023\012\102\162\141\164\151\163
\154\141\166\141\061\023\060\021\006\003\125\004\012\023\012\104
\151\163\151\147\040\141\056\163\056\061\031\060\027\006\003\125
\\ \\004\\ \\003\\ \\023\\ \\020\\ \\103\\ \\101\\ \\040\\ \\104\\ \\104\\ \\151\\ \\163\\ \\151\\ \\147\\ \\040\\ \\122\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\157\\ \\1
\164\040\122\062
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\122\061\013\060\011\006\003\125\004\006\023\002\123\113\061
\023\060\021\006\003\125\004\007\023\012\102\162\141\164\151\163
```

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

\151\163\151\147\040\141\056\163\056\061\031\060\027\006\003\125 \004\003\023\020\103\101\040\104\151\163\151\147\040\122\157\157 \164\040\122\062

END

CKA SERIAL NUMBER MULTILINE OCTAL

 $\label{eq:condition} $$ \002\011\000\222\270\210\333\260\212\301\143$$

END

CKA VALUE MULTILINE OCTAL

 $\label{eq:condition} $$ \060\202\005\151\060\202\003\121\240\003\002\001\002\002\011\000 $$$ \222\270\210\333\260\212\301\143\060\015\006\011\052\206\110\206 $\label{eq:condition} $$ \367\015\001\001\013\005\000\060\122\061\013\060\011\006\003\125$$ \012\102\162\141\164\151\163\154\141\166\141\061\023\060\021\006 $\label{eq:condition} $$ \003\125\004\012\023\012\104\151\163\151\147\040\141\056\163\056$$ $\label{eq:condition} $$ \001\031\060\027\006\003\125\004\003\023\020\103\101\040\104\151 $$$ \163\151\147\040\122\157\157\164\040\122\062\060\036\027\015\061 $\label{eq:condition} $$ \062\060\067\061\071\060\071\061\065\063\060\132\027\015\064\062$ \060\067\061\071\060\071\061\065\063\060\132\060\122\061\013\060 \011\006\003\125\004\006\023\002\123\113\061\023\060\021\006\003 \023\060\021\006\003\125\004\012\023\012\104\151\163\151\147\040 \141\056\163\056\061\031\060\027\006\003\125\004\003\023\020\103 $\label{eq:condition} $$ 101\040\104\151\163\151\147\040\122\157\157\164\040\122\062\060$$ \202\002\042\060\015\006\011\052\206\110\206\367\015\001\001\001 \242\243\304\000\011\326\205\135\055\155\024\366\302\303\163\236 \065\302\161\125\176\201\373\253\106\120\340\301\174\111\170\346 $\verb| 253| 171| 130| 074| 332| 377| 174| 034| 237| 330| 227| 002| 170| 076| 153| 101|$ \004\351\101\275\276\003\054\105\366\057\144\324\253\135\243\107 \075\144\233\351\150\232\306\314\033\077\272\276\262\213\064\002 $\label{eq:condition} $$ \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 $\label{eq:condition} $$ 372\267\023\240\230\267\021\053\267\326\127\314\174\236\027\321 $$ $\label{eq:condition} $$ 313\045\376\206\116\044\056\126\014\170\115\236\001\022\246\053$ \247\001\145\156\174\142\035\204\204\337\352\300\153\265\245\052 \225\203\303\123\021\014\163\035\013\262\106\220\321\102\072\316 \100\156\225\255\377\306\224\255\156\227\204\216\175\157\236\212 \200\015\111\155\163\342\173\222\036\303\363\301\363\353\056\005 \157\331\033\317\067\166\004\310\264\132\344\027\247\313\335\166 \037\320\031\166\350\054\005\263\326\234\064\330\226\334\141\207 \221\005\344\104\010\063\301\332\271\010\145\324\256\262\066\015 \353\272\070\272\014\345\233\236\353\215\146\335\231\317\326\211 \101\366\004\222\212\051\051\155\153\072\034\347\165\175\002\161

\016\363\300\347\275\313\031\335\235\140\262\302\146\140\266\261 \004\356\311\346\206\271\232\146\100\250\347\021\355\201\105\003 \213\366\147\131\350\301\006\021\275\335\317\200\002\117\145\100 \170\134\107\120\310\233\346\037\201\173\344\104\250\133\205\232 \342\336\132\325\307\371\072\104\146\113\344\062\124\174\344\154 $\verb| 234| 263| 016| 075| 027| 242| 262| 064| 022| 326| 176| 262| 250| 111| 273| 321|$ \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 $\label{eq:condition} $$ \256\245\102\127\174\066\021\214\173\136\304\003\235\214\171\235$ \002\003\001\000\001\243\102\060\100\060\017\006\003\125\035\023 $\label{eq:condition} $$ \001\001\377\004\005\060\003\001\001\377\060\016\006\003\125\035 $$$ \016\004\026\004\024\265\231\370\257\260\224\365\343\040\326\012 \255\316\116\126\244\056\156\102\355\060\015\006\011\052\206\110 \206\367\015\001\001\013\005\000\003\202\002\001\000\046\006\136 \160\347\145\063\310\202\156\331\234\027\072\033\172\146\262\001 $\label{eq:condition} $$ \366\170\073\151\136\057\352\377\116\371\050\303\230\052\141\114$ \264\044\022\212\175\155\021\024\367\234\265\312\346\274\236\047 \216\114\031\310\251\275\172\300\327\066\016\155\205\162\156\250 $\label{eq:condition} $$ \306\242\155\366\372\163\143\177\274\156\171\010\034\235\212\237 $$$ \032\212\123\246\330\273\331\065\125\261\021\305\251\003\263\126 $\label{eq:condition} $$ \073\271\204\223\042\136\176\301\366\022\122\213\352\054\147\274$ $\label{eq:condition} $$ 376\066\114\365\270\317\321\263\111\222\073\323\051\016\231\033$ \226\367\141\270\073\304\053\266\170\154\264\043\157\360\375\323 \262\136\165\037\231\225\250\254\366\332\341\305\061\173\373\321 \106\263\322\274\147\264\142\124\272\011\367\143\260\223\242\232 \371\351\122\056\213\140\022\253\374\365\140\126\357\020\134\213 $\label{eq:condition} $$ 304\032\102\334\203\133\144\016\313\265\274\326\117\301\174\074$ \156\215\023\155\373\173\353\060\320\334\115\257\305\325\266\245 \114\133\161\311\350\061\276\350\070\006\110\241\032\342\352\322 \357\377\070\361\230\161\304\267\177\016\025\320\045\151\275\042 \235\053\355\005\366\106\107\254\355\300\360\324\073\342\354\356 \226\133\220\023\116\036\126\072\353\260\357\226\273\226\043\021 \272\362\103\206\164\144\225\310\050\165\337\035\065\272\322\067 \203\070\123\070\066\073\317\154\351\371\153\016\320\373\004\350 \117\167\327\145\001\170\206\014\172\076\041\142\361\177\143\161 $\label{eq:condition} $$ \014\311\237\104\333\250\047\242\165\276\156\201\076\327\300\353$ $\label{eq:condition} $$ \033\230\017\160\134\064\262\212\314\300\205\030\353\156\172\263$ \367\132\241\007\277\251\102\222\363\140\042\227\344\024\241\007 \233\116\166\300\216\175\375\244\045\307\107\355\377\037\163\254 \314\303\245\351\157\012\216\233\145\302\120\205\265\243\240\123 $\label{eq:condition} $$ \022\314\125\207\141\363\201\256\020\106\141\275\104\041\270\302$ \075\164\317\176\044\065\372\034\007\016\233\075\042\312\357\061 $\label{eq:condition} $$ \057\214\254\022\275\357\100\050\374\051\147\237\262\023\117\146 $$$ \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):
E2:3D:4A:03:6D:7B:70:E9:F5:95:B1:42:20:79:D2:B9:1E:DF:BB:1F:B6:51:A0:63:3E:AA:8A:9D:C5:F8:07:03
# Fingerprint (SHA1): B5:61:EB:EA:A4:DE:E4:25:4B:69:1A:98:A5:57:47:C2:34:C7:D9:71
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA TOKEN CK BBOOL CK TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA MODIFIABLE
CK BBOOL CK FALSE
CKA_LABEL UTF8 "CA Disig Root R2"
CKA CERT SHA1 HASH MULTILINE OCTAL
\265\141\353\352\244\336\344\045\113\151\032\230\245\127\107\302
\064\307\331\161
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\046\001\373\330\047\247\027\232\105\124\070\032\103\001\073\003
END
CKA_ISSUER MULTILINE_OCTAL
\060\122\061\013\060\011\006\003\125\004\006\023\002\123\113\061
\023\060\021\006\003\125\004\007\023\012\102\162\141\164\151\163
\154\141\166\141\061\023\060\021\006\003\125\004\012\023\012\104
\151\163\151\147\040\141\056\163\056\061\031\060\027\006\003\125
\004\003\023\020\103\101\040\104\151\163\151\147\040\122\157\157
\164\040\122\062
END
CKA SERIAL NUMBER MULTILINE OCTAL
\002\011\000\222\270\210\333\260\212\301\143
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
# Certificate "ACCVRAIZ1"
#
#
```

Issuer: C=ES,O=ACCV,OU=PKIACCV,CN=ACCVRAIZ1

Serial Number:5e:c3:b7:a6:43:7f:a4:e0

Subject: C=ES,O=ACCV,OU=PKIACCV,CN=ACCVRAIZ1

Not Valid Before: Thu May 05 09:37:37 2011 # Not Valid After: Tue Dec 31 09:37:37 2030

Fingerprint (SHA-256):

9A:6E:C0:12:E1:A7:DA:9D:BE:34:19:4D:47:8A:D7:C0:DB:18:22:FB:07:1D:F1:29:81:49:6E:D1:04:38:41:13

Fingerprint (SHA1): 93:05:7A:88:15:C6:4F:CE:88:2F:FA:91:16:52:28:78:BC:53:64:17

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA LABEL UTF8 "ACCVRAIZ1"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL

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

\023\002\105\123

END

CKA ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

END

CKA_SERIAL_NUMBER

MULTILINE_OCTAL

 $\label{eq:condition} $$ \002\010\136\303\267\246\103\177\244\340 $$$

END

CKA_VALUE MULTILINE_OCTAL

\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 $\label{eq:condition} $$ \037\265\124\335\025\174\151\065\021\157\273\310\014\216\152\030$$ \036\330\217\331\026\274\020\110\066\134\360\143\263\220\132\134 $\\ \\044\\067\\327\\243\\326\\313\\011\\161\\271\\361\\001\\162\\204\\260\\175\\333$ $\label{eq:condition} $$ \frac{374}323\frac{374}323\frac{370}332\frac{66}{016}202\frac{322}{105}205\frac{50}{250} $$$ \033\150\250\075\350\364\104\154\275\241\302\313\003\276\214\076 $\label{eq:condition} $$ \023\000\204\337\112\110\300\343\042\012\350\351\067\247\030\114$$$ \261\011\015\043\126\177\004\115\331\027\204\030\245\310\332\100 $\verb|\|224|163|353|316|016|127|074|003|201|072|235|012|241|127|103|151|$ \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 $\\ \langle 040 \rangle 017 \rangle 060 \rangle 050 \rangle 124 \rangle 225 \rangle 177 \rangle 340 \rangle 356 \rangle 316 \rangle 012 \rangle 146 \rangle 235 \rangle 321 \rangle 100 \rangle 055$ $\label{eq:condition} $$ \frac{32}{35} \frac{301}{005} \frac{31}{322} \frac{300}{362} \frac{37}{370} \frac{173}{263}$ \002\102\373\120\251\035\055\223\017\043\253\306\301\017\222\377 \320\242\025\365\123\011\161\034\377\105\023\204\346\046\136\370 \340\210\034\012\374\026\266\250\163\006\270\360\143\204\002\240 \306\132\354\347\164\337\160\256\243\203\045\352\326\307\227\207 $\label{eq:condition} $$ \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 $\label{eq:condition} $$ 340\241\045\007\110\253\311\211\164\377\010\217\200\277\300\226$$ \145\363\356\354\113\150\275\235\210\303\061\263\100\361\350\317 \366\070\273\234\344\321\177\324\345\130\233\174\372\324\363\016 \233\165\221\344\272\122\056\031\176\321\365\315\132\031\374\272 \006\366\373\122\250\113\231\004\335\370\371\264\213\120\243\116 \142\211\360\207\044\372\203\102\301\207\372\325\055\051\052\132 \161\172\144\152\327\047\140\143\015\333\316\111\365\215\037\220 \211\062\027\370\163\103\270\322\132\223\206\141\326\341\165\012 $\label{eq:condition} $$ \frac{352}171146166210117161353004045326012132172223345$ \271\113\027\100\017\261\266\271\365\336\117\334\340\263\254\073 \021\160\140\204\112\103\156\231\040\300\051\161\012\300\145\002 \003\001\000\001\243\202\002\313\060\202\002\307\060\175\006\010 $\label{eq:condition} $$ \0.051\0.05\0.05\0.005\0.002\0.002\0.001\0.001\0.005\0.005\0.002\0.002\0.005\0.005\0.005\0.005\0.002\0.005$ \057\167\167\167\056\141\143\143\166\056\145\163\057\146\151\154 \145\141\144\155\151\156\057\101\162\143\150\151\166\157\163\057 $\\ 143 \\ 145 \\ 162 \\ 164 \\ 151 \\ 146 \\ 151 \\ 143 \\ 141 \\ 144 \\ 157 \\ 163 \\ 057 \\ 162 \\ 141 \\ 151 \\ 163 \\ 162 \\ 141 \\ 151 \\ 163 \\ 162 \\ 141 \\ 151 \\ 163 \\ 162 \\ 163 \\ 162 \\ 163 \\ 1$ \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 $\label{eq:condition} $$ \035\016\004\026\004\024\322\207\264\343\337\067\047\223\125\366$$ \126\352\201\345\066\314\214\036\077\275\060\017\006\003\125\035 $\label{eq:condition} $$ \023\001\001\377\004\005\060\003\001\001\377\060\037\006\003\125$$ \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 $\label{eq:condition} $$ \frac{156\000\143\000\151\000\144\000\144\000\145\000\040\000}{144\000\145\000\040\000} $$$ \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 $\label{eq:condition} $$ 164\000\151\000\143\000\141\000\143\000\151\000$ \363\000\156\000\040\000\105\000\154\000\145\000\143\000\164\000 \162\000\363\000\156\000\151\000\143\000\141\000\054\000\040\000 \103\000\111\000\106\000\040\000\121\000\064\000\066\000\060\000 \061\000\061\000\065\000\066\000\105\000\051\000\056\000\040\000 $\label{eq:condition} $$ 103\000\120\000\123\000\040\000\145\000\156\000\040\000\150\000 $$$ \164\000\164\000\160\000\072\000\057\000\057\000\167\000\167\000 \167\000\056\000\141\000\143\000\143\000\166\000\056\000\145\000 $\label{eq:condition} $$ 163\060\006\001\005\005\005\007\002\001\026\044\150 $$$ \164\164\160\072\057\057\167\167\167\056\141\143\143\166\056\145 \163\057\154\145\147\151\163\154\141\143\151\157\156\137\143\056 $\label{eq:condition} $$ \frac{150}{164}\frac{155}{060}\frac{125}{006}\frac{103}{125}\frac{35}{037}\frac{116}{060}\frac{114}{060}\frac{112}{12} $$$ \240\110\240\106\206\104\150\164\164\160\072\057\057\167\167\167 \056\141\143\143\166\056\145\163\057\146\151\154\145\141\144\155 \151\156\057\101\162\143\150\151\166\157\163\057\143\145\162\164 \151\146\151\143\141\144\157\163\057\162\141\151\172\141\143\143 \166\061\137\144\145\162\056\143\162\154\060\016\006\003\125\035 \021\004\020\060\016\201\014\141\143\143\166\100\141\143\143\166 $\label{eq:condition} $$ \056\145\163\060\015\006\011\052\206\110\206\367\015\001\001\005$ \005\000\003\202\002\001\000\227\061\002\237\347\375\103\147\110 \104\024\344\051\207\355\114\050\146\320\217\065\332\115\141\267 \112\227\115\265\333\220\340\005\056\016\306\171\320\362\227\151 \017\275\004\107\331\276\333\265\051\332\233\331\256\251\231\325 \323\074\060\223\365\215\241\250\374\006\215\104\364\312\026\225 \174\063\334\142\213\250\067\370\047\330\011\055\033\357\310\024 $\\ \\ 047\\ \\ 040\\ \\ 251\\ \\ 144\\ \\ 104\\ \\ 377\\ \\ 056\\ \\ 326\\ \\ 165\\ \\ 252\\ \\ 154\\ \\ 115\\ \\ 140\\ \\ 100\\ \\ 031\\ \\ 111\\ \\ 140\\ \\ 100\\ \\ 031\\ \\ 111\\ \\ 140\\ \\ 100\\ \\ 100\\ \\ 111\\ \\ 140\\ \\ 100\\ \\ 100\\ \\ 111\\ \\ 140\\ \\ 100\\ \\ 100\\ \\ 111\\ \\ 140\\ \\ 100\\ \\ 100\\ \\ 111\\ \\ 140\\ \\ 1000\\ \\ 100\\ \\ 100\\ \\ 100\\ \\ 100\\ \\ 100\\ \\ 100\\ \\ 100\\ \\ 100\\ \\ 10$ $\label{eq:condition} $$ 103\124\143\332\342\314\272\146\345\117\104\172\133\331\152\201 $$$ $\label{eq:condition} $$ \053\100\325\177\371\001\047\130\054\310\355\110\221\174\077\246$$ \000\317\304\051\163\021\066\336\206\031\076\235\356\031\212\033 \325\260\355\216\075\234\052\300\015\330\075\146\343\074\015\275 \325\224\134\342\342\247\065\033\004\000\366\077\132\215\352\103 \275\137\211\035\251\301\260\314\231\342\115\000\012\332\311\047 \133\347\023\220\134\344\365\063\242\125\155\334\340\011\115\057 \261\046\133\047\165\000\011\304\142\167\051\010\137\236\131\254 \266\176\255\237\124\060\042\003\301\036\161\144\376\371\070\012 \226\030\335\002\024\254\043\313\006\034\036\244\175\215\015\336

\047\101\350\255\332\025\267\260\043\335\053\250\323\332\045\207 \355\350\125\104\115\210\364\066\176\204\232\170\254\367\016\126 \274\362\160\201\244\160\140\276\005\265\233\236\004\104\276\141 $\label{eq:condition} $$ \043\254\351\245\044\214\021\200\224\132\242\242\271\111\322\301 $$$ \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 $\label{eq:condition} $$ \040\035\335\330\303\047\327\260\371\376\331\175\315\320\237\217 $$$ \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 $\label{eq:condition} $$ 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

 $\label{eq:condition} $$ \223\005\172\210\025\306\117\316\210\057\372\221\026\122\050\170$

 $\verb| |274| 123| 144| 027|$

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL

 $\label{eq:condition} $$ 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
\label{eq:condition} $$ \002\010\136\303\267\246\103\177\244\340 $$
END
CKA TRUST SERVER AUTH CK TRUST CKT NSS TRUSTED DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
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
\label{eq:condition} $$ \060\121\061\013\060\011\006\003\125\004\006\023\002\124\127\061 $$
\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 ID
UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\121\061\013\060\011\006\003\125\004\006\023\002\124\127\061
\055\103\101\061\020\060\016\006\003\125\004\013\023\007\122\157
\157\164\040\103\101\061\034\060\032\006\003\125\004\003\023\023
\124\127\103\101\040\107\154\157\142\141\154\040\122\157\157\164
\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
```

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 $\label{eq:condition} $$ \060\121\061\013\060\011\006\003\125\004\006\023\002\124\127\061 $$$ \022\060\020\006\003\125\004\012\023\011\124\101\111\127\101\116 \055\103\101\061\020\060\016\006\003\125\004\013\023\007\122\157 \157\164\040\103\101\061\034\060\032\006\003\125\004\003\023\023 \124\127\103\101\040\107\154\157\142\141\154\040\122\157\157\164 \040\103\101\060\036\027\015\061\062\060\066\062\067\060\066\062 \065\071\132\060\121\061\013\060\011\006\003\125\004\006\023\002 \124\127\061\022\060\020\006\003\125\004\012\023\011\124\101\111 $\label{eq:condition} $$ \frac{127}{101}\frac{116}{055}\frac{103}{101}\frac{061}{020}\frac{060}{016}\frac{006}{003}\frac{125}{004}\frac{013}{023} $$$ \007\122\157\157\164\040\103\101\061\034\060\032\006\003\125\004 $\\ \\003\\023\\023\\124\\127\\103\\101\\040\\107\\154\\157\\142\\141\\154\\040\\122$ \157\157\164\040\103\101\060\202\002\042\060\015\006\011\052\206 \110\206\367\015\001\001\001\005\000\003\202\002\017\000\060\202 $\label{eq:condition} $$ \002\01\002\001\000\260\005\333\310\353\214\304\156\212 $$$ \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 $\label{eq:condition} $$ \061\137\205\002\227\354\103\063\012\123\322\234\214\216\267\270 $$$ \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 $\label{eq:condition} $$ \071\065\122\072\050\203\370\173\026\306\030\270\142\326\107\045 $$$ \221\316\360\031\022\115\255\143\365\323\077\165\137\051\360\241 $\label{eq:condition} $$ \060\034\052\240\230\246\025\275\356\375\031\066\360\342\221\103$ \217\372\312\326\020\047\111\114\357\335\301\361\205\160\233\312 \352\250\132\103\374\155\206\157\163\351\067\105\251\360\066\307 $\label{eq:condition} $$ \frac{314}{210}165 \cdot 036 \cdot 273 \cdot 154 \cdot 006 \cdot 377 \cdot 233 \cdot 153 \cdot 076 \cdot 027 \cdot 354 \cdot 141 \cdot 252 \cdot 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 $\\ \\ \langle 046 \rangle 143 \rangle 141 \rangle 066 \rangle 116 \rangle 243 \rangle 106 \rangle 267 \rangle 077 \rangle 175 \rangle 263 \rangle 055 \rangle 254 \rangle 155 \rangle 220 \rangle 242$ \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 \377\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000 $\label{eq:condition} $$ \003\202\002\001\000\137\064\201\166\357\226\035\325\345\265\331 $$$ $\label{eq:condition} $$ \002\143\204\026\301\256\240\160\121\247\367\114\107\065\310\013$ \327\050\075\211\161\331\252\063\101\352\024\033\154\041\000\300 \154\102\031\176\237\151\133\040\102\337\242\322\332\304\174\227 \113\215\260\350\254\310\356\245\151\004\231\012\222\246\253\047 \056\032\115\201\277\204\324\160\036\255\107\376\375\112\235\063 \340\362\271\304\105\010\041\012\332\151\151\163\162\015\276\064 \376\224\213\255\303\036\065\327\242\203\357\345\070\307\245\205 \037\253\317\064\354\077\050\376\014\361\127\206\116\311\125\367 $\label{eq:condition} $$ \034\324\330\245\175\006\172\157\325\337\020\337\201\116\041\145$$$ \261\266\341\027\171\225\105\006\316\137\314\334\106\211\143\150 \104\215\223\364\144\160\240\075\235\050\005\303\071\160\270\142 \173\040\375\344\333\351\010\241\270\236\075\011\307\117\373\054 \370\223\166\101\336\122\340\341\127\322\235\003\274\167\236\376 \236\051\136\367\301\121\140\037\336\332\013\262\055\165\267\103 $\label{eq:condition} $$ \frac{110}{223}\frac{347}{366}\frac{171}{306}\frac{204}{135}\frac{131}{140}\frac{224}{374}\frac{170}{230}\frac{217}{130} $$$ \074\223\121\355\100\220\007\337\144\143\044\313\116\161\005\241 \327\224\032\210\062\361\042\164\042\256\245\246\330\022\151\114 \140\243\002\356\053\354\324\143\222\013\136\276\057\166\153\243 \266\046\274\217\003\330\012\362\114\144\106\275\071\142\345\226 $\label{eq:condition} $$ \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 $\label{eq:condition} $$ \frac{311}014\frac{277}317022\frac{216}027055043\frac{150}{224}\frac{347}253\frac{376}251262$ \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

```
# 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
{\tt CKA\_CLASS\ CK\_OBJECT\_CLASS\ 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
\label{eq:condition} $$ \022\060\020\006\003\125\004\012\023\011\124\101\111\127\101\116
\055\103\101\061\020\060\016\006\003\125\004\013\023\007\122\157
\157\164\040\103\101\061\034\060\032\006\003\125\004\003\023\023
\124\127\103\101\040\107\154\157\142\141\154\040\122\157\157\164
\040\103\101
END
CKA SERIAL NUMBER MULTILINE OCTAL
\002\002\014\276
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA TRUST CODE SIGNING CK TRUST CKT NSS MUST VERIFY TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
# Certificate "TeliaSonera Root CA v1"
# Issuer: CN=TeliaSonera Root CA v1,O=TeliaSonera
# Serial Number:00:95:be:16:a0:f7:2e:46:f1:7b:39:82:72:fa:8b:cd:96
# Subject: CN=TeliaSonera Root CA v1,O=TeliaSonera
#
Not Valid Before: Thu Oct 18 12:00:50 2007
# Not Valid After: Mon Oct 18 12:00:50 2032
# Fingerprint (SHA-256):
DD:69:36:FE:21:F8:F0:77:C1:23:A1:A5:21:C1:22:24:F7:22:55:B7:3E:03:A7:26:06:93:E8:A2:4B:0F:A3:89
# Fingerprint (SHA1): 43:13:BB:96:F1:D5:86:9B:C1:4E:6A:92:F6:CF:F6:34:69:87:82:37
```

Serial Number: 3262 (0xcbe)

CKA CLASS CK OBJECT CLASS CKO CERTIFICATE

CKA TOKEN CK BBOOL CK TRUE

CKA PRIVATE CK BBOOL CK FALSE

CKA MODIFIABLE CK BBOOL CK FALSE

CKA LABEL UTF8 "TeliaSonera Root CA v1"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA SUBJECT MULTILINE OCTAL

END

CKA ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

END

CKA_SERIAL_NUMBER

MULTILINE OCTAL

\002\021\000\225\276\026\240\367\056\106\361\173\071\202\162\372 \213\315\226

END

CKA_VALUE MULTILINE_OCTAL

\060\202\005\070\060\202\003\040\240\003\002\001\002\002\002\001 \225\276\026\240\367\056\106\361\173\071\202\162\372\213\315\226 $\label{eq:condition} $$ \006\011\052\206\110\206\367\015\001\001\005\005\000\060 $$$ \067\061\024\060\022\006\003\125\004\012\014\013\124\145\154\151 \141\123\157\156\145\162\141\061\037\060\035\006\003\125\004\003 $\label{eq:condition} $$ \014\026\124\145\154\151\141\123\157\156\145\162\141\040\122\157 $$$ \157\164\040\103\101\040\166\061\060\036\027\015\060\067\061\060 \061\070\061\062\060\060\065\060\132\027\015\063\062\061\060\061 \070\061\062\060\060\065\060\132\060\067\061\024\060\022\006\003 \125\004\012\014\013\124\145\154\151\141\123\157\156\145\162\141 \061\037\060\035\006\003\125\004\003\014\026\124\145\154\151\141 \123\157\156\145\162\141\040\122\157\157\164\040\103\101\040\166 \061\060\202\002\042\060\015\006\011\052\206\110\206\367\015\001 $\label{eq:condition} $$ \001\001\005\000\003\202\002\017\000\060\202\002\012\002\202\002$ \001\000\302\276\353\047\360\041\243\363\151\046\125\176\235\305 \125\026\221\134\375\357\041\277\123\200\172\055\322\221\214\143 \061\360\354\044\360\303\245\322\162\174\020\155\364\067\267\345 \346\174\171\352\214\265\202\213\256\110\266\254\000\334\145\165 \354\052\115\137\301\207\365\040\145\053\201\250\107\076\211\043 \225\060\026\220\177\350\127\007\110\347\031\256\277\105\147\261 \067\033\006\052\376\336\371\254\175\203\373\136\272\344\217\227 \147\276\113\216\215\144\007\127\070\125\151\064\066\075\023\110 \357\117\342\323\146\036\244\317\032\267\136\066\063\324\264\006

\275\030\001\375\167\204\120\000\105\365\214\135\350\043\274\176 \376\065\341\355\120\173\251\060\215\031\323\011\216\150\147\135 \277\074\227\030\123\273\051\142\305\312\136\162\301\307\226\324 \333\055\240\264\037\151\003\354\352\342\120\361\014\074\360\254 \363\123\055\360\034\365\355\154\071\071\163\200\026\310\122\260 $\label{eq:condition} $$ \043\315\340\076\334\335\074\107\240\273\065\212\342\230\150\213$ \276\345\277\162\356\322\372\245\355\022\355\374\230\030\251\046 \166\334\050\113\020\040\034\323\177\026\167\055\355\157\200\367 $\label{eq:condition} $$ \frac{111}273\frac{005}273\frac{35}{150}\frac{307}{324}\frac{10}{165}\frac{026}{077}\frac{11}{132}\frac{213}{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 $\label{eq:condition} $$ \066\263\067\137\143\143\233\063\024\360\055\046\153\123\174\211 $$$ \214\062\302\156\354\075\041\000\071\311\241\150\342\120\203\056 $\label{eq:condition} $$ \260\072\053\363\066\240\254\057\344\157\141\302\121\011\071\076$ \213\123\271\273\147\332\334\123\271\166\131\066\235\103\345\040 \340\075\062\140\205\042\121\267\307\063\273\335\025\057\244\170 \246\007\173\201\106\066\004\206\335\171\065\307\225\054\073\260 \243\027\065\345\163\037\264\134\131\357\332\352\020\145\173\172 \320\177\237\263\264\052\067\073\160\213\233\133\271\053\267\354 $\label{eq:condition} $$ \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 $\label{eq:condition} $$ \frac{331}{325}\frac{372}{150}170 $$ \065\115\002\003\001\000\001\243\077\060\075\060\017\006\003\125 \035\023\001\001\377\004\005\060\003\001\001\377\060\013\006\003 \125\035\017\004\004\003\002\001\006\060\035\006\003\125\035\016 \004\026\004\024\360\217\131\070\000\263\365\217\232\226\014\325 $\label{eq:condition} $$ \frac{353}{372}173\frac{252}{027}\frac{350}{023}\frac{022}{060}\frac{015}{006}\frac{011}{052}\frac{206}{110}\frac{206}{206} $$$ \367\015\001\001\005\005\000\003\202\002\001\000\276\344\134\142 \116\044\364\014\010\377\360\323\014\150\344\223\111\042\077\104 $\\047\\157\\273\\155\\336\\203\\146\\316\\250\\314\\015\\374\\365\\232\\006\\345$ \167\024\221\353\235\101\173\231\052\204\345\377\374\041\301\135 \360\344\037\127\267\165\251\241\137\002\046\377\327\307\367\116 \336\117\370\367\034\106\300\172\117\100\054\042\065\360\031\261 \320\153\147\054\260\250\340\300\100\067\065\366\204\134\134\343 \257\102\170\376\247\311\015\120\352\015\204\166\366\121\357\203 \123\306\172\377\016\126\111\056\217\172\326\014\346\047\124\343 \115\012\140\162\142\315\221\007\326\245\277\310\231\153\355\304 $\label{eq:condition} $$ \031\346\253\114\021\070\305\157\061\342\156\111\310\077\166\200 $$$ \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:condition} $$ \073\051\103\106\136\227\053\124\316\123\157\215\112\347\226\372 $$$ \277\161\016\102\213\174\375\050\240\320\110\312\332\304\201\114

\273\242\163\223\046\310\353\014\326\046\210\266\300\044\317\273 \275\133\353\165\175\351\010\216\206\063\054\171\167\011\151\245 \211\374\263\160\220\207\166\217\323\042\273\102\316\275\163\013 $\label{eq:condition} $$ \040\046\052\320\233\075\160\036\044\154\315\207\166\251\027\226$$ \267\317\015\222\373\216\030\251\230\111\321\236\376\140\104\162 \041\271\031\355\302\365\061\361\071\110\210\220\044\165\124\026 \255\316\364\370\151\024\144\071\373\243\270\272\160\100\307\047 \034\277\304\126\123\372\143\145\320\363\034\016\026\365\153\206 \130\115\030\324\344\015\216\245\235\133\221\334\166\044\120\077 \306\052\373\331\267\234\265\326\346\320\331\350\031\213\025\161 \110\255\267\352\330\131\210\324\220\277\026\263\331\351\254\131 $\\ 141\\124\\310\\034\\272\\312\\301\\312\\341\\271\\040\\114\\217\\072\\223\\211$ \245\240\314\277\323\366\165\244\165\226\155\126 **END** CKA_NSS_MOZILLA_CA_POLICY CK BBOOL CK TRUE CKA_NSS_SERVER_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 \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

CKA_SERIAL_NUMBER MULTILINE_OCTAL

END

```
\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 "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:condition} $$ \060\201\202\061\013\060\011\006\003\125\004\006\023\002\104\105
\061\053\060\051\006\003\125\004\012\014\042\124\055\123\171\163
\164\145\155\163\040\105\156\164\145\162\160\162\151\163\145\040
\123\145\162\166\151\143\145\163\040\107\155\142\110\061\037\060
\label{eq:condition} $$ \006\003\125\004\013\014\026\124\055\123\171\163\164\145\155$
\163\040\124\162\165\163\164\040\103\145\156\164\145\162\061\045
\060\043\006\003\125\004\003\014\034\124\055\124\145\154\145\123
\\ 145\\143\\040\\107\\154\\157\\142\\141\\154\\122\\157\\157\\164\\040\\103\\154
\141\163\163\040\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\202\061\013\060\011\006\003\125\004\006\023\002\104\105
\061\053\060\051\006\003\125\004\012\014\042\124\055\123\171\163
\164\145\155\163\040\105\156\164\145\162\160\162\151\163\145\040
\123\145\162\166\151\143\145\163\040\107\155\142\110\061\037\060
\035\006\003\125\004\013\014\026\124\055\123\171\163\164\145\155
\label{eq:condition} $$ 163\040\124\162\165\163\164\040\103\145\156\164\145\162\061\045
```

\060\043\006\003\125\004\003\014\034\124\055\124\145\154\145\123 \145\143\040\107\154\157\142\141\154\122\157\157\164\040\103\154 \141\163\163\040\062

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL \002\001\001

END

CKA_VALUE MULTILINE_OCTAL

\060\202\003\303\060\202\002\253\240\003\002\001\002\002\001\001 $\label{eq:condition} $$ \006\011\052\206\110\206\367\015\001\001\013\005\000\060$$$ \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 $\label{eq:condition} $$ \frac{145}{162}\frac{160}{151}\frac{143}{145}\frac{163}{040}\frac{107}{155}\frac{142}{110}\frac{061}{037}\frac{060}{035} $$$ \006\003\125\004\013\014\026\124\055\123\171\163\164\145\155\163 $\label{eq:condition} $$ \040\124\162\165\163\164\040\103\145\156\164\145\162\061\045\060$$$ \043\006\003\125\004\003\014\034\124\055\124\145\154\145\123\145 \143\040\107\154\157\142\141\154\122\157\157\164\040\103\154\141 \163\163\040\062\060\036\027\015\060\070\061\060\060\061\061\060 \064\060\061\064\132\027\015\063\063\061\060\060\061\062\063\065 \071\065\071\132\060\201\202\061\013\060\011\006\003\125\004\006 $\label{eq:condition} $$ \023\002\104\105\061\053\060\051\006\003\125\004\012\014\042\124$ \055\123\171\163\164\145\155\163\040\105\156\164\145\162\160\162 \151\163\145\040\123\145\162\166\151\143\145\163\040\107\155\142 \110\061\037\060\035\006\003\125\004\013\014\026\124\055\123\171 \163\164\145\155\163\040\124\162\165\163\164\040\103\145\156\164 \145\154\145\123\145\143\040\107\154\157\142\141\154\122\157\157 \164\040\103\154\141\163\163\040\062\060\202\001\042\060\015\006 $\label{eq:condition} $$ \011\052\206\110\206\367\015\001\001\001\005\000\003\202\001\017 $$$ \000\060\202\001\012\002\202\001\001\000\252\137\332\033\137\350 \163\221\345\332\134\364\242\346\107\345\363\150\125\140\005\035 \002\244\263\233\131\363\036\212\257\064\255\374\015\302\331\110 \031\356\151\217\311\040\374\041\252\007\031\355\260\134\254\145 \307\137\355\002\174\173\174\055\033\326\272\271\200\302\030\202 \026\204\372\146\260\010\306\124\043\201\344\315\271\111\077\366 $\label{eq:condition} $$ \frac{117}{156}067\frac{110}{050}070\frac{017}{305}276\frac{347}{150}\frac{160}{375}071\frac{227}{115}$ $\label{eq:condition} $$ 322\307\230\221\120\252\304\104\263\043\175\071\107\351\122\142$ \326\022\223\136\267\061\226\102\005\373\166\247\036\243\365\302 \374\351\172\305\154\251\161\117\352\313\170\274\140\257\307\336 \364\331\313\276\176\063\245\156\224\203\360\064\372\041\253\352 \216\162\240\077\244\336\060\133\357\206\115\152\225\133\103\104 \250\020\025\034\345\001\127\305\230\361\346\006\050\221\252\040 $\label{eq:condition} $$ 305 \times 267 \times 123 \times 46 \times 121 \times 103 \times 262 \times 130 \times 1225 \times 130 \times 141 \times 100 \times 171 \times 166 \times 331 \times 1200 \times 120 \times 1200 \times$ \300\215\174\201\363\162\160\236\157\376\032\216\331\137\065\306 \262\157\064\174\276\110\117\342\132\071\327\330\235\170\236\237 \206\076\003\136\031\213\104\242\325\307\002\003\001\000\001\243

\102\060\100\060\017\006\003\125\035\023\001\001\377\004\005\060 \003\001\001\377\060\016\006\003\125\035\017\001\001\377\004\004 $\label{eq:condition} $$ \003\002\001\006\060\035\006\003\125\035\016\004\026\004\024\277 $$$ \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 $\label{eq:condition} $$ \005\000\003\202\001\001\000\061\003\242\141\013\037\164\350\162 $$$ \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 $\label{eq:condition} $$ \001\142\051\242\246\047\161\346\072\042\176\301\157\035\225\160$$$ \040\112\007\064\337\352\377\025\200\345\272\327\172\330\133\165 $\label{eq:condition} $$ \frac{174 \cdot 005 \cdot 172 \cdot 051 \cdot 107 \cdot 176 \cdot 100 \cdot 250 \cdot 061 \cdot 023 \cdot 167 \cdot 315 \cdot 100 \cdot 073 \cdot 264 \cdot 121}{174 \cdot 005 \cdot 172 \cdot 051 \cdot 107 \cdot 176 \cdot 100 \cdot 250 \cdot 061 \cdot 023 \cdot 167 \cdot 315 \cdot 100 \cdot 073 \cdot 264 \cdot 121} $$$ $\label{eq:condition} $$ 107\172\056\021\343\107\021\336\235\146\320\213\325\124\146\372$ \203\125\352\174\302\051\211\033\351\157\263\316\342\005\204\311 $\label{eq:condition} $$ \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

 ${\tt CKA_NSS_SERVER_DISTRUST_AFTER\ CK_BBOOL\ CK_FALSE\ CKA_NSS_EMAIL_DISTRUST_AFTER\ CK_BBOOL\ CK_FALSE\ }$

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
\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
\label{eq:condition} $$ \004\003\125\004\003\014\034\124\055\124\145\154\145\123 $$
\145\143\040\107\154\157\142\141\154\122\157\157\164\040\103\154
\141\163\163\040\062
END
CKA SERIAL NUMBER MULTILINE OCTAL
\002\001\001
END
CKA_TRUST_SERVER_AUTH
CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA TRUST EMAIL PROTECTION CK TRUST CKT NSS TRUSTED DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
# Certificate "Atos TrustedRoot 2011"
# Issuer: C=DE,O=Atos,CN=Atos TrustedRoot 2011
# Serial Number:5c:33:cb:62:2c:5f:b3:32
# Subject: C=DE,O=Atos,CN=Atos TrustedRoot 2011
# Not Valid Before: Thu Jul 07 14:58:30 2011
# Not Valid After: Tue Dec 31 23:59:59 2030
# Fingerprint (SHA-256):
F3:56:BE:A2:44:B7:A9:1E:B3:5D:53:CA:9A:D7:86:4A:CE:01:8E:2D:35:D5:F8:F9:6D:DF:68:A6:F4:1A:A4:74
# Fingerprint (SHA1): 2B:B1:F5:3E:55:0C:1D:C5:F1:D4:E6:B7:6A:46:4B:55:06:02:AC:21
CKA CLASS CK OBJECT CLASS CKO CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Atos TrustedRoot 2011"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\074\061\036\060\034\006\003\125\004\003\014\025\101\164\157
\163\040\124\162\165\163\164\145\144\122\157\157\164\040\062\060
```

\061\061\061\015\060\013\006\003\125\004\012\014\004\101\164\157

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

END CKA_ID

UTF8 "0"

CKA ISSUER MULTILINE OCTAL

END

CKA SERIAL NUMBER MULTILINE OCTAL

\002\010\134\063\313\142\054\137\263\062

END

CKA VALUE MULTILINE OCTAL

 $\label{eq:condition} $$ \060\202\003\167\060\202\002\137\240\003\002\001\002\002\010\134 $$$ \063\313\142\054\137\263\062\060\015\006\011\052\206\110\206\367 $\label{eq:condition} $$ \003\014\025\101\164\157\163\040\124\162\165\163\164\145\144\122 $$$ \157\157\164\040\062\060\061\061\061\015\060\013\006\003\125\004 \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 $\label{eq:condition} $$ \071\065\071\132\060\074\061\036\060\034\006\003\125\004\003\014 $$$ \025\101\164\157\163\040\124\162\165\163\164\145\144\122\157\157 \164\040\062\060\061\061\061\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 $\verb|251|125|045|127|333|261|120|366|260|140|144|131|172|151|317|003|$ \267\157\015\276\312\076\157\164\162\352\252\060\052\163\142\276 \111\221\141\310\021\376\016\003\052\367\152\040\334\002\025\015 \136\025\152\374\343\202\301\265\305\235\144\011\154\243\131\230 \007\047\307\033\226\053\141\164\161\154\103\361\367\065\211\020 \340\236\354\125\241\067\042\242\207\004\005\054\107\175\264\034 \271\142\051\146\050\312\267\341\223\365\244\224\003\231\271\160 $\label{eq:condition} $$ \205\265\346\110\352\215\120\374\331\336\314\157\007\016\335\013$ $\label{eq:condition} $$ 162\235\200\060\026\007\225\077\050\016\375\305\165\117\123\326$$ \164\232\264\044\056\216\002\221\317\166\305\233\036\125\164\234 \170\041\261\360\055\361\013\237\302\325\226\030\037\360\124\042 \172\214\007\002\003\001\000\001\243\175\060\173\060\035\006\003 \125\035\016\004\026\004\024\247\245\006\261\054\246\011\140\356 \321\227\351\160\256\274\073\031\154\333\041\060\017\006\003\125 $\label{eq:condition} $$ \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 $\label{eq:condition} $$ \frac{110}{206}052\\101\\235\\054\\076\\006\\220\\140\\304\\214\\254\\013\\124\\270$ $\label{eq:condition} $$ \037\271\173\323\007\071\344\372\076\173\262\075\116\355\237\043$ \275\227\363\153\134\357\356\375\100\246\337\241\223\241\012\206 \254\357\040\320\171\001\275\170\367\031\330\044\061\064\004\001 \246\272\025\232\303\047\334\330\117\017\314\030\143\377\231\017 \016\221\153\165\026\341\041\374\330\046\307\107\267\246\317\130 \162\161\176\272\341\115\225\107\073\311\257\155\241\264\301\354 \211\366\264\017\070\265\342\144\334\045\317\246\333\353\232\134 \231\241\305\010\336\375\346\332\325\326\132\105\014\304\267\302 \265\024\357\264\021\377\016\025\265\365\365\333\306\275\353\132 \247\360\126\042\251\074\145\124\306\025\250\275\206\236\315\203 $\label{eq:condition} $$ \226\150\172\161\201\211\341\013\341\352\021\033\150\010\314\151 $$$ \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

 $\label{eq:condition} $$ \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

 $\label{eq:condition} $$ \256\271\304\062\113\254\177\135\146\314\167\224\273\052\167\126$$

END

CKA_ISSUER MULTILINE_OCTAL

```
\060\074\061\036\060\034\006\003\125\004\003\014\025\101\164\157
\163\040\124\162\165\163\164\145\144\122\157\157\164\040\062\060
\061\061\061\015\060\013\006\003\125\004\012\014\004\101\164\157
\163\061\013\060\011\006\003\125\004\006\023\002\104\105
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\134\063\313\142\054\137\263\062
END
{\tt CKA\_TRUST\_SERVER\_AUTH\ CK\_TRUST\ CKT\_NSS\_TRUSTED\_DELEGATOR}
CKA TRUST EMAIL PROTECTION CK TRUST CKT NSS TRUSTED DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
# Certificate "QuoVadis Root CA 1 G3"
# Issuer: CN=QuoVadis Root CA 1 G3,O=QuoVadis Limited,C=BM
# Serial Number: 78:58:5f:2e:ad:2c:19:4b:e3:37:07:35:34:13:28:b5:96:d4:65:93
Subject: CN=QuoVadis Root CA 1 G3,O=QuoVadis Limited,C=BM
# Not Valid Before: Thu Jan 12 17:27:44 2012
# Not Valid After: Sun Jan 12 17:27:44 2042
# Fingerprint (SHA-256):
8A:86:6F:D1:B2:76:B5:7E:57:8E:92:1C:65:82:8A:2B:ED:58:E9:F2:F2:88:05:41:34:B7:F1:F4:BF:C9:CC:74
# Fingerprint (SHA1): 1B:8E:EA:57:96:29:1A:C9:39:EA:B8:0A:81:1A:73:73:C0:93:79:67
CKA CLASS CK OBJECT CLASS CKO CERTIFICATE
CKA TOKEN CK BBOOL CK TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA MODIFIABLE CK BBOOL CK FALSE
CKA LABEL UTF8 "QuoVadis Root CA 1 G3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA SUBJECT MULTILINE OCTAL
\060\110\061\013\060\011\006\003\125\004\006\023\002\102\115\061
\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144
\151\163\040\114\151\155\151\164\145\144\061\036\060\034\006\003
\125\004\003\023\025\121\165\157\126\141\144\151\163\040\122\157
\157\164\040\103\101\040\061\040\107\063
END
CKA ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\110\061\013\060\011\006\003\125\004\006\023\002\102\115\061
\label{eq:condition} $$ \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

 $\label{eq:condition} $$ \002\024\170\130\137\056\255\054\031\113\343\067\007\065\064\023\050\265\226\324\145\223$

END

CKA VALUE MULTILINE OCTAL

 $\label{eq:condition} $$ \0.060\202\005\140\060\202\003\110\240\003\002\001\002\002\002\170$ \130\137\056\255\054\031\113\343\067\007\065\064\023\050\265\226 $\label{eq:condition} $\324\145\223\060\015\006\011\052\206\110\206\367\015\001\001\013$ $\label{eq:condition} $$ \005\000\060\110\061\013\060\011\006\003\125\004\006\023\002\102 $$$ \115\061\031\060\027\006\003\125\004\012\023\020\121\165\157\126 \141\144\151\163\040\114\151\155\151\164\145\144\061\036\060\034 $\label{eq:condition} $$ \006\003\125\004\003\023\025\121\165\157\126\141\144\151\163\040 $$$ \122\157\157\164\040\103\101\040\061\040\107\063\060\036\027\015 $\label{eq:condition} $$ \061\062\060\061\062\060\064\064\132\027\015\064$$$ $\label{eq:condition} $$ \062\061\061\062\061\062\067\064\064\132\060\110\061\013$$ \060\011\006\003\125\004\006\023\002\102\115\061\031\060\027\006 $\label{eq:condition} $$ \003\125\004\012\023\020\121\165\157\126\141\144\151\163\040\114 $$$ \151\155\151\164\145\144\061\036\060\034\006\003\125\004\003\023 \025\121\165\157\126\141\144\151\163\040\122\157\157\164\040\103 $\label{eq:condition} $$ 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 $\verb| 264| 004| 234| 205| 271| 061| 312| 334| 055| 344| 021| 251| 004| 074| 033| 125|$ \301\347\130\060\035\044\264\303\357\205\336\214\054\341\301\075 $\label{eq:condition} $$ 37\202\346\117\255\107\207\154\354\133\111\301\112\325\273\217 $$$ \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 $\label{eq:condition} $$ \002\106\257\244\034\343\370\163\130\166\267\366\016\220\015\265$$ \360\317\314\372\371\306\114\345\303\206\060\012\215\027\176\065 \353\305\337\273\016\234\300\215\207\343\210\070\205\147\372\076 \307\253\340\023\234\005\030\230\317\223\365\261\222\264\374\043 \323\317\325\304\047\111\340\236\074\233\010\243\213\135\052\041 \340\374\071\252\123\332\175\176\317\032\011\123\274\135\005\004 \317\241\112\217\213\166\202\015\241\370\322\307\024\167\133\220 \066\007\201\233\076\006\372\122\136\143\305\246\000\376\245\351 \122\033\122\265\222\071\162\003\011\142\275\260\140\026\156\246 \335\045\302\003\146\335\363\004\321\100\342\116\213\206\364\157 \345\203\240\047\204\136\004\301\365\220\275\060\075\304\357\250 $\label{eq:condition} $$ \frac{151}{274}070\\233\\244\\244\\226\\321\\142\\332\\151\\300\\001\\226\\256\\313$ $\label{eq:condition} $$ 304\121\064\352\014\252\377\041\216\131\217\112\134\344\141\232$ \247\322\351\052\170\215\121\075\072\025\356\242\131\216\251\134 \336\305\371\220\042\345\210\105\161\335\221\231\154\172\237\075 \075\230\174\136\366\276\026\150\240\136\256\013\043\374\132\017 \252\042\166\055\311\241\020\035\344\323\104\043\220\210\237\306 \052\346\327\365\232\263\130\036\057\060\211\010\033\124\242\265 \230\043\354\010\167\034\225\135\141\321\313\211\234\137\242\112 \221\232\357\041\252\111\026\010\250\275\141\050\061\311\164\255 \205\366\331\305\261\213\321\345\020\062\115\137\213\040\072\074

\111\037\063\205\131\015\333\313\011\165\103\151\163\373\153\161 \175\360\337\304\114\175\306\243\056\310\225\171\313\163\242\216 \116\115\044\373\136\344\004\276\162\033\246\047\055\111\132\231 $\label{eq:condition} $$ \frac{327}134\\011\\040\\267\\177\\224\\271\\117\\361\\015\\034\\136\\210\\102$ \033\021\267\347\221\333\236\154\364\152\337\214\006\230\003\255 \314\050\357\245\107\363\123\002\003\001\000\001\243\102\060\100 \060\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001 \377\060\016\006\003\125\035\017\001\001\377\004\004\003\002\001 $\label{eq:condition} $$ \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 $\label{eq:condition} $$ \006\011\052\206\110\206\367\015\001\001\013\005\000\003$ $\label{eq:condition} $$ \202\001\000\030\372\133\165\374\076\172\307\137\167\307\312 $$$ \337\317\137\303\022\304\100\135\324\062\252\270\152\327\325\025 $\label{eq:condition} $$ \025\106\230\043\245\346\220\133\030\231\114\343\255\102\243\202$ $\label{eq:condition} $$ \061\066\210\315\351\373\304\004\226\110\213\001\307\215\001\317 $$$ \133\063\006\226\106\146\164\035\117\355\301\266\271\264\015\141 $\label{eq:condition} $$ \frac{314}143\frac{327}056\frac{167}214\frac{226}034\sqrt{052}043\frac{150}{153}\frac{205}{127}\frac{166}{167} $$$ \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 $\label{eq:condition} $$ \frac{151}146\303\033\217\376\354\076\323\312\224\277\166\012\045\015}$ \251\173\002\034\251\320\073\137\013\300\201\072\075\144\341\277 \247\055\116\275\115\304\330\051\306\042\030\320\305\254\162\002 $\label{eq:condition} $$ \202\077\252\072\242\072\042\227\061\335\010\143\303\165\024\271 $$$ \140\050\055\133\150\340\026\251\146\202\043\121\365\353\123\330 $\label{eq:condition} $$ \061\233\173\351\267\235\113\353\210\026\317\371\135\070\212\111$ \060\217\355\361\353\031\364\167\032\061\030\115\147\124\154\057 \157\145\371\333\075\354\041\354\136\364\364\213\312\140\145\124 \321\161\144\364\371\246\243\201\063\066\063\161\360\244\170\137 \116\255\203\041\336\064\111\215\350\131\254\235\362\166\132\066 \362\023\364\257\340\011\307\141\052\154\367\340\235\256\273\206 \112\050\157\056\356\264\171\315\220\063\303\263\166\372\365\360 \154\235\001\220\372\236\220\366\234\162\317\107\332\303\037\344 \065\040\123\362\124\321\337\141\203\246\002\342\045\070\336\205 \062\055\136\163\220\122\135\102\304\316\075\113\341\371\031\204 \035\325\242\120\314\101\373\101\024\303\275\326\311\132\243\143 \146\002\200\275\005\072\073\107\234\354\000\046\114\365\210\121 \277\250\043\177\030\007\260\013\355\213\046\241\144\323\141\112 \353\134\237\336\263\257\147\003\263\037\335\155\135\151\150\151 \253\136\072\354\174\151\274\307\073\205\116\236\025\271\264\025 \117\303\225\172\130\327\311\154\351\154\271\363\051\143\136\264 \054\360\055\075\355\132\145\340\251\133\100\302\110\231\201\155 \236\037\006\052\074\022\264\213\017\233\242\044\360\246\215\326 \172\340\113\266\144\226\143\225\204\302\112\315\034\056\044\207 \063\140\345\303

END

CKA_NSS_MOZILLA_CA_POLICY

CK_BBOOL CK_TRUE

CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE

```
# Trust for "QuoVadis Root CA 1 G3"
# Issuer: CN=QuoVadis Root CA 1 G3,O=QuoVadis Limited,C=BM
# Serial Number:78:58:5f:2e:ad:2c:19:4b:e3:37:07:35:34:13:28:b5:96:d4:65:93
# Subject: CN=QuoVadis Root CA 1 G3,O=QuoVadis Limited,C=BM
# Not Valid Before: Thu Jan 12 17:27:44 2012
# Not Valid After: Sun Jan 12 17:27:44 2042
# Fingerprint (SHA-256):
8A:86:6F:D1:B2:76:B5:7E:57:8E:92:1C:65:82:8A:2B:ED:58:E9:F2:F2:88:05:41:34:B7:F1:F4:BF:C9:CC:74
# Fingerprint (SHA1): 1B:8E:EA:57:96:29:1A:C9:39:EA:B8:0A:81:1A:73:73:C0:93:79:67
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA TOKEN CK BBOOL CK TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA LABEL UTF8 "QuoVadis Root CA 1 G3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\033\216\352\127\226\051\032\311\071\352\270\012\201\032\163\163
\300\223\171\147
END
CKA CERT MD5 HASH
MULTILINE_OCTAL
\244\274\133\077\376\067\232\372\144\360\342\372\005\075\013\253
END
CKA_ISSUER MULTILINE_OCTAL
\060\110\061\013\060\011\006\003\125\004\006\023\002\102\115\061
\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144
\151\163\040\114\151\155\151\164\145\144\061\036\060\034\006\003
\125\004\003\023\025\121\165\157\126\141\144\151\163\040\122\157
\157\164\040\103\101\040\061\040\107\063
END
CKA SERIAL NUMBER MULTILINE OCTAL
\002\024\170\130\137\056\255\054\031\113\343\067\007\065\064\023
\050\265\226\324\145\223
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA TRUST EMAIL PROTECTION CK TRUST CKT NSS TRUSTED DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
# Certificate "QuoVadis Root CA 2 G3"
# Issuer: CN=QuoVadis Root CA 2 G3,O=QuoVadis Limited,C=BM
# Serial Number:44:57:34:24:5b:81:89:9b:35:f2:ce:b8:2b:3b:5b:a7:26:f0:75:28
# Subject: CN=QuoVadis Root CA 2 G3,O=QuoVadis Limited,C=BM
#
```

Not Valid Before: Thu Jan 12 18:59:32 2012 # Not Valid After: Sun Jan 12 18:59:32 2042

Fingerprint (SHA-256):

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

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

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

CKA TOKEN CK BBOOL CK TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA LABEL UTF8 "QuoVadis Root CA 2 G3"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL

 $\label{eq:condition} $$ \00110061013060011006003125004006023002102\\115061 \031060027\\006003\\125004\\012\\023\\020\\121\\165\\157\\126\\141\\144\\151\\163\\040\\122\\157 \157\\164\\040\\103\\101\\040\\062\\040\\107\\063$

END

CKA ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

 $\label{eq:condition} $$ \000110061013\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\134\006\003\125\004\003\023\025\121\165\157\126\141\144\151\163\040\122\157\157\164\040\103\101\040\062\040\107\063$

END

CKA SERIAL NUMBER

MULTILINE_OCTAL

\002\024\104\127\064\044\133\201\211\233\065\362\316\270\053\073 \133\247\046\360\165\050

END

CKA_VALUE MULTILINE_OCTAL

\060\202\005\140\060\202\003\110\240\003\002\001\002\002\002\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 $\label{eq:condition} $$ \006\003\125\004\003\023\025\121\165\157\126\141\144\151\163\040 $$$ \122\157\157\164\040\103\101\040\062\040\107\063\060\036\027\015 \061\062\060\061\061\062\061\070\065\071\063\062\132\027\015\064 \062\060\061\061\062\061\070\065\071\063\062\132\060\110\061\013 \060\011\006\003\125\004\006\023\002\102\115\061\031\060\027\006 \003\125\004\012\023\020\121\165\157\126\141\144\151\163\040\114 \151\155\151\164\145\144\061\036\060\034\006\003\125\004\003\023 \025\121\165\157\126\141\144\151\163\040\122\157\157\164\040\103 \101\040\062\040\107\063\060\202\002\042\060\015\006\011\052\206 \110\206\367\015\001\001\001\005\000\003\202\002\017\000\060\202

\002\012\002\202\002\001\000\241\256\045\262\001\030\334\127\210 \077\106\353\371\257\342\353\043\161\342\232\321\141\146\041\137 \252\257\047\121\345\156\033\026\324\055\175\120\260\123\167\275 \170\072\140\342\144\002\233\174\206\233\326\032\216\255\377\037 \025\177\325\225\036\022\313\346\024\204\004\301\337\066\263\026 \237\212\343\311\333\230\064\316\330\063\027\050\106\374\247\311 \360\322\264\325\115\011\162\111\371\362\207\343\251\332\175\241 \175\153\262\072\045\251\155\122\104\254\370\276\156\373\334\246 \163\221\220\141\246\003\024\040\362\347\207\243\210\255\255\240 \214\377\246\013\045\122\045\347\026\001\325\313\270\065\201\014 \243\073\360\341\341\374\132\135\316\200\161\155\370\111\253\076 $\label{eq:condition} $$ \073\272\270\327\200\001\373\245\353\133\263\305\136\140\052\061 $$$ \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 $\label{eq:condition} $$ 243\337\315\200\237\014\110\373\034\364\361\277\112\270\372\325 $$$ \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 $\label{eq:condition} $$ \frac{364 \cdot 64 \cdot 304 \cdot 161 \cdot 344 \cdot 377 \cdot 000 \cdot 132 \cdot 366 \cdot 134 \cdot 256 \cdot 043 \cdot 140 \cdot 205 \cdot 163} $$$ \361\344\020\261\045\256\325\222\273\023\301\014\340\071\332\264 \071\127\265\253\065\252\162\041\073\203\065\347\061\337\172\041 \156\270\062\010\175\035\062\221\025\112\142\162\317\343\167\241 \274\325\021\033\166\001\147\010\340\101\013\303\353\025\156\370 \244\031\331\242\253\257\342\047\122\126\053\002\212\054\024\044 \371\277\102\002\277\046\310\306\217\340\156\070\175\123\055\345 \355\230\263\225\143\150\177\371\065\364\337\210\305\140\065\222 $\label{eq:condition} $$ 300\174\151\034\141\225\026\320\353\336\013\257\076\004\020\105$ \145\130\120\070\257\110\362\131\266\026\362\074\015\220\002\306 \160\056\001\255\074\025\327\002\003\001\000\001\243\102\060\100 \060\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001 \377\060\016\006\003\125\035\017\001\001\377\004\004\003\002\001 $\\ \\006\\003\\006\\003\\125\\035\\016\\004\\026\\004\\024\\355\\347\\157\\166$ \132\277\140\354\111\133\306\245\167\273\162\026\161\233\304\075 $\label{eq:condition} $$ \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:condition} $$ \001\252\307\152\101\073\220\324\010\134\262\140\152\220\360\310 $$$ $\label{eq:condition} $$ \frac{316}{003}142\frac{371}{213}\frac{355}{373}\frac{156}{052}\frac{334}{006}\frac{115}{074}\frac{1017}{211} $$$ \026\212\130\114\110\017\350\204\141\352\074\162\246\167\344\102 \256\210\243\103\130\171\176\256\312\245\123\015\251\075\160\275 \040\031\141\244\154\070\374\103\062\341\301\107\377\370\354\361 \021\042\062\226\234\302\366\133\151\226\173\040\014\103\101\232 \133\366\131\031\210\336\125\210\067\121\013\170\134\012\036\243

\102\375\307\235\210\017\300\362\170\002\044\124\223\257\211\207 \210\311\112\200\035\352\320\156\076\141\056\066\273\065\016\047 \226\375\146\064\073\141\162\163\361\026\134\107\006\124\111\000 \172\130\022\260\012\357\205\375\261\270\063\165\152\223\034\022 \346\140\136\157\035\177\311\037\043\313\204\141\237\036\202\104 $\label{eq:condition} $$ \frac{371}137\255\\142\125\044\232\122\230\355\121\347\241\176\227\072}$$ \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:condition} $$ \frac{306}{261}174\\151\\173\\303\\365\\066\\105\\314\\141\\156\\136\\114\\224$ \305\136\256\350\016\136\213\277\367\315\340\355\241\016\033\063 \356\124\030\376\017\276\357\176\204\153\103\343\160\230\333\135 \110\307\263\246\042\365\063\067\132\225\107\237\173\272\030\025 $\label{eq:condition} $$ \frac{377}{326}024\frac{44}{203}111\frac{322}012\frac{47}041\frac{333}017\frac{65}143}140 $$ $\label{eq:condition} $$ \050\042\343\261\225\203\315\205\246\335\057\017\347\147\122\156$$ \273\057\205\174\365\112\163\347\305\076\300\275\041\022\005\077 \374\267\003\111\002\133\310\045\346\342\124\070\365\171\207\214 \035\123\262\116\205\173\006\070\307\054\370\370\260\162\215\045 \345\167\122\364\003\034\110\246\120\137\210\040\060\156\362\202 \103\253\075\227\204\347\123\373\041\301\117\017\042\232\206\270 \131\052\366\107\075\031\210\055\350\205\341\236\354\205\010\152 \261\154\064\311\035\354\110\053\073\170\355\146\304\216\171\151 \203\336\177\214

END

CKA_NSS_MOZILLA_CA_POLICY

CK BBOOL

CK TRUE

CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "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:condition} $$ \011\074\141\363\213\213\334\175\125\337\165\070\002\005\000\341$

\045\365\310\066

END

```
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\verb|257|014|206|156|277|100|055|177|013|076|022|120|272|022|075|006|
END
CKA ISSUER
MULTILINE OCTAL
\060\110\061\013\060\011\006\003\125\004\006\023\002\102\115\061
\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144
\151\163\040\114\151\155\151\164\145\144\061\036\060\034\006\003
\125\004\003\023\025\121\165\157\126\141\144\151\163\040\122\157
\157\164\040\103\101\040\062\040\107\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\104\127\064\044\133\201\211\233\065\362\316\270\053\073
\label{eq:condition} $$133\247\046\360\165\050$
END
CKA TRUST SERVER AUTH CK TRUST CKT NSS TRUSTED DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA TRUST CODE SIGNING CK TRUST CKT NSS MUST VERIFY TRUST
CKA TRUST STEP UP APPROVED CK BBOOL CK FALSE
# Certificate "QuoVadis Root CA 3 G3"
# Issuer: CN=QuoVadis Root CA 3 G3,O=QuoVadis Limited,C=BM
# Serial Number:2e:f5:9b:02:28:a7:db:7a:ff:d5:a3:a9:ee:bd:03:a0:cf:12:6a:1d
# Subject: CN=QuoVadis Root CA 3 G3,O=QuoVadis Limited,C=BM
# Not Valid Before: Thu Jan 12 20:26:32 2012
# Not Valid
After: Sun Jan 12 20:26:32 2042
# Fingerprint (SHA-256):
88:EF:81:DE:20:2E:B0:18:45:2E:43:F8:64:72:5C:EA:5F:BD:1F:C2:D9:D2:05:73:07:09:C5:D8:B8:69:0F:46
# Fingerprint (SHA1): 48:12:BD:92:3C:A8:C4:39:06:E7:30:6D:27:96:E6:A4:CF:22:2E:7D
CKA CLASS CK OBJECT CLASS CKO CERTIFICATE
CKA TOKEN CK BBOOL CK TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA LABEL UTF8 "QuoVadis Root CA 3 G3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\110\061\013\060\011\006\003\125\004\006\023\002\102\115\061
\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144
\151\163\040\114\151\155\151\164\145\144\061\036\060\034\006\003
\125\004\003\023\025\121\165\157\126\141\144\151\163\040\122\157
\157\164\040\103\101\040\063\040\107\063
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\110\061\013\060\011\006\003\125\004\006\023\002\102\115\061
```

\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144 \151\163\040\114\151\155\151\164\145\144\061\036\060\034\006\003 \125\004\003\023\025\121\165\157\126\141\144\151\163\040\122\157 \157\164\040\103\101\040\063\040\107\063

END

CKA_SERIAL_NUMBER

MULTILINE OCTAL

\002\024\056\365\233\002\050\247\333\172\377\325\243\251\356\275 \003\240\317\022\152\035

END

CKA_VALUE MULTILINE_OCTAL

 $\label{eq:condition} $$ \0.060\202\005\140\060\202\003\110\240\003\002\001\002\002\002\002\005\0000$ \365\233\002\050\247\333\172\377\325\243\251\356\275\003\240\317 $\label{eq:condition} $$ \022\152\035\060\015\006\011\052\206\110\206\367\015\001\001\013$ $\label{eq:condition} $$ \005\000\060\110\061\013\060\011\006\003\125\004\006\023\002\102 $$$ \115\061\031\060\027\006\003\125\004\012\023\020\121\165\157\126 \141\144\151\163\040\114\151\155\151\164\145\144\061\036\060\034 \006\003\125\004\003\023\025\121\165\157\126\141\144\151\163\040 \122\157\157\164\040\103\101\040\063\040\107\063\060\036\027\015 \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 $\label{eq:condition} $$ \003\125\004\012\023\020\121\165\157\126\141\144\151\163\040\114 $$$ \151\155\151\164\145\144\061\036\060\034\006\003\125\004\003\023 $\label{eq:condition} $$ \025\121\165\157\126\141\144\151\163\040\122\157\157\164\040\103$$ \101\040\063\040\107\063\060\202\002\042\060\015\006\011\052\206 \110\206\367\015\001\001\001\005\000\003\202\002\017\000\060\202 $\label{eq:condition} $$ \002\012\002\202\002\001\000\263\313\016\020\147\216\352\024\227 $$$ \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 $\label{eq:condition} $$ \061\333\372\013\123\114\257\305\245\032\171\074\212\114\377\254$$ \337\045\336\116\331\202\062\013\104\336\312\333\214\254\243\156 \026\203\073\246\144\113\062\211\373\026\026\070\176\353\103\342 \323\164\112\302\142\012\163\012\335\111\263\127\322\260\012\205 \235\161\074\336\243\313\300\062\363\001\071\040\103\033\065\321 \123\263\261\356\305\223\151\202\076\026\265\050\106\241\336\352 \211\011\355\103\270\005\106\212\206\365\131\107\276\033\157\001 $\label{eq:condition} $$ \041\020\271\375\251\322\050\312\020\071\011\312\023\066\317\234 $$$ $\label{eq:condition} $$ \255\255\100\164\171\053\002\077\064\377\372\040\151\175\323\356$$ \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 $\label{eq:condition} $$ \024\160\006\217\037\237\370\207\151\261\016\357\303\211\031\353$ \352\034\141\374\172\154\212\334\326\003\013\236\046\272\022\335 \324\124\071\253\046\243\063\352\165\201\332\055\315\017\117\344 $\label{eq:condition} $$ \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 $\verb|\|261|052|242|061|336|146|004|367|300|164|350|161|336|377|075|131|$ $\label{eq:condition} $$ \frac{314}{226}046022\\ 213\\ 205\\ 225\\ 127\\ 032\\ 253\\ 153\\ 165\\ 013\\ 104\\ 075\\ 021$ \050\074\173\141\267\342\217\147\117\345\354\074\114\140\200\151 $\label{eq:condition} $$ \frac{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:condition} $$ \003\205\315\361\377\214\026\265\301\262\076\210\154\140\177\220 $$$ \117\225\367\366\055\255\001\071\007\004\372\165\200\175\277\111 \120\355\357\311\304\174\034\353\200\176\333\266\320\335\023\376 \311\323\234\327\262\227\251\002\003\001\000\001\243\102\060\100 \060\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001 \377\060\016\006\003\125\035\017\001\001\377\004\004\003\002\001 $\label{eq:condition} $$ \006\003\125\035\016\004\026\004\024\306\027\320\274 $$$ \250\352\002\103\362\033\006\231\135\053\220\040\271\327\234\344 $\label{eq:condition} $$ \006\011\052\206\110\206\367\015\001\001\013\005\000\003$ \202\002\001\000\064\141\331\126\265\022\207\125\115\335\243\065 \061\106\273\244\007\162\274\137\141\142\350\245\373\013\067\261 $\label{eq:condition} $$ \sqrt{074 \times 266 \times 263 \times 372 \times 1235 \times 177 \times 265 \times 244 \times 311 \times 250 \times 223 \times 267 \times 172 \times 161}$$ \050\151\217\163\341\122\220\332\325\276\072\345\267\166\152\126 \200\041\337\135\346\351\072\236\345\076\366\242\151\307\052\012 $\label{eq:condition} $$ \260\030\107\334\040\160\175\122\243\076\131\174\301\272\311\310$$ \025\100\141\312\162\326\160\254\322\267\360\034\344\206\051\360 \316\357\150\143\320\265\040\212\025\141\232\176\206\230\264\311 \302\166\373\314\272\060\026\314\243\141\306\164\023\345\153\357 \243\025\352\003\376\023\213\144\344\323\301\322\350\204\373\111 $\label{eq:condition} $$ \frac{321\\020\\115\\171\\146\\353\\252\\375\\364\\215\\061\\036\\160\\024\\255\\334$ \336\147\023\114\201\025\141\274\267\331\221\167\161\031\201\140 \273\360\130\245\265\234\013\367\217\042\125\047\300\113\001\155 $\label{eq:condition} $$ \073\231\015\324\035\233\143\147\057\320\356\015\312\146\274\224$ \117\246\255\355\374\356\143\254\127\077\145\045\317\262\206\217 \320\010\377\270\166\024\156\336\345\047\354\253\170\265\123\271 \266\077\350\040\371\322\250\276\141\106\312\207\214\204\363\371 \361\240\150\233\042\036\201\046\233\020\004\221\161\300\006\037 \334\240\323\271\126\247\343\230\055\177\203\235\337\214\053\234 \062\216\062\224\360\001\074\042\052\237\103\302\056\303\230\071 $\label{eq:condition} $$ \000\173\374\136\000\102\037\363\062\046\171\203\204\366\345 $$$ $\label{eq:condition} $$ \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 $\label{eq:condition} $$175\330\362\042\256\273\151\364\063\264\246\110\125\321\017\016$$ \046\350\354\266\013\055\247\205\065\315\375\131\310\237\321\315 $\label{eq:condition} $$ \076\132\051\064\271\075\204\316\261\145\324\131\221\221\126\165 $$$ \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

\177\175\256\200\365\007\114\266\076\234\161\124\231\004\113\375\130\371\230\364

END

CKA_NSS_MOZILLA_CA_POLICY

CK BBOOL CK TRUE

CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE

CKA NSS EMAIL DISTRUST AFTER

CK BBOOL CK FALSE

- # Trust for "OuoVadis 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

 $\label{eq:condition} $$ 110\022\275\222\074\250\304\071\006\347\060\155\047\226\346\244$

\317\042\056\175

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL

\337\175\271\255\124\157\150\241\337\211\127\003\227\103\260\327

END

CKA_ISSUER MULTILINE_OCTAL

 $\label{eq:condition} $$ \060\110\061\013\060\011\006\003\125\004\006\023\002\102\115\061\$

 $\label{eq:condition} $$ \001\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144$

\151\163\040\114\151\155\151\164\145\144\061\036\060\034\006\003

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

END

CKA_SERIAL_NUMBER

MULTILINE_OCTAL

 $\\ \langle 002 \rangle 024 \rangle 056 \rangle 365 \rangle 233 \rangle 002 \rangle 050 \rangle 247 \rangle 333 \rangle 172 \rangle 377 \rangle 325 \rangle 243 \rangle 251 \rangle 356 \rangle 275$

\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

 ${\tt CKA_TRUST_CODE_SIGNING\ CK_TRUST\ CKT_NSS_MUST_VERIFY_TRUST}$

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

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

\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023

 $\label{eq:condition} $$ \020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157$$$

 $\label{eq:condition} $$ \frac{0000042006003125004003023033104151147151}{155061044060042006003125004003023033104151147151} $$$

\103\145\162\164\040\101\163\163\165\162\145\144\040\111\104\040

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

END

CKA ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

\060\145\061\013\060\011\006\003\125\004\006\023\002\125\123\061

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

 $\label{eq:condition} $$ 162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023$$

 $\label{eq:condition} $$ \020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157$$$

 $\label{eq:condition} $$ \frac{004}{044}060 042 006 003 125 004 003 023 033 104 151 147 151$

 $\label{eq:local_condition} $$ 122\157\157\164\040\107\062$$

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

 $\label{eq:condition} $$ \000\202\003\226\000\202\002\176\240\003\002\001\002\002\002\001\3 $$ \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\001\3\005\000\060\145\061\013\060\011\006\003\125\004\006\023\002\125\123\061\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023\020\167$$

\167\167\056\144\151\147\151\143\145\162\164\056\143\157\155\061 \044\060\042\006\003\125\004\003\023\033\104\151\147\151\103\145 \162\164\040\101\163\163\165\162\145\144\040\111\104\040\122\157 \157\164\040\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 \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:condition} $$ \003\125\004\013\023\020\167\167\167\056\144\151\147\151\143\145 $$$ \162\164\056\143\157\155\061\044\060\042\006\003\125\004\003\023 $\label{eq:condition} $$ \033\104\151\147\151\103\145\162\164\040\101\163\163\165\162\145$$ $\\ 144\\040\\111\\104\\040\\122\\157\\157\\164\\040\\107\\062\\060\\202\\001\\042$ \060\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003 $\label{eq:condition} $$ \202\001\017\000\060\202\001\012\002\202\001\001\000\331\347\050 $$$ $\label{eq:condition} $$ \057\122\077\066\162\111\210\223\064\363\370\152\036\061\124\200 $$$ \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:condition} $$ \frac{120}{214}077\\204\\014\\226\\317\\267\\313\\003\\340\\312\\155\\241\\024\\114$ \033\211\335\355\000\260\122\174\257\221\154\261\070\023\321\351 \022\010\300\000\260\034\053\021\332\167\160\066\233\256\316\171 $\label{eq:condition} $$ \207\334\202\160\346\011\164\160\125\151\257\243\150\237\277\335 $$$ \266\171\263\362\235\160\051\125\364\253\377\225\141\363\311\100 $\label{eq:condition} $$ \frac{321}{276}\frac{223}{273}\frac{323}{210}\frac{273}{235}\frac{277}{162}\frac{132}{126}\frac{161}{161} $$$ \073\077\324\363\321\012\376\050\357\243\356\331\231\257\003\323 \217\140\267\362\222\241\261\275\211\211\037\060\315\303\246\056 \142\063\256\026\002\167\104\132\347\201\012\074\247\104\056\171 \270\077\004\274\134\240\207\341\033\257\121\216\315\354\054\372 \370\376\155\360\072\174\252\213\344\147\225\061\215\002\003\001 $\label{eq:condition} $$ \000\001\243\102\060\100\060\017\006\003\125\035\023\001\001\377 $$$ \004\005\060\003\001\001\377\060\016\006\003\125\035\017\001\001 \377\004\004\003\002\001\206\060\035\006\003\125\035\016\004\026 \004\024\316\303\112\271\231\125\362\270\333\140\277\251\176\275 \126\265\227\066\247\326\060\015\006\011\052\206\110\206\367\015 $\label{eq:condition} $$ \001\001\005\000\003\202\001\000\312\245\125\214\343\310 $$$ \101\156\151\047\247\165\021\357\074\206\066\157\322\235\306\170 $\label{eq:condition} $$ \070\035\151\226\242\222\151\056\070\154\233\175\004\324\211\245 $$$ \261\061\067\212\311\041\314\253\154\315\213\034\232\326\277\110 \322\062\146\301\212\300\363\057\072\357\300\343\324\221\206\321 \120\343\003\333\163\167\157\112\071\123\355\336\046\307\265\175 \257\053\102\321\165\142\343\112\053\002\307\120\113\340\151\342 \226\154\016\104\146\020\104\217\255\005\353\370\171\254\246\033 \350\067\064\235\123\311\141\252\242\122\257\112\160\026\206\302 \072\310\261\023\160\066\330\317\356\364\012\064\325\133\114\375 \007\234\242\272\331\001\162\134\363\115\301\335\016\261\034\015 \304\143\276\255\364\024\373\211\354\242\101\016\114\314\310\127 \100\320\156\003\252\315\014\216\211\231\231\154\360\074\060\257

 $\label{eq:condition} $$ \070\337\157\274\243\276\051\040\047\253\164\377\023\042\170\336\227\122\125\036\203\265\124\040\003\356\256\300\117\126\336\067\314\303\177\252\004\047\273\323\167\270\142\333\027\174\234\050\042\023\163\154\317\046\365\212\051\347$$

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

\241\113\110\331\103\356\012\016\100\220\117\074\340\244\300\221

\223\121\135\077

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL

\222\070\271\370\143\044\202\145\054\127\063\346\376\201\217\235

END

CKA_ISSUER MULTILINE_OCTAL

\060\145\061\013\060\011\006\003\125\004\006\023\002\125\123\061

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

\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023

\020\167\167\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

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

END

CKA SERIAL NUMBER MULTILINE OCTAL

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

\364\113

END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR

CKA_TRUST_EMAIL_PROTECTION CK_TRUST

CKT_NSS_TRUSTED_DELEGATOR CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#

Certificate "DigiCert Assured ID Root G3"

#

- # Issuer: CN=DigiCert Assured ID Root G3,OU=www.digicert.com,O=DigiCert Inc,C=US
- # Serial Number:0b:a1:5a:fa:1d:df:a0:b5:49:44:af:cd:24:a0:6c:ec
- # Subject: CN=DigiCert Assured ID Root G3,OU=www.digicert.com,O=DigiCert Inc,C=US
- # Not Valid Before: Thu Aug 01 12:00:00 2013
- # Not Valid After: Fri Jan 15 12:00:00 2038
- # Fingerprint (SHA-256):

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

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

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

CKA_TOKEN CK_BBOOL CK_TRUE

CKA PRIVATE CK BBOOL CK FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "DigiCert Assured ID Root G3"

CKA CERTIFICATE TYPE CK CERTIFICATE TYPE CKC X 509

CKA_SUBJECT MULTILINE_OCTAL

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

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

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

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

END

CKA_ID

UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

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

\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023

\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157

 $\label{eq:condition} $$ \frac{\sqrt{155}}{061}\frac{044}{060}\frac{003}{125}\frac{004}{003}\frac{023}{033}\frac{104}{151}\frac{147}{151} $$

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

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

\002\020\013\241\132\372\035\337\240\265\111\104\257\315\044\240 \154\354

END

CKA_VALUE MULTILINE_OCTAL

\060\202\002\106\060\202\001\315\240\003\002\001\002\002\020\013 \241\132\372\035\337\240\265\111\104\257\315\044\240\154\354\060

\012\006\010\052\206\110\316\075\004\003\003\060\145\061\013\060 \011\006\003\125\004\006\023\002\125\123\061\025\060\023\006\003 \125\004\012\023\014\104\151\147\151\103\145\162\164\040\111\156 \143\061\031\060\027\006\003\125\004\013\023\020\167\167\167\056 \144\151\147\151\143\145\162\164\056\143\157\155\061\044\060\042 \006\003\125\004\003\023\033\104\151\147\151\103\145\162\164\040 \101\163\163\165\162\145\144\040\111\104\040\122\157\157\164\040 \107\063\060\036\027\015\061\063\060\070\060\061\061\062\060\060 $\label{eq:condition} $$ \060\060\132\027\015\063\070\060\061\061\065\061\062\060\060\060$ \060\132\060\145\061\013\060\011\006\003\125\004\006\023\002\125 $\label{eq:condition} $$ 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 \004\031\347\274\254\104\145\355\315\270\077\130\373\215\261\127 \251\104\055\005\025\362\357\013\377\020\164\237\265\142\122\137 $\\ 146 \\ 176 \\ 037 \\ 345 \\ 334 \\ 033 \\ 105 \\ 171 \\ 013 \\ 314 \\ 306 \\ 123 \\ 012 \\ 235 \\ 215 \\ 135 \\$ \002\331\251\131\336\002\132\366\225\052\016\215\070\112\212\111 \306\274\306\003\070\007\137\125\332\176\011\156\342\177\136\320 $\label{eq:condition} $$ 105\040\017\131\166\020\326\240\044\360\055\336\066\362\154\051 $$$ \071\243\102\060\100\060\017\006\003\125\035\023\001\001\377\004 \005\060\003\001\001\377\060\016\006\003\125\035\017\001\001\377 \004\004\003\002\001\206\060\035\006\003\125\035\016\004\026\004 \024\313\320\275\251\341\230\005\121\241\115\067\242\203\171\316 \215\035\052\344\204\060\012\006\010\052\206\110\316\075\004\003 \003\003\147\000\060\144\002\060\045\244\201\105\002\153\022\113 \165\164\117\310\043\343\160\362\165\162\336\174\211\360\317\221 $\label{eq:condition} $$ \frac{162}141\236\136\020\222\131\126\271\203\307\020\347\070\351\130}{130}$$ \046\066\175\325\344\064\206\071\002\060\174\066\123\360\060\345 \142\143\072\231\342\266\243\073\233\064\372\036\332\020\222\161 \136\221\023\247\335\244\156\222\314\062\326\365\041\146\307\057 \352\226\143\152\145\105\222\225\001\264

END

CKA_NSS_MOZILLA_CA_POLICY

CK BBOOL CK TRUE

CKA_NSS_SERVER_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
\label{eq:condition} $$ \060\145\061\013\060\011\006\003\125\004\006\023\002\125\123\061\
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\label{eq:condition} $$ \020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157 $$
\155\061\044\060\042\006\003\125\004\003\023\033\104\151\147\151
\103\145\162\164\040\101\163\163\165\162\145\144\040\111\104\040
\122\157\157\164\040\107\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\013\241\132\372\035\337\240\265\111\104\257\315\044\240
\154\354
END
CKA TRUST SERVER AUTH
CK TRUST CKT NSS TRUSTED DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA TRUST CODE SIGNING CK TRUST CKT NSS MUST VERIFY TRUST
{\tt CKA\_TRUST\_STEP\_UP\_APPROVED\ CK\_BBOOL\ CK\_FALSE}
# Certificate "DigiCert Global Root G2"
# Issuer: CN=DigiCert Global Root G2,OU=www.digicert.com,O=DigiCert Inc,C=US
# Serial Number:03:3a:f1:e6:a7:11:a9:a0:bb:28:64:b1:1d:09:fa:e5
# Subject: CN=DigiCert Global Root G2,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Thu Aug 01 12:00:00 2013
# Not Valid After: Fri Jan 15 12:00:00 2038
# Fingerprint (SHA-256):
CB:3C:CB:B7:60:31:E5:E0:13:8F:8D:D3:9A:23:F9:DE:47:FF:C3:5E:43:C1:14:4C:EA:27:D4:6A:5A:B1:CB:5F
# Fingerprint (SHA1): DF:3C:24:F9:BF:D6:66:76:1B:26:80:73:FE:06:D1:CC:8D:4F:82:A4
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
```

CKA MODIFIABLE CK BBOOL CK FALSE

CKA LABEL UTF8 "DigiCert Global Root G2"

CKA CERTIFICATE TYPE

CK CERTIFICATE TYPE CKC X 509

CKA SUBJECT MULTILINE OCTAL

 $\label{eq:condition} $$ \000141\0013\006\0011\006\003\125\004\0023\002\125\123\061\025\006\0023\006\003\125\004\012\023\014\104\151\147\151\103\145\162\164\040\111\156\143\061\031\060\0027\006\003\125\004\003\125\004\003\125\004\003\125\004\151\143\157\155\061\040\060\036\006\003\125\004\003\023\027\104\151\147\151\103\145\162\164\040\107\154\157\142\141\154\040\122\157\157\164\040\107\062$

END

CKA ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

 $\label{eq:condition} $$ \000141\0013\006\0011\006\003\125\004\0023\002\125\123\061\025\006\0023\006\003\125\004\012\023\014\104\151\147\151\103\145\162\164\040\111\156\143\061\031\060\0027\006\003\125\004\0013\023\027\104\151\147\157\155\061\040\060\036\006\003\125\004\003\023\027\104\151\147\151\103\145\162\164\040\107\154\157\142\141\154\040\122\157\157\164\040\107\062$

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

\002\020\003\072\361\346\247\021\251\240\273\050\144\261\035\011 \372\345

END

CKA_VALUE

MULTILINE OCTAL

\060\202\003\216\060\202\002\166\240\003\002\001\002\002\003 $\label{eq:condition} $$ \072\361\346\247\021\251\240\273\050\144\261\035\011\372\345\060$$$ \015\006\011\052\206\110\206\367\015\001\001\013\005\000\060\141 \061\013\060\011\006\003\125\004\006\023\002\125\123\061\025\060 \023\006\003\125\004\012\023\014\104\151\147\151\103\145\162\164 \040\111\156\143\061\031\060\027\006\003\125\004\013\023\020\167 \167\167\056\144\151\147\151\143\145\162\164\056\143\157\155\061 \040\060\036\006\003\125\004\003\023\027\104\151\147\151\103\145 \162\164\040\107\154\157\142\141\154\040\122\157\157\164\040\107 $\label{eq:condition} $$ \062\060\036\027\015\061\063\060\070\060\061\061\062\060\060\060$ \060\132\027\015\063\070\060\061\061\065\061\062\060\060\060\060 \132\060\141\061\013\060\011\006\003\125\004\006\023\002\125\123 $\\ \\061\\025\\060\\023\\006\\003\\125\\004\\012\\023\\014\\104\\151\\147\\151\\103$ \145\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013 \023\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143 \157\155\061\040\060\036\006\003\125\004\003\023\027\104\151\147 \151\103\145\162\164\040\107\154\157\142\141\154\040\122\157\157 \164\040\107\062\060\202\001\042\060\015\006\011\052\206\110\206 \367\015\001\001\001\005\000\003\202\001\017\000\060\202\001\012

\002\202\001\001\000\273\067\315\064\334\173\153\311\262\150\220 \255\112\165\377\106\272\041\012\010\215\365\031\124\311\373\210 $\label{eq:condition} $$ 333\363\256\362\072\211\221\074\172\346\253\006\032\153\317\254$$ $\label{eq:condition} $$ \05\350\136\011\044\104\272\142\232\176\326\243\250\176\340\124 $$$ \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 $\\ \langle 045 \rangle 351 \rangle 233 \rangle 153 \rangle 000 \rangle 140 \rangle 222 \rangle 140 \rangle 377 \rangle 117 \rangle 041 \rangle 111 \rangle 030 \rangle 367 \rangle 147 \rangle 220$ \253\141\006\234\217\362\272\351\264\351\222\062\153\265\363\127 \350\135\033\315\214\035\253\225\004\225\111\363\065\055\226\343 $\label{eq:limit} $$ \frac{111\15\335\167\343\373\111\113\264\254\125\007\251\217\225\263}$$ \264\043\273\114\155\105\360\366\251\262\225\060\264\375\114\125 \214\047\112\127\024\174\202\235\315\163\222\323\026\112\006\014 \214\120\321\217\036\011\276\027\241\346\041\312\375\203\345\020 \274\203\245\012\304\147\050\366\163\024\024\075\106\166\303\207 \024\211\041\064\115\257\017\105\014\246\111\241\272\273\234\305 \261\063\203\051\205\002\003\001\000\001\243\102\060\100\060\017 \006\003\125\035\023\001\001\377\004\005\060\003\001\001\377\060 \016\006\003\125\035\017\001\001\377\004\004\003\002\001\206\060 $\label{eq:condition} $$ \035\006\003\125\035\016\004\026\004\024\116\042\124\040\030\225$ \346\343\156\346\017\372\372\271\022\355\006\027\217\071\060\015 $\label{eq:condition} $$ \006\011\052\206\110\206\367\015\001\001\013\005\000\003\202\001 $$$ $\label{eq:condition} $$ \001\000\140\147\050\224\157\016\110\143\353\061\335\352\147\030 $$$ \325\211\175\074\305\213\112\177\351\276\333\053\027\337\260\137 $\label{eq:condition} $$ 163\167\052\062\023\071\201\147\102\204\043\362\105\147\065\354$$ \210\277\370\217\260\141\014\064\244\256\040\114\204\306\333\370 \065\341\166\331\337\246\102\273\307\104\010\206\177\066\164\044 \132\332\154\015\024\131\065\275\362\111\335\266\037\311\263\015 \107\052\075\231\057\273\134\273\265\324\040\341\231\137\123\106 \025\333\150\233\360\363\060\325\076\061\342\215\204\236\343\212 $\label{eq:condition} $$ 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
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\040\060\036\006\003\125\004\003\023\027\104\151\147\151
\103\145\162\164\040\107\154\157\142\141\154\040\122\157\157\164
\040\107\062
END
CKA SERIAL NUMBER
MULTILINE_OCTAL
\002\020\003\072\361\346\247\021\251\240\273\050\144\261\035\011
\372\345
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
#
# Certificate "DigiCert Global Root G3"
# Issuer: CN=DigiCert Global Root G3,OU=www.digicert.com,O=DigiCert Inc,C=US
# Serial Number:05:55:56:bc:f2:5e:a4:35:35:c3:a4:0f:d5:ab:45:72
# Subject: CN=DigiCert Global Root G3,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Thu Aug 01 12:00:00 2013
# Not Valid After: Fri Jan 15 12:00:00 2038
# Fingerprint (SHA-256):
```

31:AD:66:48:F8:10:41:38:C7:38:F3:9E:A4:32:01:33:39:3E:3A:18:CC:02:29:6E:F9:7C:2A:C9:EF:67:31: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:condition} $$ \000141\0013\006\0011\006\003\125\004\00023\002\125\123\061\025\006\0023\006\003\125\004\012\023\014\104\151\147\151\103\145\162\164\040\111\156\143\061\031\060\0027\006\003\125\004\013\023\027\104\151\147\157\155\061\040\060\036\006\003\125\004\003\023\027\104\151\147\151\103\145\162\164\040\107\154\157\142\141\154\040\122\157\157\164\040\107\063$

END

CKA ID UTF8 "0"

CKA ISSUER MULTILINE OCTAL

 $\label{eq:condition} $$ \000141\0013\006\0011\006\003\125\004\0023\002\125\123\061\025\006\0023\006\003\125\004\012\023\014\104\151\147\151\103\145\162\164\040\111\156\143\061\031\060\0027\006\003\125\004\0013\023\027\104\151\147\157\155\061\040\060\036\006\003\125\004\003\023\027\104\151\147\151\103\145\162\164\040\107\154\157\142\141\154\040\122\157\157\164\040\107\063$

END

CKA_SERIAL_NUMBER

MULTILINE OCTAL

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

END

CKA_VALUE MULTILINE_OCTAL

 $\label{eq:condition} $$ \end{align} $$ \end{align} $$ $$ \end{align} $$ \$

\040\060\036\006\003\125\004\003\023\027\104\151\147\151\103\145 \162\164\040\107\154\157\142\141\154\040\122\157\157\164\040\107 \063\060\166\060\020\006\007\052\206\110\316\075\002\001\006\005 $\label{eq:condition} $$ \053\201\004\000\042\003\142\000\004\335\247\331\273\212\270\013$ \373\013\177\041\322\360\276\276\163\363\063\135\032\274\064\352 \336\306\233\274\320\225\366\360\314\320\013\272\141\133\121\106 \176\236\055\237\356\216\143\014\027\354\007\160\365\317\204\056 \100\203\234\350\077\101\155\073\255\323\244\024\131\066\170\235 \003\103\356\020\023\154\162\336\256\210\247\241\153\265\103\316 \147\334\043\377\003\034\243\342\076\243\102\060\100\060\017\006 $\label{eq:condition} $$ \003\125\035\023\001\001\377\004\005\060\003\001\001\377\060\016$ $\label{eq:condition} $$ \006\003\125\035\017\001\001\377\004\004\003\002\001\206\060\035$ \006\003\125\035\016\004\026\004\024\263\333\110\244\371\241\305 \330\256\066\101\314\021\143\151\142\051\274\113\306\060\012\006 $\label{eq:condition} $$ \0.052\206\110\316\0.75\0.04\0.03\0.03\0.03\1.50\0.00\0.060\1.45\0.02\0.061 $$$ \000\255\274\362\154\077\022\112\321\055\071\303\012\011\227\163 $\label{eq:condition} $$ \364\210\066\214\210\047\273\346\210\215\120\205\247\143\371\236$$ \062\336\146\223\017\361\314\261\011\217\335\154\253\372\153\177 \240\002\060\071\146\133\302\144\215\270\236\120\334\250\325\111 \242\355\307\334\321\111\177\027\001\270\310\206\217\116\214\210 $\label{eq:condition} $$ \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

 $\label{eq:condition} $$ 176\004\336\211\152\076\146\155\000\346\207\323\077\372\331\073$

\350\075\064\236

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL

```
\365\135\244\120\245\373\050\176\036\017\015\314\226\127\126\312
END
CKA ISSUER MULTILINE OCTAL
\060\141\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\040\060\036\006\003\125\004\003\023\027\104\151\147\151
\103\145\162\164\040\107\154\157\142\141\154\040\122\157\157\164
\040\107\063
END
CKA_SERIAL_NUMBER
MULTILINE OCTAL
\label{eq:condition} $$ \002\020\005\125\126\274\362\136\244\065\065\303\244\017\325\253
\105\162
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA TRUST EMAIL PROTECTION CK TRUST CKT NSS TRUSTED DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
# Certificate "DigiCert Trusted Root G4"
# Issuer: CN=DigiCert Trusted Root G4,OU=www.digicert.com,O=DigiCert Inc,C=US
# Serial Number:05:9b:1b:57:9e:8e:21:32:e2:39:07:bd:a7:77:75:5c
# Subject: CN=DigiCert Trusted Root G4,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Thu Aug 01 12:00:00 2013
# Not Valid After: Fri Jan 15 12:00:00 2038
# Fingerprint
(SHA-256):
55:2F:7B:DC:F1:A7:AF:9E:6C:E6:72:01:7F:4F:12:AB:F7:72:40:C7:8E:76:1A:C2:03:D1:D9:D2:0A:C8:99:88
# Fingerprint (SHA1): DD:FB:16:CD:49:31:C9:73:A2:03:7D:3F:C8:3A:4D:7D:77:5D:05:E4
CKA CLASS CK OBJECT CLASS CKO CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA MODIFIABLE CK BBOOL CK FALSE
CKA_LABEL UTF8 "DigiCert Trusted Root G4"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\142\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\041\060\037\006\003\125\004\003\023\030\104\151\147\151
\103\145\162\164\040\124\162\165\163\164\145\144\040\122\157\157
\164\040\107\064
END
```

CKA ID UTF8 "0"

CKA ISSUER MULTILINE OCTAL

 $\label{eq:condition} $$ \000142\001\006\003\125\004\0002\002\125\123\061\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157\155\061\041\060\037\006\003\125\004\003\023\030\104\151\147\151\103\145\162\164\040\124\162\165\163\164\145\144\040\122\157\157\164\040\107\064$

END

CKA_SERIAL_NUMBER

MULTILINE OCTAL

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

END

CKA VALUE MULTILINE OCTAL

 $\label{eq:condition} $$ \0.000\202\0.005\220\0.000\1.002\0.0000\0.0000\0.000\0.000\0.0000\0.0000\0.000\0.000\0.000\0.0000\0.0000\0.0000\0.0000\0.0000\0.00$ \233\033\127\236\216\041\062\342\071\007\275\247\167\165\134\060 \015\006\011\052\206\110\206\367\015\001\001\014\005\000\060\142 \023\006\003\125\004\012\023\014\104\151\147\151\103\145\162\164 \040\111\156\143\061\031\060\027\006\003\125\004\013\023\020\167 \041\060\037\006\003\125\004\003\023\030\104\151\147\151\103\145 \162\164\040\124\162\165\163\164\145\144\040\122\157\157\164\040 \107\064\060\036\027\015\061\063\060\070\060\061\061\062\060\060 \060\060\132\027\015\063\070\060\061\061\065\061\062\060\060\060 \060\132\060\142\061\013\060\011\006\003\125\004\006\023\002\125 \123\061\025\060\023\006\003\125\004\012\023\014\104\151\147\151 \103\145\162\164\040\111\156\143\061\031\060\027\006\003\125\004 $\label{eq:condition} $$ \023\020\167\167\167\056\144\151\147\151\143\145\162\164\056$$$ \143\157\155\061\041\060\037\006\003\125\004\003\023\030\104\151 \147\151\103\145\162\164\040\124\162\165\163\164\145\144\040\122 \157\157\164\040\107\064\060\202\002\042\060\015\006\011\052\206 \110\206\367\015\001\001\001\005\000\003\202\002\017\000\060\202 \002\012\002\202\002\001\000\277\346\220\163\150\336\273\344\135 \112\074\060\042\060\151\063\354\302\247\045\056\311\041\075\362 \212\330\131\302\341\051\247\075\130\253\166\232\315\256\173\033 \204\015\304\060\037\363\033\244\070\026\353\126\306\227\155\035 \253\262\171\362\312\021\322\344\137\326\005\074\122\017\122\037 \306\236\025\245\176\276\237\251\127\026\131\125\162\257\150\223 $\label{eq:condition} $$ 160\302\262\272\165\231\152\163\062\224\321\020\104\020\056\337 $$$ \202\363\007\204\346\164\073\155\161\342\055\014\033\356\040\325 \311\040\035\143\051\055\316\354\136\116\310\223\370\041\141\233 \064\353\005\306\136\354\133\032\274\353\311\317\315\254\064\100 \137\261\172\146\356\167\310\110\250\146\127\127\237\124\130\216 \014\053\267\117\247\060\331\126\356\312\173\135\343\255\311\117 \136\345\065\347\061\313\332\223\136\334\216\217\200\332\266\221

\230\100\220\171\303\170\307\266\261\304\265\152\030\070\003\020 \215\330\324\067\244\056\005\175\210\365\202\076\020\221\160\253 $\label{eq:condition} $$ \frac{125}{202}101\\062\\327\\333\\004\\163\\052\\156\\221\\001\\174\\041\\114\\324$ \274\256\033\003\165\135\170\146\331\072\061\104\232\063\100\277 \010\327\132\111\244\302\346\251\240\147\335\244\047\274\241\117 $\label{eq:condition} $$ \071\265\021\130\027\367\044\134\106\217\144\367\301\151\210\166$$ \230\166\075\131\135\102\166\207\211\227\151\172\110\360\340\242 \022\033\146\232\164\312\336\113\036\347\016\143\256\346\324\357 \222\222\072\236\075\334\000\344\105\045\211\266\232\104\031\053 \176\300\224\264\322\141\155\353\063\331\305\337\113\004\000\314 \175\034\225\303\217\367\041\262\262\021\267\273\177\362\325\214 \160\054\101\140\252\261\143\030\104\225\032\166\142\176\366\200 \260\373\350\144\246\063\321\211\007\341\275\267\346\103\244\030 \270\246\167\001\341\017\224\014\041\035\262\124\051\045\211\154 $\label{eq:condition} $$ 345 \times 122 \times 121 \times 107 \times 44 \times 276 \times 44 \times 266 \times 101 \times 336 \times 172 \times 254 \times 137 \times 100 \times$ \215\077\311\274\323\101\021\022\133\345\020\120\353\061\305\312 $\label{eq:condition} $$ 162\026\042\011\337\174\114\165\077\143\354\041\137\304\040\121 $$$ \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 $\label{eq:condition} $$ \206\06\003\125\035\016\004\026\004\024\354\327\343\202 $$$ \322\161\135\144\114\337\056\147\077\347\272\230\256\034\017\117 \060\015\006\011\052\206\110\206\367\015\001\001\014\005\000\003 \202\002\001\000\273\141\331\175\251\154\276\027\304\221\033\303 \241\242\000\215\343\144\150\017\126\317\167\256\160\371\375\232 \112\231\271\311\170\134\014\014\137\344\346\024\051\126\013\066 \111\135\104\143\340\255\234\226\030\146\033\043\015\075\171\351 \155\153\326\124\370\322\074\301\103\100\256\035\120\365\122\374 $\label{eq:condition} $$ \220\073\273\230\231\151\153\307\301\247\250\150\244\047\334\235$ \371\047\256\060\205\271\366\147\115\072\076\217\131\071\042\123 \104\353\310\135\003\312\355\120\172\175\142\041\012\200\310\163 \146\321\240\005\140\137\350\245\264\247\257\250\367\155\065\234 \174\132\212\326\242\070\231\363\170\213\364\115\322\040\013\336 \004\356\214\233\107\201\162\015\300\024\062\357\060\131\056\256 \340\161\362\126\344\152\227\157\222\120\155\226\215\150\172\232 \262\066\024\172\006\362\044\271\011\021\120\327\010\261\270\211 \172\204\043\141\102\051\345\243\315\242\040\101\327\321\234\144 $\label{eq:condition} $$ 331\352\046\241\213\024\327\114\031\262\120\101\161\075\077\115$$ \160\043\206\014\112\334\201\322\314\062\224\204\015\010\011\227 \034\117\300\356\153\040\164\060\322\340\071\064\020\205\041\025 $\label{eq:condition} $$ \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 $\label{eq:condition} $$ \054\066\233\342\372\342\105\270\043\123\154\006\157\147\125\177$ \106\265\114\077\156\050\132\171\046\322\244\250\142\227\322\036 \342\355\112\213\274\033\375\107\112\015\337\147\146\176\262\133 $\label{eq:condition} $$ 101\320\073\344\364\073\364\004\143\351\357\302\124\000\121\240 $$$ $\label{eq:control} $$ \frac{212\\052\\311\\316\\170\\314\\325\\352\\207\\0004\\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\\0017\\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

 $\label{eq:condition} $$ \000142\001\006\003\125\004\006\023\002\125\123\061\025\006\0023\006\003\125\004\012\023\014\104\151\147\151\103\145\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157\155\061\041\060\037\006\003\125\004\003\023\030\104\151\147\151\103\145\162\164\040\124\162\165\163\164\145\144\040\122\157\157\164\040\107\064$

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

```
\002\020\005\233\033\127\236\216\041\062\342\071\007\275\247\167
\165\134
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING
CK TRUST CKT NSS MUST VERIFY TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
# Certificate "COMODO RSA Certification Authority"
# Issuer: CN=COMODO RSA Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater
Manchester, C=GB
# Serial Number:4c:aa:f9:ca:db:63:6f:e0:1f:f7:4e:d8:5b:03:86:9d
# Subject: CN=COMODO RSA Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater
Manchester, C=GB
# Not Valid Before: Tue Jan 19 00:00:00 2010
# Not Valid After: Mon Jan 18 23:59:59 2038
# Fingerprint (SHA-256):
52:F0:E1:C4:E5:8E:C6:29:29:1B:60:31:7F:07:46:71:B8:5D:7E:A8:0D:5B:07:27:34:63:53:4B:32:B4:02:34
# Fingerprint (SHA1): AF:E5:D2:44:A8:D1:19:42:30:FF:47:9F:E2:F8:97:BB:CD:7A:8C:B4
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA TOKEN CK BBOOL CK TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA MODIFIABLE CK BBOOL CK FALSE
CKA LABEL UTF8 "COMODO RSA Certification Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA SUBJECT MULTILINE OCTAL
\060\201\205\061\013\060\011\006\003\125\004\006\023\002\107\102
\label{eq:condition} $$ \061\03\060\031\006\003\125\004\010\023\022\107\162\145\141\164$$
\145\162\040\115\141\156\143\150\145\163\164\145\162\061\020\060
\016\006\003\125\004\007\023\007\123\141\154\146\157\162\144\061
\032\060\030\006\003\125\004\012\023\021\103\117\115\117\104\117
\040\103\101\040\114\151\155\151\164\145\144\061\053\060\051\006
\003\125\004\003\023\042\103\117\115\117\104\117\040\122\123\101
\\ \\ 040\\ \\ 103\\ \\ 145\\ \\ 162\\ \\ 164\\ \\ 151\\ \\ 146\\ \\ 151\\ \\ 143\\ \\ 141\\ \\ 164\\ \\ 151\\ \\ 157\\ \\ 156\\ \\ 040\\ \\ 101
\165\164\150\157\162\151\164\171
END
CKA_ID
UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\205\061\013\060\011\006\003\125\004\006\023\002\107\102
\061\033\060\031\006\003\125\004\010\023\022\107\162\145\141\164
\145\162\040\115\141\156\143\150\145\163\164\145\162\061\020\060
\016\006\003\125\004\007\023\007\123\141\154\146\157\162\144\061
\032\060\030\006\003\125\004\012\023\021\103\117\115\117\104\117
\040\103\101\040\114\151\155\151\164\145\144\061\053\060\051\006
```

\003\125\004\003\023\042\103\117\115\117\104\117\040\122\123\101 \040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101 \165\164\150\157\162\151\164\171

END

CKA SERIAL NUMBER

MULTILINE OCTAL

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

END

CKA_VALUE MULTILINE_OCTAL

\060\202\005\330\060\202\003\300\240\003\002\001\002\002\020\114 \252\371\312\333\143\157\340\037\367\116\330\133\003\206\235\060 \015\006\011\052\206\110\206\367\015\001\001\001\014\005\000\060\201 $\label{eq:condition} $$ \205\061\013\060\011\006\003\125\004\006\023\002\107\102\061\033$ $\label{eq:condition} $$ \000\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 $\label{eq:condition} $$ \003\125\004\007\023\007\123\141\154\146\157\162\144\061\032\060$$$ \030\006\003\125\004\012\023\021\103\117\115\117\104\117\040\103 \101\040\114\151\155\151\164\145\144\061\053\060\051\006\003\125 $\\ \\004\\ \\003\\ \\023\\ \\042\\ \\103\\ \\117\\ \\115\\ \\117\\ \\104\\ \\117\\ \\040\\ \\122\\ \\123\\ \\101\\ \\040\\ \\103$ \145\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164 \150\157\162\151\164\171\060\036\027\015\061\060\060\061\061\071 $\label{eq:condition} $$ \060\060\060\060\060\132\027\015\063\070\060\061\061\070\062$$$ \063\065\071\065\071\132\060\201\205\061\013\060\011\006\003\125 \004\006\023\002\107\102\061\033\060\031\006\003\125\004\010\023 \022\107\162\145\141\164\145\162\040\115\141\156\143\150\145\163 \164\145\162\061\020\060\016\006\003\125\004\007\023\007\123\141 \154\146\157\162\144\061\032\060\030\006\003\125\004\012\023\021 \103\117\115\117\104\117\040\103\101\040\114\151\155\151\164\145 \144\061\053\060\051\006\003\125\004\003\023\042\103\117\115\117 \164\151\157\156\040\101\165\164\150\157\162\151\164\171\060\202 \002\042\060\015\006\011\052\206\110\206\367\015\001\001\001\005 \000\003\202\002\017\000\060\202\002\012\002\202\002\001\000\221 \350\124\222\322\012\126\261\254\015\044\335\305\317\104\147\164 \231\053\067\243\175\043\160\000\161\274\123\337\304\372\052\022 \217\113\177\020\126\275\237\160\162\267\141\177\311\113\017\027 \247\075\343\260\004\141\356\377\021\227\307\364\206\076\012\372 $\label{eq:condition} $$ \076\134\371\223\346\064\172\331\024\153\347\234\263\205\240\202$ \172\166\257\161\220\327\354\375\015\372\234\154\372\337\260\202 \364\024\176\371\276\304\246\057\117\177\231\177\265\374\147\103 \162\275\014\000\326\211\353\153\054\323\355\217\230\034\024\253 \176\345\343\156\374\330\250\344\222\044\332\103\153\142\270\125 \375\352\301\274\154\266\213\363\016\215\232\344\233\154\151\231 \370\170\110\060\105\325\255\341\015\074\105\140\374\062\226\121 \047\274\147\303\312\056\266\153\352\106\307\307\040\240\261\037 \145\336\110\010\272\244\116\251\362\203\106\067\204\353\350\314 \201\110\103\147\116\162\052\233\134\275\114\033\050\212\134\042

\173\264\253\230\331\356\340\121\203\303\011\106\116\155\076\231 \372\225\027\332\174\063\127\101\074\215\121\355\013\266\134\257 \054\143\032\337\127\310\077\274\351\135\304\233\257\105\231\342 \243\132\044\264\272\251\126\075\317\157\252\377\111\130\276\360 \250\377\364\270\255\351\067\373\272\270\364\013\072\371\350\103 \102\036\211\330\204\313\023\361\331\273\341\211\140\270\214\050 \126\254\024\035\234\012\347\161\353\317\016\335\075\251\226\241 \110\275\074\367\257\265\015\042\114\300\021\201\354\126\073\366 \323\242\342\133\267\262\004\042\122\225\200\223\151\350\216\114 \145\361\221\003\055\160\164\002\352\213\147\025\051\151\122\002 \273\327\337\120\152\125\106\277\240\243\050\141\177\160\320\303 \242\252\054\041\252\107\316\050\234\006\105\166\277\202\030\047 \264\325\256\264\313\120\346\153\364\114\206\161\060\351\246\337 $\label{eq:condition} $$ \026\206\340\330\377\100\335\373\320\102\210\177\243\063\072\056$ \134\036\101\021\201\143\316\030\161\153\053\354\246\212\267\061 \134\072\152\107\340\303\171\131\326\040\032\257\362\152\230\252 $\label{eq:condition} $$ \frac{162}274\frac{127}{112}\frac{322}{113}\frac{235}{273}\frac{020}{374}\frac{260}{114}\frac{101}{345}\frac{355}{035} $$$ \075\136\050\235\234\314\277\263\121\332\247\107\345\204\123\002 \003\001\000\001\243\102\060\100\060\035\006\003\125\035\016\004 $\label{eq:condition} $$ \026\004\024\273\257\176\002\075\372\246\361\074\204\216\255\356$$ \070\230\354\331\062\062\324\060\016\006\003\125\035\017\001\001 \377\004\004\003\002\001\006\060\017\006\003\125\035\023\001\001 $\label{eq:condition} $$ 377\004\005\060\003\001\001\377\060\015\006\011\052\206\110\206$ \367\015\001\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 $\label{eq:condition} $$ \frac{242}{232} 264 026 022 151 132 214$ \341\327\076\244\032\350\057\003\364\256\141\035\020\033\052\244 \213\172\305\376\005\246\341\300\326\310\376\236\256\217\053\272 $\label{eq:condition} $$ \075\231\370\330\163\011\130\106\156\246\234\364\327\047\323\225 $$$ \332\067\203\162\034\323\163\340\242\107\231\003\070\135\325\111 $\label{eq:condition} $$ 171\000\051\034\307\354\233\040\034\007\044\151\127\170\262\071 $$$ \374\072\204\240\265\234\174\215\277\056\223\142\047\267\071\332 \027\030\256\275\074\011\150\377\204\233\074\325\326\013\003\343 \127\236\024\367\321\353\117\310\275\207\043\267\266\111\103\171 \205\134\272\353\222\013\241\306\350\150\250\114\026\261\032\231 $\label{eq:condition} $$ \012\350\123\054\222\273\241\011\030\165\014\145\250\173\313\043$ $\label{eq:condition} $$ \267\032\302\050\205\303\033\377\320\053\142\357\244\173\011\221 $$$ \230\147\214\024\001\315\150\006\152\143\041\165\003\200\210\212 \156\201\306\205\362\251\244\055\347\364\245\044\020\107\203\312 \315\364\215\171\130\261\006\233\347\032\052\331\235\001\327\224 \175\355\003\112\312\360\333\350\251\001\076\365\126\231\311\036 \216\111\075\273\345\011\271\340\117\111\222\075\026\202\100\314 \314\131\306\346\072\355\022\056\151\074\154\225\261\375\252\035 \173\177\206\276\036\016\062\106\373\373\023\217\165\177\114\213 \113\106\143\376\000\064\100\160\301\303\271\241\335\246\160\342 \004\263\101\274\351\200\221\352\144\234\172\341\042\003\251\234

 $\label{eq:condition} $$ \frac{156\\157\\016\\145\\117\\154\\207\\207\\136\\363\\156\\240\\371\\165\\245\\233\\100\\350\\123\\262\\047\\235\\111\\213\\227\\300\\167\\041\\215\\377\\207\\362\\336\\2156\\060\\013\\032\\016\\116\\166\\355\\021\\374\\365\\351\\1126\\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\\177\\041\\301\\065\\123\\205\\006\\112\\135\\237\\255\\273\\033\\137\\164$

END

CKA NSS MOZILLA CA POLICY

CK_BBOOL CK_TRUE

CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "COMODO RSA Certification Authority"

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

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

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

Not Valid Before: Tue Jan 19 00:00:00 2010 # Not Valid After : Mon Jan 18 23:59:59 2038

Fingerprint (SHA-256):

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

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

CKA CLASS CK OBJECT CLASS CKO NSS TRUST

CKA_TOKEN CK_BBOOL CK_TRUE

CKA PRIVATE CK BBOOL CK FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "COMODO RSA Certification Authority"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL

\257\345\322\104\250\321\031\102\060\377\107\237\342\370\227\273 \315\172\214\264

END

CKA CERT MD5 HASH MULTILINE OCTAL

 $\label{eq:condition} $$ \033\061\260\161\100\066\314\024\066\221\255\304\076\375\354\030$$

END

CKA_ISSUER MULTILINE_OCTAL

 $\label{eq:condition} $$ \000\201\205\061\013\060\011\006\003\125\004\010\023\022\107\162\145\141\164\145\162\060\031\125\004\010\123\141\154\145\162\061\020\060\03\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\113\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$

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END
CKA SERIAL NUMBER
MULTILINE OCTAL
\label{eq:condition} $$ \002\020\114\252\371\312\333\143\157\340\037\367\116\330\133\003
\206\235
END
CKA TRUST SERVER AUTH CK TRUST CKT NSS TRUSTED DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA TRUST STEP UP APPROVED CK BBOOL CK FALSE
#
# Certificate "USERTrust RSA Certification Authority"
# Issuer: CN=USERTrust RSA Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New
Jersey, C=US
# Serial Number:01:fd:6d:30:fc:a3:ca:51:a8:1b:bc:64:0e:35:03:2d
# Subject: CN=USERTrust RSA Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New
Jersey, C=US
# Not Valid Before: Mon Feb 01 00:00:00 2010
# Not Valid After: Mon Jan 18 23:59:59 2038
# Fingerprint (SHA-256):
E7:93:C9:B0:2F:D8:AA:13:E2:1C:31:22:8A:CC:B0:81:19:64:3B:74:9C:89:89:64:B1:74:6D:46:C3:D4:CB:D2
Fingerprint (SHA1): 2B:8F:1B:57:33:0D:BB:A2:D0:7A:6C:51:F7:0E:E9:0D:DA:B9:AD:8E
CKA CLASS CK OBJECT CLASS CKO CERTIFICATE
CKA TOKEN CK BBOOL CK TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA MODIFIABLE CK BBOOL CK FALSE
CKA LABEL UTF8 "USERTrust RSA Certification Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA SUBJECT MULTILINE OCTAL
\060\201\210\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\023\060\021\006\003\125\004\010\023\012\116\145\167\040\112
\145\162\163\145\171\061\024\060\022\006\003\125\004\007\023\013
\112\145\162\163\145\171\040\103\151\164\171\061\036\060\034\006
\label{eq:condition} $$ \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
\122\123\101\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\210\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\023\060\021\006\003\125\004\010\023\012\116\145\167\040\112
\145\162\163\145\171\061\024\060\022\006\003\125\004\007\023\013
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\112\145\162\163\145\171\040\103\151\164\171\061\036\060\034\006

END

CKA SERIAL NUMBER

MULTILINE OCTAL

\002\020\001\375\155\060\374\243\312\121\250\033\274\144\016\065 \003\055

END

CKA_VALUE MULTILINE_OCTAL

\060\202\005\336\060\202\003\306\240\003\002\001\002\002\002\001 \375\155\060\374\243\312\121\250\033\274\144\016\065\003\055\060 $\label{eq:condition} $$ \0.015\0.06\0.011\0.052\2.06\1.10\2.06\3.67\0.15\0.01\0.01\0.01\0.01\0.0000\0.000\0.000\0.000\0.0000\0.0000\0.000\0.000\0.0000\0.0000\0.0000\0.0000\0.0000\0.0000\0.00$ \210\061\013\060\011\006\003\125\004\006\023\002\125\123\061\023 $\label{eq:condition} $$ \000\003\125\004\010\023\012\116\145\167\040\112\145\162 $$$ \163\145\171\061\024\060\022\006\003\125\004\007\023\013\112\145 \162\163\145\171\040\103\151\164\171\061\036\060\034\006\003\125 \124\040\116\145\164\167\157\162\153\061\056\060\054\006\003\125 \004\003\023\045\125\123\105\122\124\162\165\163\164\040\122\123 $\label{eq:condition} $$ 101\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040 $$$ \101\165\164\150\157\162\151\164\171\060\036\027\015\061\060\060 \062\060\061\060\060\060\060\060\060\132\027\015\063\070\060\061 \061\070\062\063\065\071\065\071\132\060\201\210\061\013\060\011 \006\003\125\004\006\023\002\125\123\061\023\060\021\006\003\125 \004\010\023\012\116\145\167\040\112\145\162\163\145\171\061\024 \103\151\164\171\061\036\060\034\006\003\125\004\012\023\025\124 \167\157\162\153\061\056\060\054\006\003\125\004\003\023\045\125 \123\105\122\124\162\165\163\164\040\122\123\101\040\103\145\162 \164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157 \162\151\164\171\060\202\002\042\060\015\006\011\052\206\110\206 \367\015\001\001\001\005\000\003\202\002\017\000\060\202\002\012 \002\202\002\001\000\200\022\145\027\066\016\303\333\010\263\320 \254\127\015\166\355\315\047\323\114\255\120\203\141\342\252\040 \115\011\055\144\011\334\316\211\237\314\075\251\354\366\317\301 \334\361\323\261\326\173\067\050\021\053\107\332\071\306\274\072 \031\264\137\246\275\175\235\243\143\102\266\166\362\251\073\053 \221\370\342\157\320\354\026\040\220\011\076\342\350\164\311\030 \264\221\324\142\144\333\177\243\006\361\210\030\152\220\042\074 \274\376\023\360\207\024\173\366\344\037\216\324\344\121\306\021 \147\106\010\121\313\206\024\124\077\274\063\376\176\154\234\377 \026\235\030\275\121\216\065\246\247\146\310\162\147\333\041\146 \261\324\233\170\003\300\120\072\350\314\360\334\274\236\114\376 \257\005\226\065\037\127\132\267\377\316\371\075\267\054\266\366

\124\335\310\347\022\072\115\256\114\212\267\134\232\264\267\040 \075\312\177\042\064\256\176\073\150\146\001\104\347\001\116\106 \123\233\063\140\367\224\276\123\067\220\163\103\363\062\303\123 \357\333\252\376\164\116\151\307\153\214\140\223\336\304\307\014 \337\341\062\256\314\223\073\121\170\225\147\213\356\075\126\376 $\label{eq:condition} $$ \014\320\151\017\033\017\363\045\046\153\063\155\367\156\107\372 $$$ \163\103\345\176\016\245\146\261\051\174\062\204\143\125\211\304 \015\301\223\124\060\031\023\254\323\175\067\247\353\135\072\154 $\label{eq:condition} $$ \065\134\333\101\327\022\332\251\111\013\337\330\200\212\011\223$ \142\216\265\146\317\045\210\315\204\270\261\077\244\071\017\331 $\label{eq:condition} $$ \022\114\225\174\363\153\005\251\136\026\203\314\270 $$$ \147\342\350\023\235\314\133\202\323\114\263\355\133\377\336\345 \163\254\043\073\055\000\277\065\125\164\011\111\330\111\130\032 $\label{eq:condition} $$ \frac{177}222\\066\\346\\121\\222\\016\\363\\046\\175\\034\\115\\027\\274\\311\\354$ $\label{eq:condition} $$ 103\046\320\277\101\137\100\251\104\104\364\231\347\127\207\236$ \120\037\127\124\250\076\375\164\143\057\261\120\145\011\346\130 \102\056\103\032\114\264\360\045\107\131\372\004\036\223\324\046 \106\112\120\201\262\336\276\170\267\374\147\025\341\311\127\204 \036\017\143\326\351\142\272\326\137\125\056\352\134\306\050\010 $\\ \\004\\045\\071\\270\\016\\053\\251\\362\\114\\227\\034\\007\\077\\015\\122\\365$ \355\357\057\202\017\002\003\001\000\001\243\102\060\100\060\035 \006\003\125\035\016\004\026\004\024\123\171\277\132\252\053\112 \317\124\200\341\330\233\300\235\362\262\003\146\313\060\016\006 \003\125\035\017\001\001\377\004\004\003\002\001\006\060\017\006 $\label{eq:condition} $$ \003\125\035\023\001\001\377\004\005\060\003\001\001\377\060\015$ \006\011\052\206\110\206\367\015\001\001\014\005\000\003\202\002 \001\000\134\324\174\015\317\367\001\175\101\231\145\014\163\305 \122\237\313\370\317\231\006\177\033\332\103\025\237\236\002\125 \127\226\024\361\122\074\047\207\224\050\355\037\072\001\067\242 \166\374\123\120\300\204\233\306\153\116\272\214\041\117\242\216 $\label{eq:condition} $$ \frac{125}142\\221\\363\\151\\025\\330\\274\\210\\343\\304\\252\\013\\375\\357\\250$ \351\113\125\052\006\040\155\125\170\051\031\356\137\060\134\113 \044\021\125\377\044\232\156\136\052\053\356\013\115\237\177\367 \001\070\224\024\225\103\007\011\373\140\251\356\034\253\022\214 \240\232\136\247\230\152\131\155\213\077\010\373\310\321\105\257 \030\025\144\220\022\017\163\050\056\305\342\044\116\374\130\354 \360\364\105\376\042\263\353\057\216\322\331\105\141\005\301\227 $\label{eq:condition} $$ \frac{157}{250}166\\162\\217\\213\\214\\066\\257\\277\\015\\005\\316\\161\\215\\346$ \246\157\037\154\246\161\142\305\330\320\203\162\014\361\147\021 \211\014\234\023\114\162\064\337\274\325\161\337\252\161\335\341 \271\154\214\074\022\135\145\332\275\127\022\266\103\153\377\345 \336\115\146\021\121\317\231\256\354\027\266\350\161\221\214\336 \111\376\335\065\161\242\025\047\224\034\317\141\343\046\273\157 \243\147\045\041\135\346\335\035\013\056\150\033\073\202\257\354 \203\147\205\324\230\121\164\261\271\231\200\211\377\177\170\031 \134\171\112\140\056\222\100\256\114\067\052\054\311\307\142\310 \016\135\367\066\133\312\340\045\001\264\335\032\007\234\167 $\label{eq:condition} $$ \000\077\320\334\325\354\075\324\372\273\077\314\205\326\157\177$

 $\label{eq:control_control_control_control_control} $$ \251\050\236\043\216\377\134\047\153\341\260\117\363\007\356\000\056\324\131\207\313\122\101\225\352\364\107\327\356\144\101\125\174\215\131\002\225\335\142\235\302\271\356\132\050\164\204\245\233\267\220\307\014\007\337\365\211\066\164\062\326\050\301\260\260\013\340\234\114\303\034\326\374\343\151\265\107\106\201\057\242\202\253\323\143\104\160\304\215\377\055\063\272\255\217\173\265\160\210\256\076\031\317\100\050\330\374\310\220\273\135\231\042\365\122\346\130\305\037\210\061\103\356\210\035\327\306\216\074\103\152\035\247\030\336\175\075\026\361\142\371\312\220\250\375$

END

CKA_NSS_MOZILLA_CA_POLICY

CK_BBOOL CK_TRUE

CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE

CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "USERTrust RSA Certification

Authority"

Issuer: CN=USERTrust RSA Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New Jersey,C=US

Serial Number:01:fd:6d:30:fc:a3:ca:51:a8:1b:bc:64:0e:35:03:2d

Subject: CN=USERTrust RSA Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New Jersey,C=US

Not Valid Before: Mon Feb 01 00:00:00 2010

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

Fingerprint (SHA-256):

Fingerprint (SHA1): 2B:8F:1B:57:33:0D:BB:A2:D0:7A:6C:51:F7:0E:E9:0D:DA:B9:AD:8E

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "USERTrust RSA Certification Authority"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL

 $\label{eq:condition} $$ \053\217\033\127\063\015\273\242\320\172\154\121\367\016\351\015$$

332 271 255 216

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL

 $\label{eq:condition} $$ \033\376\151\321\221\267\031\063\243\162\250\017\341\125\345\265$$

END

CKA_ISSUER

MULTILINE_OCTAL

 $\label{eq:condition} $$ \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

 $\label{eq:condition} $$ \003\125\004\012\023\025\124\150\145\040\125\123\105\122\124\122$

```
\125\123\124\040\116\145\164\167\157\162\153\061\056\060\054\006
\003\125\004\003\023\045\125\123\105\122\124\162\165\163\164\040
\122\123\101\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\001\375\155\060\374\243\312\121\250\033\274\144\016\065
\003\055
END
CKA TRUST SERVER AUTH CK TRUST CKT NSS TRUSTED DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA TRUST STEP UP APPROVED CK BBOOL CK FALSE
#
# Certificate "USERTrust ECC Certification Authority"
# Issuer: CN=USERTrust
ECC Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New Jersey,C=US
# Serial Number:5c:8b:99:c5:5a:94:c5:d2:71:56:de:cd:89:80:cc:26
# Subject: CN=USERTrust ECC Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New
Jersey, C=US
# Not Valid Before: Mon Feb 01 00:00:00 2010
# Not Valid After: Mon Jan 18 23:59:59 2038
# Fingerprint (SHA-256):
4F:F4:60:D5:4B:9C:86:DA:BF:BC:FC:57:12:E0:40:0D:2B:ED:3F:BC:4D:4F:BD:AA:86:E0:6A:DC:D2:A9:AD:7A
# Fingerprint (SHA1): D1:CB:CA:5D:B2:D5:2A:7F:69:3B:67:4D:E5:F0:5A:1D:0C:95:7D:F0
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA TOKEN CK BBOOL CK TRUE
CKA PRIVATE CK BBOOL CK FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA LABEL UTF8 "USERTrust ECC Certification Authority"
CKA CERTIFICATE TYPE CK CERTIFICATE TYPE CKC X 509
CKA SUBJECT MULTILINE OCTAL
\060\201\210\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\023\060\021\006\003\125\004\010\023\012\116\145\167\040\112
\145\162\163\145\171\061\024\060\022\006\003\125\004\007\023\013
\112\145\162\163\145\171\040\103\151\164\171\061\036\060\034\006
\label{eq:condition} $$ \003\125\004\012\023\025\124\150\145\040\125\123\105\122\124\122
\125\123\124\040\116\145\164\167\157\162\153\061\056\060\054\006
\003\125\004\003\023\045\125\123\105\122\124\162\165\163\164\040
\105\103\103\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171
END
CKA ID
UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\210\061\013\060\011\006\003\125\004\006\023\002\125\123
```

 $\label{eq:control_loss} $$ \004\0021\006\003\125\004\001\2\116\145\167\040\112\145\162\163\145\171\061\024\060\022\006\003\125\004\007\023\013\112\145\162\163\145\171\040\103\151\164\171\061\036\060\034\006\003\125\004\012\023\025\124\150\145\040\125\123\105\122\124\122\125\123\124\040\116\145\164\167\157\162\153\061\056\060\054\006\003\125\004\003\023\045\125\123\105\122\124\162\165\163\164\040\105\103\103\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171$

END

CKA SERIAL NUMBER

MULTILINE_OCTAL

\002\020\134\213\231\305\132\224\305\322\161\126\336\315\211\200 \314\046

END

CKA_VALUE MULTILINE_OCTAL

\060\202\002\217\060\202\002\025\240\003\002\001\002\002\020\134 \213\231\305\132\224\305\322\161\126\336\315\211\200\314\046\060 \012\006\010\052\206\110\316\075\004\003\003\060\201\210\061\013 \060\011\006\003\125\004\006\023\002\125\123\061\023\060\021\006 $\label{eq:condition} $$ \003\125\004\010\023\012\116\145\167\040\112\145\162\163\145\171 $$$ \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 \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 \003\125\004\007\023\013\112\145\162\163\145\171\040\103\151\164 \171\061\036\060\034\006\003\125\004\012\023\025\124\150\145\040 \125\123\105\122\124\122\125\123\124\040\116\145\164\167\157\162 \153\061\056\060\054\006\003\125\004\003\023\045\125\123\105\122 \124\162\165\163\164\040\105\103\103\040\103\145\162\164\151\146 \151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164 \171\060\166\060\020\006\007\052\206\110\316\075\002\001\006\005 $\label{eq:condition} $$ \053\201\004\000\042\003\142\000\004\032\254\124\132\251\371\150 $$$ \043\347\172\325\044\157\123\306\132\330\113\253\306\325\266\321 \346\163\161\256\335\234\326\014\141\375\333\240\211\003\270\005 \024\354\127\316\356\135\077\342\041\263\316\367\324\212\171\340 \243\203\176\055\227\320\141\304\361\231\334\045\221\143\253\177 \060\243\264\160\342\307\241\063\234\363\277\056\134\123\261\137 \263\175\062\177\212\064\343\171\171\243\102\060\100\060\035\006 \003\125\035\016\004\026\004\024\072\341\011\206\324\317\031\302 \226\166\164\111\166\334\340\065\306\143\143\232\060\016\006\003 \125\035\017\001\001\377\004\004\003\002\001\006\060\017\006\003

 $\label{eq:control} $$ 125\035\023\001\001\377\004\005\060\003\0003\0001\001\377\060\012\006\010\052\206\110\316\075\004\0003\0003\0003\150\0000\060\145\0002\060\066\147\241\002\001\1144\240\235\224\071\002\021\171\134\173\035\372\144\271\356\026\102\263\277\212\302\011\304\354\344\261\115\002\061\000\351\052\141\107\214\122\112\113\116\030\160\366\326\104\326\156\365\203\272\155\130\275\044\331\126\110\352\357\304\242\106\201\210\152\072\106\321\251\233\115\311\141\332\321\135\127\152\030$

END

CKA_NSS_MOZILLA_CA_POLICY

CK_BBOOL CK_TRUE

CKA_NSS_SERVER_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
- ${\tt\#Subject: CN=USERTrust\ ECC\ Certification\ Authority, O=The\ USERTRUST\ Network, L=Jersey\ City, ST=New\ Jersey, C=US}$
- # Not Valid Before: Mon Feb 01 00:00:00 2010
- # Not Valid After: Mon Jan 18 23:59:59 2038
- # Fingerprint (SHA-256):
- 4F:F4:60:D5:4B:9C:86:DA:BF:BC:FC:57:12:E0:40:0D:2B:ED:3F:BC:4D:4F:BD:AA:86:E0:6A:DC:D2:A9:AD:7A
- # Fingerprint (SHA1): D1:CB:CA:5D:B2:D5:2A:7F:69:3B:67:4D:E5:F0:5A:1D:0C:95:7D:F0

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

CKA TOKEN CK BBOOL CK TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "USERTrust ECC Certification Authority"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL

\321\313\312\135\262\325\052\177\151\073\147\115\345\360\132\035

\014\225\175\360

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL

\372\150\274\331\265\177\255\375\311\035\006\203\050\314\044\301

END

CKA_ISSUER

MULTILINE_OCTAL

 $\label{eq:condition} $$ \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

\112\145\162\163\145\171\040\103\151\164\171\061\036\060\034\006

 $\label{eq:condition} $$ \003\125\004\012\023\025\124\150\145\040\125\123\105\122\124\122$

```
\105\103\103\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\label{eq:condition} $$ \002\020\134\213\231\305\132\224\305\322\161\126\336\315\211\200 $$
\314\046
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA TRUST CODE SIGNING CK TRUST CKT NSS MUST VERIFY TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
# Certificate "GlobalSign ECC Root CA - R5"
# Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign
ECC Root CA - R5
# Serial Number:60:59:49:e0:26:2e:bb:55:f9:0a:77:8a:71:f9:4a:d8:6c
# Subject: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R5
# Not Valid Before: Tue Nov 13 00:00:00 2012
# Not Valid After: Tue Jan 19 03:14:07 2038
# Fingerprint (SHA-256):
17:9F:BC:14:8A:3D:D0:0F:D2:4E:A1:34:58:CC:43:BF:A7:F5:9C:81:82:D7:83:A5:13:F6:EB:EC:10:0C:89:24
# Fingerprint (SHA1): 1F:24:C6:30:CD:A4:18:EF:20:69:FF:AD:4F:DD:5F:46:3A:1B:69:AA
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA TOKEN CK BBOOL CK TRUE
CKA PRIVATE CK BBOOL CK FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA LABEL UTF8 "GlobalSign ECC Root CA - R5"
CKA CERTIFICATE TYPE CK CERTIFICATE TYPE CKC X 509
CKA_SUBJECT MULTILINE_OCTAL
\060\120\061\044\060\042\006\003\125\004\013\023\033\107\154\157
\142\141\154\123\151\147\156\040\105\103\103\040\122\157\157\164
\040\103\101\040\055\040\122\065\061\023\060\021\006\003\125\004
\012\023\012\107\154\157\142\141\154\123\151\147\156\061\023\060
\021\006\003\125\004\003\023\012\107\154\157\142\141\154\123\151
\147\156
END
CKA ID
UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\label{eq:condition} $$ \000120\061\044\060\042\006\003\125\004\013\023\033\107\154\157 $$
\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

 $\label{eq:condition} $$ \002\021\140\131\111\340\046\056\273\125\371\012\167\212\161\371\112\330\154$

END

CKA_VALUE MULTILINE_OCTAL

 $\label{eq:condition} $$ \060\202\003\002\001\002\001\002\002\1\140 $$$ \131\111\340\046\056\273\125\371\012\167\212\161\371\112\330\154 \060\012\006\010\052\206\110\316\075\004\003\003\060\120\061\044 \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 \004\003\023\012\107\154\157\142\141\154\123\151\147\156\060\036 $\label{eq:condition} $$ \027\015\061\062\061\061\063\060\060\060\060\060\060\132\027 $$$ $\label{eq:condition} $$ \0.063\0.063\0.063\0.064\0.067\1.32\0.060\1.20 $$$ \061\044\060\042\006\003\125\004\013\023\033\107\154\157\142\141 $\label{eq:condition} $$ \frac{154}123\frac{151}147\frac{156}040\frac{105}103\frac{103}040\frac{122}157\frac{157}164\sqrt{040}103}{103} $$$ \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 $\label{eq:condition} $$ \frac{351}{071}\frac{321}{041}\frac{370}{237}\frac{236}{325}\frac{325}{173}\frac{36}{222}\frac{110}{131}\frac{34}{036} $$$ \360\142\061\055\300\172\050\376\032\247\134\263\266\314\227\347 $\label{eq:condition} $$ 105\324\130\372\321\167\155\103\242\300\207\145\064\012\037\172$ \335\353\074\063\241\305\235\115\244\157\101\225\070\177\311\036 \204\353\321\236\111\222\207\224\207\014\072\205\112\146\237\235 \131\223\115\227\141\006\206\112\243\102\060\100\060\016\006\003 \125\035\017\001\001\377\004\004\003\002\001\006\060\017\006\003 \125\035\023\001\001\377\004\005\060\003\001\001\377\060\035\006 $\label{eq:condition} $$ \03\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"

#

```
# 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
\label{eq:condition} $$ \037\044\306\060\315\244\030\357\040\151\377\255\117\335\137\106 $$
\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
\label{eq:condition} $$ \000\120\061\044\060\042\006\003\125\004\013\023\033\107\154\157 $$
\\ 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
\label{eq:condition} $$ \002\021\140\131\111\340\046\056\273\125\371\012\167\212\161\371 $$
\112\330\154
END
CKA TRUST SERVER AUTH CK TRUST CKT NSS TRUSTED DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
# Certificate "Staat der Nederlanden Root CA - G3"
# Issuer: CN=Staat der Nederlanden Root CA - G3,O=Staat der Nederlanden,C=NL
# Serial Number: 10003001 (0x98a239)
# Subject: CN=Staat der Nederlanden Root CA - G3,O=Staat der Nederlanden,C=NL
# Not Valid Before: Thu Nov 14 11:28:42 2013
# Not Valid After: Mon Nov 13 23:00:00 2028
# Fingerprint (SHA-256):
3C:4F:B0:B9:5A:B8:B3:00:32:F4:32:B8:6F:53:5F:E1:72:C1:85:D0:FD:39:86:58:37:CF:36:18:7F:A6:F4:28
```

Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R5

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{lem:condition} $$ \000132\001\006\003\125\004\000\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\040\144\145\162\040\116\145\144\145\162\154\141\156\144\145\156\040\122\157\157\164\040\103\101\040\055\040\107\063$

END

CKA ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

END

CKA SERIAL NUMBER

MULTILINE OCTAL

 $\verb|002|004|000|230|242|071|$

END

CKA_VALUE MULTILINE_OCTAL

 $\label{eq:condition} $$ \060\202\005\164\060\202\003\134\240\003\002\001\002\002\004\000 $$$ \230\242\071\060\015\006\011\052\206\110\206\367\015\001\001\013 \005\000\060\132\061\013\060\011\006\003\125\004\006\023\002\116 \114\061\036\060\034\006\003\125\004\012\014\025\123\164\141\141 \164\040\144\145\162\040\116\145\144\145\162\154\141\156\144\145 \156\061\053\060\051\006\003\125\004\003\014\042\123\164\141\141 \164\040\144\145\162\040\116\145\144\145\162\154\141\156\144\145 \156\040\122\157\157\164\040\103\101\040\055\040\107\063\060\036 \061\013\060\011\006\003\125\004\006\023\002\116\114\061\036\060 $\label{eq:condition} $$ \034\006\003\125\004\012\014\025\123\164\141\141\164\040\144\145$$ \162\040\116\145\144\145\162\154\141\156\144\145\156\061\053\060 \051\006\003\125\004\003\014\042\123\164\141\141\164\040\144\145 \162\040\116\145\144\145\162\154\141\156\144\145\156\040\122\157 \157\164\040\103\101\040\055\040\107\063\060\202\002\042\060\015 \006\011\052\206\110\206\367\015\001\001\001\005\000\003\202\002 \017\000\060\202\002\012\002\202\002\001\000\276\062\242\124\017

\160\373\054\134\131\353\154\304\244\121\350\205\052\263\314\112 \064\362\260\137\363\016\307\034\075\123\036\210\010\150\330\157 \075\255\302\236\314\202\147\007\047\207\150\161\072\237\165\226 \042\106\005\260\355\255\307\133\236\052\336\234\374\072\306\225 \247\365\027\147\030\347\057\111\010\014\134\317\346\314\064\355 \170\373\120\261\334\153\062\360\242\376\266\074\344\354\132\227 \307\077\036\160\010\060\240\334\305\263\155\157\320\202\162\021 \253\322\201\150\131\202\027\267\170\222\140\372\314\336\077\204 $\label{eq:condition} $$ \frac{353}{215}070\\063\\220\\012\\162\\043\\372\\065\\314\\046\\161\\061\\321\\162$ \050\222\331\133\043\155\146\265\155\007\102\353\246\063\316\222 \333\300\366\154\143\170\315\312\116\075\265\345\122\233\361\276 $\label{eq:condition} $$ \073\346\124\140\260\146\036\011\253\007\376\124\211\021\102\321 $$$ \367\044\272\140\170\032\230\367\311\021\375\026\301\065\032\124 $\label{eq:condition} $$ 165\357\103\323\345\256\116\316\347\173\303\306\116\141\121\113$ $\label{eq:condition} $$ \253\232\105\113\241\037\101\275\110\123\025\161\144\013\206\263$ \345\056\276\316\244\033\301\051\204\242\265\313\010\043\166\103 $\\ \\ 042\\ 044\\ 037\\ 027\\ 004\\ 324\\ 156\\ 234\\ 306\\ 374\\ 177\\ 053\\ 146\\ 032\\ 354\\ 212$ \345\326\317\115\365\143\011\267\025\071\326\173\254\353\343\174 \351\116\374\165\102\310\355\130\225\014\006\102\242\234\367\344 \160\263\337\162\157\132\067\100\211\330\205\244\327\361\013\336 \103\031\324\112\130\054\214\212\071\236\277\204\207\361\026\073 \066\014\351\323\264\312\154\031\101\122\011\241\035\260\152\277 $\label{eq:condition} $$ \202\357\160\121\041\062\334\005\166\214\313\367\144\344\003\120 $$$ \257\214\221\147\253\305\362\356\130\330\336\276\367\347\061\317 \154\311\073\161\301\325\210\265\145\274\300\350\027\027\007\022 \265\134\322\253\040\223\264\346\202\203\160\066\305\315\243\215 \255\213\354\243\301\103\207\346\103\342\064\276\225\213\065\355 $\label{eq:condition} $$ \007\071\332\250\035\172\237\066\236\022\260\014\145\022\220\025$ \140\331\046\100\104\343\126\140\245\020\324\152\074\375\101\334 \016\132\107\266\357\227\141\165\117\331\376\307\262\035\324\355 \135\111\263\251\152\313\146\204\023\325\134\240\334\337\156\167 \006\321\161\165\310\127\157\257\017\167\133\002\003\001\000\001 \243\102\060\100\060\017\006\003\125\035\023\001\001\377\004\005 \060\003\001\001\377\060\016\006\003\125\035\017\001\001\377\004 \004\003\002\001\006\060\035\006\003\125\035\016\004\026\004\024 \124\255\372\307\222\127\256\312\065\234\056\022\373\344\272\135 \040\334\224\127\060\015\006\011\052\206\110\206\367\015\001\001 \013\005\000\003\202\002\001\000\060\231\235\005\062\310\136\016 $\label{eq:condition} $$ \073\230\001\072\212\244\347\007\367\172\370\347\232\337\120\103$ \123\227\052\075\312\074\107\230\056\341\025\173\361\222\363\141 \332\220\045\026\145\300\237\124\135\016\003\073\133\167\002\234 \204\266\015\230\137\064\335\073\143\302\303\050\201\302\234\051 \056\051\342\310\303\001\362\063\352\052\252\314\011\010\367\145 \147\306\315\337\323\266\053\247\275\314\321\016\160\137\270\043 \321\313\221\116\012\364\310\172\345\331\143\066\301\324\337\374 \042\227\367\140\135\352\051\057\130\262\275\130\275\215\226\117 $\label{eq:condition} $$ \020\165\277\110\173\075\121\207\241\074\164\042\302\374\007\177$ \200\334\304\254\376\152\301\160\060\260\351\216\151\342\054\151

\201\224\011\272\335\376\115\300\203\214\224\130\300\106\040\257 \234\037\002\370\065\125\111\057\106\324\300\360\240\226\002\017 \063\305\161\363\236\043\175\224\267\375\072\323\011\203\006\041 \375\140\075\256\062\300\322\356\215\246\360\347\264\202\174\012 \314\160\311\171\200\370\376\114\367\065\204\031\212\061\373\012 \331\327\177\233\360\242\232\153\303\005\112\355\101\140\024\060 \321\252\021\102\156\323\043\002\004\013\306\145\335\335\122\167 $\label{eq:condition} $$ 32\201\153\262\250\372\001\070\271\226\352\052\154\147\227\211 $$$ \224\236\274\341\124\325\344\152\170\357\112\275\053\232\075\100 \176\306\300\165\322\156\373\150\060\354\354\213\235\371\111\065 \232\032\054\331\263\225\071\325\036\222\367\246\271\145\057\345 $\label{eq:condition} $$ \075\155\072\110\114\010\334\344\050\022\050\276\175\065\134\352 $$$ \340\026\176\023\033\152\327\076\327\236\374\055\165\262\301\024 \325\043\003\333\133\157\013\076\170\057\015\336\063\215\026\267 $\label{eq:condition} $$ \frac{347}{203}\frac{232}{201}\frac{17173}{301}\frac{115}{125}\frac{004}{027}\frac{112}{121} $$ \325\131\242\211\164\323\237\276\036\113\327\306\155\267\210\044 \157\140\221\244\202\205\133\126\101\274\320\104\253\152\023\276 \321\054\130\267\022\063\130\262\067\143\334\023\365\224\035\077 \100\121\365\117\365\072\355\310\305\353\302\036\035\026\225\172 $\label{eq:condition} $$ 307\176\102\161\223\156\113\025\267\060\337\252\355\127\205\110 $$$ \254\035\152\335\071\151\344\341\171\170\276\316\005\277\241\014 $\label{eq:condition} $$ 367 \ 200 \ 173 \ 041 \ 147 \ 047 \ 060 \ 131 $$$

END

CKA NSS MOZILLA CA POLICY

CK_BBOOL CK_TRUE

 ${\tt CKA_NSS_SERVER_DISTRUST_AFTER\ CK_BBOOL\ CK_FALSE\ CKA_NSS_EMAIL_DISTRUST_AFTER\ CK_BBOOL\ CK_FALSE\ }$

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

 $\label{eq:condition} $$ \013\106\147\007\333\020\057\031\214\065\120\140\321\013\364\067 $$$

```
END
CKA ISSUER
MULTILINE OCTAL
\label{eq:condition} $$ \036\060\034\006\003\125\004\012\014\025\123\164\141\141\164\040 $$
\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 "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
\label{eq:condition} $$ \022\060\020\006\003\125\004\012\023\011\111\144\145\156\124\162
\165\163\164\061\047\060\045\006\003\125\004\003\023\036\111\144
\145\156\124\162\165\163\164\040\103\157\155\155\145\162\143\151
\141\154\040\122\157\157\164\040\103\101\040\061
END
CKA_ID UTF8 "0"
```

\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

CKA_ISSUER MULTILINE_OCTAL

\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\000\000

END

CKA_VALUE MULTILINE_OCTAL

\060\202\005\140\060\202\003\110\240\003\002\001\002\002\002\012 \001\102\200\000\000\001\105\043\310\104\265\000\000\000\000\002\060 $\label{eq:condition} $$ \0.015\0.06\0.01\0.05\0.00\0.060\0.015\0.001\0.01\0.01\0.05\0.00\0.060\0.112 $$$ \061\013\060\011\006\003\125\004\006\023\002\125\123\061\022\060 $\label{eq:condition} $$ \000\003\125\004\012\023\011\111\144\145\156\124\162\165\163$$ $\label{eq:condition} $$ 164\061\047\060\045\006\003\125\004\003\023\036\111\144\145\156$$ \124\162\165\163\164\040\103\157\155\155\145\162\143\151\141\154 $\label{eq:condition} $$ \040\122\157\157\164\040\103\101\040\061\060\036\027\015\061\064 $$$ \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 $\label{eq:condition} $$ \006\003\125\004\006\023\002\125\123\061\022\060\020\006\003\125$ \004\012\023\011\111\144\145\156\124\162\165\163\164\061\047\060 \045\006\003\125\004\003\023\036\111\144\145\156\124\162\165\163 $\\ 164 \\ 040 \\ 103 \\ 157 \\ 155 \\ 155 \\ 145 \\ 162 \\ 143 \\ 151 \\ 141 \\ 154 \\ 040 \\ 122 \\ 157 \\ 157 \\$ \164\040\103\101\040\061\060\202\002\042\060\015\006\011\052\206 \110\206\367\015\001\001\001\005\000\003\202\002\017\000\060\202 \002\012\002\202\002\001\000\247\120\031\336\077\231\075\324\063 \106\361\157\121\141\202\262\251\117\217\147\211\135\204\331\123 \335\014\050\331\327\360\377\256\225\103\162\231\371\265\135\174 \212\301\102\341\061\120\164\321\201\015\174\315\233\041\253\103 \342\254\255\136\206\156\363\011\212\037\132\062\275\242\353\224 \371\350\134\012\354\377\230\322\257\161\263\264\123\237\116\207 \357\222\274\275\354\117\062\060\210\113\027\136\127\304\123\302 \366\002\227\215\331\142\053\277\044\037\142\215\337\303\270\051 \113\111\170\074\223\140\210\042\374\231\332\066\310\302\242\324 \054\124\000\147\065\156\163\277\002\130\360\244\335\345\260\242 \046\172\312\340\066\245\031\026\365\375\267\357\256\077\100\365 \155\132\004\375\316\064\312\044\334\164\043\033\135\063\023\022 \135\304\001\045\366\060\335\002\135\237\340\325\107\275\264\353 $\label{eq:condition} $$ \03\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 \016\067\351\037\241\016\152\337\142\056\313\065\006\121\171\054 \310\045\070\364\372\113\247\211\134\234\322\343\015\071\206\112

\164\174\325\131\207\302\077\116\014\134\122\364\075\367\122\202 \361\352\243\254\375\111\064\032\050\363\101\210\072\023\356\350 \336\377\231\035\137\272\313\350\036\362\271\120\140\300\061\323 \163\345\357\276\240\355\063\013\164\276\040\040\304\147\154\360 \010\003\172\125\200\177\106\116\226\247\364\036\076\341\366\330 $\label{eq:condition} $$ \011\341\063\144\053\143\327\062\136\237\371\300\173\017\170\157$ \227\274\223\232\371\234\022\220\170\172\200\207\025\327\162\164 \234\125\164\170\261\272\341\156\160\004\272\117\240\272\150\303 $\label{eq:condition} $$ \frac{377}{061}\frac{360}{163}\frac{075}{075}\frac{224}{052}\frac{1013}{101}\frac{101}{016}\frac{240}{376}\frac{115}{115}$ \210\145\153\171\063\264\327\002\003\001\000\001\243\102\060\100 \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 $\label{eq:condition} $$ \006\011\052\206\110\206\367\015\001\001\013\005\000\003$ \202\002\001\000\015\256\220\062\366\246\113\174\104\166\031\141 $\label{eq:condition} $$ \036\047\050\315\136\124\357\045\274\343\010\220\371\051\327\256$$ \150\010\341\224\000\130\357\056\056\176\123\122\214\266\134\007 \352\210\272\231\213\120\224\327\202\200\337\141\011\000\223\255 $\label{eq:condition} $$ \015\024\346\316\301\362\067\224\170\260\137\234\263\242\163\270 $$$ \217\005\223\070\315\215\076\260\270\373\300\317\261\362\354\055 \055\033\314\354\252\232\263\252\140\202\033\055\073\303\204\075 $\label{eq:condition} $$ 127\212\226\036\234\165\270\323\060\315\140\010\203\220\323\216$$ \124\361\115\146\300\135\164\003\100\243\356\205\176\302\037\167 \234\006\350\301\247\030\135\122\225\355\311\335\045\236\155\372 \251\355\243\072\064\320\131\173\332\355\120\363\065\277\355\353 \024\115\061\307\140\364\332\361\207\234\342\110\342\306\305\067 $\label{eq:condition} $$ 373\006\020\372\165\131\146\061\107\051\332\166\232\034\351\202$ \256\357\232\271\121\367\210\043\232\151\225\142\074\345\125\200 \066\327\124\002\377\361\271\135\316\324\043\157\330\105\204\112 $\label{eq:condition} $$ 133\145\357\211\014\335\024\247\040\313\030\245\045\264\015\371$ \001\360\242\322\364\000\310\164\216\241\052\110\216\145\333\023 \304\342\045\027\175\353\276\207\133\027\040\124\121\223\112\123 \003\013\354\135\312\063\355\142\375\105\307\057\133\334\130\240 \200\071\346\372\327\376\023\024\246\355\075\224\112\102\164\324 \303\167\131\163\315\217\106\276\125\070\357\372\350\221\062\352 $\verb|\|227|130|004|042|336|070|303|314|274|155|311|063|072|152|012|151|$ $\label{eq:condition} $$ \077\240\310\352\162\217\214\143\206\043\275\155\074\226\236\225$$ \340\111\114\252\242\271\052\033\234\066\201\170\355\303\350\106 \342\046\131\104\165\036\331\165\211\121\315\020\204\235\141\140 \313\135\371\227\042\115\216\230\346\343\177\366\133\273\256\315 \312\112\201\153\136\013\363\121\341\164\053\351\176\047\247\331 \231\111\116\370\245\200\333\045\017\034\143\142\212\311\063\147 \153\074\020\203\306\255\336\250\315\026\216\215\360\007\067\161 \237\362\253\374\101\365\301\213\354\000\067\135\011\345\116\200 \357\372\261\134\070\006\245\033\112\341\334\070\055\074\334\253 $\label{eq:condition} $$ \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
\label{eq:condition} $$ \060\11\006\003\125\004\006\023\002\125\123\061 $$
\022\060\020\006\003\125\004\012\023\011\111\144\145\156\124\162
\165\163\164\061\047\060\045\006\003\125\004\003\023\036\111\144
\145\156\124\162\165\163\164\040\103\157\155\155\145\162\143\151
\141\154\040\122\157\157\164\040\103\101\040\061
END
CKA SERIAL NUMBER MULTILINE OCTAL
\002\020\012\001\102\200\000\000\001\105\043\310\104\265\000\000
\000\002
END
```

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

#

Certificate "IdenTrust Public Sector Root CA 1"

#

- # Issuer: CN=IdenTrust Public Sector Root CA 1,O=IdenTrust,C=US
- # Serial Number:0a:01:42:80:00:00:01:45:23:cf:46:7c:00:00:00:02
- # Subject: CN=IdenTrust Public Sector Root CA 1,O=IdenTrust,C=US
- # Not Valid Before: Thu Jan 16 17:53:32 2014
- # Not Valid

After: Mon Jan 16 17:53:32 2034

Fingerprint (SHA-256):

30:D0:89:5A:9A:44:8A:26:20:91:63:55:22:D1:F5:20:10:B5:86:7A:CA:E1:2C:78:EF:95:8F:D4:F4:38:9F:2F

Fingerprint (SHA1): BA:29:41:60:77:98:3F:F4:F3:EF:F2:31:05:3B:2E:EA:6D:4D:45:FD

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA MODIFIABLE CK BBOOL CK FALSE

CKA_LABEL UTF8 "IdenTrust Public Sector Root CA 1"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA SUBJECT MULTILINE OCTAL

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

\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

 $\label{eq:condition} $$ \frac{145\\156\\124\\162\\165\\163\\164\\040\\120\\165\\142\\154\\151\\143\\040\\123$

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

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

\060\115\061\013\060\011\006\003\125\004\006\023\002\125\123\061

\022\060\020\006\003\125\004\012\023\011\111\144\145\156\124\162

\165\163\164\061\052\060\050\006\003\125\004\003\023\041\111\144

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

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

END

CKA_SERIAL_NUMBER

MULTILINE_OCTAL

\002\020\012\001\102\200\000\000\001\105\043\317\106\174\000\000\000\0002

END

CKA VALUE MULTILINE OCTAL

\061\052\060\050\006\003\125\004\003\023\041\111\144\145\156\124 \162\165\163\164\040\120\165\142\154\151\143\040\123\145\143\164 \157\162\040\122\157\157\164\040\103\101\040\061\060\202\002\042 $\label{eq:condition} $$ \006\011\052\206\110\206\367\015\001\001\001\005\000\003$ \202\002\017\000\060\202\002\012\002\202\002\001\000\266\042\224 $\label{eq:condition} $\374\244\110\257\350\107\153\012\373\047\166\344\362\077\212\073$ \172\112\054\061\052\214\215\260\251\303\061\153\250\167\166\204 \046\266\254\201\102\015\010\353\125\130\273\172\370\274\145\175 $\label{eq:condition} $$ \362\240\155\213\250\107\351\142\166\036\021\356\010\024\321\262$ \104\026\364\352\320\372\036\057\136\333\313\163\101\256\274\000 \260\112\053\100\262\254\341\073\113\302\055\235\344\241\233\354 $\label{eq:condition} $$ \032\072\036\360\010\263\320\344\044\065\007\237\234\264\311\122$ \155\333\007\312\217\265\133\360\203\363\117\307\055\245\310\255 \313\225\040\244\061\050\127\130\132\344\215\033\232\253\236\015 $\label{eq:condition} $$ \014\362\012\063\071\042\071\012\227\056\363\123\167\271\104\105 $$$ \375\204\313\066\040\201\131\055\232\157\155\110\110\141\312\114 $\label{eq:condition} $$ \frac{337}{123}\frac{321}{257}\frac{274}{104}\frac{237}{253}\frac{057}{153}\frac{203}{162}\frac{357}{165}\frac{200}{200} $$$ \332\006\063\033\135\310\332\143\306\115\315\254\146\061\315\321 \336\076\207\020\066\341\271\244\172\357\140\120\262\313\312\246 $\label{eq:condition} $$ \frac{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 $\label{eq:condition} $$ \frac{314\360\025\306\053\336\121\027\261\227\114\120\075\261\225\131}{227\114\120\075\261\225\131} $$$ \174\005\175\055\041\325\000\277\001\147\242\136\173\246\134\362 \367\042\361\220\015\223\333\252\104\121\146\314\175\166\003\353 \152\250\052\070\031\227\166\015\153\212\141\371\274\366\356\166 \375\160\053\335\051\074\370\012\036\133\102\034\213\126\057\125 $\label{eq:condition} $$ \033\034\241\056\265\307\026\346\370\252\074\222\216\151\266\001$$ \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 $\label{eq:condition} $$ 331\370\327\162\333\034\274\155\275\145\137\357\210\065\052\146$$ \057\356\366\263\145\360\063\215\174\230\101\151\106\017\103\034 \151\372\233\265\320\141\152\315\312\113\331\114\220\106\253\025 \131\241\107\124\051\056\203\050\137\034\302\242\253\162\027\000 \006\216\105\354\213\342\063\075\177\332\031\104\344\142\162\303 \337\042\306\362\126\324\335\137\225\162\355\155\137\367\110\003 \133\375\305\052\240\366\163\043\204\020\033\001\347\002\003\001 $\label{eq:condition} $$ \000\001\243\102\060\100\060\016\006\003\125\035\017\001\001\377 $$$ $\label{eq:condition} $$ \004\004\003\002\001\006\060\017\006\003\125\035\023\001\001\377 $$$ $\\ \\004\\\\005\\\\006\\\\003\\\\001\\\\001\\\\377\\\\060\\\\035\\\\006\\\\003\\\\125\\\\035\\\\016\\\\004\\\\026$ \004\024\343\161\340\236\330\247\102\331\333\161\221\153\224\223 \353\303\243\321\024\243\060\015\006\011\052\206\110\206\367\015 $\label{eq:condition} $$ \001\01\013\005\000\003\202\002\001\000\107\372\335\012\260\021 $$$ \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 $\label{eq:condition} $$ \025\344\036\011\152\075\063\363\041\232\346\025\176\255\121\325$

\015\020\355\175\102\300\217\356\300\232\010\325\101\326\134\016 \041\151\156\200\141\016\025\300\270\317\305\111\022\122\314\276 $\label{eq:condition} $$ \072\314\324\056\070\005\336\065\375\037\157\270\200\150\230\075$ \115\240\312\100\145\322\163\174\365\213\331\012\225\077\330\077 $\label{eq:condition} $$ \043\155\032\321\052\044\031\331\205\263\027\357\170\156\251\130 $$$ \321\043\323\307\023\355\162\045\177\135\261\163\160\320\177\006 \227\011\204\051\200\141\035\372\136\377\163\254\240\343\211\270 $\label{eq:condition} $$ \034\161\025\306\336\061\177\022\334\341\155\233\257\347\350\237$ $\label{eq:condition} $$ 165\170\114\253\106\073\232\316\277\005\030\135\115\025\074\026$ \232\031\120\004\232\262\232\157\145\213\122\137\074\130\004\050 \045\300\146\141\061\176\271\340\165\271\032\250\201\326\162\027 \263\305\003\061\065\021\170\170\242\340\351\060\214\177\200\337 \130\337\074\272\047\226\342\200\064\155\343\230\323\144\047\254 \110\176\050\167\134\306\045\141\045\370\205\014\145\372\304\062 $\label{eq:condition} $$ \057\245\230\005\344\370\013\147\026\026\306\202\270\062\031\371 $$$ \371\271\171\334\037\315\353\257\253\016\335\033\333\105\344\172 $\label{eq:condition} $$ 347\002\342\225\135\374\151\360\123\151\141\225\165\171\013\136 $$$ \125\346\070\034\224\251\131\063\236\310\161\164\171\177\121\211 \266\310\152\270\060\310\152\070\303\156\236\341\067\026\352\005 \142\114\133\022\107\355\247\264\263\130\126\307\111\363\177\022 \150\011\061\161\360\155\370\116\107\373\326\205\356\305\130\100 $\label{eq:condition} $$ \031\244\035\247\371\113\103\067\334\150\132\117\317\353\302\144 $$$ $\label{eq:condition} $$ 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"
```

CKA_CLASS CK_OBJECT_CLASS 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"

[#] 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

 $^{{\}tt \# Subject: CN=IdenTrust \ Public \ Sector \ Root \ CA \ 1,O=IdenTrust,C=US}$

[#] 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

```
\label{eq:condition} $$ \272\051\101\140\167\230\077\364\363\357\362\061\005\073\056\352 $$
\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
\label{eq:condition} $$ \022\060\020\006\003\125\004\012\023\011\111\144\145\156\124\162
\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
```

CKA_CERT_SHA1_HASH MULTILINE_OCTAL

 $\label{eq:control_loss} $$ \13\023\037\123\145\145\040\167\167\167\165\145\156\164\162\165\163\164\056\156\145\164\057\154\145\147\141\154\055\164\145\162\155\163\060\050\143\051\1040\062\060\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\040\141\165\164\150\162\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\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171\040\055\040\107\062$

END

CKA ID

UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

 $\label{eq:control} $$ \060\201\276\061\013\060\011\006\003\125\004\006\0023\002\125\123\061\026\060\0024\006\0003\125\0004\012\023\015\105\156\164\162\165\163\164\054\040\111\156\143\056\061\050\060\006\0003\125\0004\013\023\060\050\145\156\164\162\165\163\164\055\164\145\162\155\163\061\071\060\067\006\0003\125\0004\013\023\060\050\143\051\1040\062\060\060\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\060\060\006\0003\125\0004\003\023\051\105\156\164\162\165\163\164\040\0122\157\157\164\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\157\162\151\164\171\040\055\040\107\062$

END

CKA SERIAL NUMBER

MULTILINE_OCTAL

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

END

CKA VALUE MULTILINE OCTAL

 $\label{eq:condition} $$ \end{align} $$ \end{align$

\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 $\label{eq:condition} $$ 164\162\165\164\056\156\145\164\057\154\145\147\141\154\055$$ \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 $\label{eq:condition} $$ \054\040\111\156\143\056\040\055\040\146\157\162\040\141\165\164$$$ \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 \141\164\151\157\156\040\101\165\164\150\157\162\151\164\171\040 $\label{eq:condition} $$ \055\040\107\062\060\202\001\042\060\015\006\011\052\206\110\206$ $\label{eq:condition} $$ 367 \times 0.001 \times 0.001 \times 0.000 \times 0.003 \times 0.001 \times 0.000 \times 0.000$ \002\202\001\001\000\272\204\266\162\333\236\014\153\342\231\351 $\label{eq:condition} $$ \060\01\247\166\352\062\270\225\101\032\311\332\141\116\130\162$$$ \317\376\366\202\171\277\163\141\006\012\245\047\330\263\137\323 \105\116\034\162\326\116\062\362\162\212\017\367\203\031\320\152 $\label{eq:condition} $$ \200\200\000\105\036\260\307\347\232\277\022\127\047\034\243\150 $$$ \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 $\label{eq:condition} $$ \frac{316}{344}\frac{1111}{304}\frac{247}{336}\frac{373}{124}\frac{175}{127}\frac{276}{360}\frac{350}{156}$$ \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:condition} $$ 123\137\234\076\364\027\054\346\151\254\116\062\114\142\167\352$ \267\350\345\273\064\274\031\213\256\234\121\347\267\176\265\123 \261\063\042\345\155\317\160\074\032\372\342\233\147\266\203\364 \215\245\257\142\114\115\340\130\254\144\064\022\003\370\266\215 \224\143\044\244\161\002\003\001\000\001\243\102\060\100\060\016 \006\003\125\035\017\001\001\377\004\004\003\002\001\006\060\017 $\\ \\006\\ \\003\\ \\125\\ \\035\\ \\023\\ \\001\\ \\001\\ \\377\\ \\004\\ \\005\\ \\060\\ \\003\\ \\001\\ \\001\\ \\377\\ \\060$ \035\006\003\125\035\016\004\026\004\024\152\162\046\172\320\036 \357\175\347\073\151\121\324\154\215\237\220\022\146\253\060\015 \006\011\052\206\110\206\367\015\001\001\013\005\000\003\202\001 $\label{eq:condition} $$ \001\000\171\237\035\226\306\266\171\077\042\215\207\323\207\003$ $\label{eq:condition} $$ \004\140\152\153\232\056\131\211\163\021\254\103\321\365\023\377 $$$ \215\071\053\300\362\275\117\160\214\251\057\352\027\304\013\124 \236\324\033\226\230\063\074\250\255\142\242\000\166\253\131\151 \156\006\035\176\304\271\104\215\230\257\022\324\141\333\012\031 \106\107\363\353\367\143\301\100\005\100\245\322\267\364\265\232 \066\277\251\210\166\210\004\125\004\053\234\207\177\032\067\074 \176\055\245\032\330\324\211\136\312\275\254\075\154\330\155\257 \325\363\166\017\315\073\210\070\042\235\154\223\232\304\075\277 \202\033\145\077\246\017\135\252\374\345\262\025\312\265\255\306 \274\075\320\204\350\352\006\162\260\115\071\062\170\277\076\021

 $\label{eq:continuous} $$\234\013\244\235\232\041\363\360\233\013\060\170\333\301\334\207\103\376\274\143\232\312\305\302\034\311\307\215\377\073\022\130\010\346\266\075\354\172\054\116\373\203\226\316\014\074\151\207\124\163\244\163\302\223\377\121\020\254\025\124\001\330\374\005\261\211\241\177\164\203\232\111\327\334\116\173\212\110\157\213\105\366$

END

CKA_NSS_MOZILLA_CA_POLICY

CK_BBOOL CK_TRUE

CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE

CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL

CK FALSE

Trust for "Entrust Root Certification Authority - G2"

Issuer: CN=Entrust Root Certification Authority - G2,OU="(c) 2009 Entrust, Inc. - for authorized use only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US

Serial Number: 1246989352 (0x4a538c28)

Subject: CN=Entrust Root Certification Authority - G2,OU="(c) 2009 Entrust, Inc. - for authorized use only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US

Not Valid Before: Tue Jul 07 17:25:54 2009 # Not Valid After : Sat Dec 07 17:55:54 2030

Fingerprint (SHA-256):

43:DF:57:74:B0:3E:7F:EF:5F:E4:0D:93:1A:7B:ED:F1:BB:2E:6B:42:73:8C:4E:6D:38:41:10:3D:3A:A7:F3:39

Fingerprint (SHA1): 8C:F4:27:FD:79:0C:3A:D1:66:06:8D:E8:1E:57:EF:BB:93:22:72:D4

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

CKA_TOKEN CK_BBOOL CK_TRUE

CKA PRIVATE CK BBOOL CK FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA LABEL UTF8 "Entrust Root Certification Authority - G2"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL

\214\364\047\375\171\014\072\321\146\006\215\350\036\127\357\273 \223\042\162\324

END

CKA_CERT_MD5_HASH

MULTILINE_OCTAL

 $\label{eq:condition} $$113\342\311\221\226\145\014\364\016\132\223\222\240\012\376\262$

END

CKA_ISSUER MULTILINE_OCTAL

```
\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164\151
\157\156\040\101\165\164\150\157\162\151\164\171\040\055\040\107
\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\112\123\214\050
END
CKA_TRUST_SERVER_AUTH
CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA TRUST EMAIL PROTECTION CK TRUST CKT NSS TRUSTED DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
# Certificate "Entrust Root Certification Authority - EC1"
# Issuer: CN=Entrust Root Certification Authority - EC1,OU="(c) 2012 Entrust, Inc. - for authorized use
only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US
# Serial Number:00:a6:8b:79:29:00:00:00:00:50:d0:91:f9
# Subject: CN=Entrust Root Certification Authority - EC1,OU="(c) 2012 Entrust, Inc. - for authorized use
only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US
# Not Valid Before: Tue Dec 18 15:25:36 2012
# Not Valid After: Fri Dec 18 15:55:36 2037
# Fingerprint (SHA-256):
02:ED:0E:B2:8C:14:DA:45:16:5C:56:67:91:70:0D:64:51:D7:FB:56:F0:B2:AB:1D:3B:8E:B0:70:E5:6E:DF:F5
# Fingerprint (SHA1): 20:D8:06:40:DF:9B:25:F5:12:25:3A:11:EA:F7:59:8A:EB:14:B5:47
CKA CLASS
CK_OBJECT_CLASS CKO_CERTIFICATE
CKA TOKEN CK BBOOL CK TRUE
CKA PRIVATE CK BBOOL CK FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA LABEL UTF8 "Entrust Root Certification Authority - EC1"
CKA CERTIFICATE TYPE CK CERTIFICATE TYPE CKC X 509
CKA SUBJECT MULTILINE OCTAL
\060\201\277\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\026\060\024\006\003\125\004\012\023\015\105\156\164\162\165
\163\164\054\040\111\156\143\056\061\050\060\046\006\003\125\004
\013\023\037\123\145\145\040\167\167\167\056\145\156\164\162\165
\163\164\056\156\145\164\057\154\145\147\141\154\055\164\145\162
\label{eq:condition} $$ \frac{155}{163}061 \cdot 071 \cdot 060 \cdot 067 \cdot 006 \cdot 003 \cdot 125 \cdot 004 \cdot 013 \cdot 023 \cdot 060 \cdot 050 \cdot 143 \cdot 051 }
\040\062\060\061\062\040\105\156\164\162\165\163\164\054\040\111
\label{eq:condition} $$ \frac{156}{143}056\\040\\055\\040\\146\\157\\162\\040\\141\\165\\164\\150\\157\\162
\151\172\145\144\040\165\163\145\040\157\156\154\171\061\063\060
\061\006\003\125\004\003\023\052\105\156\164\162\165\163\164\040
\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164\151
\157\156\040\101\165\164\150\157\162\151\164\171\040\055\040\105
\103\061
END
```

CKA ID

UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

 $\label{eq:control_co$

END

CKA SERIAL NUMBER MULTILINE OCTAL

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

END

CKA VALUE

MULTILINE OCTAL

 $\label{eq:condition} $$ \0.002\0.002\0.002\0.002\0.002\0.001\0.002\0.002\0.00000\0.0000\0.0000\0.0000\0.0000\0.0000\0.0000\0.0000\0.0000\0.00000\0.0000\0.0000\0.0000\0.0000\0.0000\0.0000\0.0000\0.0000\0.00000\0.0000\0.0000\0.0000\0.0000\0.0000\0.0000\0.0000\0.0000\0.00000\0.0000\0.0000\0.0000\0.0000\0.0000\0.0000\0.0000\0.0000\0.00000\0.0000\0.0000\0.0000\0.0000\0.0000\0.0000\0.0000\0.0000\0.00000\0.00000\0.0000\0.00000\0.00000\0.0000\0.00000\0.00000\0.00000\0.0000\0.0000\0.0000\0.0000$ \246\213\171\051\000\000\000\000\120\320\221\371\060\012\006\010 \052\206\110\316\075\004\003\003\060\201\277\061\013\060\011\006 \003\125\004\006\023\002\125\123\061\026\060\024\006\003\125\004 \012\023\015\105\156\164\162\165\163\164\054\040\111\156\143\056 $\label{eq:condition} $$ \0061\050\060\046\006\003\125\004\013\023\037\123\145\145\040\167 $$$ \167\167\056\145\156\164\162\165\163\164\056\156\145\164\057\154 \145\147\141\154\055\164\145\162\155\163\061\071\060\067\006\003 $\label{eq:condition} $$ \frac{125\\004\\013\\023\\060\\050\\143\\051\\040\\062\\060\\061\\062\\040\\105\\156$ \164\162\165\163\164\054\040\111\156\143\056\040\055\040\146\157 \162\040\141\165\164\150\157\162\151\172\145\144\040\165\163\145 \040\157\156\154\171\061\063\060\061\006\003\125\004\003\023\052 \105\156\164\162\165\163\164\040\122\157\157\164\040\103\145\162 \164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157 \162\151\164\171\040\055\040\105\103\061\060\036\027\015\061\062 \061\062\061\070\061\065\062\065\063\066\132\027\015\063\067\061 $\label{eq:condition} $$ \062\061\070\061\065\065\065\063\066\132\060\201\277\061\013\060 $$$ \125\004\012\023\015\105\156\164\162\165\163\164\054\040\111\156 \143\056\061\050\060\046\006\003\125\004\013\023\037\123\145\145 \040\167\167\167\056\145\156\164\162\165\163\164\056\156\145\164 \057\154\145\147\141\154\055\164\145\162\155\163\061\071\060\067 \006\003\125\004\013\023\060\050\143\051\040\062\060\061\062\040 \105\156\164\162\165\163\164\054\040\111\156\143\056\040\055\040 \146\157\162\040\141\165\164\150\157\162\151\172\145\144\040\165 \163\145\040\157\156\154\171\061\063\060\061\006\003\125\004\003

\023\052\105\156\164\162\165\163\164\040\122\157\157\164\040\103 \145\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164 $\label{eq:condition} $$ \006\007\052\206\110\316\075\002\001\006\005\053\201\004\000\042 $$$ $\label{eq:condition} $$ \003\142\000\004\204\023\311\320\272\155\101\173\342\154\320\353$ \125\137\146\002\032\044\364\133\211\151\107\343\270\302\175\361 \362\002\305\237\240\366\133\325\213\006\031\206\117\123\020\155 $\\ \\007\\ \\044\\ \\047\\ \\241\\ \\240\\ \\370\\ \\325\\ \\107\\ \\031\\ \\141\\ \\114\\ \\175\\ \\312\\ \\223\\ \\047\\ \\352$ $\label{eq:condition} $$ 164\014\357\157\226\011\376\143\354\160\135\066\255\147\167\256$ \311\235\174\125\104\072\242\143\121\037\365\343\142\324\251\107 $\label{eq:condition} $$ \007\076\314\040\243\102\060\100\060\016\006\003\125\035\017\001 $$$ $\label{eq:condition} $$ \001\377\004\004\003\002\001\006\060\017\006\003\125\035\023\001 $$$ \001\377\004\005\060\003\001\001\377\060\035\006\003\125\035\016 $\label{eq:condition} $$ \004\026\004\024\267\143\347\032\335\215\351\010\246\125\203\244$$$ \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 $\label{eq:condition} $$ 107\337\034\256\123\231\027\266\157\034\175\341\277\021\224\321 $$$ \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:condition} $$ \040\330\006\100\337\233\045\365\022\045\072\021\352\367\131\212$

\353\024\265\107

```
END
CKA CERT MD5 HASH MULTILINE OCTAL
\266\176\035\360\130\305\111\154\044\073\075\355\230\030\355\274
END
CKA ISSUER MULTILINE OCTAL
\060\201\277\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\026\060\024\006\003\125\004\012\023\015\105\156\164\162\165
\163\164\054\040\111\156\143\056\061\050\060\046\006\003\125\004
\013\023\037\123\145\145\040\167\167\167\056\145\156\164\162\165
\163\164\056\156\145\164\057\154\145\147\141\154\055\164\145\162
\label{eq:condition} $$ \frac{155}{163}061\\071\\060\\067\\006\\003\\125\\004\\013\\023\\060\\050\\143\\051
\label{eq:condition} $$ \040\062\060\061\062\040\105\156\164\162\165\163\164\054\040\111 $$
\156\143\056\040\055\040\146\157\162\040\141\165\164\150\157\162
\151\172\145\144\040\165\163\145\040\157\156\154\171\061\063\060
\label{eq:condition} $$ \004\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:condition} $$ \060\126\061\013\060\011\006\003\125\004\006\023\002\103\116\061 $$$

END

CKA ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

 $\label{eq:condition} $$ \000\126\001\000\003\125\004\000\0023\002\103\116\061 $$ \006\0056\006\003\125\004\012\014\047\103\150\151\156\141\040 $$ \106\151\156\141\156\143\151\141\154\040\103\145\162\164\151\146 $$ \151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164 $$ \171\061\025\060\023\006\003\125\004\003\014\014\103\106\103\101 $$ \040\105\126\040\122\117\117\124$$

END

CKA SERIAL NUMBER

MULTILINE_OCTAL

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

END

CKA_VALUE MULTILINE_OCTAL

\060\202\005\215\060\202\003\165\240\003\002\001\002\002\004\030 \112\314\326\060\015\006\011\052\206\110\206\367\015\001\001\013 $\label{eq:condition} $$ \005\000\060\126\061\013\060\011\006\003\125\004\006\023\002\103$ \116\061\060\060\056\006\003\125\004\012\014\047\103\150\151\156 \141\040\106\151\156\141\156\143\151\141\154\040\103\145\162\164 \151\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162 \151\164\171\061\025\060\023\006\003\125\004\003\014\014\103\106 \060\070\060\070\060\063\060\067\060\061\132\027\015\062\071\061 \062\063\061\060\063\060\067\060\061\132\060\126\061\013\060\011 $\label{eq:condition} $$ \006\003\125\004\006\023\002\103\116\061\060\060\056\006\003\125$ \004\012\014\047\103\150\151\156\141\040\106\151\156\141\156\143 \151\141\154\040\103\145\162\164\151\146\151\143\141\164\151\157 \156\040\101\165\164\150\157\162\151\164\171\061\025\060\023\006 \003\125\004\003\014\014\103\106\103\101\040\105\126\040\122\117 \117\124\060\202\002\042\060\015\006\011\052\206\110\206\367\015 \001\001\001\005\000\003\202\002\017\000\060\202\002\012\002\202 $\label{eq:condition} $$ \020\07\037\005\131\325\005\115\067 $$$ $\label{eq:condition} $$ \261\016\354\230\053\216\025\035\372\223\113\027\202\041\161\020$ \122\327\121\144\160\026\302\125\151\115\216\025\155\237\277\014 \033\302\340\243\147\326\014\254\317\042\256\257\167\124\052\113 \114\212\123\122\172\303\356\056\336\263\161\045\301\351\135\075 \356\241\057\243\367\052\074\311\043\035\152\253\035\241\247\361 \363\354\240\325\104\317\025\317\162\057\035\143\227\350\231\371 \375\223\244\124\200\114\122\324\122\253\056\111\337\220\315\270 \137\276\077\336\241\312\115\040\324\045\350\204\051\123\267\261 \210\037\377\372\332\220\237\012\251\055\101\077\261\361\030\051 \356\026\131\054\064\111\032\250\006\327\250\210\322\003\162\172

\062\342\352\150\115\156\054\226\145\173\312\131\372\362\342\335 \356\060\054\373\314\106\254\304\143\353\157\177\066\053\064\163 \022\224\177\337\314\046\236\361\162\135\120\145\131\217\151\263 \207\136\062\157\303\030\212\265\225\217\260\172\067\336\132\105 \073\307\066\341\357\147\321\071\323\227\133\163\142\031\110\055 \207\034\006\373\164\230\040\111\163\360\005\322\033\261\240\243 \267\033\160\323\210\151\271\132\326\070\364\142\334\045\213\170 $\label{eq:condition} $$ \277\370\350\176\270\134\311\225\117\137\247\055\271\040\153\317 $$$ \153\335\365\015\364\202\267\364\262\146\056\020\050\366\227\132 \173\226\026\217\001\031\055\154\156\177\071\130\006\144\203\001 \203\203\303\115\222\335\062\306\207\244\067\351\026\316\252\055 \150\257\012\201\145\072\160\301\233\255\115\155\124\312\052\055 \113\205\033\263\200\346\160\105\015\153\136\065\360\177\073\270 $\label{eq:condition} $$ \234\344\004\160\211\022\045\223\332\012\231\042\140\152\143\140 $$$ \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 $\label{eq:condition} $$ \076\234\220\235\014\056\361\212\076\132\252\014\011\036\307\325 $$$ \074\243\355\227\303\036\064\372\070\371\010\016\343\300\135\053 \203\321\126\152\311\266\250\124\123\056\170\062\147\075\202\177 $\label{eq:condition} $$ 164\320\373\341\266\005\140\271\160\333\216\013\371\023\130\157 $$$ \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 $\label{eq:condition} $$ 125\035\043\004\030\060\026\200\024\343\376\055\375\050\320\013$ \265\272\266\242\304\277\006\252\005\214\223\373\057\060\017\006 $\label{eq:condition} $$ \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 $\label{eq:condition} $$ 153\204\163\003\336\235\053\117\272\040\177\274\170\262\317\227 $$$ \260\033\234\363\327\171\056\365\110\266\322\373\027\210\346\323 \172\077\355\123\023\320\342\057\152\171\313\000\043\050\346\036 \067\127\065\211\204\302\166\117\064\066\255\147\303\316\101\006 \210\305\367\356\330\032\270\326\013\177\120\377\223\252\027\113 \214\354\355\122\140\262\244\006\352\116\353\364\153\031\375\353 \365\032\340\045\052\232\334\307\101\066\367\310\164\005\204\071 $\verb|\| 225 | 071 | 326 | 013 | 073 | 244 | 047 | 372 | 010 | 330 | 134 | 036 | 370 | 004 | 140 | 122 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 |$ $\label{eq:condition} $$ \021\050\003\377\357\123\146\000\245\112\064\026\146\174\375 $$$ $\label{eq:condition} $$ \011\244\256\236\147\032\157\101\013\153\006\023\233\217\206\161 $$$ \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 $\label{eq:condition} $$ 0.045 \times 1.15 \times 1.222 \times 1.77 \times 1.231 \times 1.04 \times 1$ \154\200\207\327\004\072\303\062\122\065\016\126\370\245\335\175 \304\213\015\021\037\123\313\036\262\027\266\150\167\132\340\324 \313\310\007\256\365\072\056\216\067\267\320\001\113\103\051\167 \214\071\227\217\202\132\370\121\345\211\240\030\347\150\177\135 $\label{eq:condition} $$ \012\056\373\243\107\016\075\246\043\172\306\001\307\217\310\136$

 $\label{eq:control} $$ \277\155\200\126\276\212\044\272\063\352\237\341\062\021\236\361 \322\117\200\366\033\100\257\070\236\021\120\171\163\022\022\315 \346\154\235\054\210\162\074\060\201\006\221\042\352\131\255\332 \031\056\042\302\215\271\214\207\340\146\274\163\043\137\041\144 \143\200\110\365\240\074\030\075\224\310\110\101\035\100\272\136 \376\376\126\071\241\310\317\136\236\031\144\106\020\332\027\221 \267\005\200\254\213\231\222\175\347\242\330\007\013\066\047\347 \110\171\140\212\303\327\023\134\370\162\100\337\112\313\317\231 \000\012\000\013\021\225\332\126\105\003\210\012\237\147\320\325 \171\261\250\215\100\155\015\302\172\100\372\363\137\144\107\222 \313\123\271\273\131\316\117\375\320\025\123\001\330\337\353\331 \346\166\357\320\043\273\073\251\171\263\325\002\051\315\211\243 \226\017\112\065\347\116\102\300\165\315\007\317\346\054\353\173 \056$

END

CKA_NSS_MOZILLA_CA_POLICY

CK_BBOOL CK_TRUE

CKA_NSS_SERVER_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:1C:CC:2E:F8:00:F3:55:C4:C5:FD:70:FD:1C:CC:2E:F8:00:F3:55:C4:C5:FD:70:FD:1C:CC:2E:F8:00:F3:55:C4:C5:FD:70:FD:1C:CC:2E:F8:00:F3:55:C4:C5:FD:70:FD:1C:CC:2E:F8:00:F3:55:C4:C5:FD:70:FD:1C:CC:2E:F8:00:F3:55:C4:C5:FD:70:F
- # 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

 $\label{eq:condition} $$ 342\270\051\113\125\204\253\153\130\302\220\106\154\254\077\270 $$$

 $\langle 071 \rangle 217 \rangle 204 \rangle 203$

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL

\164\341\266\355\046\172\172\104\060\063\224\253\173\047\201\060

END

CKA ISSUER

MULTILINE_OCTAL

 $\label{lem:condition} $$ \000\126\001\000\003\125\004\000\0023\002\103\116\001\000\000\005\000\003\125\000\0014\0047\103\150\151\156\141\040\101\156\141\156\143\151\141\154\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171\061\025\060\023\006\003\125\004\003\014\014\103\106\103\101$

```
\040\105\126\040\122\117\117\124
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\030\112\314\326
END
CKA TRUST SERVER AUTH CK TRUST CKT NSS TRUSTED DELEGATOR
CKA TRUST EMAIL PROTECTION CK TRUST CKT NSS MUST VERIFY TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
# Certificate "OISTE WISeKey Global Root GB CA"
# Issuer: CN=OISTE WISeKey Global Root GB CA,OU=OISTE Foundation Endorsed,O=WISeKey,C=CH
# Serial Number:76:b1:20:52:74:f0:85:87:46:b3:f8:23:1a:f6:c2:c0
# Subject: CN=OISTE WISeKey Global Root GB CA,OU=OISTE Foundation Endorsed,O=WISeKey,C=CH
# Not Valid Before:
Mon Dec 01 15:00:32 2014
# Not Valid After: Thu Dec 01 15:10:31 2039
# Fingerprint (SHA-256):
6B:9C:08:E8:6E:B0:F7:67:CF:AD:65:CD:98:B6:21:49:E5:49:4A:67:F5:84:5E:7B:D1:ED:01:9F:27:B8:6B:D6
# Fingerprint (SHA1): 0F:F9:40:76:18:D3:D7:6A:4B:98:F0:A8:35:9E:0C:FD:27:AC:CC:ED
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA TOKEN CK BBOOL CK TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA MODIFIABLE CK BBOOL CK FALSE
CKA LABEL UTF8 "OISTE WISeKey Global Root GB CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA SUBJECT MULTILINE OCTAL
\060\155\061\013\060\011\006\003\125\004\006\023\002\103\110\061
\label{eq:condition} $$ \000\0016\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
\157\142\141\154\040\122\157\157\164\040\107\102\040\103\101
END
CKA_ID UTF8
"0"
CKA_ISSUER MULTILINE_OCTAL
\060\155\061\013\060\011\006\003\125\004\006\023\002\103\110\061
\020\060\016\006\003\125\004\012\023\007\127\111\123\145\113\145
\171\061\042\060\040\006\003\125\004\013\023\031\117\111\123\124
\105\040\106\157\165\156\144\141\164\151\157\156\040\105\156\144
\157\162\163\145\144\061\050\060\046\006\003\125\004\003\023\037
\117\111\123\124\105\040\127\111\123\145\113\145\171\040\107\154
\157\142\141\154\040\122\157\157\164\040\107\102\040\103\101
END
```

CKA SERIAL NUMBER MULTILINE OCTAL

\002\020\166\261\040\122\164\360\205\207\106\263\370\043\032\366 \302\300

END

CKA VALUE MULTILINE OCTAL

\060\202\003\265\060\202\002\235\240\003\002\001\002\002\020\166 \261\040\122\164\360\205\207\106\263\370\043\032\366\302\300\060 \015\006\011\052\206\110\206\367\015\001\001\013\005\000\060\155 \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 \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 \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 $\label{eq:condition} $$ \004\006\003\125\004\013\023\031\117\111\123\124\105\040\106$ \157\165\156\144\141\164\151\157\156\040\105\156\144\157\162\163 \145\144\061\050\060\046\006\003\125\004\003\023\037\117\111\123 $\\ 124 \\ 105 \\ 040 \\ 127 \\ 111 \\ 123 \\ 145 \\ 113 \\ 145 \\ 171 \\ 040 \\ 107 \\ 154 \\ 157 \\ 142 \\ 141 \\$ \154\040\122\157\157\164\040\107\102\040\103\101\060\202\001\042 \060\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003 \202\001\017\000\060\202\001\012\002\202\001\001\000\330\027\267 \034\112\044\052\326\227\261\312\342\036\373\175\070\357\230\365 $\label{eq:condition} $$ \262\071\230\116\047\270\021\135\173\322\045\224\210\202\025\046$$ \152\033\061\273\250\133\041\041\053\330\017\116\237\132\361\261 \132\344\171\326\062\043\053\341\123\314\231\105\134\173\117\255 $\label{eq:condition} $$ \274\277\207\112\013\113\227\132\250\366\110\354\175\173\015\315$$ \041\006\337\236\025\375\101\212\110\267\040\364\241\172\033\127 \324\135\120\377\272\147\330\043\231\037\310\077\343\336\377\157 \133\167\261\153\156\270\311\144\367\341\312\101\106\016\051\161 \320\271\043\374\311\201\137\116\367\157\337\277\204\255\163\144 \273\267\102\216\151\366\324\166\035\176\235\247\270\127\212\121 \147\162\327\324\250\270\225\124\100\163\003\366\352\364\353\376 \050\102\167\077\235\043\033\262\266\075\200\024\007\114\056\117 $\label{eq:condition} $$ 367\325\012\026\015\275\146\103\067\176\043\103\171\303\100\206$$ \365\114\051\332\216\232\255\015\245\004\207\210\036\205\343\351 \123\325\233\310\213\003\143\170\353\340\031\112\156\273\057\153 \063\144\130\223\255\151\277\217\033\357\202\110\307\002\003\001 \000\001\243\121\060\117\060\013\006\003\125\035\017\004\004\003 \002\001\206\060\017\006\003\125\035\023\001\001\377\004\005\060 $\label{eq:condition} $$ \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 $\\ \\004\\ \\003\\ \\002\\ \\001\\ \\000\\ \\006\\ \\0015\\ \\006\\ \\011\\ \\052\\ \\206\\ \\110\\ \\206\\ \\367\\ \\015\\ \\001$

\001\013\005\000\003\202\001\001\000\100\114\373\207\262\231\201 \220\176\235\305\260\260\046\315\210\173\053\062\215\156\270\041 $\label{eq:condition} $$ 161\130\227\175\256\067\024\257\076\347\367\232\342\175\366\161 $$$ \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 $\label{eq:condition} $$ \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:condition} $$ \017\371\100\166\030\323\327\152\113\230\360\250\065\236\014\375 $$$

\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

 $\label{eq:condition} $$ \060\155\061\013\060\011\006\003\125\004\006\023\002\103\110\061$

 $\label{eq:condition} $$ \000\0016\006\003\125\004\012\023\007\127\111\123\145\113\145$$

\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 \157\142\141\154\040\122\157\157\164\040\107\102\040\103\101 **END** CKA SERIAL NUMBER MULTILINE OCTAL \002\020\166\261\040\122\164\360\205\207\106\263\370\043\032\366 \302\300 **END** CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR CKA TRUST EMAIL PROTECTION CK TRUST CKT NSS TRUSTED DELEGATOR CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE # Certificate "SZAFIR ROOT CA2" # Issuer: CN=SZAFIR ROOT CA2,O=Krajowa Izba Rozliczeniowa S.A.,C=PL # Serial Number:3e:8a:5d:07:ec:55:d2:32:d5:b7:e3:b6:5f:01:eb:2d:dc:e4:d6:e4 # Subject: CN=SZAFIR ROOT CA2,O=Krajowa Izba Rozliczeniowa S.A.,C=PL # Not Valid Before: Mon Oct 19 07:43:30 2015 # Not Valid After: Fri Oct 19 07:43:30 2035 # Fingerprint (SHA-256): A1:33:9D:33:28:1A:0B:56:E5:57:D3:D3:2B:1C:E7:F9:36:7E:B0:94:BD:5F:A7:2A:7E:50:04:C8:DE:D7:CA:FE # Fingerprint (SHA1): E2:52:FA:95:3F:ED:DB:24:60:BD:6E:28:F3:9C:CC:CF:5E:B3:3F:DE CKA_CLASS CK_OBJECT_CLASS CKO CERTIFICATE CKA TOKEN CK BBOOL CK TRUE CKA_PRIVATE CK_BBOOL CK_FALSE CKA MODIFIABLE CK BBOOL CK FALSE CKA LABEL UTF8 "SZAFIR ROOT CA2" CKA CERTIFICATE TYPE CK CERTIFICATE TYPE CKC X 509 CKA SUBJECT MULTILINE OCTAL \060\121\061\013\060\011\006\003\125\004\006\023\002\120\114\061 \050\060\046\006\003\125\004\012\014\037\113\162\141\152\157\167 $\\ 141 \\ 040 \\ 111 \\ 172 \\ 142 \\ 141 \\ 040 \\ 122 \\ 157 \\ 172 \\ 154 \\ 151 \\ 143 \\ 172 \\ 145 \\ 156$ $\label{eq:condition} $$ \frac{151}{157}\frac{167}{141}\frac{040}{123}\frac{056}{101}\frac{056}{061}\frac{030}{060}\frac{026}{006}\frac{003}{125} $$$ $\\ \\004\\\\003\\\\014\\\\017\\\\123\\\\132\\\\101\\\\106\\\\111\\\\122\\\\040\\\\122\\\\117\\\\117\\\\1124\\\\040$ \103\101\062 **END** CKA_ID UTF8 "0" CKA_ISSUER MULTILINE_OCTAL \060\121\061\013\060\011\006\003\125\004\006\023\002\120\114\061 \050\060\046\006\003\125\004\012\014\037\113\162\141\152\157\167 \141\040\111\172\142\141\040\122\157\172\154\151\143\172\145\156 \151\157\167\141\040\123\056\101\056\061\030\060\026\006\003\125

\004\003\014\017\123\132\101\106\111\122\040\122\117\117\124\040 \103\101\062

END

CKA SERIAL NUMBER MULTILINE OCTAL

\002\024\076\212\135\007\354\125\322\062\325\267\343\266\137\001 \353\055\334\344\326\344

END

CKA VALUE

MULTILINE OCTAL

\060\202\003\162\060\202\002\132\240\003\002\001\002\002\002\004\076 \212\135\007\354\125\322\062\325\267\343\266\137\001\353\055\334 \344\326\344\060\015\006\011\052\206\110\206\367\015\001\001\013 \005\000\060\121\061\013\060\011\006\003\125\004\006\023\002\120 $\label{eq:condition} $$ \frac{114 \cdot 061 \cdot 050 \cdot 060 \cdot 046 \cdot 006 \cdot 003 \cdot 125 \cdot 004 \cdot 012 \cdot 014 \cdot 037 \cdot 113 \cdot 162 \cdot 141 \cdot 152}{141 \cdot 061 \cdot 061$ $\verb| 157| 167| 141| 040| 111| 172| 142| 141| 040| 122| 157| 172| 154| 151| 143| 172|$ \145\156\151\157\167\141\040\123\056\101\056\061\030\060\026\006 $\label{eq:condition} $$ \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 \023\002\120\114\061\050\060\046\006\003\125\004\012\014\037\113 \162\141\152\157\167\141\040\111\172\142\141\040\122\157\172\154 $\label{eq:local_$ \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 $\label{eq:condition} $$100\265\316\141\347\226\312\264\241\332\014\042\260\372\265\173$ \166\000\167\214\013\317\175\250\206\314\046\121\344\040\075\205 \014\326\130\343\347\364\052\030\235\332\321\256\046\356\353\123 $\label{eq:condition} $$ 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 $\label{eq:condition} $$ 0.05 \times 0.53 \times 0.15 \times 2.27 \times 0.074 \times 2.72 \times 2.54 \times 0.132 \times 2.34 \times 2.5115 \times 2.35 \times 0.02 \times 0.05 \times 0.015 \times 0.015$ \012\322\113\233\146\113\106\007\027\145\255\237\154\210\000\334 $\\ \\ 042\\211\\340\\341\\144\\324\\147\\274\\061\\171\\141\\074\\273\\312\\101\\315$ $\label{eq:condition} $$ 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 \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 $\label{eq:condition} $$ \360\364\101\021\354\077\107\215\077\162\207\371\073\375\244\157$$ $\label{eq:condition} $$ \053\123\000\340\377\071\271\152\007\016\353\035\034\366\242\162$ \220\313\202\075\021\202\213\322\273\237\052\257\041\346\143\206 \235\171\031\357\367\273\014\065\220\303\212\355\117\017\365\314 $\label{eq:condition} $$ \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 $\label{eq:condition} $$ \frac{311}{205}\frac{240}{045}\frac{040}{067}\frac{373}{216}\frac{316}{014}\frac{064}{204}\frac{341}{074}\frac{201}{262} $$$ \167\116\103\245\210\137\206\147\241\075\346\264\134\141\266\076 \333\376\267\050\305\242\007\256\265\312\312\215\052\022\357\227 \355\302\060\244\311\052\172\373\363\115\043\033\231\063\064\240 \056\365\251\013\077\324\135\341\317\204\237\342\031\302\137\212 \326\040\036\343\163\267

END

CKA_NSS_MOZILLA_CA_POLICY

CK_BBOOL CK_TRUE

CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "SZAFIR ROOT CA2"

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

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

#

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

Not Valid Before: Mon Oct 19 07:43:30 2015

Not Valid After: Fri Oct 19 07:43:30 2035

Fingerprint (SHA-256):

A1:33:9D:33:28:1A:0B:56:E5:57:D3:D3:2B:1C:E7:F9:36:7E:B0:94:BD:5F:A7:2A:7E:50:04:C8:DE:D7:CA:FE

Fingerprint (SHA1): E2:52:FA:95:3F:ED:DB:24:60:BD:6E:28:F3:9C:CC:CF:5E:B3:3F:DE

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "SZAFIR ROOT CA2"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL

 $\label{eq:condition} $$ \frac{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:condition} $$ \021\144\301\211\260\044\261\214\261\007\176\211\236\121\236\231 $$$

END

CKA_ISSUER MULTILINE_OCTAL

 $\label{eq:condition} $$ \060\121\061\013\060\011\006\003\125\004\006\023\002\120\114\061$

 $\label{eq:condition} $$ \0.060\0.046\0.06\0.03\1.25\0.04\0.12\0.14\0.37\1.13\1.62\1.41\1.52\1.57\1.67$

```
\141\040\111\172\142\141\040\122\157\172\154\151\143\172\145\156
\151\157\167\141\040\123\056\101\056\061\030\060\026\006\003\125
\004\003\014\017\123\132\101\106\111\122\040\122\117\117\124\040
\103\101\062
END
CKA_SERIAL_NUMBER
MULTILINE OCTAL
\label{eq:condition} $$ \002\024\076\212\135\007\354\125\322\062\325\267\343\266\137\001 $$
\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
\label{eq:condition} $$ 164\157\040\124\145\143\150\156\157\154\157\147\151\145\163\040$
\123\056\101\056\061\047\060\045\006\003\125\004\013\023\036\103
\145\162\164\165\155\040\103\145\162\164\151\146\151\143\141\164
\151\157\156\040\101\165\164\150\157\162\151\164\171\061\044\060
\042\006\003\125\004\003\023\033\103\145\162\164\165\155\040\124
\162\165\163\164\145\144\040\116\145\164\167\157\162\153\040\103
\101\040\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
```

 $\label{eq:condition} $$ \000\201\200\061\013\060\011\006\003\125\004\006\023\002\120\114 $$ \061\042\060\040\006\003\125\004\012\023\031\125\156\151\172\145 $$ \164\157\040\124\145\143\150\156\157\154\157\147\151\145\163\040 $$ \123\056\101\056\061\047\060\045\006\003\125\004\013\023\036\103 $$ \145\162\164\151\146\151\143\141\164 $$ \151\157\156\040\101\165\164\150\157\162\151\164\171\061\044\060 $$ \042\006\003\125\004\003\023\033\103\145\162\164\165\155\040\124 $$ \162\165\163\164\145\144\040\116\145\164\167\157\162\153\040\103 $$ \101\040\062$

END

CKA_SERIAL_NUMBER

MULTILINE OCTAL

 $\label{eq:condition} $$ \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:condition} $$ \060\202\005\322\060\202\003\272\240\003\002\001\002\002\002\0041 $$$ \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 $\label{eq:condition} $$ \200\061\013\060\011\006\003\125\004\006\023\002\120\114\061\042 $$$ \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 $\label{eq:condition} $$ 101\056\061\047\060\045\006\003\125\004\013\023\036\103\145\162$$ \164\165\155\040\103\145\162\164\151\146\151\143\141\164\151\157 \156\040\101\165\164\150\157\162\151\164\171\061\044\060\042\006 \003\125\004\003\023\033\103\145\162\164\165\155\040\124\162\165 \163\164\145\144\040\116\145\164\167\157\162\153\040\103\101\040 $\label{eq:condition} $$ \062\060\042\030\017\062\060\061\061\061\060\060\066\060\070\063$$$ \071\065\066\132\030\017\062\060\064\066\061\060\060\066\060\070 \063\071\065\066\132\060\201\200\061\013\060\011\006\003\125\004 \006\023\002\120\114\061\042\060\040\006\003\125\004\012\023\031 \125\156\151\172\145\164\157\040\124\145\143\150\156\157\154\157 \147\151\145\163\040\123\056\101\056\061\047\060\045\006\003\125 \004\013\023\036\103\145\162\164\165\155\040\103\145\162\164\151 \146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151 \164\171\061\044\060\042\006\003\125\004\003\023\033\103\145\162 \164\165\155\040\124\162\165\163\164\145\144\040\116\145\164\167 $\label{eq:condition} $$ \frac{157}{162}\frac{040}{103}\frac{040}{062}\frac{060}{202}\frac{002}{042}\frac{060}{015}\frac{011}{006} $$$ $\label{eq:condition} $$ \052\206\110\206\367\015\001\001\001\005\000\003\202\002\017\000 $$$ $\label{eq:condition} $$ \0.002\0.002\0.002\0.001\0.00\2.75\3.71\1.70\3.70\3.46\3.25\2.00 $$$ \014\144\235\206\033\226\144\147\077\042\072\036\165\001\175\357 \373\134\147\214\311\314\134\153\251\221\346\271\102\345\040\113 \233\332\233\173\271\231\135\331\233\200\113\327\204\100\053\047 \323\350\272\060\273\076\011\032\247\111\225\357\053\100\044\302 \227\307\247\356\233\045\357\250\012\000\227\205\132\252\235\334 \051\311\342\065\007\353\160\115\112\326\301\263\126\270\241\101 \070\233\321\373\061\177\217\340\137\341\261\077\017\216\026\111 \140\327\006\215\030\371\252\046\020\253\052\323\320\321\147\215

\033\106\276\107\060\325\056\162\321\305\143\332\347\143\171\104 \176\113\143\044\211\206\056\064\077\051\114\122\213\052\247\300 \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 $\label{eq:condition} $$ \026\052\333\314\255\073\034\244\207\334\106\163\136\031\142\150 $$$ \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 \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 $\label{eq:condition} $$ \071\225\173\154\200\132\117\023\162\306\327\175\051\172\104\272$ \122\244\052\325\101\106\011\040\376\042\240\266\133\060\215\274 \211\014\325\327\160\370\207\122\375\332\357\254\121\056\007\263 \116\376\320\011\332\160\357\230\372\126\346\155\333\265\127\113 \334\345\054\045\025\310\236\056\170\116\370\332\234\236\206\054 \312\127\363\032\345\310\222\213\032\202\226\172\303\274\120\022 \151\330\016\132\106\213\072\353\046\372\043\311\266\260\201\276 \102\000\244\370\326\376\060\056\307\322\106\366\345\216\165\375 \362\314\271\320\207\133\314\006\020\140\273\203\065\267\136\147 $\label{eq:condition} $$ 336\107\354\231\110\361\244\241\025\376\255\214\142\216\071\125$ \117\071\026\271\261\143\235\377\267\002\003\001\000\001\243\102 \060\100\060\017\006\003\125\035\023\001\001\377\004\005\060\003 \001\001\377\060\035\006\003\125\035\016\004\026\004\024\266\241 \124\071\002\303\240\077\216\212\274\372\324\370\034\246\321\072 $\label{eq:condition} $$ \0.016\0.016\0.006\0.003\1.25\0.035\0.017\0.01\0.01\3.77\0.04\0.04\0.03\0.02 $$$ $\label{eq:condition} $$ \001\006\0015\006\011\052\206\110\206\367\015\001\001\015\005$ \000\003\202\002\001\000\161\245\016\316\344\351\277\077\070\325 $\label{eq:condition} $$ \frac{304}{002}\frac{141}{373}\frac{305}{024}\frac{027}{055}\frac{13}{117}\frac{123}{153}\frac{020}{120} $$$ \027\374\145\204\307\020\111\220\336\333\307\046\223\210\046\157 \160\326\002\136\071\240\367\217\253\226\265\245\023\134\201\024 \155\016\201\202\021\033\212\116\306\117\245\335\142\036\104\337 \011\131\364\133\167\013\067\351\213\040\306\370\012\116\056\130 \034\353\063\320\317\206\140\311\332\373\200\057\236\114\140\204 \170\075\041\144\326\373\101\037\030\017\347\311\165\161\275\275 \134\336\064\207\076\101\260\016\366\271\326\077\011\023\226\024 $\label{eq:condition} $$ \057\336\232\035\132\271\126\316\065\072\260\137\160\115\136\343 $$$ $\label{eq:condition} $$ \051\361\043\050\162\131\266\253\302\214\146\046\034\167\054\046$ \166\065\213\050\247\151\240\371\073\365\043\335\205\020\164\311 \220\003\126\221\347\257\272\107\324\022\227\021\042\343\242\111 \224\154\347\267\224\113\272\055\244\332\063\213\114\246\104\377 \132\074\306\035\144\330\265\061\344\246\074\172\250\127\013\333 \344\137\307\237\266\201\052\344\205\110\171\130\136\073\370\333 $\label{eq:condition} $$ \002\202\147\301\071\333\303\164\113\075\066\036\371\051\223\210 $$$ \150\133\250\104\031\041\360\247\350\201\015\054\350\223\066\264

END

CKA_NSS_MOZILLA_CA_POLICY

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

```
\123\056\101\056\061\047\060\045\006\003\125\004\013\023\036\103
\145\162\164\165\155\040\103\145\162\164\151\146\151\143\141\164
\151\157\156\040\101\165\164\150\157\162\151\164\171\061\044\060
\042\006\003\125\004\003\023\033\103\145\162\164\165\155\040\124
\101\040\062
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\020\041\326\320\112\117\045\017\311\062\067\374\252\136\022
\215\351
END
CKA TRUST SERVER AUTH CK TRUST CKT NSS TRUSTED DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA TRUST STEP UP APPROVED CK BBOOL CK FALSE
#
# Certificate "Hellenic Academic and Research Institutions RootCA 2015"
# Issuer: CN=Hellenic Academic and Research Institutions RootCA 2015,O=Hellenic Academic and Research
Institutions Cert. Authority, L=Athens, C=GR
# Serial Number: 0 (0x0)
Subject: CN=Hellenic Academic and Research Institutions RootCA 2015,O=Hellenic Academic and Research
Institutions Cert. Authority, L=Athens, C=GR
# Not Valid Before: Tue Jul 07 10:11:21 2015
# Not Valid After: Sat Jun 30 10:11:21 2040
# Fingerprint (SHA-256):
A0:40:92:9A:02:CE:53:B4:AC:F4:F2:FF:C6:98:1C:E4:49:6F:75:5E:6D:45:FE:0B:2A:69:2B:CD:52:52:3F:36
# Fingerprint (SHA1): 01:0C:06:95:A6:98:19:14:FF:BF:5F:C6:B0:B6:95:EA:29:E9:12:A6
CKA CLASS CK OBJECT CLASS CKO CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA PRIVATE CK BBOOL CK FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Hellenic Academic and Research Institutions RootCA 2015"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\label{eq:condition} $$ \060\201\246\061\013\060\011\006\003\125\004\006\023\002\107\122 $$
\163\061\104\060\102\006\003\125\004\012\023\073\110\145\154\154
\145\156\151\143\040\101\143\141\144\145\155\151\143\040\141\156
\144\040\122\145\163\145\141\162\143\150\040\111\156\163\164\151
\164\165\164\151\157\156\163\040\103\145\162\164\056\040\101\165
\164\150\157\162\151\164\171\061\100\060\076\006\003\125\004\003
\023\067\110\145\154\154\145\156\151\143\040\101\143\141\144\145
\155\151\143\040\141\156\144\040\122\145\163\145\141\162\143\150
\040\111\156\163\164\151\164\165\164\151\157\156\163\040\122\157
```

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

END

CKA ID

UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

END

CKA_SERIAL_NUMBER

MULTILINE OCTAL

\002\001\000

END

CKA VALUE MULTILINE OCTAL

 $\label{eq:condition} $$ \060\202\006\013\060\202\003\363\240\003\002\001\0002\0001\000$ \060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060 \201\246\061\013\060\011\006\003\125\004\006\023\002\107\122\061 \017\060\015\006\003\125\004\007\023\006\101\164\150\145\156\163 \061\104\060\102\006\003\125\004\012\023\073\110\145\154\154\145 \156\151\143\040\101\143\141\144\145\155\151\143\040\141\156\144 \040\122\145\163\145\141\162\143\150\040\111\156\163\164\151\164 \165\164\151\157\156\163\040\103\145\162\164\056\040\101\165\164 \150\157\162\151\164\171\061\100\060\076\006\003\125\004\003\023 \067\110\145\154\154\145\156\151\143\040\101\143\141\144\145\155 \151\143\040\141\156\144\040\122\145\163\145\141\162\143\150\040 \111\156\163\164\151\164\165\164\151\157\156\163\040\122\157\157 \164\103\101\040\062\060\061\065\060\036\027\015\061\065\060\067 \060\067\061\060\061\061\062\061\132\027\015\064\060\060\066\063 \060\061\060\061\061\062\061\132\060\201\246\061\013\060\011\006 \003\125\004\006\023\002\107\122\061\017\060\015\006\003\125\004 $\label{eq:condition} $$ \007\023\006\101\164\150\145\156\163\061\104\060\102\006\003\125$$ $\\ \\004\\012\\023\\073\\110\\145\\154\\154\\154\\145\\156\\151\\143\\040\\101\\143\\141$ \144\145\155\151\143\040\141\156\144\040\122\145\163\145\141\162 \143\150\040\111\156\163\164\151\164\165\164\151\157\156\163\040 \103\145\162\164\056\040\101\165\164\150\157\162\151\164\171\061 \100\060\076\006\003\125\004\003\023\067\110\145\154\154\154\145\156 \151\143\040\101\143\141\144\145\155\151\143\040\141\156\144\040 \122\145\163\145\141\162\143\150\040\111\156\163\164\151\164\165 \164\151\157\156\163\040\122\157\157\164\103\101\040\062\060\061 $\label{eq:condition} $$ \0.065\0.002\0.002\0.002\0.005\0.006\0.011\0.005\0.006\0.011\0.006\0.010\0.006\0.0$

\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 $\label{eq:condition} $$ 341\057\247\174\257\047\064\273\051\175\233\266\317\011\310\345$$ \323\012\374\210\145\145\164\012\334\163\034\134\315\100\261\034 \324\266\204\214\114\120\317\150\216\250\131\256\302\047\116\202 \242\065\335\024\364\037\377\262\167\325\207\057\252\156\175\044 $\\047\\347\\306\\313\\046\\346\\345\\376\\147\\007\\143\\330\\105\\015\\335\\072$ \131\145\071\130\172\222\231\162\075\234\204\136\210\041\270\325 \364\054\374\331\160\122\117\170\270\275\074\053\213\225\230\365 \263\321\150\317\040\024\176\114\134\137\347\213\345\365\065\201 \031\067\327\021\010\267\146\276\323\112\316\203\127\000\072\303 \201\370\027\313\222\066\135\321\243\330\165\033\341\213\047\352 \172\110\101\375\105\031\006\255\047\231\116\301\160\107\335\265 \237\201\123\022\345\261\214\110\135\061\103\027\343\214\306\172 $\label{eq:condition} $$ 143\226\113\051\060\116\204\116\142\031\136\074\316\227\220\245 $$$ \177\001\353\235\340\370\213\211\335\045\230\075\222\266\176\357 $\label{eq:condition} $$ \frac{331}{361}121\frac{121}{175}055\frac{310}{151}131\frac{141}{340}254\frac{152}{270}052 $$ \066\021\004\172\120\275\062\204\276\057\334\162\325\327\035\026 \107\344\107\146\040\077\364\226\305\257\216\001\172\245\017\172 \144\365\015\030\207\331\256\210\325\372\204\301\072\300\151\050 \055\362\015\150\121\252\343\245\167\306\244\220\016\241\067\213 \061\043\107\301\011\010\353\156\367\170\233\327\202\374\204\040 \231\111\031\266\022\106\261\373\105\125\026\251\243\145\254\234 \007\017\352\153\334\037\056\006\162\354\206\210\022\344\055\333 \137\005\057\344\360\003\323\046\063\347\200\302\315\102\241\027 \035\023\001\001\377\004\005\060\003\001\001\377\060\016\006\003 \125\035\017\001\001\377\004\004\003\002\001\006\060\035\006\003 \125\035\016\004\026\004\024\161\025\147\310\310\311\275\165\135 $\label{eq:condition} $$ 162\320\070\030\152\235\363\161\044\124\013\060\015\006\011\052$ \206\110\206\367\015\001\001\013\005\000\003\202\002\001\000\165 \273\155\124\113\252\020\130\106\064\362\142\327\026\066\135\010 \136\325\154\310\207\275\264\056\106\362\061\370\174\352\102\265 \223\026\125\334\241\014\022\240\332\141\176\017\130\130\163\144 $\label{eq:condition} $$ 162\307\350\105\216\334\251\362\046\077\306\171\214\261\123\010 $$$ \063\201\260\126\023\276\346\121\134\330\233\012\117\113\234\126 \123\002\351\117\366\015\140\352\115\102\125\350\174\033\041\041 \323\033\072\314\167\362\270\220\361\150\307\371\132\376\372\055 \364\277\311\365\105\033\316\070\020\052\067\212\171\243\264\343 $\label{eq:condition} $$ \11154\205\206\223\377\211\226\047\170\201\217\147\343\106\164 $$$

\124\216\331\015\151\342\112\364\115\164\003\377\262\167\355\225 \147\227\344\261\305\253\277\152\043\350\324\224\342\104\050\142 \304\113\342\360\330\342\051\153\032\160\176\044\141\223\173\117 $\label{eq:condition} $$ \003\062\045\015\105\044\053\226\264\106\152\277\112\013\367\232 $$$ \217\301\254\032\305\147\363\157\064\322\372\163\143\214\357\026 \260\250\244\106\052\370\353\022\354\162\264\357\370\053\176\214 \122\300\213\204\124\371\057\076\343\125\250\334\146\261\331\341 \137\330\263\214\131\064\131\244\253\117\154\273\037\030\333\165 \253\330\313\222\315\224\070\141\016\007\006\037\113\106\020\361 \025\276\215\205\134\073\112\053\201\171\017\264\151\237\111\120 \227\115\367\016\126\135\300\225\152\302\066\303\033\150\311\365 $\label{eq:condition} $$ \052\334\107\232\276\262\316\305\045\350\372\003\271\332\371\026 $$$ \156\221\204\365\034\050\310\374\046\314\327\034\220\126\247\137 $\label{eq:condition} $$ \frac{157}072\\004\\274\\315\\170\\211\\013\\216\\017\\057\\243\\252\\117\\242\\033$ $\label{eq:condition} $$ \022\075\026\010\100\017\361\106\114\327\252\173\010\301\012\365$ \155\047\336\002\217\312\303\265\053\312\351\353\310\041\123\070 \245\314\073\330\167\067\060\242\117\331\157\321\362\100\255\101 \172\027\305\326\112\065\211\267\101\325\174\206\177\125\115\203 \112\245\163\040\300\072\257\220\361\232\044\216\331\216\161\312 \173\270\206\332\262\217\231\076\035\023\015\022\021\356\324\253 \360\351\025\166\002\344\340\337\252\040\036\133\141\205\144\100 $\label{eq:condition} $$ \251\220\227\015\255\123\322\132\035\207\152\000\227\145\142\264 $$$ \276\157\152\247\365\054\102\355\062\255\266\041\236\276\274 **END**

CKA_NSS_MOZILLA_CA_POLICY

CK BBOOL CK TRUE

CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

- # Trust for "Hellenic Academic and Research Institutions RootCA 2015"
- # Issuer: CN=Hellenic Academic and Research Institutions RootCA 2015,O=Hellenic Academic and Research Institutions Cert. Authority,L=Athens,C=GR
- # Serial Number: 0 (0x0)
- # Subject: CN=Hellenic Academic and Research Institutions RootCA 2015,O=Hellenic Academic and Research Institutions Cert. Authority,L=Athens,C=GR
- # Not Valid Before: Tue Jul 07 10:11:21 2015
- # Not Valid After: Sat Jun 30 10:11:21 2040
- # Fingerprint (SHA-256):

A0:40:92:9A:02:CE:53:B4:AC:F4:F2:FF:C6:98:1C:E4:49:6F:75:5E:6D:45:FE:0B:2A:69:2B:CD:52:52:3F:36

Fingerprint (SHA1): 01:0C:06:95:A6:98:19:14:FF:BF:5F:C6:B0:B6:95:EA:29:E9:12:A6

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "Hellenic Academic and Research Institutions RootCA 2015"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL

 $\label{eq:condition} $$ \001\014\006\225\246\230\031\024\377\277\137\306\260\266\225\352 $$$

\051\351\022\246

```
END
CKA CERT MD5 HASH MULTILINE OCTAL
\312\377\342\333\003\331\313\113\351\017\255\204\375\173\030\316
END
CKA ISSUER MULTILINE OCTAL
\060\201\246\061\013\060\011\006\003\125\004\006\023\002\107\122
\061\017\060\015\006\003\125\004\007\023\006\101\164\150\145\156
\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\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:condition} $$ \frac{155}{151}\frac{43}{040}\frac{141}{156}\frac{44}{040}\frac{122}{145}\frac{163}{145}\frac{141}{162}\frac{143}{150}$
\\ \langle 040 \rangle 111 \rangle 156 \rangle 163 \rangle 164 \rangle 151 \rangle 164 \rangle 165 \rangle 164 \rangle 151 \rangle 157 \rangle 156 \rangle 163 \rangle 040 \rangle 122 \rangle 157 \rangle 156 \rangle 163 \rangle 164 \rangle 151 \rangle 164 \rangle 165 \rangle 164 \rangle 165 \rangle 164 \rangle 165 \rangle 164 \rangle 165 \rangle 
\157\164\103\101\040\062\060\061\065
END
CKA SERIAL NUMBER
 MULTILINE_OCTAL
\002\001\000
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA TRUST CODE SIGNING CK TRUST CKT NSS MUST VERIFY TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
# Certificate "Hellenic Academic and Research Institutions ECC RootCA 2015"
# Issuer: CN=Hellenic Academic and Research Institutions ECC RootCA 2015,O=Hellenic Academic and Research
Institutions Cert. Authority, L=Athens, C=GR
 Serial Number: 0 (0x0)
# Subject: CN=Hellenic Academic and Research Institutions ECC RootCA 2015,O=Hellenic Academic and
Research Institutions Cert. Authority, L=Athens, C=GR
# Not Valid Before: Tue Jul 07 10:37:12 2015
# Not Valid After: Sat Jun 30 10:37:12 2040
# Fingerprint (SHA-256):
44:B5:45:AA:8A:25:E6:5A:73:CA:15:DC:27:FC:36:D2:4C:1C:B9:95:3A:06:65:39:B1:15:82:DC:48:7B:48:33
# Fingerprint (SHA1): 9F:F1:71:8D:92:D5:9A:F3:7D:74:97:B4:BC:6F:84:68:0B:BA:B6:66
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
```

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL

\060\201\252\061\013\060\011\006\003\125\004\006\023\002\107\122

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "Hellenic Academic and Research Institutions ECC RootCA 2015"

 $\label{lem:control} $$ \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\141\156\164\151\156\163\145\141\162\143\150\040\111\156\163\164\151\157\156\163\040\103\145\162\164\056\040\101\165\164\157\162\151\164\171\061\104\060\102\006\003\125\0004\003\125\0004\003\125\151\143\040\141\156\151\143\040\101\143\141\144\145\150\163\164\151\156\163\164\151\156\163\164\151\157\156\163\040\105\103\103\040\122\157\157\164\103\101\040\062\060\061\065$

END

CKA ID

UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

 $\label{eq:condition} $$ \000\201\252\061\013\060\011\006\003\125\004\007\023\006\101\164\150\145\156\163\061\104\060\102\006\003\125\004\0012\023\073\110\145\154\154\145\156\151\143\040\101\143\141\144\145\155\151\143\040\111\156\163\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\125\004\003\125\103\103\145\143\143\141\143\141\144\145\156\151\143\040\101\143\141\144\145\155\151\143\040\141\156\144\040\122\145\163\145\141\162\143\150\040\111\156\163\164\151\164\165\164\151\157\156\163\040\105\103\103\040\122\157\157\164\103\101\040\062\060\061\065$

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

\002\001\000

END

CKA_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 \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 $\label{eq:condition} $$ \frac{157}{156}\frac{040}{103}\frac{145}{162}\frac{164}{056}\frac{040}{101}\frac{165}{164}\frac{150}{157}\frac{162}{162} $$$ \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\060\036\027\015\061\065\060 \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

\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 $\label{eq:condition} $$ \040\103\145\162\164\056\040\101\165\164\150\157\162\151\164\171 $$$ \061\104\060\102\006\003\125\004\003\023\073\110\145\154\154\145 \040\122\145\163\145\141\162\143\150\040\111\156\163\164\151\164 \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 $\label{eq:condition} $$ 101\350\113\202\204\134\342\370\061\021\231\206\144\116\011\045$$ $\begin{tabular}{l} $$ \begin{tabular}{l} $\begin{tabular}{l} \b \346\077\160\225\360\005\104\107\246\162\070\120\166\225\002\132 \216\256\050\236\371\055\116\231\357\054\110\157\114\045\051\350 $\label{eq:condition} $$ \frac{321}{161}\frac{33}{337}\frac{375}{301}\frac{65}{067}\frac{264}{327}\frac{372}{173}\frac{172}{102}\frac{234}{152} $$$ \012\126\132\174\151\013\252\200\011\044\154\176\301\106\243\102 \001\001\377\060\016\006\003\125\035\017\001\001\377\004\004\003 \002\001\006\060\035\006\003\125\035\016\004\026\004\024\264\042 $\label{eq:condition} $$ \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 $\label{eq:condition} $$ \000\060\144\002\060\147\316\026\142\070\242\254\142\105\247\251 $$$ \225\044\300\032\047\234\062\073\300\300\325\272\251\347\370\004 \103\123\205\356\122\041\336\235\365\045\203\076\236\130\113\057 \327\147\023\016\041\002\060\005\341\165\001\336\150\355\052\037 \115\114\011\010\015\354\113\255\144\027\050\347\165\316\105\145 \162\041\027\313\042\101\016\214\023\230\070\232\124\155\233\312 \342\174\352\002\130\042\221

END

CKA_NSS_MOZILLA_CA_POLICY

CK_BBOOL CK_TRUE

CKA_NSS_SERVER_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

 ${\tt CK_OBJECT_CLASS\ CKO_NSS_TRUST}$

CKA_TOKEN CK_BBOOL CK_TRUE

```
CKA MODIFIABLE CK BBOOL CK FALSE
CKA_LABEL UTF8 "Hellenic Academic and Research Institutions ECC RootCA 2015"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\237\361\161\215\222\325\232\363\175\164\227\264\274\157\204\150
\013\272\266\146
END
CKA CERT MD5 HASH MULTILINE OCTAL
\201\345\264\027\353\302\365\341\113\015\101\173\111\222\376\357
END
CKA ISSUER MULTILINE OCTAL
\label{eq:condition} $$ \060\201\252\061\013\060\011\006\003\125\004\006\023\002\107\122 $$
\061\017\060\015\006\003\125\004\007\023\006\101\164\150\145\156
 \\ 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\150\157\162\151\164\171\061\104\060\102\006\003\125\004\003
\023\073\110\145\154\154\145\156\151\143\040\101\143\141\144\145
\label{eq:condition} $$ \frac{155}{151}\frac{43}{040}\frac{141}{156}\frac{44}{040}\frac{122}{145}\frac{163}{145}\frac{141}{162}\frac{143}{150}$
\040\111\156\163\164\151\164\165\164\151\157\156\163\040\105\103
\label{eq:condition} $$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 PRIVATE CK BBOOL CK FALSE

CKA LABEL UTF8 "ISRG Root X1"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509 CKA_SUBJECT MULTILINE_OCTAL

END

CKA ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

 $\label{eq:condition} $$ \000117\061\013\060\011\006\003\125\004\006\023\002\125\123\061 $$ \051\060\047\006\003\125\004\012\023\040\111\156\164\145\162\156 $$ \145\164\040\122\145\163\145 $$ \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

 $\label{eq:condition} $$ \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\002\001 \202\020\317\260\322\100\343\131\104\143\340\273\143\202\213\000 $\label{eq:condition} $$ \006\011\052\206\110\206\367\015\001\001\013\005\000\060$$$ \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\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 \061\060\202\002\042\060\015\006\011\052\206\110\206\367\015\001 \001\000\255\350\044\163\364\024\067\363\233\236\053\127\050\034 \207\276\334\267\337\070\220\214\156\074\346\127\240\170\367\165 \302\242\376\365\152\156\366\000\117\050\333\336\150\206\154\104 \223\266\261\143\375\024\022\153\277\037\322\352\061\233\041\176 \321\063\074\272\110\365\335\171\337\263\270\377\022\361\041\232 \113\301\212\206\161\151\112\146\146\154\217\176\074\160\277\255

\051\042\006\363\344\300\346\200\256\342\113\217\267\231\176\224 \003\237\323\107\227\174\231\110\043\123\350\070\256\117\012\157 \203\056\321\111\127\214\200\164\266\332\057\320\070\215\173\003 \160\041\033\165\362\060\074\372\217\256\335\332\143\253\353\026 \117\302\216\021\113\176\317\013\350\377\265\167\056\364\262\173 \112\340\114\022\045\014\160\215\003\051\240\341\123\044\354\023 \331\356\031\277\020\263\112\214\077\211\243\141\121\336\254\207 \007\224\364\143\161\354\056\342\157\133\230\201\341\211\134\064 \171\154\166\357\073\220\142\171\346\333\244\232\057\046\305\320 \020\341\016\336\331\020\216\026\373\267\367\250\367\307\345\002 $\label{eq:condition} $$ \007\230\217\066\010\225\347\342\067\226\015\066\165\236\373\016$$$ \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 $\label{eq:condition} $$ \050\027\154\322\230\301\250\011\144\167\156\107\067\272\316\254$$ $\label{eq:condition} $$ \frac{131}{136}\frac{35}{177}\frac{326}{211}\frac{305}{006}\frac{101}{051}\frac{076}{131}\frac{335}{076} $$$ \046\365\044\311\021\247\132\243\114\100\037\106\241\231\265\247 $\label{eq:condition} $$ \072\121\156\206\073\236\175\162\247\022\005\170\131\355\076\121 $$$ \170\025\013\003\217\215\320\057\005\262\076\173\112\034\113\163 \005\022\374\306\352\340\120\023\174\103\223\164\263\312\164\347 \216\037\001\010\320\060\324\133\161\066\264\007\272\301\060\060 \134\110\267\202\073\230\246\175\140\212\242\243\051\202\314\272 \275\203\004\033\242\203\003\101\241\326\005\361\033\302\266\360 $\label{eq:condition} $$ \250\174\206\073\106\250\110\052\210\334\166\232\166\277\037\152$$ \245\075\031\217\353\070\363\144\336\310\053\015\012\050\377\367 $\label{eq:condition} $$ 33\342\025\102\324\042\320\047\135\341\171\376\030\347\160\210 $$$ \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 $\label{eq:condition} $$ \035\017\001\001\377\004\004\003\002\001\006\060\017\006\003\125$ \035\023\001\001\377\004\005\060\003\001\001\377\060\035\006\003 \125\035\016\004\026\004\024\171\264\131\346\173\266\345\344\001 $\label{eq:condition} $$ 163\200\010\210\310\032\130\366\351\233\156\060\015\006\011\052$ \206\110\206\367\015\001\001\013\005\000\003\202\002\001\000\125 \037\130\251\274\262\250\120\320\014\261\330\032\151\040\047\051 \010\254\141\165\134\212\156\370\202\345\151\057\325\366\126\113 \271\270\163\020\131\323\041\227\176\347\114\161\373\262\322\140 \255\071\250\013\352\027\041\126\205\361\120\016\131\353\316\340 \131\351\272\311\025\357\206\235\217\204\200\366\344\351\221\220 \334\027\233\142\033\105\360\146\225\322\174\157\302\352\073\357 $\label{eq:condition} $$ \037\317\313\326\256\047\361\251\260\310\256\375\175\176\232\372$ $\\ \langle 042 \rangle 004 \rangle 353 \rangle 377 \rangle 331 \rangle 177 \rangle 352 \rangle 221 \rangle 053 \rangle 042 \rangle 261 \rangle 027 \rangle 016 \rangle 217 \rangle 362 \rangle 212 \rangle 212 \rangle 212 \rangle 212 \rangle 213 \rangle$ \064\133\130\330\374\001\311\124\271\270\046\314\212\210\063\211 \114\055\204\074\202\337\356\226\127\005\272\054\273\367\304\267 \307\116\073\202\276\061\310\042\163\163\222\321\302\200\244\071 \071\020\063\043\202\114\074\237\206\262\125\230\035\276\051\206 \214\042\233\236\342\153\073\127\072\202\160\115\334\011\307\211 \313\012\007\115\154\350\135\216\311\357\316\253\307\273\265\053 \116\105\326\112\320\046\314\345\162\312\010\152\245\225\343\025 \241\367\244\355\311\054\137\245\373\377\254\050\002\056\276\327

\173\273\343\161\173\220\026\323\007\136\106\123\174\067\007\102 \214\323\304\226\234\325\231\265\052\340\225\032\200\110\256\114 \071\007\316\314\107\244\122\225\053\272\270\373\255\322\063\123 \175\345\035\115\155\325\241\261\307\102\157\346\100\047\065\134 \243\050\267\007\215\347\215\063\220\347\043\237\373\120\234\171 \154\106\325\264\025\263\226\156\176\233\014\226\072\270\122\055 \077\326\133\341\373\010\302\204\376\044\250\243\211\332\254\152 \341\030\052\261\250\103\141\133\323\037\334\073\215\166\362\055 \350\215\165\337\027\063\154\075\123\373\173\313\101\137\377\334 \242\320\141\070\341\226\270\254\135\213\067\327\165\325\063\300 \231\021\256\235\101\301\162\165\204\276\002\101\102\137\147\044 $\label{eq:condition} $$ \frac{110}{224}\frac{321}{233}\frac{047}{276}\frac{007}{077}\frac{271}{270}\frac{117}{201}\frac{164}{121}\frac{341}{172}$ \267\355\235\043\342\276\340\325\050\004\023\074\061\003\236\335 \172\154\217\306\007\030\306\177\336\107\216\077\050\236\004\006 \317\245\124\064\167\275\354\211\233\351\027\103\337\133\333\137 \376\216\036\127\242\315\100\235\176\142\042\332\336\030\047 **END**

CKA_NSS_MOZILLA_CA_POLICY

CK_BBOOL CK_TRUE

CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "ISRG Root X1"

Issuer: CN=ISRG Root X1,O=Internet Security Research Group,C=US

Serial Number:00:82:10:cf:b0:d2:40:e3:59:44:63:e0:bb:63:82:8b:00

#

Subject: CN=ISRG Root X1,O=Internet Security Research Group,C=US

Not Valid Before: Thu Jun 04 11:04:38 2015

Not Valid After: Mon Jun 04 11:04:38 2035

Fingerprint (SHA-256):

96:BC:EC:06:26:49:76:F3:74:60:77:9A:CF:28:C5:A7:CF:E8:A3:C0:AA:E1:1A:8F:FC:EE:05:C0:BD:DF:08:C6

Fingerprint (SHA1): CA:BD:2A:79:A1:07:6A:31:F2:1D:25:36:35:CB:03:9D:43:29:A5:E8

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "ISRG Root X1"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL

\312\275\052\171\241\007\152\061\362\035\045\066\065\313\003\235 \103\051\245\350

END

CKA CERT MD5 HASH MULTILINE OCTAL

 $\\014\\322\\371\\340\\332\\027\\163\\351\\355\\206\\115\\245\\343\\160\\347\\116$

END

CKA_ISSUER MULTILINE_OCTAL

\060\117\061\013\060\011\006\003\125\004\006\023\002\125\123\061 \051\060\047\006\003\125\004\012\023\040\111\156\164\145\162\156 \145\164\040\123\145\143\165\162\151\164\171\040\122\145\163\145

```
\141\162\143\150\040\107\162\157\165\160\061\025\060\023\006\003
\125\004\003\023\014\111\123\122\107\040\122\157\157\164\040\130
\061
END
CKA SERIAL NUMBER
MULTILINE OCTAL
\002\021\000\202\020\317\260\322\100\343\131\104\143\340\273\143
\202\213\000
END
CKA TRUST SERVER AUTH CK TRUST CKT NSS TRUSTED DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA TRUST STEP UP APPROVED CK BBOOL CK FALSE
#
# Certificate "AC RAIZ FNMT-RCM"
# Issuer: OU=AC RAIZ FNMT-RCM.O=FNMT-RCM.C=ES
# Serial Number:5d:93:8d:30:67:36:c8:06:1d:1a:c7:54:84:69:07
# Subject: OU=AC RAIZ FNMT-RCM,O=FNMT-RCM,C=ES
# Not Valid Before: Wed Oct 29 15:59:56 2008
# Not Valid After: Tue Jan 01 00:00:00 2030
# Fingerprint (SHA-256):
EB:C5:57:0C:29:01:8C:4D:67:B1:AA:12:7B:AF:12:F7:03:B4:61:1E:BC:17:B7:DA:B5:57:38:94:17:9B:93:FA
# Fingerprint (SHA1): EC:50:35:07:B2:15:C4:95:62:19:E2:A8:9A:5B:42:99:2C:4C:2C:20
CKA CLASS CK OBJECT CLASS CKO CERTIFICATE
CKA TOKEN
CK_BBOOL CK_TRUE
CKA PRIVATE CK BBOOL CK FALSE
CKA MODIFIABLE CK BBOOL CK FALSE
CKA_LABEL UTF8 "AC RAIZ FNMT-RCM"
CKA CERTIFICATE TYPE CK CERTIFICATE TYPE CKC X 509
CKA SUBJECT MULTILINE OCTAL
\label{eq:condition} $$ \060\073\061\013\060\011\006\003\125\004\006\023\002\105\123\061 $$
\021\060\017\006\003\125\004\012\014\010\106\116\115\124\055\122
\103\115\061\031\060\027\006\003\125\004\013\014\020\101\103\040
\122\101\111\132\040\106\116\115\124\055\122\103\115
END
CKA ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\073\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\103\115\061\031\060\027\006\003\125\004\013\014\020\101\103\040
\122\101\111\132\040\106\116\115\124\055\122\103\115
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\017\135\223\215\060\147\066\310\006\035\032\307\124\204\151
\007
```

END

CKA VALUE MULTILINE OCTAL

\060\202\005\203\060\202\003\153\240\003\002\001\002\002\017\135 \223\215\060\147\066\310\006\035\032\307\124\204\151\007\060\015 \006\011\052\206\110\206\367\015\001\001\013\005\000\060\073\061 \006\003\125\004\012\014\010\106\116\115\124\055\122\103\115\061 \031\060\027\006\003\125\004\013\014\020\101\103\040\122\101\111 \132\040\106\116\115\124\055\122\103\115\060\036\027\015\060\070 \061\060\062\071\061\065\065\071\065\066\132\027\015\063\060\060 $\label{eq:condition} $$ \006\003\125\004\006\023\002\105\123\061\021\060\017\006\003\125\$ \004\012\014\010\106\116\115\124\055\122\103\115\061\031\060\027 $\label{eq:condition} $$ \006\003\125\004\013\014\020\101\103\040\122\101\111\132\040\106$ \206\110\206\367\015\001\001\001\005\000\003\202\002\017\000\060 $\label{eq:condition} $$ \202\002\002\001\000\272\161\200\172\114\206\156\177 $$$ \310\023\155\300\306\175\034\000\227\217\054\014\043\273\020\232 \100\251\032\267\207\210\370\233\126\152\373\346\173\216\213\222 \216\247\045\135\131\021\333\066\056\267\121\027\037\251\010\037 \004\027\044\130\252\067\112\030\337\345\071\324\127\375\327\301 \054\221\001\221\342\042\324\003\300\130\374\167\107\354\217\076 $\label{eq:condition} $$ 164\103\272\254\064\215\115\070\166\147\216\260\310\157\060\063$ \130\161\134\264\365\153\156\324\001\120\270\023\176\154\112\243 \111\321\040\031\356\274\300\051\030\145\247\336\376\357\335\012 \220\041\347\032\147\222\102\020\230\137\117\060\274\076\034\105 \264\020\327\150\100\024\300\100\372\347\167\027\172\346\013\217 \145\133\074\331\232\122\333\265\275\236\106\317\075\353\221\005 \002\300\226\262\166\114\115\020\226\073\222\372\234\177\017\231 \337\276\043\065\105\036\002\134\376\265\250\233\231\045\332\136 \363\042\303\071\365\344\052\056\323\306\037\304\154\252\305\034 \152\001\005\112\057\322\305\301\250\064\046\135\146\245\322\002 \041\371\030\267\006\365\116\231\157\250\253\114\121\350\317\120 \030\305\167\310\071\011\054\111\222\062\231\250\273\027\027\171 \260\132\305\346\243\304\131\145\107\065\203\136\251\350\065\013 \231\273\344\315\040\306\233\112\006\071\265\150\374\042\272\356 \125\214\053\116\352\363\261\343\374\266\231\232\325\102\372\161 \115\010\317\207\036\152\161\175\371\323\264\351\245\161\201\173 $\label{eq:condition} $$ \302\116\107\226\245\366\166\205\243\050\217\351\200\156\201\123$ \245\155\137\270\110\371\302\371\066\246\056\111\377\270\226\302 \214\007\263\233\210\130\374\353\033\034\336\055\160\342\227\222 \060\241\211\343\274\125\250\047\326\113\355\220\255\213\372\143 $\label{eq:condition} $$ \045\131\055\250\065\335\312\227\063\274\345\315\307\235\321\354$$ \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 $\label{eq:condition} $$ 140\232\155\060\076\006\003\125\035\040\004\067\060\065\060\063$ \006\004\125\035\040\000\060\053\060\051\006\010\053\006\001\005 \005\007\002\001\026\035\150\164\164\160\072\057\057\167\167\167 $\label{eq:condition} $$ \056\143\145\162\164\056\146\155\164\056\145\163\057\144\160$$$ \143\163\057\060\015\006\011\052\206\110\206\367\015\001\001\013 $\label{eq:condition} $$ \005\000\003\202\002\001\000\007\220\112\337\363\043\116\360\303$ $\verb|234|121|145|233|234|042|242|212|014|205|363|163|051|153|115|376|$ \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:condition} $$ 105\174\145\014\370\262\067\317\254\017\317\215\157\371\031\367 $$$ \217\354\036\362\160\236\360\312\270\357\267\377\166\067\166\133 \366\156\210\363\257\142\062\042\223\015\072\152\216\024\146\014 \055\123\164\127\145\036\325\262\335\043\201\073\245\146\043\047 \147\011\217\341\167\252\103\315\145\121\010\355\121\130\376\346 $\label{eq:condition} $$ \071\371\313\107\204\244\025\361\166\273\244\356\244\073\304\137$ \357\262\063\226\021\030\267\311\145\276\030\341\243\244\334\372 \030\371\323\274\023\233\071\172\064\272\323\101\373\372\062\212 $\label{eq:condition} $$ \052\267\053\206\013\151\203\070\276\315\212\056\013\160\255\215 $$$ \046\222\356\036\365\001\053\012\331\326\227\233\156\340\250\031 $\label{eq:condition} $$ \034\072\041\213\014\036\100\255\003\347\335\146\176\365\271\040 $$$ \015\003\350\226\371\202\105\324\071\340\240\000\135\327\230\346 \175\236\147\163\303\232\052\367\253\213\241\072\024\357\064\274 \316\370\120\174\117\034\156\004\103\233\371\326\073\043\030\351 \352\216\321\115\106\215\361\073\344\152\312\272\373\043\267\233 \372\231\001\051\132\130\132\055\343\371\324\155\016\046\255\301 \156\064\274\062\370\014\005\372\145\243\333\073\067\203\042\351 \326\334\162\063\375\135\362\040\275\166\074\043\332\050\367\371 \033\353\131\144\325\334\137\162\176\040\374\315\211\265\220\147 \115\142\172\077\116\255\035\303\071\376\172\364\050\026\337\101 $\label{eq:condition} $$ \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 $\label{eq:condition} $$ 106\241\010\257\326\332\105\031\226\324\123\035\133\204\171\360 $$$ \300\367\107\357\213\217\305\006\256\235\114\142\235\377\106\004 \370\323\311\266\020\045\100\165\376\026\252\311\112\140\206\057 \272\357\060\167\344\124\342\270\204\231\130\200\252\023\213\121 \072\117\110\366\213\266\263

END

CKA_NSS_MOZILLA_CA_POLICY

CK_BBOOL CK_TRUE

CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

```
# Trust for "AC RAIZ FNMT-RCM"
# Issuer: OU=AC RAIZ FNMT-RCM,O=FNMT-RCM,C=ES
# Serial Number:5d:93:8d:30:67:36:c8:06:1d:1a:c7:54:84:69:07
# Subject: OU=AC RAIZ FNMT-RCM,O=FNMT-RCM,C=ES
# Not Valid Before: Wed Oct 29 15:59:56 2008
Not Valid After: Tue Jan 01 00:00:00 2030
# Fingerprint (SHA-256):
EB:C5:57:0C:29:01:8C:4D:67:B1:AA:12:7B:AF:12:F7:03:B4:61:1E:BC:17:B7:DA:B5:57:38:94:17:9B:93:FA
# Fingerprint (SHA1): EC:50:35:07:B2:15:C4:95:62:19:E2:A8:9A:5B:42:99:2C:4C:2C:20
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA TOKEN CK BBOOL CK TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA LABEL UTF8 "AC RAIZ FNMT-RCM"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\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
\label{eq:condition} $$ \060\073\061\013\060\011\006\003\125\004\006\023\002\105\123\061 $$
\021\060\017\006\003\125\004\012\014\010\106\116\115\124\055\122
\103\115\061\031\060\027\006\003\125\004\013\014\020\101\103\040
\122\101\111\132\040\106\116\115\124\055\122\103\115
END
CKA SERIAL NUMBER MULTILINE OCTAL
\label{eq:condition} $$ \002\017\135\223\215\060\147\066\310\006\035\032\307\124\204\151 $$
\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

END

CKA ID

UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

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

 $\label{eq:condition} $$ \0.060\202\003\101\060\202\002\0051\240\003\002\001\002\002\002\006$ \154\237\317\231\277\214\012\071\342\360\170\212\103\346\226\066 \133\312\060\015\006\011\052\206\110\206\367\015\001\001\013\005 $\label{eq:condition} $$ \000\060\071\061\013\060\011\006\003\125\004\006\023\002\125\123$ \061\017\060\015\006\003\125\004\012\023\006\101\155\141\172\157 \156\061\031\060\027\006\003\125\004\003\023\020\101\155\141\172 \157\156\040\122\157\157\164\040\103\101\040\061\060\036\027\015 \061\065\060\065\062\066\060\060\060\060\060\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 $\label{eq:condition} $$ \006\003\125\004\003\023\020\101\155\141\172\157\156\040\122\157$ $\label{eq:condition} $$ 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:condition} $$ 356 \ 224 \ 170 \ 136 \ 157 \ 211 \ 243 \ 121 \ 300 \ 060 \ 206 \ 146 \ 241 \ 105 \ 146 \ 272$ \124\353\243\303\221\371\110\334\377\321\350\060\055\175\055\164 \160\065\327\210\044\367\236\304\131\156\273\163\207\027\362\062 $\label{eq:condition} $$ 106\050\270\103\372\267\035\252\312\264\362\237\044\016\055\113 $$$ \367\161\134\136\151\377\352\225\002\313\070\212\256\120\070\157 $\label{eq:condition} $$ 33\sqrt{373} 055\sqrt{142} 033\sqrt{305} 307\sqrt{36} 124\sqrt{341} 167\sqrt{340} 147\sqrt{310} 017\sqrt{234}$ $\label{eq:condition} $$ \207\043\326\077\100\040\177\040\200\304\200\114\076\073\044\046 $$$ \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 $\label{eq:condition} $$ \001\377\060\016\006\003\125\035\017\001\001\377\004\004\003\002$ \001\206\060\035\006\003\125\035\016\004\026\004\024\204\030\314 $\label{eq:condition} $$ \205\064\354\274\014\224\224\056\010\131\234\307\262\020\116\012 $$$ $\label{eq:condition} $$ \0.010\0.060\0.015\0.006\0.011\0.052\2.06\1.10\2.06\3.67\0.015\0.01\0.01\0.013\0.05\0.000$ \003\202\001\001\000\230\362\067\132\101\220\241\032\305\166\121 $\label{eq:condition} $$ \0.050\0.40\0.66\0.43\0.16\2.56\3.46\0.50\2.73\2.52\3.70\2.24\2.56\1.10\2.44\0.60$ \177\033\374\044\215\113\264\310\241\227\366\266\361\172\160\310 \123\223\314\010\050\343\230\045\317\043\244\371\336\041\323\174 $\label{eq:condition} $$\205\011\255\116\232\165\072\302\013\152\211\170\166\104\107\030$$ \145\154\215\101\216\073\177\232\313\364\265\247\120\327\005\054 \067\350\003\113\255\351\141\240\002\156\365\362\360\305\262\355 $\label{eq:condition} $$ 133\267\334\372\224\134\167\236\023\245\177\122\255\225\362\370$$ \223\073\336\213\134\133\312\132\122\133\140\257\024\367\113\357 \243\373\237\100\225\155\061\124\374\102\323\307\106\037\043\255 \331\017\110\160\232\331\165\170\161\321\162\103\064\165\156\127 \131\302\002\134\046\140\051\317\043\031\026\216\210\103\245\324 $\label{eq:condition} $\344\313\010\373\043\021\103\350\103\051\162\142\241\251\135\136$ \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 $\verb|256|245|321|175|272|020|236|206|154|033|212|271|131|063|370|353|$ \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"
```

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

[#] 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_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Amazon Root CA 1"
CKA CERT SHA1 HASH MULTILINE OCTAL
\215\247\371\145\354\136\374\067\221\017\034\156\131\375\301\314
\152\156\336\026
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\103\306\277\256\354\376\255\057\030\306\210\150\060\374\310\346
END
CKA_ISSUER
MULTILINE OCTAL
\060\071\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\label{eq:condition} $$ \006\003\125\004\012\023\006\101\155\141\172\157\156 $$
\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
\label{eq:condition} $$ \002\023\006\154\237\317\231\277\214\012\071\342\360\170\212\103
\346\226\066\133\312
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA TRUST EMAIL PROTECTION CK TRUST CKT NSS TRUSTED DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA TRUST STEP UP APPROVED CK BBOOL CK FALSE
# Certificate "Amazon Root CA 2"
# Issuer: CN=Amazon Root CA 2,O=Amazon,C=US
# Serial Number:06:6c:9f:d2:96:35:86:9f:0a:0f:e5:86:78:f8:5b:26:bb:8a:37
# Subject: CN=Amazon Root CA 2,O=Amazon,C=US
# Not Valid Before: Tue May 26 00:00:00 2015
# Not Valid After: Sat May 26 00:00:00 2040
# Fingerprint
(SHA-256):
1B:A5:B2:AA:8C:65:40:1A:82:96:01:18:F8:0B:EC:4F:62:30:4D:83:CE:C4:71:3A:19:C3:9C:01:1E:A4:6D:B4
# Fingerprint (SHA1): 5A:8C:EF:45:D7:A6:98:59:76:7A:8C:8B:44:96:B5:78:CF:47:4B:1A
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Amazon Root CA 2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\071\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\017\060\015\006\003\125\004\012\023\006\101\155\141\172\157\156
```

CKA_TOKEN CK_BBOOL CK_TRUE
CKA PRIVATE CK BBOOL CK FALSE

\061\031\060\027\006\003\125\004\003\023\020\101\155\141\172\157 \156\040\122\157\157\164\040\103\101\040\062

END

CKA ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

\002\023\006\154\237\322\226\065\206\237\012\017\345\206\170\370 \133\046\273\212\067

END

CKA_VALUE

MULTILINE OCTAL

\060\202\005\101\060\202\003\051\240\003\002\001\002\002\003\006 \154\237\322\226\065\206\237\012\017\345\206\170\370\133\046\273 \212\067\060\015\006\011\052\206\110\206\367\015\001\001\014\005 $\label{eq:condition} $$ \000\060\071\061\013\060\011\006\003\125\004\006\023\002\125\123$ \061\017\060\015\006\003\125\004\012\023\006\101\155\141\172\157 \156\061\031\060\027\006\003\125\004\003\023\020\101\155\141\172 $\label{eq:condition} $$ \frac{157}{156}040\\122\\157\\157\\164\\040\\103\\101\\040\\062\\060\\036\\027\\015$ \061\065\060\065\062\066\060\060\060\060\060\060\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 $\label{eq:condition} $$ \202\002\002\001\000\255\226\237\055\234\112\114\112$ \201\171\121\231\354\212\313\153\140\121\023\274\115\155\006\374 \260\010\215\335\031\020\152\307\046\014\065\330\300\157\040\204 \351\224\261\233\205\003\303\133\333\112\350\310\370\220\166\331 \133\117\343\114\350\006\066\115\314\232\254\075\014\220\053\222 \324\006\031\140\254\067\104\171\205\201\202\255\132\067\340\015 \314\235\246\114\122\166\352\103\235\267\004\321\120\366\125\340 \325\322\246\111\205\351\067\351\312\176\256\134\225\115\110\232 $\label{eq:condition} $$ \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 $\label{eq:condition} $$ \frac{111}132\\050\\376\\062\\104\\273\\207\\335\\145\\047\\002\\161\\073\\332\\112$ \367\037\332\315\367\041\125\220\117\017\354\256\202\341\237\153 \331\105\323\273\360\137\207\355\074\054\071\206\332\077\336\354 \162\125\353\171\243\255\333\335\174\260\272\034\316\374\336\117 \065\166\317\017\370\170\037\152\066\121\106\047\141\133\351\236 \317\360\242\125\175\174\045\212\157\057\264\305\317\204\056\053 \375\015\121\020\154\373\137\033\274\033\176\305\256\073\230\001

\061\222\377\013\127\364\232\262\271\127\351\253\357\015\166\321 \360\356\364\316\206\247\340\156\351\264\151\241\337\151\366\063 \306\151\056\227\023\236\245\207\260\127\020\201\067\311\123\263 \273\177\366\222\321\234\320\030\364\222\156\332\203\117\246\143 \231\114\245\373\136\357\041\144\172\040\137\154\144\205\025\313 $\label{eq:condition} $$ \067\351\142\014\013\052\026\334\001\056\062\332\076\113\365\236$ \072\366\027\100\224\357\236\221\010\206\372\276\143\250\132\063 \354\313\164\103\225\371\154\151\122\066\307\051\157\374\125\003 $\label{eq:condition} $$ 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 $\label{eq:condition} $$ \027\140\355\315\353\334\333\247\312\305\176\002\275\362\124\010 $$$ \124\375\264\055\011\054\027\124\112\230\321\124\341\121\147\010 $\label{eq:condition} $$ \frac{322}{355}156\\176\\157\\077\\322\\055\\201\\131\\051\\146\\313\\220\\071\\225$ $\label{eq:condition} $$ \021\036\164\047\376\335\353\257\002\003\001\000\001\243\102\060 $$$ \100\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001 $\label{eq:condition} $$ \001\377\060\016\006\003\125\035\017\001\001\377\004\004\003\002$ \001\206\060\035\006\003\125\035\016\004\026\004\024\260\014\360 \114\060\364\005\130\002\110\375\063\345\122\257\113\204\343\146 $\label{eq:condition} $$ \frac{122\\060\\015\\006\\011\\052\\206\\110\\206\\367\\015\\001\\001\\001\\014\\005\\000$ \003\202\002\001\000\252\250\200\217\016\170\243\340\242\324\315 \346\365\230\172\073\352\000\003\260\227\016\223\274\132\250\366 $\label{eq:condition} $$ \054\214\162\207\251\261\374\177\163\375\143\161\170\245\207\131 $$$ \317\060\341\015\020\262\023\132\155\202\365\152\346\200\237\240 $\label{eq:condition} $$ \005\013\150\344\107\153\307\152\337\266\375\167\062\162\345\030 $$$ \372\011\364\240\223\054\135\322\214\165\205\166\145\220\014\003 \171\267\061\043\143\255\170\203\011\206\150\204\312\377\371\317 $\\ \\ \langle 046 \rangle 232 \rangle 222 \rangle 171 \rangle 347 \rangle 315 \rangle 113 \rangle 305 \rangle 347 \rangle 141 \rangle 247 \rangle 027 \rangle 313 \rangle 363 \rangle 251 \rangle 022$ \223\223\153\247\350\057\123\222\304\140\130\260\314\002\121\030 \133\205\215\142\131\143\266\255\264\336\232\373\046\367\000\047 $\label{eq:condition} $$ 300\135\125\067\164\231\311\120\177\343\131\056\104\343\054\045$$ \356\354\114\062\167\264\237\032\351\113\135\040\305\332\375\034 \207\026\306\103\350\324\273\046\232\105\160\136\251\013\067\123 \342\106\173\047\375\340\106\362\211\267\314\102\266\313\050\046 \156\331\245\311\072\310\101\023\140\367\120\214\025\256\262\155 \032\025\032\127\170\346\222\052\331\145\220\202\077\154\002\257 \256\022\072\047\226\066\004\327\035\242\200\143\251\233\361\345 \272\264\174\024\260\116\311\261\037\164\137\070\366\121\352\233 $\label{eq:condition} $$ \372\054\242\021\324\251\055\047\032\105\261\257\262\116\161\015$ $\label{eq:condition} $$ 300\130\106\326\151\006\313\123\313\263\376\153\101\315\101\176$ \175\114\017\174\162\171\172\131\315\136\112\016\254\233\251\230 \163\171\174\264\364\314\271\270\007\014\262\164\134\270\307\157 \210\241\220\247\364\252\371\277\147\072\364\032\025\142\036\267 \237\276\075\261\051\257\147\241\022\362\130\020\031\123\003\060 \033\270\032\211\366\234\275\227\003\216\243\011\363\035\213\041 \361\264\337\344\034\321\237\145\002\006\352\134\326\023\263\204 \357\242\245\134\214\167\051\247\150\300\153\256\100\322\250\264 \352\315\360\215\113\070\234\031\232\033\050\124\270\211\220\357

 $\label{eq:control} $$ \frac{312\165\201\076\036\362\144\044\307\030\257\116\377\107\236\007\366\065\145\244\323\012\126\377\365\027\144\154\357\250\042\045\111\223\266\337\000\027\332\130\176\135\356\305\033\260\321\321\137\041\020\307\371\363\272\002\012\047\007\305\361\326\307\323\340\373\011\140\154$

END

CKA NSS MOZILLA CA POLICY

CK_BBOOL CK_TRUE

CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE

CKA NSS EMAIL DISTRUST AFTER CK BBOOL CK FALSE

Trust for "Amazon Root CA 2"

Issuer: CN=Amazon Root CA 2.O=Amazon.C=US

Serial Number:06:6c:9f:d2:96:35:86:9f:0a:0f:e5:86:78:f8:5b:26:bb:8a:37

Subject: CN=Amazon Root CA 2,O=Amazon,C=US

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

Not Valid After:

Sat May 26 00:00:00 2040

Fingerprint (SHA-256):

1B:A5:B2:AA:8C:65:40:1A:82:96:01:18:F8:0B:EC:4F:62:30:4D:83:CE:C4:71:3A:19:C3:9C:01:1E:A4:6D:B4

Fingerprint (SHA1): 5A:8C:EF:45:D7:A6:98:59:76:7A:8C:8B:44:96:B5:78:CF:47:4B:1A

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

CKA_TOKEN CK_BBOOL CK_TRUE

CKA PRIVATE CK BBOOL CK FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA LABEL UTF8 "Amazon Root CA 2"

CKA CERT SHA1 HASH MULTILINE OCTAL

 $\label{eq:condition} $$ \frac{132}{214}\frac{357}{105}\frac{327}{246}\frac{30}{131}\frac{166}{172}\frac{214}{213}\frac{104}{226}\frac{65}{170} $$$

\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

 $\label{eq:condition} $$ \061\031\060\027\006\003\125\004\003\023\020\101\155\141\172\157$

\156\040\122\157\157\164\040\103\101\040\062

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

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

\133\046\273\212\067

END

CKA_TRUST_SERVER_AUTH

 $CK_TRUST\ CKT_NSS_TRUSTED_DELEGATOR$

CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR

CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST

CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Certificate "Amazon Root CA 3"

#

- # Issuer: CN=Amazon Root CA 3,O=Amazon,C=US
- # Serial Number:06:6c:9f:d5:74:97:36:66:3f:3b:0b:9a:d9:e8:9e:76:03:f2:4a
- # Subject: CN=Amazon Root CA 3,O=Amazon,C=US
- # Not Valid Before: Tue May 26 00:00:00 2015
- # Not Valid After: Sat May 26 00:00:00 2040
- # Fingerprint (SHA-256):

18:CE:6C:FE:7B:F1:4E:60:B2:E3:47:B8:DF:E8:68:CB:31:D0:2E:BB:3A:DA:27:15:69:F5:03:43:B4:6D:B3:A4

Fingerprint (SHA1): 0D:44:DD:8C:3C:8C:1A:1A:58:75:64:81:E9:0F:2E:2A:FF:B3:D2:6E

CKA CLASS CK OBJECT CLASS CKO CERTIFICATE

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "Amazon Root CA 3"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA SUBJECT MULTILINE OCTAL

 $\label{eq:condition} $$ \000\071\061\013\060\011\006\003\125\004\006\023\002\125\123\061 $$$

\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

 $\label{eq:condition} $$ \000\071\061\013\060\011\006\003\125\004\006\023\002\125\123\061\$

\017\060\015\006\003\125\004\012\023\006\101\155\141\172\157\156

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

\156\040\122\157\157\164\040\103\101\040\063

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

\002\023\006\154\237\325\164\227\066\146\077\073\013\232\331\350 \236\166\003\362\112

END

CKA_VALUE MULTILINE_OCTAL

\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 $\label{eq:condition} $$ \001\006\010\052\206\110\316\075\003\001\007\003\102\000\004\051 $$$ \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 $\label{eq:condition} $$ \003\001\001\377\060\016\006\003\125\035\017\001\001\377\004\004$ \003\002\001\206\060\035\006\003\125\035\016\004\026\004\024\253 \266\333\327\006\236\067\254\060\206\007\221\160\307\234\304\031 \261\170\300\060\012\006\010\052\206\110\316\075\004\003\002\003 \111\000\060\106\002\041\000\340\205\222\243\027\267\215\371\053 $\label{eq:condition} $$ \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:condition} $$ \015\104\335\214\074\214\032\032\130\165\144\201\351\017\056\052$

\377\263\322\156

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL

\240\324\357\013\367\265\330\111\225\052\354\365\304\374\201\207

END

CKA_ISSUER MULTILINE_OCTAL

 $\label{eq:condition} $$ \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

```
\156\040\122\157\157\164\040\103\101\040\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\label{eq:condition} $$ \002\023\006\154\237\325\164\227\066\146\077\073\013\232\331\350 $$
\236\166\003\362\112
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA TRUST CODE SIGNING
CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
# Certificate "Amazon Root CA 4"
# Issuer: CN=Amazon Root CA 4,O=Amazon,C=US
# Serial Number:06:6c:9f:d7:c1:bb:10:4c:29:43:e5:71:7b:7b:2c:c8:1a:c1:0e
# Subject: CN=Amazon Root CA 4,O=Amazon,C=US
# Not Valid Before: Tue May 26 00:00:00 2015
# Not Valid After: Sat May 26 00:00:00 2040
# Fingerprint (SHA-256):
E3:5D:28:41:9E:D0:20:25:CF:A6:90:38:CD:62:39:62:45:8D:A5:C6:95:FB:DE:A3:C2:2B:0B:FB:25:89:70:92
# Fingerprint (SHA1): F6:10:84:07:D6:F8:BB:67:98:0C:C2:E2:44:C2:EB:AE:1C:EF:63:BE
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA TOKEN CK BBOOL CK TRUE
CKA PRIVATE CK BBOOL CK FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA LABEL UTF8 "Amazon Root CA 4"
CKA CERTIFICATE TYPE CK CERTIFICATE TYPE CKC X 509
CKA_SUBJECT MULTILINE_OCTAL
\060\071\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\017\060\015\006\003\125\004\012\023\006\101\155\141\172\157\156
\061\031\060\027\006\003\125\004\003\023\020\101\155\141\172\157
\156\040\122\157\157\164\040\103\101\040\064
END
CKA ID
UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\071\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\017\060\015\006\003\125\004\012\023\006\101\155\141\172\157\156
\061\031\060\027\006\003\125\004\003\023\020\101\155\141\172\157
\156\040\122\157\157\164\040\103\101\040\064
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\023\006\154\237\327\301\273\020\114\051\103\345\161\173\173
\054\310\032\301\016
END
```

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

CKA VALUE MULTILINE OCTAL

\060\202\001\362\060\202\001\170\240\003\002\001\002\002\023\006 \154\237\327\301\273\020\114\051\103\345\161\173\173\054\310\032 \301\016\060\012\006\010\052\206\110\316\075\004\003\003\060\071 \061\013\060\011\006\003\125\004\006\023\002\125\123\061\017\060 $\label{eq:condition} $$ \006\003\125\004\012\023\006\101\155\141\172\157\156\061\031\$ \060\027\006\003\125\004\003\023\020\101\155\141\172\157\156\040 \122\157\157\164\040\103\101\040\064\060\036\027\015\061\065\060 \065\062\066\060\060\060\060\060\060\132\027\015\064\060\060\065 \062\066\060\060\060\060\060\060\060\132\060\071\061\013\060\011\006 $\label{eq:condition} $$ \012\023\006\101\155\141\172\157\156\061\031\060\027\006\003\125 $$$ \004\003\023\020\101\155\141\172\157\156\040\122\157\157\164\040 $\label{eq:condition} $$ 103\101\040\064\060\166\060\020\006\007\052\206\110\316\075\002$ $\label{eq:condition} $$ \001\006\005\053\201\004\000\042\003\142\000\004\322\253\212\067 $$$ \117\243\123\015\376\301\212\173\113\250\173\106\113\143\260\142 \366\055\033\333\010\161\041\322\000\350\143\275\232\047\373\360 \071\156\135\352\075\245\311\201\252\243\133\040\230\105\135\026 \333\375\350\020\155\343\234\340\343\275\137\204\142\363\160\144 $\label{eq:condition} $$ \063\240\313\044\057\160\272\210\241\052\240\165\370\201\256\142 $$$ \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 $\label{eq:condition} $$ 377 \cdot 060 \cdot 016 \cdot 006 \cdot 003 \cdot 125 \cdot 035 \cdot 017 \cdot 001 \cdot 001 \cdot 377 \cdot 004 \cdot 004 \cdot 003 \cdot 002 \cdot 001$ \206\060\035\006\003\125\035\016\004\026\004\024\323\354\307\072 $\label{eq:condition} $$ 145\156\314\341\332\166\232\126\373\234\363\206\155\127\345\201 $$$ \060\012\006\010\052\206\110\316\075\004\003\003\003\150\000\060 \145\002\060\072\213\041\361\275\176\021\255\320\357\130\226\057 $\label{eq:condition} $\326\353\235\176\220\215\053\317\146\125\303\054\343\050\251\160$ \012\107\016\360\067\131\022\377\055\231\224\050\116\052\117\065 \115\063\132\002\061\000\352\165\000\116\073\304\072\224\022\221 $\label{eq:condition} $$ \frac{311}{30}\frac{06}{235}\frac{1023}{162}\frac{247}{210}\frac{234}{212}\frac{344}{114}\frac{333}{226} $$$ \324\254\213\153\153\111\022\123\063\255\327\344\276\044\374\265 \012\166\324\245\274\020

END

CKA_NSS_MOZILLA_CA_POLICY

CK BBOOL CK TRUE

CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

```
# Trust for "Amazon Root CA 4"
```

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

#

[#] 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):

```
CKA CLASS CK OBJECT CLASS CKO NSS TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Amazon Root CA 4"
CKA CERT SHA1 HASH MULTILINE OCTAL
\366\020\204\007\326\370\273\147\230\014\302\342\104\302\353\256
\034\357\143\276
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\211\274\047\325\353\027\215\006\152\151\325\375\211\107\264\315
END
CKA_ISSUER MULTILINE_OCTAL
\label{eq:condition} $$ \060\071\061\013\060\011\006\003\125\004\006\023\002\125\123\061 $$
\017\060\015\006\003\125\004\012\023\006\101\155\141\172\157\156
\061\031\060\027\006\003\125\004\003\023\020\101\155\141\172\157
\156\040\122\157\157\164\040\103\101\040\064
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\023\006\154\237\327\301\273\020\114\051\103\345\161\173\173
\054\310\032\301\016
END
CKA TRUST SERVER AUTH CK TRUST CKT NSS TRUSTED DELEGATOR
CKA_TRUST_EMAIL_PROTECTION
CK TRUST CKT NSS TRUSTED DELEGATOR
CKA TRUST CODE SIGNING CK TRUST CKT NSS MUST VERIFY TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
# Certificate "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
```

Fingerprint (SHA1): F6:10:84:07:D6:F8:BB:67:98:0C:C2:E2:44:C2:EB:AE:1C:EF:63:BE

END

CKA ID

UTF8 "0"

CKA ISSUER MULTILINE OCTAL

\060\105\061\013\060\011\006\003\125\004\006\023\002\104\105\061 \025\060\023\006\003\125\004\012\014\104\055\124\162\165\163 \164\040\107\155\142\110\061\037\060\035\006\003\125\004\003\014 \026\104\055\124\122\125\123\124\040\122\157\157\164\040\103\101 \040\063\040\062\060\061\063

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

\002\003\017\335\254

END

CKA_VALUE MULTILINE_OCTAL

\060\202\004\016\060\202\002\366\240\003\002\001\002\002\003\017 \335\254\060\015\006\011\052\206\110\206\367\015\001\001\013\005 \000\060\105\061\013\060\011\006\003\125\004\006\023\002\104\105 \061\025\060\023\006\003\125\004\012\014\014\104\055\124\162\165 $\label{eq:condition} $$ 163\164\040\107\155\142\110\061\037\060\035\006\003\125\004\003$ \014\026\104\055\124\122\125\123\124\040\122\157\157\164\040\103 \101\040\063\040\062\060\061\063\060\036\027\015\061\063\060\071 \062\060\060\070\062\065\065\061\132\027\015\062\070\060\071\062 \060\060\070\062\065\065\061\132\060\105\061\013\060\011\006\003 \125\004\006\023\002\104\105\061\025\060\023\006\003\125\004\012 \014\014\104\055\124\162\165\163\164\040\107\155\142\110\061\037 \060\035\006\003\125\004\003\014\026\104\055\124\122\125\123\124 $\label{eq:condition} $$ \040\122\157\157\164\040\103\101\040\063\040\062\060\061\063\060$$ \202\001\042\060\015\006\011\052\206\110\206\367\015\001\001\001 \005\000\003\202\001\017\000\060\202\001\012\002\202\001\001\000 \304\173\102\222\202\037\354\355\124\230\216\022\300\312\011\337 \223\156\072\223\134\033\344\020\167\236\116\151\210\154\366\341 \151\362\366\233\242\141\261\275\007\040\164\230\145\361\214\046 \010\315\250\065\312\200\066\321\143\155\350\104\172\202\303\154 $\label{eq:condition} $$ 136\336\273\350\066\322\304\150\066\214\237\062\275\204\042\340 $$$ \334\302\356\020\106\071\155\257\223\071\256\207\346\303\274\011 \311\054\153\147\133\331\233\166\165\114\013\340\273\305\327\274 \076\171\362\137\276\321\220\127\371\256\366\146\137\061\277\323 \155\217\247\272\112\363\043\145\273\267\357\243\045\327\012\352 \130\266\357\210\372\372\171\262\122\130\325\360\254\214\241\121 \164\051\225\252\121\073\220\062\003\237\034\162\164\220\336\075 \355\141\322\345\343\375\144\107\345\271\267\112\251\367\037\256 \226\206\004\254\057\343\244\201\167\267\132\026\377\330\017\077 \366\267\170\314\244\257\372\133\074\022\133\250\122\211\162\357 \210\363\325\104\201\206\225\043\237\173\335\274\331\064\357\174

\224\074\252\300\101\302\343\235\120\032\300\344\031\042\374\263 \002\003\001\000\001\243\202\001\005\060\202\001\001\006\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 $\label{eq:condition} $$ \03125\035\017\001\001\377\004\004\003\002\001\006\060\201\276$ \006\003\125\035\037\004\201\266\060\201\263\060\164\240\162\240 \160\206\156\154\144\141\160\072\057\057\144\151\162\145\143\164 \157\162\171\056\144\055\164\162\165\163\164\056\156\145\164\057 \103\116\075\104\055\124\122\125\123\124\045\062\060\122\157\157 \164\045\062\060\103\101\045\062\060\063\045\062\060\061 \142\110\054\103\075\104\105\077\143\145\162\164\151\146\151\143 \141\164\145\162\145\166\157\143\141\164\151\157\156\154\151\163 \164\060\073\240\071\240\067\206\065\150\164\164\160\072\057\057 \143\162\154\056\144\055\164\162\165\163\164\056\156\145\164\057 \143\162\154\057\144\055\164\162\165\163\164\137\162\157\157\164 \137\143\141\137\063\137\062\060\061\063\056\143\162\154\060\015 \006\011\052\206\110\206\367\015\001\001\013\005\000\003\202\001 $\label{eq:condition} $$ \001\000\016\131\016\130\344\164\110\043\104\317\064\041\265\234 $$$ \024\032\255\232\113\267\263\210\155\134\251\027\160\360\052\237 \215\173\371\173\205\372\307\071\350\020\010\260\065\053\137\317 $\label{eq:condition} $$ \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 $\label{eq:condition} $$ \233\147\041\225\065\213\370\020\374\161\033\267\113\067\151\246 $$$ \073\326\354\213\356\301\260\363\045\311\217\222\175\241\352\303 \312\104\277\046\245\164\222\234\343\164\353\235\164\331\313\115 $\label{eq:condition} $$ \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

```
# 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
```

Not Valid After: Wed Sep 20 08:25:51 2028

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

 $\label{eq:condition} $$ \ensurement{$$ \ensuremen$

END

CKA ID

UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

 $\label{eq:condition} $$ \000\201\322\0061\013\000\011\000\003\125\0004\0006\0023\0017\107\145\142\172\145\004\0055\040\113\157\143\141\145\154\151\1061\102\060\100\006\003\125\0004\012\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\123\141\163\171\157\156\040\113\141\155\165\040\113\141\155\165\040\113\141\155\165\040\113\141\155\165\040\113\141\155\165\040\113\141\113\040\113\141\155\165\040\113\141\113\040\113\141\155\165\040\113\157\153\040\113\141\155\165\164\151\146\151\153\141\163\151\040\1055\040\113\157\153\040\123\145\162\164\151\146\151\153\141\163\151\040\055\040\113\157\153\040\123\145\162\164\151\146\151\153\141\163\151\040\055\040\1123\165\162\165\155\040\061$

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL \002\001\001

END

CKA_VALUE MULTILINE_OCTAL

 $\label{eq:condition} $$ \000\200\4\143\060\202\003\113\240\003\002\001\002\0002\001\001\\ \noindent \noin$

\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 $\label{eq:control_loss} $$ \frac{151}{153}040\\101\\162\\141\\163\\164\\151\\162\\155\\141\\040\\113\\165\\162$ \053\006\003\125\004\013\023\044\113\141\155\165\040\123\145\162 \172\151\040\055\040\113\141\155\165\040\123\115\061\066\060\064 \006\003\125\004\003\023\055\124\125\102\111\124\101\113\040\113 \145\162\164\151\146\151\153\141\163\151\040\055\040\123\165\162 \165\155\040\061\060\036\027\015\061\063\061\061\062\065\060\070 \065\065\065\132\060\201\322\061\013\060\011\006\003\125\004\006 $\label{eq:condition} $$ \023\02\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 $\\ \langle 040 \rangle 102 \rangle 151 \rangle 154 \rangle 151 \rangle 163 \rangle 145 \rangle 154 \rangle 040 \rangle 166 \rangle 145 \rangle 040 \rangle 124 \rangle 145 \rangle 153 \rangle 163 \rangle 163 \rangle 164 \rangle 164 \rangle 164 \rangle 164 \rangle 165 \rangle 164 \rangle 165 \rangle 164 \rangle 165 \rangle 164 \rangle 165 \rangle$ \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 \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 \124\101\113\040\113\141\155\165\040\123\115\040\123\123\114\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 $\label{eq:condition} $$ \000\060\202\001\012\002\202\001\001\000\257\165\060\063\252\273 $$$ \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 $\label{eq:condition} $$ \072\017\342\144\070\267\214\274\350\210\371\213\044\253 $$$ \056\243\365\067\344\100\216\030\045\171\203\165\037\073\377\154 \250\305\306\126\370\264\355\212\104\243\253\154\114\374\035\320 \334\357\150\275\317\344\252\316\360\125\367\242\064\324\203\153 \067\174\034\302\376\265\003\354\127\316\274\264\265\305\355\000 \017\123\067\052\115\364\117\014\203\373\206\317\313\376\214\116 \275\207\371\247\213\041\127\234\172\337\003\147\211\054\235\227 $\label{eq:condition} $$ \frac{141}247\\020\\270\\125\\220\\177\\016\\055\\047\\070\\164\\337\\347\\375\\332$ \116\022\343\115\025\042\002\310\340\340\374\017\255\212\327\311 \124\120\314\073\017\312\026\200\204\320\121\126\303\216\126\177 \211\042\063\057\346\205\012\275\245\250\033\066\336\323\334\054 \155\073\307\023\275\131\043\054\346\345\244\367\330\013\355\352 \220\100\104\250\225\273\223\325\320\200\064\266\106\170\016\037 \000\223\106\341\356\351\371\354\117\027\002\003\001\000\001\243 \102\060\100\060\035\006\003\125\035\016\004\026\004\024\145\077 \307\212\206\306\074\335\074\124\134\065\370\072\355\122\014\107 \127\310\060\016\006\003\125\035\017\001\001\377\004\004\003\002 $\label{eq:condition} $$ \001\006\000\17\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 $\label{eq:condition} $$ \frac{134}136\frac{317}153\frac{036}152\frac{322}042\frac{251}022\frac{307}136\frac{127}175}$ \163\126\144\200\204\172\223\344\011\271\020\315\237\052\047\341 $\label{eq:condition} $$ \000\167\276\110\310\065\250\201\237\344\270\054\311\177\016\260 $$$ \322\113\067\135\352\271\325\013\136\064\275\364\163\051\303\355 \046\025\234\176\010\123\212\130\215\320\113\050\337\301\263\337 $\\ \langle 040 \rangle 363 \rangle 371 \rangle 343 \rangle 343 \rangle 072 \rangle 337 \rangle 314 \rangle 234 \rangle 224 \rangle 330 \rangle 116 \rangle 117 \rangle 303 \rangle 153 \rangle 027 \rangle 324 \rangle 224 \rangle 324 \rangle 324 \rangle 224 \rangle 324 \rangle 224 \rangle$ \267\367\162\350\255\146\063\265\045\123\253\340\370\114\251\235 \375\362\015\272\256\271\331\252\306\153\371\223\273\256\253\270 $\label{eq:condition} $$ \227\074\003\032\272\103\306\226\271\105\162\070\263\247\241\226$ $\label{eq:condition} $$ \075\221\173\176\300\041\123\114\207\355\362\013\124\225\121\223$ \325\042\245\015\212\361\223\016\076\124\016\260\330\311\116\334 \362\061\062\126\352\144\371\352\265\235\026\146\102\162\363\177 $\label{eq:condition} $$ 323 \times 61 \times 1061 \times 374 \times 44 \times 16 \times 7361 \times 155 \times 43 \times 253 \times 224 \times 146 \times 370 \times 255 \times 1061 \times$ \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

 $\label{eq:condition} $$ \061\103\144\233\354\316\047\354\355\072\077\013\217\015\344\350$$

\221\335\356\312

END

 ${\sf CKA_CERT_MD5_HASH\ MULTILINE_OCTAL}$

 $\label{eq:condition} $\34\000\201\334\151\057\076\057\260\073\366\075\132\221\216\111$

```
END
```

CKA ISSUER MULTILINE OCTAL

 $\label{eq:condition} $$ \000\201\322\061\013\060\011\006\003\125\004\0006\023\002\124\122\061\030\060\026\006\003\125\0004\0007\023\017\107\145\142\172\145\040\0055\040\113\157\143\141\145\154\151\1061\102\060\100\006\003\125\0004\012\151\154\151\153\151\171\145\040\102\151\154\157\152\151\153\040\101\162\141\163\164\151\162\155\141\040\113\165\162\165\155\165\040\123\141\163\171\157\156\040\113\141\155\165\040\113\141\155\165\040\113\141\155\165\040\113\141\155\165\040\113\141\113\040\113\141\155\165\040\113\157\153\040\113\141\155\165\040\113\157\153\040\113\141\155\165\040\113\157\153\040\113\141\155\165\162\164\151\146\151\153\141\163\151\040\1055\040\113\157\153\040\113\141\163\151\040\1055\040\113\157\153\040\113\145\162\164\151\146\151\153\141\163\151\040\055\040\1123\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

 $\label{eq:condition} $$ \060\142\061\013\060\011\006\003\125\004\006\023\002\103\116\061 $$$

END

CKA ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

 $\label{eq:condition} $$ \000142\001\006\003\125\004\0006\023\002\103\116\006\002\0000\0006\003\125\004\012\014\005\1107\125\101\116\107\040\104\117\116\107\040\103\105\122\124\111\106\111\103\101\124\105\004\0103\117\056\054\114\124\104\056\006\1037\006\0035\006\003\125\0004\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

 $\label{eq:condition} $$ \002\010\175\011\227\376\360\107\352\172$$

END

CKA VALUE MULTILINE OCTAL

 $\label{eq:condition} $$ \0.060\202\005\210\060\202\003\160\240\003\002\001\002\002\010\175$ \011\227\376\360\107\352\172\060\015\006\011\052\206\110\206\367 $\label{eq:condition} $$ \006\023\002\103\116\061\062\060\060\006\003\125\004\012\014\051 $$$ \107\125\101\116\107\040\104\117\116\107\040\103\105\122\124\111 \040\103\117\056\054\114\124\104\056\061\037\060\035\006\003\125 \004\003\014\026\107\104\103\101\040\124\162\165\163\164\101\125 \061\061\062\066\060\065\061\063\061\065\132\027\015\064\060\061 \062\063\061\061\065\065\071\065\071\132\060\142\061\013\060\011 \006\003\125\004\006\023\002\103\116\061\062\060\060\006\003\125 \004\012\014\051\107\125\101\116\107\040\104\117\116\107\040\103 \105\122\124\111\106\111\103\101\124\105\040\101\125\124\110\117 \122\111\124\131\040\103\117\056\054\114\124\104\056\061\037\060 $\label{eq:condition} $$ \006\003\125\004\003\014\026\107\104\103\101\040\124\162\165$$ $\label{eq:condition} $$ 164\101\125\124\110\040\122\065\040\122\117\117\124\060\202$$ $\label{eq:condition} $$ \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 $\\ \\ \langle 042 \rangle 071 \rangle 171 \rangle 341 \rangle 055 \rangle 010 \rangle 217 \rangle 314 \rangle 274 \rangle 221 \rangle 270 \rangle 101 \rangle 367 \rangle 024 \rangle 301 \rangle 043 \rangle 042 \rangle 071 \rangle 171 \rangle 171$ \251\303\255\232\105\104\263\262\327\054\315\306\051\342\120\020 \256\134\313\202\216\027\030\066\175\227\346\210\232\260\115\064 \011\364\054\271\132\146\052\260\027\233\236\036\166\235\112\146 $\label{eq:condition} $$ \061\101\337\077\373\305\006\357\033\266\176\032\106\066\367\144 $$$ $\label{eq:condition} $$ \frac{343}071\\030\\043\\347\\147\\165\\024\\325\\165\\127\\222\\067\\275$ \276\152\033\046\120\362\066\046\006\220\305\160\001\144\155\166 \146\341\221\333\156\007\300\141\200\056\262\056\057\214\160\247 \321\073\074\263\221\344\156\266\304\073\160\362\154\222\227\011 \315\107\175\030\300\363\273\236\017\326\213\256\007\266\132\017 \316\013\014\107\247\345\076\270\275\175\307\233\065\240\141\227 $\label{eq:condition} $$ \072\101\165\027\314\053\226\167\052\222\041\036\331\225\166\040 $$$ \147\150\317\015\275\337\326\037\011\152\232\342\314\163\161\244 $\label{eq:condition} $$ \057\175\022\200\267\123\060\106\136\113\124\231\017\147\311\245 $$$ \310\362\040\301\202\354\235\021\337\302\002\373\032\073\321\355 \040\232\357\145\144\222\020\015\052\342\336\160\361\030\147\202 \214\141\336\270\274\321\057\234\373\017\320\053\355\033\166\271 \344\071\125\370\370\241\035\270\252\200\000\114\202\347\262\177 \011\270\274\060\240\057\015\365\122\236\216\367\222\263\012\000 $\label{eq:condition} $$ \000\124\227\006\340\261\007\331\307\017\134\145\175\074\155$$ \131\127\344\355\245\215\351\100\123\237\025\113\240\161\366\032 $\label{eq:condition} $$ \041\343\332\160\006\041\130\024\207\205\167\171\252\202\171\002$ \003\001\000\001\243\102\060\100\060\035\006\003\125\035\016\004 \026\004\024\342\311\100\237\115\316\350\232\241\174\317\016\077 \145\305\051\210\152\031\121\060\017\006\003\125\035\023\001\001 \377\004\005\060\003\001\001\377\060\016\006\003\125\035\017\001 \001\377\004\004\003\002\001\206\060\015\006\011\052\206\110\206 $\label{eq:condition} $$ 367 \times 0.05 \times 0.00 \times 0.00$ \247\314\150\130\272\001\017\053\031\315\215\260\141\105\254\021 \355\143\120\151\370\037\177\276\026\217\375\235\353\013\252\062 \107\166\322\147\044\355\275\174\063\062\227\052\307\005\206\146 \015\027\175\024\025\033\324\353\375\037\232\366\136\227\151\267 \032\045\244\012\263\221\077\137\066\254\213\354\127\250\076\347 \201\212\030\127\071\205\164\032\102\307\351\133\023\137\217\371 $\label{eq:condition} $$ \010\351\222\164\215\365\107\322\253\073\326\373\170\146\116\066$$ $\label{eq:condition} $$ \frac{371}{351}\frac{322}{351}004\frac{336}{375}\frac{111}{143}\frac{374}{155}\frac{373}{024}\frac{161}{223}$ \147\057\107\112\267\271\377\036\052\163\160\106\060\277\132\362 \057\171\245\341\215\014\331\371\262\143\067\214\067\145\205\160 \152\134\133\011\162\271\255\143\074\261\335\370\374\062\277\067 \206\344\273\216\230\047\176\272\037\026\341\160\021\362\003\337 \045\142\062\047\046\030\062\204\237\377\000\072\023\272\232\115 \364\117\270\024\160\042\261\312\053\220\316\051\301\160\364\057 \235\177\362\220\036\326\132\337\267\106\374\346\206\372\313\340 \040\166\172\272\246\313\365\174\336\142\245\261\213\356\336\202 $\label{eq:condition} $$ 146\212\116\072\060\037\077\200\313\255\047\272\014\136\327\320 $$$ $\label{eq:controller} $$ \aligned $$ 1.126\aligned $$ 1$

END

CKA_NSS_MOZILLA_CA_POLICY

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

 $\label{eq:condition} $$ \017\066\070\133\201\032\045\303\233\061\116\203\312\351\064\146 $$$

\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

 $\label{eq:condition} $$ \060\142\061\013\060\011\006\003\125\004\006\023\002\103\116\061 $$$

```
\062\060\060\006\003\125\004\012\014\051\107\125\101\116\107\040
\104\117\116\107\040\103\105\122\124\111\106\111\103\101\124\105
\\ \\ 040\\ \\ 101\\ \\ 125\\ \\ 124\\ \\ 110\\ \\ 117\\ \\ 122\\ \\ 111\\ \\ 124\\ \\ 131\\ \\ 040\\ \\ 103\\ \\ 117\\ \\ 056\\ \\ 054\\ \\ 114
\124\104\056\061\037\060\035\006\003\125\004\003\014\026\107\104
\103\101\040\124\162\165\163\164\101\125\124\110\040\122\065\040
\122\117\117\124
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\175\011\227\376\360\107\352\172
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA TRUST CODE SIGNING CK TRUST CKT NSS MUST VERIFY TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
# Certificate "SSL.com Root Certification Authority RSA"
# Issuer: CN=SSL.com Root Certification Authority RSA,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Serial Number:7b:2c:9b:d3:16:80:32:99
# Subject: CN=SSL.com Root Certification
Authority RSA,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Not Valid Before: Fri Feb 12 17:39:39 2016
# Not Valid After: Tue Feb 12 17:39:39 2041
# Fingerprint (SHA-256):
85:66:6A:56:2E:E0:BE:5C:E9:25:C1:D8:89:0A:6F:76:A8:7E:C1:6D:4D:7D:5F:29:EA:74:19:CF:20:12:3B:69
# Fingerprint (SHA1): B7:AB:33:08:D1:EA:44:77:BA:14:80:12:5A:6F:BD:A9:36:49:0C:BB
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA TOKEN CK BBOOL CK TRUE
CKA PRIVATE CK BBOOL CK FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA LABEL UTF8 "SSL.com Root Certification Authority RSA"
CKA CERTIFICATE TYPE CK CERTIFICATE TYPE CKC X 509
CKA SUBJECT MULTILINE OCTAL
\060\174\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\016\060\014\006\003\125\004\010\014\005\124\145\170\141\163\061
\020\060\016\006\003\125\004\007\014\007\110\157\165\163\164\157
\156\061\030\060\026\006\003\125\004\012\014\017\123\123\114\040
\103\157\162\160\157\162\141\164\151\157\156\061\061\060\057\006
\label{eq:condition} $$ \003\125\004\003\014\050\123\123\114\056\143\157\155\040\122\157 
\157\164\040\103\145\162\164\151\146\151\143\141\164\151\157\156
\040\101\165\164\150\157\162\151\164\171\040\122\123\101
END
CKA_ID
UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\174\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\016\060\014\006\003\125\004\010\014\005\124\145\170\141\163\061
```

 $\label{eq:condition} $$ \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\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171\040\122\123\101$

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

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

END

CKA_VALUE MULTILINE_OCTAL

 $\label{eq:condition} $$ \060\202\005\335\060\202\003\305\240\003\002\001\002\002\010\173$$ \054\233\323\026\200\062\231\060\015\006\011\052\206\110\206\367 $\label{eq:condition} $$ \006\023\002\125\123\061\016\060\014\006\003\125\004\010\014\005$ \124\145\170\141\163\061\020\060\016\006\003\125\004\007\014\007 \110\157\165\163\164\157\156\061\030\060\026\006\003\125\004\012 \014\017\123\123\114\040\103\157\162\160\157\162\141\164\151\157 \156\061\061\060\057\006\003\125\004\003\014\050\123\123\114\056 $\\ 143\\157\\155\\040\\122\\157\\157\\164\\040\\103\\145\\162\\164\\151\\146\\151$ \143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171 \040\122\123\101\060\036\027\015\061\066\060\062\061\062\061\067 $\label{eq:condition} $$ \063\071\063\071\132\027\015\064\061\060\062\061\062\061\066\063$ \071\063\071\132\060\174\061\013\060\011\006\003\125\004\006\023 \002\125\123\061\016\060\014\006\003\125\004\010\014\005\124\145 \170\141\163\061\020\060\016\006\003\125\004\007\014\007\110\157 \165\163\164\157\156\061\030\060\026\006\003\125\004\012\014\017 \123\123\114\040\103\157\162\160\157\162\141\164\151\157\156\061 \061\060\057\006\003\125\004\003\014\050\123\123\114\056\143\157 \155\040\122\157\157\164\040\103\145\162\164\151\146\151\143\141 $\label{eq:condition} $$ 164\151\157\156\040\101\165\164\150\157\162\151\164\171\040\122$$ \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 $\label{eq:condition} $$ \000\142\365\042\011\124\350\145\027\116\101\271\340\117\106\227 $$$ \252\033\310\270\156\142\136\151\261\137\333\052\002\176\374\154 \312\363\101\330\355\320\350\374\077\141\110\355\260\003\024\035 \020\016\113\031\340\273\116\354\206\145\377\066\363\136\147\002 \013\235\206\125\141\375\172\070\355\376\342\031\000\267\157\241 \120\142\165\164\074\240\372\310\045\222\264\156\172\042\307\370 \036\241\343\262\335\221\061\253\053\035\004\377\245\112\004\067 \351\205\244\063\053\375\342\326\125\064\174\031\244\112\150\307 \262\250\323\267\312\241\223\210\353\301\227\274\214\371\035\331 $\\ \\042\\204\\044\\164\\307\\004\\075\\152\\251\\051\\223\\314\\353\\270\\133\\341$ \376\137\045\252\064\130\310\301\043\124\235\033\230\021\303\070

\234\176\075\206\154\245\017\100\206\174\002\364\134\002\117\050 \313\256\161\237\017\072\310\063\376\021\045\065\352\374\272\305 \140\075\331\174\030\325\262\251\323\165\170\003\162\042\312\072 \303\037\357\054\345\056\251\372\236\054\266\121\106\375\257\003 \326\352\140\150\352\205\026\066\153\205\351\036\300\263\335\304 $\label{eq:condition} $$ \044\334\200\052\201\101\155\224\076\310\340\311\201\101\000\236$ \136\277\177\305\010\230\242\030\054\102\100\263\371\157\070\047 \113\116\200\364\075\201\107\340\210\174\352\034\316\265\165\134 \121\056\034\053\177\032\162\050\347\000\265\321\164\306\327\344 \237\255\007\223\266\123\065\065\374\067\344\303\366\135\026\276 $\label{eq:condition} $$ \041\163\336\222\012\370\240\143\152\274\226\222\152\076\370\274$ \145\125\233\336\365\015\211\046\004\374\045\032\246\045\151\313 \302\155\312\174\342\131\137\227\254\353\357\056\310\274\327\033 \131\074\053\314\362\031\310\223\153\047\143\031\317\374\351\046 $\label{eq:condition} $$ 370\312\161\233\177\223\376\064\147\204\116\231\353\374\263\170 $$$ \011\063\160\272\146\246\166\355\033\163\353\032\245\015\304\042 $\label{eq:condition} $$ \023\040\224\126\012\116\054\154\116\261\375\317\234\011\272\242 $$$ \063\355\207\002\003\001\000\001\243\143\060\141\060\035\006\003 \125\035\016\004\026\004\024\335\004\011\007\242\365\172\175\122 $\label{eq:condition} $$ \frac{022}{222}\frac{225}{356}070\frac{200}{045}015\frac{246}{131}060\frac{017}{006}003\frac{125}{246} $$$ \035\023\001\001\377\004\005\060\003\001\001\377\060\037\006\003 \125\035\043\004\030\060\026\200\024\335\004\011\007\242\365\172 $\label{eq:condition} $$ \frac{175}{122}\frac{3022}{222}\frac{356}{070}\frac{000045}{015}\frac{246}{131}\frac{060}{016}\frac{006}{006} $$$ \003\125\035\017\001\001\377\004\004\003\002\001\206\060\015\006 \011\052\206\110\206\367\015\001\001\013\005\000\003\202\002\001 $\label{eq:condition} $$ \000\040\030\021\224\051\373\046\235\034\036\036\160\141\361\225 $$$ \162\223\161\044\255\150\223\130\216\062\257\033\263\160\003\374 $\label{eq:condition} $$ \045\053\164\205\220\075\170\152\364\271\213\245\227\073\265\030 $$$ \221\273\036\247\371\100\133\221\371\125\231\257\036\021\320\134 \035\247\146\343\261\224\007\014\062\071\246\352\033\260\171\330 $\label{eq:condition} $$ \035\234\160\104\343\212\335\304\371\225\037\212\070\103\077\001 $$$ \205\245\107\247\075\106\262\274\345\042\150\367\173\234\330\054 \076\012\041\310\055\063\254\277\305\201\231\061\164\301\165\161 \305\276\261\360\043\105\364\235\153\374\031\143\235\243\274\004 \306\030\013\045\273\123\211\017\263\200\120\336\105\356\104\177 \253\224\170\144\230\323\366\050\335\207\330\160\145\164\373\016 \271\023\353\247\017\141\251\062\226\314\336\273\355\143\114\030 \273\251\100\367\240\124\156\040\210\161\165\030\352\172\264\064 \162\340\043\047\167\134\266\220\352\206\045\100\253\357\063\017 \313\237\202\276\242\040\373\366\265\055\032\346\302\205\261\164 \017\373\310\145\002\244\122\001\107\335\111\042\301\277\330\353 \153\254\176\336\354\143\063\025\267\043\010\217\306\017\215\101 \132\335\216\305\271\217\345\105\077\170\333\272\322\033\100\261 \376\161\115\077\340\201\242\272\136\264\354\025\340\223\335\010 $\label{eq:condition} $$ \037\176\341\125\231\013\041\336\223\236\012\373\346\243\111\275$ \066\060\376\347\167\262\240\165\227\265\055\201\210\027\145\040 \367\332\220\000\237\311\122\314\062\312\065\174\365\075\017\330 \053\327\365\046\154\311\006\064\226\026\352\160\131\032\062\171

 $\label{eq:control_co$

END

CKA_NSS_MOZILLA_CA_POLICY

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

\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:condition} $$ \000\174\001\006\003\125\004\0006\023\002\125\123\006\016\006\003\125\004\0010\14\005\124\145\170\141\163\061\020\060\0016\0006\003\125\0004\0012\014\0017\110\157\165\163\164\157\156\061\003\125\0006\003\125\0004\0012\014\017\123\123\114\040\103\157\162\160\157\162\141\164\151\157\156\061\061\060\057\006\003\125\0004\0003\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\0040\101\165\164\157\162\151\164\171\0040\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
\label{eq:condition} $$ \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
\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

END

CKA VALUE MULTILINE OCTAL

\060\202\002\215\060\202\002\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 \141\163\061\020\060\016\006\003\125\004\007\014\007\110\157\165 \163\164\157\156\061\030\060\026\006\003\125\004\012\014\017\123 \123\114\040\103\157\162\160\157\162\141\164\151\157\156\061\061 \060\057\006\003\125\004\003\014\050\123\123\114\056\143\157\155 $\\ \\ 040\\ \\ 122\\ \\ 157\\ \\ 157\\ \\ 164\\ \\ 040\\ \\ 103\\ \\ 145\\ \\ 162\\ \\ 164\\ \\ 151\\ \\ 146\\ \\ 151\\ \\ 143\\ \\ 141\\ \\ 164$ \151\157\156\040\101\165\164\150\157\162\151\164\171\040\105\103 \103\060\036\027\015\061\066\060\062\061\062\061\070\061\064\060 $\label{eq:condition} $$ \063\132\027\015\064\061\060\062\061\062\061\070\061\064\060\063$ \132\060\174\061\013\060\011\006\003\125\004\006\023\002\125\123 \061\016\060\014\006\003\125\004\010\014\005\124\145\170\141\163 $\label{eq:condition} $$ \006\006\003\125\004\007\014\007\110\157\165\163\164 $$$ \157\156\061\030\060\026\006\003\125\004\012\014\017\123\123\114 \040\103\157\162\160\157\162\141\164\151\157\156\061\061\060\057 $\\ \\006\\003\\125\\004\\003\\014\\050\\123\\123\\114\\056\\143\\157\\155\\040\\122$ \157\157\164\040\103\145\162\164\151\146\151\143\141\164\151\157 \156\040\101\165\164\150\157\162\151\164\171\040\105\103\103\060 \166\060\020\006\007\052\206\110\316\075\002\001\006\005\053\201 \004\000\042\003\142\000\004\105\156\251\120\304\246\043\066\236 \137\050\215\027\313\226\042\144\077\334\172\216\035\314\010\263 \242\161\044\272\216\111\271\004\033\107\226\130\253\055\225\310 \355\236\010\065\310\047\353\211\214\123\130\353\142\212\376\360 $\label{eq:condition} $$ \frac{133}{017}\frac{35}{061}\frac{122}{143}\frac{101}{073}\frac{211}{315}\frac{354}{354}\frac{266}{215}\frac{31}{323} $$$ \064\007\334\273\306\006\177\302\105\225\354\313\177\250\043\340 \011\351\201\372\363\107\323\243\143\060\141\060\035\006\003\125 \035\016\004\026\004\024\202\321\205\163\060\347\065\004\323\216 \002\222\373\345\244\321\304\041\350\315\060\017\006\003\125\035 \023\001\001\377\004\005\060\003\001\001\377\060\037\006\003\125 \035\043\004\030\060\026\200\024\202\321\205\163\060\347\065\004 \323\216\002\222\373\345\244\321\304\041\350\315\060\016\006\003 \052\206\110\316\075\004\003\002\003\147\000\060\144\002\060\157 \347\353\131\021\244\140\317\141\260\226\173\355\005\371\057\023 \221\334\355\345\374\120\153\021\106\106\263\034\041\000\142\273 \276\303\347\350\315\007\231\371\015\013\135\162\076\304\252\002 \060\037\274\272\013\342\060\044\373\174\155\200\125\012\231\076 \200\015\063\345\146\243\263\243\273\245\325\213\217\011\054\246 \135\176\342\360\007\010\150\155\322\174\151\156\137\337\345\152 \145

CKA_NSS_MOZILLA_CA_POLICY

CK BBOOL CK TRUE

CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE

CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

- # Trust for "SSL.com Root Certification Authority ECC"
- # Issuer: CN=SSL.com Root Certification Authority ECC,O=SSL Corporation,L=Houston,ST=Texas,C=US
- # Serial Number:75:e6:df:cb:c1:68:5b:a8
- # Subject: CN=SSL.com Root Certification Authority ECC,O=SSL

Corporation, L=Houston, ST=Texas, C=US

- # Not Valid Before: Fri Feb 12 18:14:03 2016
- # Not Valid After: Tue Feb 12 18:14:03 2041
- # Fingerprint (SHA-256):
- 34:17:BB:06:CC:60:07:DA:1B:96:1C:92:0B:8A:B4:CE:3F:AD:82:0E:4A:A3:0B:9A:CB:C4:A7:4E:BD:CE:BC:65
- # Fingerprint (SHA1): C3:19:7C:39:24:E6:54:AF:1B:C4:AB:20:95:7A:E2:C3:0E:13:02:6A

CKA CLASS CK OBJECT CLASS CKO NSS TRUST

CKA_TOKEN CK_BBOOL CK_TRUE

CKA PRIVATE CK BBOOL CK FALSE

CKA MODIFIABLE CK BBOOL CK FALSE

CKA_LABEL UTF8 "SSL.com Root Certification Authority ECC"

CKA CERT SHA1 HASH MULTILINE OCTAL

\303\031\174\071\044\346\124\257\033\304\253\040\225\172\342\303

\016\023\002\152

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL

 $\label{eq:condition} $$ \056\332\344\071\177\234\217\067\321\160\237\046\027\121\072\216 $$$

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

 $\label{eq:condition} $$ \020\060\016\006\003\125\004\007\014\007\110\157\165\163\164\157$

 $\label{thm:local_equation} $$ 156\061\030\060\026\006\003\125\004\012\014\017\123\123\114\040 $$$

\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

 $\label{eq:condition} $$ \002\010\165\346\337\313\301\150\133\250$$

END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR

CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR

CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST

CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#

Certificate "SSL.com EV Root Certification Authority RSA R2"

Issuer: CN=SSL.com EV Root Certification Authority RSA R2,O=SSL Corporation,L=Houston,ST=Texas,C=US

Serial Number:56:b6:29:cd:34:bc:78:f6

Subject: CN=SSL.com EV Root Certification Authority RSA R2,O=SSL

Corporation, L=Houston, ST=Texas, C=US

Not Valid Before: Wed May 31 18:14:37 2017 # Not Valid After : Fri May 30 18:14:37 2042

Fingerprint (SHA-256):

2E:7B:F1:6C:C2:24:85:A7:BB:E2:AA:86:96:75:07:61:B0:AE:39:BE:3B:2F:E9:D0:CC:6D:4E:F7:34:91:42:5C

Fingerprint (SHA1): 74:3A:F0:52:9B:D0:32:A0:F4:4A:83:CD:D4:BA:A9:7B:7C:2E:C4:9A

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

CKA TOKEN CK BBOOL CK TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "SSL.com EV Root Certification Authority RSA R2"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA SUBJECT MULTILINE OCTAL

\060\201\202\061\013\060\011\006\003\125\004\006\023\002\125\123

\061\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

\123\101\040\122\062

END

CKA ID

UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

 $\label{eq:control} $$ \000\201\202\061\013\060\011\006\003\125\004\010\014\006\023\002\125\123\061\016\060\014\006\003\125\0004\0010\1014\005\124\145\170\141\163\164\157\156\061\030\060\003\125\0004\0012\014\017\123\123\114\040\103\157\162\160\1057\162\141\164\151\157\156\061\067\060\065\123\123\114\056\143\157\155\040\105\126\040\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171\040\122\123\101\040\122\062$

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

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

END

CKA_VALUE MULTILINE_OCTAL

\060\202\005\353\060\202\003\323\240\003\002\001\002\002\001\126 \266\051\315\064\274\170\366\060\015\006\011\052\206\110\206\367 \015\001\001\001\013\005\000\060\201\202\061\013\060\011\006\003\125

\004\006\023\002\125\123\061\016\060\014\006\003\125\004\010\014 \005\124\145\170\141\163\061\020\060\016\006\003\125\004\007\014 \007\110\157\165\163\164\157\156\061\030\060\026\006\003\125\004 \157\156\061\067\060\065\006\003\125\004\003\014\056\123\123\114 $\label{eq:condition} $$ \056\143\157\155\040\105\126\040\122\157\157\164\040\103\145\162$$$ \164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157 \162\151\164\171\040\122\123\101\040\122\062\060\036\027\015\061 $\label{eq:condition} $$ \067\060\065\063\061\061\070\061\064\063\067\132\027\015\064\062$ \060\065\063\060\061\070\061\064\063\067\132\060\201\202\061\013 \060\011\006\003\125\004\006\023\002\125\123\061\016\060\014\006 $\label{eq:condition} $$ \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 $\label{eq:condition} $$ \006\003\125\004\012\014\017\123\123\114\040\103\157\162\160$$ $\label{eq:condition} $$ \frac{157}{162}\frac{141}{164}\frac{151}{157}\frac{6001}{067}\frac{060}{065}\frac{006}{003}\frac{125}{004}\frac{003}{003} $$$ \014\056\123\123\114\056\143\157\155\040\105\126\040\122\157\157 \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 $\label{eq:condition} $$ \001\005\000\003\202\002\017\000\060\202\002\012\002\202\002\01$ \000\217\066\145\100\341\326\115\300\327\264\351\106\332\153\352 \063\107\315\114\371\175\175\276\275\055\075\360\333\170\341\206 $\label{eq:condition} $$ 245\331\272\011\127\150\355\127\076\240\320\010\101\203\347\050 $$$ \101\044\037\343\162\025\320\001\032\373\136\160\043\262\313\237 \071\343\317\305\116\306\222\155\046\306\173\273\263\332\047\235 \012\206\351\201\067\005\376\360\161\161\354\303\034\351\143\242 \027\024\235\357\033\147\323\205\125\002\002\326\111\311\314\132 $\label{eq:condition} $$ \frac{341}{261}\frac{367}{157}\frac{237}{311}\frac{324}{073}\frac{10}{101}\frac{250}{234}\frac{275}{313}\frac{253}{253} $$$ \333\155\173\011\037\242\114\162\220\332\053\010\374\317\074\124 \316\147\017\250\317\135\226\031\013\304\343\162\353\255\321\175 \226\004\133\172\176\244\251\074\070\166\244\142\216\240\071\136 \352\167\317\135\000\131\217\146\054\076\007\242\243\005\046\021 \151\227\352\205\267\017\226\013\113\310\100\341\120\272\056\212 \313\367\017\232\042\347\177\232\067\023\315\362\115\023\153\041 \321\300\314\042\362\241\106\366\104\151\234\312\141\065\007\000 \157\326\141\010\021\352\272\270\366\351\263\140\345\115\271\354 \237\024\146\311\127\130\333\315\207\151\370\212\206\022\003\107 \277\146\023\166\254\167\175\064\044\205\203\315\327\252\234\220 \032\237\041\054\177\170\267\144\270\330\350\246\364\170\263\125 \313\204\322\062\304\170\256\243\217\141\335\316\010\123\255\354 \210\374\025\344\232\015\346\237\032\167\316\114\217\270\024\025 \075\142\234\206\070\006\000\146\022\344\131\166\132\123\300\002 \230\242\020\053\150\104\173\216\171\316\063\112\166\252\133\201 $\label{eq:condition} $$ \026\033\265\212\330\320\000\173\136\142\264\011\326\206\143\016 $$$ \246\005\225\111\272\050\213\210\223\262\064\034\330\244\125\156 \267\034\320\336\231\125\073\043\364\042\340\371\051\146\046\354 $\label{eq:condition} $$ \040\120\167\333\112\013\217\276\345\002\140\160\101\136\324\256$$

\120\071\042\024\046\313\262\073\163\164\125\107\007\171\201\071 \250\060\023\104\345\004\212\256\226\023\045\102\017\271\123\304 \233\374\315\344\034\336\074\372\253\326\006\112\037\147\246\230 \060\034\335\054\333\334\030\225\127\146\306\377\134\213\126\365 \167\002\003\001\000\001\243\143\060\141\060\017\006\003\125\035 $\label{eq:condition} $$ \023\001\001\377\004\005\060\003\001\001\377\060\037\006\003\125$ \035\043\004\030\060\026\200\024\371\140\273\324\343\325\064\366 \270\365\006\200\045\247\163\333\106\151\250\236\060\035\006\003 \125\035\016\004\026\004\024\371\140\273\324\343\325\064\366\270 \365\006\200\045\247\163\333\106\151\250\236\060\016\006\003\125 \035\017\001\001\377\004\004\003\002\001\206\060\015\006\011\052 $\label{eq:condition} $$ \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 $\label{eq:condition} $$ \frac{337}{152}267\frac{333}{165}\frac{302}{107}\frac{45}{177}\frac{361}{143}\frac{370}{150}\frac{55}{125} $$$ \004\321\362\215\260\244\317\274\074\136\037\170\347\245\240\040 \160\260\004\305\267\367\162\247\336\042\015\275\063\045\106\214 $\\ 144\\222\\046\\343\\076\\056\\143\\226\\332\\233\\214\\075\\370\\030\\011\\327$ \003\314\175\206\202\340\312\004\007\121\120\327\377\222\325\014 \357\332\206\237\231\327\353\267\257\150\342\071\046\224\272\150 $\label{eq:condition} $$ \267\277\203\323\352\172\147\075\142\147\256\045\345\162\350\342$$ \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 $\verb|\|226|137|145|164|074|373|011|065|056|173|234|023|375|033|017|135|$ \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:condition} $$ \051\376\306\122\141\272\261\163\377\303\014\234\345\154\152\224 $$$ \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 $\label{eq:condition} $$ 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**

LIND

CKA_NSS_MOZILLA_CA_POLICY

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

 $\label{eq:condition} $$ \frac{341 \cdot 036 \cdot 061 \cdot 130 \cdot 032 \cdot 256 \cdot 124 \cdot 123 \cdot 002 \cdot 366 \cdot 027 \cdot 152 \cdot 021 \cdot 173 \cdot 115 \cdot 225}{341 \cdot 036 \cdot 061 \cdot 130 \cdot 032 \cdot 256 \cdot 124 \cdot 123 \cdot 002 \cdot 366 \cdot 027 \cdot 152 \cdot 021 \cdot 173 \cdot 115 \cdot 225}$

END

CKA ISSUER

MULTILINE OCTAL

 $\label{eq:condition} $$ \0.060\201\202\061\013\060\011\006\003\125\004\006\023\002\125\123$

\061\016\060\014\006\003\125\004\010\014\005\124\145\170\141\163

\061\020\060\016\006\003\125\004\007\014\007\110\157\165\163\164

\157\156\061\030\060\026\006\003\125\004\012\014\017\123\123\114

\040\103\157\162\160\157\162\141\164\151\157\156\061\067\060\065

\006\003\125\004\003\014\056\123\123\114\056\143\157\155\040\105

\126\040\122\157\157\164\040\103\145\162\164\151\146\151\143\141

 $\label{eq:condition} $$ 164\151\157\156\040\101\165\164\150\157\162\151\164\171\040\122$$

\123\101\040\122\062

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

 $\label{eq:condition} $$ \002\010\126\266\051\315\064\274\170\366$$

END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR

CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST

CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST

CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#

Certificate "SSL.com EV Root Certification Authority ECC"

#

Issuer: CN=SSL.com

EV Root Certification Authority ECC,O=SSL Corporation,L=Houston,ST=Texas,C=US

- # Serial Number:2c:29:9c:5b:16:ed:05:95
- # Subject: CN=SSL.com EV Root Certification Authority ECC,O=SSL Corporation,L=Houston,ST=Texas,C=US
- # Not Valid Before: Fri Feb 12 18:15:23 2016
- # Not Valid After: Tue Feb 12 18:15:23 2041
- # Fingerprint (SHA-256):
- 22:A2:C1:F7:BD:ED:70:4C:C1:E7:01:B5:F4:08:C3:10:88:0F:E9:56:B5:DE:2A:4A:44:F9:9C:87:3A:25:A7:C8
- # Fingerprint (SHA1): 4C:DD:51:A3:D1:F5:20:32:14:B0:C6:C5:32:23:03:91:C7:46:42:6D
- CKA CLASS CK OBJECT CLASS CKO CERTIFICATE
- CKA_TOKEN CK_BBOOL CK_TRUE
- CKA_PRIVATE CK_BBOOL CK_FALSE
- CKA MODIFIABLE CK BBOOL CK FALSE
- CKA_LABEL UTF8 "SSL.com EV Root Certification Authority ECC"
- CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
- CKA SUBJECT MULTILINE OCTAL

 $\label{eq:condition} $$ \060\177\061\013\060\011\006\003\125\004\006\023\002\125\123\061 $$$

\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

\103\157\162\160\157\162\141\164\151\157\156\061\064\060\062\006

\003\125\004\003\014\053\123\123\114\056\143\157\155\040\105\126

 $\\ \\ 040\\ \\ 122\\ \\ 157\\ \\ 157\\ \\ 164\\ \\ 040\\ \\ 103\\ \\ 145\\ \\ 162\\ \\ 164\\ \\ 151\\ \\ 146\\ \\ 151\\ \\ 143\\ \\ 141\\ \\ 164$

\151\157\156\040\101\165\164\150\157\162\151\164\171\040\105\103

\103

END

CKA ID

UTF8 "0"

CKA ISSUER MULTILINE OCTAL

\060\177\061\013\060\011\006\003\125\004\006\023\002\125\123\061 $\label{eq:condition} $$ \0.016\0.0014\0.005\0.003\1.25\0.004\0.010\0.014\0.005\1.24\1.45\1.70\1.41\1.63\0.61 $$$ \020\060\016\006\003\125\004\007\014\007\110\157\165\163\164\157 \156\061\030\060\026\006\003\125\004\012\014\017\123\123\114\040 \103\157\162\160\157\162\141\164\151\157\156\061\064\060\062\006 \003\125\004\003\014\053\123\123\114\056\143\157\155\040\105\126 \040\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164 \151\157\156\040\101\165\164\150\157\162\151\164\171\040\105\103 \103

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

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

END

CKA_VALUE MULTILINE_OCTAL

\060\202\002\224\060\202\002\032\240\003\002\001\002\002\010\054 \051\234\133\026\355\005\225\060\012\006\010\052\206\110\316\075 \004\003\002\060\177\061\013\060\011\006\003\125\004\006\023\002 \125\123\061\016\060\014\006\003\125\004\010\014\005\124\145\170 \141\163\061\020\060\016\006\003\125\004\007\014\007\110\157\165

\163\164\157\156\061\030\060\026\006\003\125\004\012\014\017\123 \123\114\040\103\157\162\160\157\162\141\164\151\157\156\061\064 \060\062\006\003\125\004\003\014\053\123\123\114\056\143\157\155 \040\105\126\040\122\157\157\164\040\103\145\162\164\151\146\151 $\\ 143 \\ 141 \\ 164 \\ 151 \\ 157 \\ 156 \\ 040 \\ 101 \\ 165 \\ 164 \\ 150 \\ 157 \\ 162 \\ 151 \\ 164 \\ 171 \\$ $\label{eq:condition} $$ \040\105\103\103\060\036\027\015\061\066\060\062\061\062\061\070$ \061\065\062\063\132\027\015\064\061\060\062\061\062\061\070\061 $\label{eq:condition} $$ \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 \123\123\114\040\103\157\162\160\157\162\141\164\151\157\156\061 \064\060\062\006\003\125\004\003\014\053\123\123\114\056\143\157 $\label{eq:condition} $$ \frac{155}040\\105\\126\\040\\122\\157\\157\\164\\040\\103\\145\\162\\164\\151\\146$ \171\040\105\103\103\060\166\060\020\006\007\052\206\110\316\075 $\label{eq:condition} $$ \002\001\006\005\053\201\004\000\042\003\142\000\004\252\022\107 $$$ \220\230\033\373\357\303\100\007\203\040\116\361\060\202\242\006 \321\362\222\206\141\362\366\041\150\312\000\304\307\352\103\000 \124\206\334\375\037\337\000\270\101\142\134\334\160\026\062\336 \037\231\324\314\305\007\310\010\037\141\026\007\121\075\175\134 \007\123\343\065\070\214\337\315\237\331\056\015\112\266\031\056 $\label{eq:condition} $$ \frac{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 $\label{eq:condition} $$ \000\060\145\002\061\000\212\346\100\211\067\353\351\325\023\331 $$$ \312\324\153\044\363\260\075\207\106\130\032\354\261\337\157\373 \126\272\160\153\307\070\314\350\261\214\117\017\367\361\147\166 \016\203\320\036\121\217\002\060\075\366\043\050\046\114\306\140 \207\223\046\233\262\065\036\272\326\367\074\321\034\316\372\045 \074\246\032\201\025\133\363\022\017\154\356\145\212\311\207\250 \371\007\340\142\232\214\134\112

END

CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

#

[#] Trust for "SSL.com EV Root Certification Authority ECC"

[#] Issuer: CN=SSL.com EV Root Certification Authority ECC,O=SSL Corporation,L=Houston,ST=Texas,C=US # Serial Number:2c:29:9c:5b:16:ed:05:95

```
Subject: CN=SSL.com EV Root Certification Authority ECC,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Not Valid Before: Fri Feb 12 18:15:23 2016
# Not Valid After: Tue Feb 12 18:15:23 2041
# Fingerprint (SHA-256):
22:A2:C1:F7:BD:ED:70:4C:C1:E7:01:B5:F4:08:C3:10:88:0F:E9:56:B5:DE:2A:4A:44:F9:9C:87:3A:25:A7:C8
# Fingerprint (SHA1): 4C:DD:51:A3:D1:F5:20:32:14:B0:C6:C5:32:23:03:91:C7:46:42:6D
CKA CLASS CK OBJECT CLASS CKO NSS TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA MODIFIABLE CK BBOOL CK FALSE
CKA_LABEL UTF8 "SSL.com EV Root Certification Authority ECC"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\114\335\121\243\321\365\040\062\024\260\306\305\062\043\003\221
\307\106\102\155
END
CKA CERT MD5 HASH MULTILINE OCTAL
\131\123\042\145\203\102\001\124\300\316\102\271\132\174\362\220
END
CKA ISSUER MULTILINE OCTAL
\label{eq:condition} $$ \060\177\061\013\060\011\006\003\125\004\006\023\002\125\123\061\
\016\060\014\006\003\125\004\010\014\005\124\145\170\141\163\061
\label{eq:condition} $$ \020\060\016\006\003\125\004\007\014\007\110\157\165\163\164\157 
\103\157\162\160\157\162\141\164\151\157\156\061\064\060\062\006
\003\125\004\003\014\053\123\123\114\056\143\157\155\040\105\126
\040\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164
\151\157\156\040\101\165\164\150\157\162\151\164\171\040\105\103
\103
END
CKA SERIAL NUMBER
MULTILINE_OCTAL
\label{eq:condition} $$ \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

CKA ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

CKA SERIAL NUMBER

MULTILINE_OCTAL

CKA_VALUE MULTILINE_OCTAL

\060\202\005\203\060\202\003\153\240\003\002\001\002\002\016\105 \346\273\003\203\063\303\205\145\110\346\377\105\121\060\015\006 $\label{eq:condition} $$ \011\052\206\110\206\367\015\001\001\014\005\000\060\114\061\040 $$$ \060\036\006\003\125\004\013\023\027\107\154\157\142\141\154\123 \151\147\156\040\122\157\157\164\040\103\101\040\055\040\122\066 \061\023\060\021\006\003\125\004\012\023\012\107\154\157\142\141 \154\123\151\147\156\061\023\060\021\006\003\125\004\003\023\012 \107\154\157\142\141\154\123\151\147\156\060\036\027\015\061\064 \061\062\061\060\060\060\060\060\060\060\132\027\015\063\064\061 $\label{eq:condition} $$ \062\061\060\060\060\060\060\060\132\060\114\061\040\060\036$ $\\ \\006\\ \\003\\ \\125\\ \\004\\ \\013\\ \\023\\ \\027\\ \\107\\ \\154\\ \\157\\ \\142\\ \\141\\ \\154\\ \\123\\ \\151\\ \\147$ \156\040\122\157\157\164\040\103\101\040\055\040\122\066\061\023 \060\021\006\003\125\004\012\023\012\107\154\157\142\141\154\123 \151\147\156\061\023\060\021\006\003\125\004\003\023\012\107\154 \157\142\141\154\123\151\147\156\060\202\002\042\060\015\006\011 \052\206\110\206\367\015\001\001\001\005\000\003\202\002\017\000 $\label{eq:condition} $$ \000\202\002\002\000\000\225\007\350\163\312\146\371 $$$ \354\024\312\173\074\367\015\010\361\264\105\013\054\202\264\110 \306\353\133\074\256\203\270\101\222\063\024\244\157\177\351\052 \314\306\260\210\153\305\266\211\321\306\262\377\024\316\121\024

\041\354\112\335\033\132\306\326\207\356\115\072\025\006\355\144 \146\013\222\200\312\104\336\163\224\116\363\247\211\177\117\170 \143\010\310\022\120\155\102\146\057\115\271\171\050\115\122\032 \212\032\200\267\031\201\016\176\304\212\274\144\114\041\034\103 \150\327\075\074\212\305\262\146\325\220\232\267\061\006\305\276 $\label{eq:condition} $$ 342\155\062\006\246\036\371\271\353\252\243\270\277\276\202\143$ \120\320\360\030\211\337\344\017\171\365\352\242\037\052\322\160 $\label{eq:condition} $$ \056\173\347\274\223\273\155\123\342\110\174\214\020\007\070\377$ \146\262\167\141\176\340\352\214\074\252\264\244\366\363\225\112 \022\007\155\375\214\262\211\317\320\240\141\167\310\130\164\260 \324\043\072\367\135\072\312\242\333\235\011\336\135\104\055\220 $\label{eq:condition} $$ 361 \times 127 \times 222 \times 372 \times 176 \times 274 \times 120 \times 43064 \times 337 \times 153 \times 223 \times 300$ \276\153\066\262\071\344\254\044\066\267\360\357\266\034\023\127 \223\266\336\262\370\342\205\267\163\242\270\065\252\105\362\340 $\label{eq:condition} $$ \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:condition} $$ \frac{111}{167}060\\274\\161\\067\\345\\246\\354\\041\\010\\165\\374\\346\\141\\026$ \077\167\325\331\221\227\204\012\154\324\002\115\164\300\024\355 \375\071\373\203\362\136\024\241\004\260\013\351\376\356\217\341 $\label{eq:condition} $$ \frac{156}{013}262\frac{010}{263}\frac{141}{146}\frac{011}{152}\frac{261}{006}\frac{072}{145}\frac{226}{131}\frac{300}{130} $$$ \360\065\375\311\332\050\215\032\021\207\160\201\012\250\232\165 \035\236\072\206\005\000\236\333\200\326\045\371\334\005\236\047 $\label{eq:condition} $$ \frac{131}{14}\frac{66}{071}\frac{33}{352}\frac{241}{330}\frac{017}{321}\frac{377}{337}060$$ \021\371\205\317\063\110\365\312\155\144\024\054\172\130\117\323 \113\010\111\305\225\144\032\143\016\171\075\365\263\214\312\130 \255\234\102\105\171\156\016\207\031\134\124\261\145\266\277\214 \233\334\023\351\015\157\270\056\334\147\156\311\213\021\265\204 $\label{eq:condition} $$ \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 $\label{eq:condition} $$ \001\006\0017\006\003\125\035\023\001\001\377\004\005\060\003$ \001\001\377\060\035\006\003\125\035\016\004\026\004\024\256\154 \005\243\223\023\342\242\347\342\327\034\326\307\360\177\310\147 \123\240\060\037\006\003\125\035\043\004\030\060\026\200\024\256 \154\005\243\223\023\342\242\347\342\327\034\326\307\360\177\310 \147\123\240\060\015\006\011\052\206\110\206\367\015\001\001\014 \005\000\003\202\002\001\000\203\045\355\350\321\375\225\122\315 \236\300\004\240\221\151\346\134\320\204\336\334\255\242\117\350 $\label{eq:condition} $$ 107\170\326\145\230\251\133\250\074\207\174\002\212\321\156\267 $$$ $\label{eq:condition} $$ \026\163\346\137\300\124\230\325\164\276\301\315\342\021\221\255$ \043\030\075\335\341\162\104\226\264\225\136\300\173\216\231\170 \026\103\023\126\127\263\242\263\073\265\167\334\100\162\254\243 \353\233\065\076\261\010\041\241\347\304\103\067\171\062\276\265 \347\234\054\114\274\103\051\231\216\060\323\254\041\340\343\035 \372\330\007\063\166\124\000\042\052\271\115\040\056\160\150\332 \345\123\374\203\134\323\235\362\377\104\014\104\146\362\322\343 \275\106\000\032\155\002\272\045\135\215\241\061\121\335\124\106 \034\115\333\231\226\357\032\034\004\134\246\025\357\170\340\171

\376\135\333\076\252\114\125\375\232\025\251\157\341\246\373\337 \160\060\351\303\356\102\106\355\302\223\005\211\372\175\143\173 $\label{eq:condition} $$ \077\320\161\201\174\000\350\230\256\016\170\064\303\045\373\257 $$$ $\label{eq:condition} $$ \012\237\040\153\335\073\023\217\022\214\342\101\032\110\172\163$ \240\167\151\307\266\134\177\202\310\036\376\130\033\050\053\250 \154\255\136\155\300\005\322\173\267\353\200\376\045\067\376\002 \233\150\254\102\135\303\356\365\314\334\360\120\165\322\066\151 \234\346\173\004\337\156\006\151\266\336\012\011\110\131\207\353 \173\024\140\172\144\252\151\103\357\221\307\114\354\030\335\154 \357\123\055\214\231\341\136\362\162\076\317\124\310\275\147\354 \244\017\114\105\377\323\271\060\043\007\114\217\020\277\206\226 \331\231\132\264\231\127\034\244\314\273\025\211\123\272\054\005 \017\344\304\236\031\261\030\064\325\114\235\272\355\367\037\257 $\\ \\ 044\\ \\ 225\\ \\ 004\\ \\ 170\\ \\ 250\\ \\ 003\\ \\ 273\\ \\ 356\\ \\ 201\\ \\ 345\\ \\ 332\\ \\ 137\\ \\ 174\\ \\ 213\\ \\ 112\\ \\ 241$ \220\164\045\247\263\076\113\310\054\126\275\307\310\357\070\342 \134\222\360\171\367\234\204\272\164\055\141\001\040\176\176\321 \362\117\007\131\137\213\055\103\122\353\106\014\224\341\365\146 \107\171\167\325\124\133\037\255\044\067\313\105\132\116\240\104 \110\310\330\260\231\305\025\204\011\366\326\111\111\300\145\270 \346\032\161\156\240\250\361\202\350\105\076\154\326\002\327\012 \147\203\005\132\311\244\020

END

CKA_NSS_MOZILLA_CA_POLICY

CK_BBOOL CK_TRUE

CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

```
# Trust for "GlobalSign Root CA - R6"
```

Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R6

Serial Number:45:e6:bb:03:83:33:c3:85:65:48:e6:ff:45:51

Subject: CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R6

Not Valid Before: Wed Dec 10 00:00:00 2014

Not Valid After: Sun Dec 10 00:00:00 2034

Fingerprint (SHA-256):

2C:AB:EA:FE:37:D0:6C:A2:2A:BA:73:91:C0:03:3D:25:98:29:52:C4:53:64:73:49:76:3A:3A:B5:AD:6C:CF:69

Fingerprint (SHA1): 80:94:64:0E:B5:A7:A1:CA:11:9C:1F:DD:D5:9F:81:02:63:A7:FB:D1

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "GlobalSign Root CA - R6"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL

 $\label{eq:condition} $$ \200\224\144\016\265\247\241\312\021\234\037\335\325\237\201\002$

\143\247\373\321

END

CKA_CERT_MD5_HASH

MULTILINE_OCTAL

\117\335\007\344\324\042\144\071\036\014\067\102\352\321\306\256

```
END
CKA ISSUER MULTILINE OCTAL
\label{eq:condition} $$ \000\114\061\040\060\036\006\003\125\004\013\023\027\107\154\157 $$
\\ 142\\141\\154\\123\\151\\147\\156\\040\\122\\157\\157\\164\\040\\103\\101\\040
\055\040\122\066\061\023\060\021\006\003\125\004\012\023\012\107
\154\157\142\141\154\123\151\147\156\061\023\060\021\006\003\125
\004\003\023\012\107\154\157\142\141\154\123\151\147\156
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\016\105\346\273\003\203\063\303\205\145\110\346\377\105\121
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA TRUST EMAIL PROTECTION CK TRUST CKT NSS TRUSTED DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
# Certificate "OISTE WISeKey Global Root GC CA"
# Issuer: CN=OISTE WISeKey Global Root GC CA,OU=OISTE Foundation Endorsed,O=WISeKey,C=CH
# Serial Number:21:2a:56:0c:ae:da:0c:ab:40:45:bf:2b:a2:2d:3a:ea
# Subject: CN=OISTE WISeKey Global
Root GC CA,OU=OISTE Foundation Endorsed,O=WISeKey,C=CH
# Not Valid Before: Tue May 09 09:48:34 2017
# Not Valid After: Fri May 09 09:58:33 2042
# Fingerprint (SHA-256):
85:60:F9:1C:36:24:DA:BA:95:70:B5:FE:A0:DB:E3:6F:F1:1A:83:23:BE:94:86:85:4F:B3:F3:4A:55:71:19:8D
# Fingerprint (SHA1): E0:11:84:5E:34:DE:BE:88:81:B9:9C:F6:16:26:D1:96:1F:C3:B9:31
CKA CLASS CK OBJECT CLASS CKO CERTIFICATE
CKA TOKEN CK BBOOL CK TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA MODIFIABLE CK BBOOL CK FALSE
CKA LABEL UTF8 "OISTE WISeKey Global Root GC CA"
CKA CERTIFICATE TYPE CK CERTIFICATE TYPE CKC X 509
CKA SUBJECT MULTILINE OCTAL
\060\155\061\013\060\011\006\003\125\004\006\023\002\103\110\061
\020\060\016\006\003\125\004\012\023\007\127\111\123\145\113\145
\171\061\042\060\040\006\003\125\004\013\023\031\117\111\123\124
\label{eq:condition} $$ 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"
```

\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

CKA_ISSUER MULTILINE_OCTAL

 $\label{eq:condition} $$ 171\061\042\060\040\006\003\125\004\013\023\031\117\111\123\124\105\040\106\157\165\156\144\141\164\151\157\156\040\105\156\144\157\162\163\145\144\061\050\060\046\006\003\125\004\003\023\037\117\111\123\124\105\040\127\111\123\145\113\145\171\040\107\154\157\142\141\154\040\122\157\157\164\040\107\103\040\103\101 \\ END$

CKA SERIAL NUMBER MULTILINE OCTAL

 $\label{eq:condition} $$ \002\020\041\052\126\014\256\332\014\253\100\105\277\053\242\055\072\352$

END

CKA_VALUE MULTILINE_OCTAL

 $\label{eq:condition} $$ \060\202\002\151\060\202\001\357\240\003\002\001\002\002\002\0041 $$$ \052\126\014\256\332\014\253\100\105\277\053\242\055\072\352\060 $\label{eq:condition} $$ \012\006\010\052\206\110\316\075\004\003\003\060\155\061\013\060 $$$ \125\004\012\023\007\127\111\123\145\113\145\171\061\042\060\040 $\\ \\006\\ \\003\\ \\125\\ \\004\\ \\013\\ \\023\\ \\031\\ \\117\\ \\111\\ \\123\\ \\124\\ \\105\\ \\040\\ \\106\\ \\157\\ \\165$ \156\144\141\164\151\157\156\040\105\156\144\157\162\163\145\144 \061\050\060\046\006\003\125\004\003\023\037\117\111\123\124\105 $\\ \\ 040\\ \\ 127\\ \\ 111\\ \\ 123\\ \\ 145\\ \\ 113\\ \\ 145\\ \\ 171\\ \\ 040\\ \\ 107\\ \\ 154\\ \\ 157\\ \\ 142\\ \\ 141\\ \\ 154\\ \\ 040$ \122\157\157\164\040\107\103\040\103\101\060\036\027\015\061\067 \060\065\060\071\060\071\064\070\063\064\132\027\015\064\062\060 $\label{eq:condition} $$ \065\060\071\060\071\065\070\063\063\132\060\155\061\013\060\011 $$$ \006\003\125\004\006\023\002\103\110\061\020\060\016\006\003\125 \004\012\023\007\127\111\123\145\113\145\171\061\042\060\040\006 \003\125\004\013\023\031\117\111\123\124\105\040\106\157\165\156 \144\141\164\151\157\156\040\105\156\144\157\162\163\145\144\061 $\label{eq:condition} $$ \0.060\0.046\0.06\0.03\1.25\0.04\0.03\0.23\0.37\1.17\1.11\1.23\1.24\1.05\0.40 $$$ \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 $\label{eq:condition} $$ \206\110\316\075\002\001\006\005\053\201\004\000\042\003\142\000 $$$ \004\114\351\120\300\306\017\162\030\274\330\361\272\263\211\342 \171\112\243\026\247\153\124\044\333\121\377\352\364\011\044\303 \013\042\237\313\152\047\202\201\015\322\300\257\061\344\164\202 \156\312\045\331\214\165\235\361\333\320\232\242\113\041\176\026 \247\143\220\322\071\324\261\207\170\137\030\226\017\120\033\065 \067\017\152\306\334\331\023\115\244\216\220\067\346\275\133\061 \221\243\124\060\122\060\016\006\003\125\035\017\001\001\377\004 $\\ \\004\\ \\003\\ \\002\\ \\001\\ \\006\\ \\006\\ \\0017\\ \\006\\ \\003\\ \\125\\ \\035\\ \\023\\ \\001\\ \\001\\ \\377\\ \\004$ \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 \004\003\003\003\150\000\060\145\002\060\046\307\151\133\334\325 $\ \ \, \backslash 347\backslash 262\backslash 347\backslash 310\backslash 014\backslash 214\backslash 214\backslash 303\backslash 335\backslash 171\backslash 214\backslash 033\backslash 143\backslash 325\backslash 311\backslash 122$ \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 $\\ \begin{tabular}{l} $$ \062\010\377\232\111\002\266\210\336\024\257\135\154\231\161\215 \end{tabular}$ \032\077\213\327\340\242\066\206\034\007\202\072\166\123\375\302 \242\355\357\173\260\200\117\130\017\113\123\071\275

END

CKA_NSS_MOZILLA_CA_POLICY

CK BBOOL CK TRUE

CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE

CKA NSS EMAIL DISTRUST AFTER CK BBOOL CK FALSE

- # Trust for "OISTE WISeKey Global Root GC CA"
- # Issuer: CN=OISTE WISeKey Global Root GC CA,OU=OISTE Foundation Endorsed,O=WISeKey,C=CH
- # Serial Number:21:2a:56:0c:ae:da:0c:ab:40:45:bf:2b:a2:2d:3a:ea
- # Subject: CN=OISTE WISeKey Global Root GC CA,OU=OISTE Foundation Endorsed,O=WISeKey,C=CH
- # Not Valid Before: Tue May 09 09:48:34 2017
- # Not Valid After: Fri May 09 09:58:33 2042
- # Fingerprint (SHA-256):

85:60:F9:1C:36:24:DA:BA:95:70:B5:FE:A0:DB:E3:6F:F1:1A:83:23:BE:94:86:85:4F:B3:F3:4A:55:71:19:8D

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

CKA CLASS CK OBJECT CLASS CKO NSS TRUST

CKA TOKEN

CK_BBOOL CK_TRUE

CKA PRIVATE CK BBOOL CK FALSE

CKA MODIFIABLE CK BBOOL CK FALSE

CKA_LABEL UTF8 "OISTE WISeKey Global Root GC CA"

CKA CERT SHA1 HASH MULTILINE OCTAL

 $\label{eq:condition} $$ 340\021\204\136\064\336\276\210\201\271\234\366\026\046\321\226$$

\037\303\271\061

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL

\251\326\271\055\057\223\144\370\245\151\312\221\351\150\007\043

END

CKA_ISSUER MULTILINE_OCTAL

 $\label{eq:condition} $$ \060\155\061\013\060\011\006\003\125\004\006\023\002\103\110\061$

 $\label{eq:condition} $$ \020\060\016\006\003\125\004\012\023\007\127\111\123\145\113\145$

\171\061\042\060\040\006\003\125\004\013\023\031\117\111\123\124

\157\162\163\145\144\061\050\060\046\006\003\125\004\003\023\037

 $\label{eq:local_$

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

\002\020\041\052\126\014\256\332\014\253\100\105\277\053\242\055

 $\backslash 072 \backslash 352$

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 "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
- $\label{eq:condition} $$ \060\075\061\013\060\011\006\003\125\004\006\023\002\103\116\061 $$$
- $\label{eq:condition} $$ \021\060\017\006\003\125\004\012\014\010\125\156\151\124\162\165$
- $\\ \\ \langle 040 \rangle 107 \rangle 154 \rangle 157 \rangle 142 \rangle 141 \rangle 154 \rangle 040 \rangle 107 \rangle 062 \rangle 040 \rangle 122 \rangle 157 \rangle 164$

END

CKA ID

UTF8 "0"

CKA ISSUER MULTILINE OCTAL

\060\075\061\013\060\011\006\003\125\004\006\023\002\103\116\061

\021\060\017\006\003\125\004\012\014\010\125\156\151\124\162\165

\163\164\061\033\060\031\006\003\125\004\003\014\022\125\103\101

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

\033\060\031\006\003\125\004\003\014\022\125\103\101\040\107\154 \157\142\141\154\040\107\062\040\122\157\157\164\060\202\002\042 \060\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003 \202\002\017\000\060\202\002\012\002\202\002\001\000\305\346\053 \157\174\357\046\005\047\243\201\044\332\157\313\001\371\231\232 \251\062\302\042\207\141\101\221\073\313\303\150\033\006\305\114 \251\053\301\147\027\042\035\053\355\371\051\211\223\242\170\275 \222\153\240\243\015\242\176\312\223\263\246\321\214\065\325\165 \371\027\366\317\105\305\345\172\354\167\223\240\217\043\256\016 \032\003\177\276\324\320\355\056\173\253\106\043\133\377\054\346 \124\172\224\300\052\025\360\311\215\260\172\073\044\341\327\150 $\label{eq:condition} $$ 342\061\074\006\063\106\266\124\021\246\245\057\042\124\052\130 $$$ \015\001\002\361\372\025\121\147\154\300\372\327\266\033\177\321 $\label{eq:condition} $$ \frac{126}{210}057\\032\\072\\215\\073\\273\\202\\021\\340\\107\\000\\320\\122\\207$ \253\373\206\176\017\044\153\100\235\064\147\274\215\307\055\206 \157\171\076\216\251\074\027\113\177\260\231\343\260\161\140\334 $\label{eq:condition} $$ \013\365\144\303\316\103\274\155\161\271\322\336\047\133\212\350 $$$ \330\306\256\341\131\175\317\050\055\065\270\225\126\032\361\262 \130\113\267\022\067\310\174\263\355\113\200\341\215\372\062\043 $\verb|\|266|157|267|110|225|010|261|104|116|205|214|072|002|124|040|057|$ \337\277\127\117\073\072\220\041\327\301\046\065\124\040\354\307 \077\107\354\357\132\277\113\172\301\255\073\027\120\134\142\330 $\label{eq:condition} $$ \017\113\112\334\053\372\156\274\163\222\315\354\307\120\350\101 $$$ \226\327\251\176\155\330\351\035\217\212\265\271\130\222\272\112 \222\053\014\126\375\200\353\010\360\136\051\156\033\034\014\257 \217\223\211\255\333\275\243\236\041\312\211\031\354\337\265\303 \032\353\026\376\170\066\114\326\156\320\076\027\034\220\027\153 $\\ \langle 046 \rangle 272 \rangle 373 \rangle 172 \rangle 057 \rangle 277 \rangle 021 \rangle 034 \rangle 030 \rangle 016 \rangle 055 \rangle 163 \rangle 003 \rangle 217 \rangle 240 \rangle 345 \rangle 036 \rangle 036 \rangle 037 \rangle$ \065\240\132\342\114\165\035\161\341\071\070\123\170\100\314\203 \223\327\012\236\235\133\217\212\344\345\340\110\344\110\262\107 $\label{eq:condition} $$ \frac{315}{116}052\frac{5052}{173}362\frac{366}{311}276\frac{11}{221}226\frac{127}{172} $$$ \210\210\254\356\160\254\371\334\051\343\014\034\073\022\116\104 \326\247\116\260\046\310\363\331\032\227\221\150\352\357\215\106 \006\322\126\105\130\232\074\014\017\203\270\005\045\303\071\317 \073\244\064\211\267\171\022\057\107\305\347\251\227\151\374\246 \167\147\265\337\173\361\172\145\025\344\141\126\145\002\003\001 \000\001\243\102\060\100\060\016\006\003\125\035\017\001\001\377 $\label{eq:condition} $$ \004\004\003\002\001\006\060\017\006\003\125\035\023\001\001\377 $$$ $\\ \\004\\\\005\\\\060\\\\003\\\\001\\\\001\\\\377\\\\060\\\\035\\\\006\\\\003\\\\125\\\\035\\\\016\\\\004\\\\026$ $\\ \\004\\ \\024\\ \\201\\ \\304\\ \\214\\ \\314\\ \\365\\ \\344\\ \\060\\ \\377\\ \\245\\ \\014\\ \\010\\ \\137\\ \\214\\ \\025$ \147\041\164\001\337\337\060\015\006\011\052\206\110\206\367\015 \001\001\013\005\000\003\202\002\001\000\023\145\042\365\216\053 \255\104\344\313\377\271\150\346\303\200\110\075\004\173\372\043 \057\172\355\066\332\262\316\155\366\346\236\345\137\130\217\313 \067\062\241\310\145\266\256\070\075\065\033\076\274\073\266\004 \320\274\371\111\365\233\367\205\305\066\266\313\274\370\310\071 \325\344\137\007\275\025\124\227\164\312\315\117\272\272\144 \166\237\201\270\204\105\111\114\215\157\242\353\261\314\321\303

\224\332\104\302\346\342\352\030\350\242\037\047\005\272\327\345 \326\251\315\335\357\166\230\215\000\016\315\033\372\003\267\216 \200\130\016\047\077\122\373\224\242\312\136\145\311\326\204\332 \271\065\161\363\046\300\117\167\346\201\047\322\167\073\232\024 $\label{eq:condition} $$ \frac{157}171\364\366\320\341\323\224\272\320\127\121\275\047\005\015}$ \301\375\310\022\060\356\157\215\021\053\010\235\324\324\277\200 \105\024\232\210\104\332\060\352\264\247\343\356\357\133\202\325 \076\326\255\170\222\333\134\074\363\330\255\372\270\153\177\304 $\label{eq:condition} $$ \066\050\266\002\025\212\124\054\234\260\027\163\216\320\067\243 $$$ \024\074\230\225\000\014\051\005\133\236\111\111\261\137\307\343 $\label{eq:condition} $$ \frac{313}{317}047\frac{45}{216}065\frac{027}{267}\frac{127}{310}060\frac{331}{101}\frac{133}{271}024 $$ \266\350\302\017\224\061\247\224\230\314\152\353\265\341\047\365 \020\250\001\350\216\022\142\350\210\314\265\177\106\227\300\233 $\label{eq:condition} $$ \020\146\070\032\066\106\137\042\150\075\337\311\306\023\047\253$ $\label{eq:condition} $$ 123\006\254\242\074\206\006\145\157\261\176\261\051\104\232\243$$ \272\111\151\050\151\217\327\345\137\255\004\206\144\157\032\240 \014\305\010\142\316\200\243\320\363\354\150\336\276\063\307\027 \133\177\200\304\114\114\261\246\204\212\303\073\270\011\315\024 \201\272\030\343\124\127\066\376\333\057\174\107\241\072\063\310 $\label{eq:condition} $$ \frac{371}130\\073\\104\\117\\261\\312\\002\\211\\004\\226\\050\\150\\305\\113\\270$ \046\211\273\326\063\057\120\325\376\232\211\272\030\062\222\124 \306\133\340\235\371\136\345\015\042\233\366\332\342\310\041\262 $\\ 142 \\ 041 \\ 252 \\ 206 \\ 100 \\ 262 \\ 056 \\ 144 \\ 323 \\ 137 \\ 310 \\ 343 \\ 176 \\ 021 \\ 147 \\ 105$ \037\005\376\343\242\357\263\250\263\363\175\217\370\014\037\042 $\label{eq:condition} $$ \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

 $\label{eq:condition} $$ \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
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
{\tt CKA\_TRUST\_SERVER\_AUTH\ CK\_TRUST\ CKT\_NSS\_TRUSTED\_DELEGATOR}
CKA TRUST EMAIL PROTECTION CK TRUST CKT NSS TRUSTED DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
# Certificate "UCA Extended Validation Root"
# Issuer: CN=UCA Extended Validation Root.O=UniTrust.C=CN
# Serial Number:4f:d2:2b:8f:f5:64:c8:33:9e:4f:34:58:66:23:70:60
# Subject: CN=UCA Extended Validation Root,O=UniTrust,C=CN
# Not Valid Before:
Fri Mar 13 00:00:00 2015
# Not Valid After: Fri Dec 31 00:00:00 2038
# Fingerprint (SHA-256):
D4:3A:F9:B3:54:73:75:5C:96:84:FC:06:D7:D8:CB:70:EE:5C:28:E7:73:FB:29:4E:B4:1E:E7:17:22:92:4D:24
# Fingerprint (SHA1): A3:A1:B0:6F:24:61:23:4A:E3:36:A5:C2:37:FC:A6:FF:DD:F0:D7:3A
CKA CLASS CK OBJECT CLASS CKO CERTIFICATE
CKA TOKEN CK BBOOL CK TRUE
CKA PRIVATE CK BBOOL CK FALSE
CKA MODIFIABLE CK BBOOL CK FALSE
CKA LABEL UTF8 "UCA Extended Validation Root"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\107\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\163\164\061\045\060\043\006\003\125\004\003\014\034\125\103\101
\040\105\170\164\145\156\144\145\144\040\126\141\154\151\144\141
\164\151\157\156\040\122\157\157\164
END
```

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

END

CKA SERIAL NUMBER

MULTILINE_OCTAL

\002\020\117\322\053\217\365\144\310\063\236\117\064\130\146\043 \160\140

END

CKA_VALUE MULTILINE_OCTAL

\060\202\005\132\060\202\003\102\240\003\002\001\002\002\020\117 \322\053\217\365\144\310\063\236\117\064\130\146\043\160\140\060 $\label{eq:condition} $$ \0.015\0.06\0.011\0.052\2.06\1.10\2.06\3.67\0.15\0.01\0.01\0.01\0.013\0.05\0.00\0.060\1.07$ \061\013\060\011\006\003\125\004\006\023\002\103\116\061\021\060 \061\045\060\043\006\003\125\004\003\014\034\125\103\101\040\105 \170\164\145\156\144\145\144\040\126\141\154\151\144\141\164\151 \157\156\040\122\157\157\164\060\036\027\015\061\065\060\063\061 \063\060\060\060\060\060\060\060\132\027\015\063\070\061\062\063\061 \060\060\060\060\060\060\060\132\060\107\061\013\060\011\006\003\125 $\\ \\004\\\\006\\\\023\\\\002\\\\103\\\\116\\\\006\\\\0021\\\\006\\\\0017\\\\006\\\\003\\\\125\\\\004\\\\012\\\\014$ \010\125\156\151\124\162\165\163\164\061\045\060\043\006\003\125 \004\003\014\034\125\103\101\040\105\170\164\145\156\144\145\144 \040\126\141\154\151\144\141\164\151\157\156\040\122\157\157\164 \060\202\002\042\060\015\006\011\052\206\110\206\367\015\001\001 $\label{eq:condition} $$ \001\005\000\003\202\002\017\000\060\202\002\012\002\202\002\012$ \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 $\label{eq:condition} $$ \017\213\305\260\233\063\003\132\206\306\130\206\325\301\205\273$ \117\306\234\100\115\312\276\356\151\226\270\255\201\060\232\174 \222\005\353\005\053\232\110\320\270\166\076\226\310\040\273\322 \260\361\217\330\254\105\106\377\252\147\140\264\167\176\152\037 \074\032\122\172\004\075\007\074\205\015\204\320\037\166\012\367 \152\024\337\162\343\064\174\127\116\126\001\076\171\361\252\051 \073\154\372\370\217\155\115\310\065\337\256\353\334\044\356\171 $\label{eq:condition} $$ 105\247\205\266\005\210\336\210\135\045\174\227\144\147\011\331 $$$ \277\132\025\005\206\363\011\036\354\130\062\063\021\363\167\144 \260\166\037\344\020\065\027\033\362\016\261\154\244\052\243\163 \374\011\037\036\062\031\123\021\347\331\263\054\056\166\056\241 \243\336\176\152\210\011\350\362\007\212\370\262\315\020\347\342 \163\100\223\273\010\321\077\341\374\013\224\263\045\357\174\246 \327\321\257\237\377\226\232\365\221\173\230\013\167\324\176\350 \007\322\142\265\225\071\343\363\361\155\017\016\145\204\212\143 \124\305\200\266\340\236\113\175\107\046\247\001\010\135\321\210 \236\327\303\062\104\372\202\112\012\150\124\177\070\123\003\314 \244\000\063\144\121\131\013\243\202\221\172\136\354\026\302\363

\052\346\142\332\052\333\131\142\020\045\112\052\201\013\107\007 \103\006\160\207\322\372\223\021\051\172\110\115\353\224\307\160 \115\257\147\325\121\261\200\040\001\001\264\172\010\246\220\177 \116\340\357\007\101\207\257\152\245\136\213\373\317\120\262\232 \124\257\303\211\272\130\055\365\060\230\261\066\162\071\176\111 $\\ \\004\\375\\051\\247\\114\\171\\344\\005\\127\\333\\224\\271\\026\\123\\215\\106$ \263\035\225\141\127\126\177\257\360\026\133\141\130\157\066\120 \021\013\330\254\053\225\026\032\016\037\010\315\066\064\145\020 \142\146\325\200\137\024\040\137\055\014\240\170\012\150\326\054 \327\351\157\053\322\112\005\223\374\236\157\153\147\377\210\361 \116\245\151\112\122\067\005\352\306\026\215\322\304\231\321\202 \053\073\272\065\165\367\121\121\130\363\310\007\335\344\264\003 \177\002\003\001\000\001\243\102\060\100\060\035\006\003\125\035 $\label{eq:condition} $$ \004\026\004\024\331\164\072\344\060\075\015\367\022\334\176$ \132\005\237\036\064\232\367\341\024\060\017\006\003\125\035\023 \001\001\377\004\005\060\003\001\001\377\060\016\006\003\125\035 $\label{eq:condition} $$ \017\001\001\377\004\004\003\002\001\206\060\015\006\011\052\206 $$$ \110\206\367\015\001\001\013\005\000\003\202\002\001\000\066\215 \227\314\102\025\144\051\067\233\046\054\326\373\256\025\151\054 \153\032\032\367\137\266\371\007\114\131\352\363\311\310\271\256 \314\272\056\172\334\300\365\260\055\300\073\257\237\160\005\021 \152\237\045\117\001\051\160\343\345\014\341\352\132\174\334\111 $\label{eq:condition} $$ \273\301\036\052\201\365\026\113\162\221\310\242\061\271\252\332 $$$ \374\235\037\363\135\100\002\023\374\116\034\006\312\263\024\220 \124\027\031\022\032\361\037\327\014\151\132\366\161\170\364\224 \175\221\013\216\354\220\124\216\274\157\241\114\253\374\164\144 \375\161\232\370\101\007\241\315\221\344\074\232\340\233\062\071 \163\253\052\325\151\310\170\221\046\061\175\342\307\060\361\374 \024\170\167\022\016\023\364\335\026\224\277\113\147\173\160\123 \205\312\260\273\363\070\115\054\220\071\300\015\302\135\153\351 \342\345\325\210\215\326\054\277\253\033\276\265\050\207\022\027 \164\156\374\175\374\217\320\207\046\260\033\373\271\154\253\342 \236\075\025\301\073\056\147\002\130\221\237\357\370\102\037\054 \267\150\365\165\255\317\265\366\377\021\175\302\360\044\245\255 \323\372\240\074\251\372\135\334\245\240\357\104\244\276\326\350 \345\344\023\226\027\173\006\076\062\355\307\267\102\274\166\243 \330\145\070\053\070\065\121\041\016\016\157\056\064\023\100\341 $\label{eq:condition} $$ \053\147\014\155\112\101\060\030\043\132\062\125\231\311\027\340 $$$ $\label{eq:condition} $$ \sqrt{074}336\366\354\171\255\053\130\031\242\255\054\042\032\225\216$$ \276\226\220\135\102\127\304\371\024\003\065\053\034\055\121\127 \010\247\072\336\077\344\310\264\003\163\302\301\046\200\273\013 \102\037\255\015\257\046\162\332\314\276\263\243\203\130\015\202 \305\037\106\121\343\234\030\314\215\233\215\354\111\353\165\120 \325\214\050\131\312\164\064\332\214\013\041\253\036\352\033\345 \307\375\025\076\300\027\252\373\043\156\046\106\313\372\371\261 \162\153\151\317\042\204\013\142\017\254\331\031\000\224\242\166 \074\324\055\232\355\004\236\055\006\142\020\067\122\034\205\162 \033\047\345\314\306\061\354\067\354\143\131\233\013\035\166\314 $\label{eq:condition} $$ 176\062\232\210\225\010\066\122\273\336\166\137\166\111\111\255$

\177\275\145\040\262\311\301\053\166\030\166\237\126\261

END

CKA_NSS_MOZILLA_CA_POLICY

CK BBOOL CK TRUE

CKA_NSS_SERVER_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

 $\label{eq:condition} $$ 243\241\260\157\044\141\043\112\343\066\245\302\067\374\246\377 $$$

\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

 $\label{eq:condition} $$ \060\107\061\013\060\011\006\003\125\004\006\023\002\103\116\061 $$$

 $\label{eq:condition} $$ \021\060\017\006\003\125\004\012\014\010\125\156\151\124\162\165$

\163\164\061\045\060\043\006\003\125\004\003\014\034\125\103\101

 $\\ \\ 040\\ \\ 105\\ \\ 170\\ \\ 164\\ \\ 145\\ \\ 156\\ \\ 144\\ \\ 145\\ \\ 144\\ \\ 040\\ \\ 126\\ \\ 141\\ \\ 154\\ \\ 151\\ \\ 144\\ \\ 141$

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

END

CKA_SERIAL_NUMBER

MULTILINE_OCTAL

 $\label{eq:condition} $$ \002\020\117\322\053\217\365\144\310\063\236\117\064\130\146\043 $$$

\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

 $\label{eq:condition} $$ \060\132\061\013\060\011\006\003\125\004\006\023\002\106\122\061 $$$

 $\label{eq:condition} $$ \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

 $\label{eq:condition} $$ \066\061\031\060\027\006\003\125\004\003\014\020\103\145\162\164$$$

\151\147\156\141\040\122\157\157\164\040\103\101

END

CKA_ID UTF8 "0"

CKA ISSUER MULTILINE OCTAL

\151\147\156\141\040\122\157\157\164\040\103\101

END

CKA_SERIAL_NUMBER

MULTILINE OCTAL

\002\021\000\312\351\033\211\361\125\003\015\243\346\101\155\304 \343\246\341

END

CKA_VALUE MULTILINE_OCTAL

\147\156\141\040\122\157\157\164\040\103\101\060\036\027\015\061 \063\061\060\060\061\060\070\063\062\062\067\132\027\015\063\063 \061\060\060\061\060\070\063\062\062\067\132\060\132\061\013\060 \011\006\003\125\004\006\023\002\106\122\061\022\060\020\006\003 \125\004\012\014\011\104\150\151\155\171\157\164\151\163\061\034 \060\032\006\003\125\004\013\014\023\060\060\060\062\040\064\070 \061\064\066\063\060\070\061\060\060\060\063\066\061\031\060\027 \006\003\125\004\003\014\020\103\145\162\164\151\147\156\141\040 $\label{eq:linear_condition} $$ \frac{122\\157\\157\\164\\040\\103\\101\\060\\202\\002\\042\\060\\015\\006\\011\\052$ \206\110\206\367\015\001\001\001\005\000\003\202\002\017\000\060 \202\002\012\002\202\002\001\000\315\030\071\145\032\131\261\352 $\\ 144\\026\\016\\214\\224\\044\\225\\174\\203\\323\\305\\071\\046\\334\\014\\357$ \026\127\215\327\330\254\243\102\177\202\312\355\315\133\333\016 \267\055\355\105\010\027\262\331\263\313\326\027\122\162\050\333 \216\116\236\212\266\013\371\236\204\232\115\166\336\042\051\134 \322\263\322\006\076\060\071\251\164\243\222\126\034\241\157\114 \012\040\155\237\043\172\264\306\332\054\344\035\054\334\263\050 \320\023\362\114\116\002\111\241\124\100\236\346\345\005\240\055 \204\310\377\230\154\320\353\212\032\204\010\036\267\150\043\356 $\label{eq:condition} $$ \043\325\160\316\155\121\151\020\356\241\172\302\321\042\061\302$ \202\205\322\362\125\166\120\174\045\172\311\204\134\013\254\335 \102\116\053\347\202\242\044\211\313\220\262\320\356\043\272\146 $\\ 114 \\ 273 \\ 142 \\ 244 \\ 371 \\ 123 \\ 132 \\ 144 \\ 173 \\ 174 \\ 230 \\ 372 \\ 243 \\ 110 \\ 236 \\ 017 \\ 174 \\ 1$ \225\256\247\030\364\152\354\056\003\105\257\360\164\370\052\315 \172\135\321\276\104\046\062\051\361\361\365\154\314\176\002\041 \013\237\157\244\077\276\235\123\342\317\175\251\054\174\130\032 \227\341\075\067\067\030\146\050\322\100\305\121\212\214\303\055 \316\123\210\044\130\144\060\026\305\252\340\326\012\246\100\337 \170\366\365\004\174\151\023\204\274\321\321\247\006\317\001\367 \150\300\250\127\273\072\141\255\004\214\223\343\255\374\360\333 $\label{eq:condition} $$ 104\155\131\334\111\131\256\254\232\231\066\060\101\173\166\063$ \042\207\243\302\222\206\156\371\160\356\256\207\207\225\033\304 \172\275\061\363\324\322\345\231\377\276\110\354\165\365\170\026 \035\246\160\301\177\074\033\241\222\373\317\310\074\326\305\223 \012\217\365\125\072\166\225\316\131\230\212\011\225\167\062\232 \203\272\054\004\072\227\275\324\057\276\327\154\233\242\312\175 \155\046\311\125\325\317\303\171\122\010\011\231\007\044\055\144 $\\ \\ 045\\153\\246\\041\\151\\233\\152\\335\\164\\115\\153\\227\\172\\101\\275\\253$ \027\371\220\027\110\217\066\371\055\325\305\333\356\252\205\105 $\label{eq:condition} $$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 \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 $\label{eq:condition} $$ \006\001\005\005\007\002\001\026\043\150\164\164\166\163\072\057$ \057\167\167\167\167\056\143\145\162\164\151\147\156\141\056\146 \162\057\141\165\164\157\162\151\164\145\163\057\060\155\006\003 \125\035\037\004\146\060\144\060\057\240\055\240\053\206\051\150 \164\164\160\072\057\057\143\162\154\056\143\145\162\164\151\147 \156\141\056\146\162\057\143\145\162\164\151\147\156\141\162\157 \157\164\143\141\056\143\162\154\060\061\240\057\240\055\206\053 $\label{eq:condition} $$ \frac{150}{164}\frac{4}{160}\frac{072}{057}\frac{143}{162}\frac{154}{056}\frac{144}{150}\frac{151}{155}\frac{171}{150} $$$ $\label{eq:continuous} $$ \frac{157}{164}\frac{151}{163}\frac{056}{143}\frac{157}{155}\frac{057}{143}\frac{145}{162}\frac{164}{151}\frac{147}{156} $$$ \141\162\157\157\164\143\141\056\143\162\154\060\015\006\011\052 \206\110\206\367\015\001\001\013\005\000\003\202\002\001\000\224 $\label{eq:condition} $$ \270\236\117\360\343\225\010\042\347\315\150\101\367\034\125\325$$ \174\000\342\055\072\211\135\150\070\057\121\042\013\112\215\313 $\label{eq:condition} $$ \frac{351}{273}\frac{135}{076}\frac{273}{134}\frac{075}{261}\frac{376}{344}\frac{123}{125}\frac{317}{241} $$$ \220\033\002\035\137\146\106\011\063\050\341\015\044\227\160\323 \020\037\352\144\127\226\273\135\332\347\304\214\117\114\144\106 $\label{eq:condition} $$ \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 $\label{eq:condition} $$ 320\021\214\371\021\152\356\257\075\303\120\323\217\137\063\171$ \074\206\250\163\105\220\214\040\266\162\163\027\043\276\007\145 \345\170\222\015\272\001\300\353\214\034\146\277\254\206\167\001 \224\015\234\346\351\071\215\037\246\121\214\231\014\071\167\341 \264\233\372\034\147\127\157\152\152\216\251\053\114\127\171\172 $\label{eq:condition} $$ \frac{127}042\frac{317}{315}\frac{137}143\frac{06}{215}\frac{134}{131}\frac{072}{206}\frac{370}{062}\frac{107}{142} $$$ \243\147\015\030\221\334\373\246\153\365\110\141\163\043\131\216 \002\247\274\104\352\364\111\235\361\124\130\371\140\257\332\030 $\label{eq:condition} $$ \244\057\050\105\334\172\240\210\206\135\363\073\347\377\051\065$$$ \200\374\144\103\224\346\343\034\157\276\255\016\052\143\231\053 \311\176\205\366\161\350\006\003\225\376\336\217\110\034\132\324 \222\350\053\356\347\061\333\272\004\152\207\230\347\305\137\357 \175\247\042\367\001\330\115\371\211\320\016\232\005\131\244\236 \230\331\157\053\312\160\276\144\302\125\243\364\351\257\303\222 \051\334\210\026\044\231\074\215\046\230\266\133\267\314\316\267 \067\007\375\046\331\230\205\044\377\131\043\003\232\355\235\235 $\label{eq:condition} $$ \250\344\136\070\316\327\122\015\157\322\077\155\261\005\153\111 $$$ \316\212\221\106\163\364\366\057\360\250\163\167\016\145\254\241 \215\146\122\151\176\113\150\014\307\036\067\047\203\245\214\307 \002\344\024\315\111\001\260\163\263\375\306\220\072\157\322\154 \355\073\356\354\221\276\242\103\135\213\000\112\146\045\104\160 \336\100\017\370\174\025\367\242\316\074\327\136\023\214\201\027 $\\ \\030\\ \\027\\ \\321\\ \\275\\ \\361\\ \\167\\ \\020\\ \\072\\ \\324\\ \\145\\ \\071\\ \\301\\ \\047\\ \\254\\ \\127\\ \\054$ \045\124\377\242\332\117\212\141\071\136\256\075\112\214\275 **END**

CKA_NSS_MOZILLA_CA_POLICY

CK BBOOL CK TRUE CKA_NSS_SERVER_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 $\label{eq:condition} $$ \055\015\122\024\377\236\255\231\044\001\164\040\107\156\154\205$ \047\047\365\103 **END** CKA_CERT_MD5_HASH MULTILINE_OCTAL \016\134\060\142\047\353\133\274\327\256\142\272\351\325\337\167 **END** CKA ISSUER MULTILINE OCTAL $\label{eq:condition} $$ \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 $\label{eq:condition} $$ \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 \151\147\156\141\040\122\157\157\164\040\103\101 **END** CKA_SERIAL_NUMBER MULTILINE_OCTAL \002\021\000\312\351\033\211\361\125\003\015\243\346\101\155\304 \343\246\341 **END** CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST

CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

```
# Certificate "emSign Root CA - G1"
# Issuer: CN=emSign Root CA - G1,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN
# Serial Number:31:f5:e4:62:0c:6c:58:ed:d6:d8
```

Subject: CN=emSign Root CA - G1,O=eMudhra Technologies

Limited, OU=emSign PKI, C=IN

Not Valid Before: Sun Feb 18 18:30:00 2018 # Not Valid After : Wed Feb 18 18:30:00 2043

Fingerprint (SHA-256):

40:F6:AF:03:46:A9:9A:A1:CD:1D:55:5A:4E:9C:CE:62:C7:F9:63:46:03:EE:40:66:15:83:3D:C8:C8:D0:03:67

Fingerprint (SHA1): 8A:C7:AD:8F:73:AC:4E:C1:B5:75:4D:A5:40:F4:FC:CF:7C:B5:8E:8C

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

CKA_TOKEN CK_BBOOL CK_TRUE

CKA PRIVATE CK BBOOL CK FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "emSign Root CA - G1"

CKA CERTIFICATE TYPE CK CERTIFICATE TYPE CKC X 509

CKA_SUBJECT MULTILINE_OCTAL

 $\label{lem:condition} $$ \000147\061\013\060\011\006\003\125\004\006\023\002\111\116\061\023\060\021\006\003\125\004\012\145\155\123\151\147\156\040\112\0113\111\061\045\060\043\006\003\125\004\012\023\034\145\115\165\144\150\162\141\040\124\145\143\150\156\157\154\157\147\151\145\163\040\114\151\155\151\164\145\144\061\034\060\032\006\003\125\004\003\023\023\145\155\123\151\147\156\040\122\157\157$

\164\040\103\101\040\055\040\107\061

END

CKA_ID

UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

 $\label{eq:condition} $$ \000147\061\013\060\011\006\003\125\004\006\023\002\111\116\061 $$ \023\060\021\006\003\125\004\013\023\012\145\155\123\151\147\156 $$ \040\120\13\111\061\045\060\043\006\003\125\004\012\023\034\145 $$ \115\165\144\150\162\141\040\124\145\143\150\156\157\154\157\147 $$ \151\145\163\040\114\151\155\123\151\147\156\040\122\157\157 $$ \164\040\103\101\040\055\040\107\061 $$$

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

\002\012\061\365\344\142\014\154\130\355\326\330

END

CKA_VALUE MULTILINE_OCTAL

\132\060\147\061\013\060\011\006\003\125\004\006\023\002\111\116 \061\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147 \156\040\120\113\111\061\045\060\043\006\003\125\004\012\023\034 \145\115\165\144\150\162\141\040\124\145\143\150\156\157\154\157 \147\151\145\163\040\114\151\155\151\164\145\144\061\034\060\032 $\label{eq:condition} $$ \006\003\125\004\003\023\023\145\155\123\151\147\156\040\122\157$ \157\164\040\103\101\040\055\040\107\061\060\202\001\042\060\015 \006\011\052\206\110\206\367\015\001\001\001\005\000\003\202\001 $\label{eq:condition} $$ \0.017\0.00\0.60\2.02\0.01\0.01\0.00\0.223\1.13\2.73\3.51\1.46 $$$ \212\356\235\133\325\064\223\320\033\036\303\347\236\270\144\063 $\label{eq:condition} $$ \frac{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 $\label{eq:condition} $$ 167\263\257\074\001\054\154\355\231\054\213\331\116\151\230\262$ \367\217\101\260\062\170\141\326\015\137\303\372\242\100\222\035 \134\027\346\160\076\065\347\242\267\302\142\342\253\244\070\114 \265\071\065\157\352\003\151\372\072\124\150\205\155\326\362\057 \103\125\036\221\015\016\330\325\152\244\226\321\023\074\054\170 \120\350\072\222\322\027\126\345\065\032\100\034\076\215\054\355 $\label{eq:condition} $$ \071\337\102\340\203\101\164\337\243\315\302\206\140\110\150\343$ \151\013\124\000\213\344\166\151\041\015\171\116\064\010\136\024 \302\314\261\267\255\327\174\160\212\307\205\002\003\001\000\001 \243\102\060\100\060\035\006\003\125\035\016\004\026\004\024\373 \357\015\206\236\260\343\335\251\271\361\041\027\177\076\374\360 $\label{eq:condition} $$ 167\053\032\060\016\006\003\125\035\017\001\001\377\004\004\003$ \002\001\006\060\017\006\003\125\035\023\001\001\377\004\005\060 \003\001\001\377\060\015\006\011\052\206\110\206\367\015\001\001 $\label{eq:condition} $$ \005\000\003\202\001\000\131\377\362\214\365\207\175\161 $$$ \075\243\237\033\133\321\332\370\323\234\153\066\275\233\251\141 \353\336\026\054\164\075\236\346\165\332\327\272\247\274\102\027 \347\075\221\353\345\175\335\076\234\361\317\222\254\154\110\314 \302\042\077\151\073\305\266\025\057\243\065\306\150\052\034\127 \257\071\357\215\320\065\303\030\014\173\000\126\034\315\213\031 \164\336\276\017\022\340\320\252\241\077\002\064\261\160\316\235 $\label{eq:condition} $$ \030\326\010\003\011\106\356\140\340\176\266\304\111\004\121\175$ $\label{eq:condition} $$ 160\140\274\252\262\377\171\162\172\246\035\075\137\052\370\312$$ \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:condition} $$ \frac{212\307\255\217\163\254\116\301\265\165\115\245\100\364\374\317}{212\307\255\217\163\254\116\301\265\165\115\245\100\364\374\317}
\174\265\216\214
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\234\102\204\127\335\313\013\247\056\225\255\266\363\332\274\254
END
CKA_ISSUER MULTILINE_OCTAL
\060\147\061\013\060\011\006\003\125\004\006\023\002\111\116\061
\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147\156
\label{eq:condition} $$ \040\120\113\111\061\045\060\043\006\003\125\004\012\023\034\145 $$
\115\165\144\150\162\141\040\124\145\143\150\156\157\154\157\147
\151\145\163\040\114\151\155\151\164\145\144\061\034\060\032\006
\003\125\004\003\023\023\145\155\123\151\147\156\040\122\157\157
\164\040\103\101\040\055\040\107\061
END
CKA SERIAL NUMBER MULTILINE OCTAL
\002\012\061\365\344\142\014\154\130\355\326\330
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION
CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
#
# Certificate "emSign ECC Root CA - G3"
```

- # Issuer: CN=emSign ECC Root CA G3,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN
- # Serial Number:3c:f6:07:a9:68:70:0e:da:8b:84
- # Subject: CN=emSign ECC Root CA G3,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN
- # Not Valid Before: Sun Feb 18 18:30:00 2018
- # Not Valid After: Wed Feb 18 18:30:00 2043
- # Fingerprint (SHA-256):
- 86:A1:EC:BA:08:9C:4A:8D:3B:BE:27:34:C6:12:BA:34:1D:81:3E:04:3C:F9:E8:A8:62:CD:5C:57:A3:6B:BE:6B
- # Fingerprint (SHA1): 30:43:FA:4F:F2:57:DC:A0:C3:80:EE:2E:58:EA:78:B2:3F:E6:BB:C1
- CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
- CKA_TOKEN CK_BBOOL CK_TRUE
- CKA_PRIVATE CK_BBOOL CK_FALSE
- CKA_MODIFIABLE CK_BBOOL CK_FALSE
- CKA LABEL UTF8 "emSign ECC Root CA G3"
- CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
- CKA_SUBJECT MULTILINE_OCTAL
- $\label{eq:condition} $$ \060\153\061\013\060\011\006\003\125\004\006\023\002\111\116\061 $$$
- \040\120\113\111\061\045\060\043\006\003\125\004\012\023\034\145
- \115\165\144\150\162\141\040\124\145\143\150\156\157\154\157\147
- \151\145\163\040\114\151\155\151\164\145\144\061\040\060\036\006
- \003\125\004\003\023\027\145\155\123\151\147\156\040\105\103\103
- \040\122\157\157\164\040\103\101\040\055\040\107\063

END

CKA ID

UTF8 "0"

CKA ISSUER MULTILINE OCTAL

 $\label{eq:condition} $$ \060\153\061\013\060\011\006\003\125\004\006\023\002\111\116\061 $$$

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

\040\120\113\111\061\045\060\043\006\003\125\004\012\023\034\145

\115\165\144\150\162\141\040\124\145\143\150\156\157\154\157\147

\151\145\163\040\114\151\155\151\164\145\144\061\040\060\036\006

 $\label{eq:condition} $$ \003\125\004\003\023\027\145\155\123\151\147\156\040\105\103\103$

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

END

CKA SERIAL NUMBER MULTILINE OCTAL

\002\012\074\366\007\251\150\160\016\332\213\204

END

CKA_VALUE

MULTILINE_OCTAL

 $\label{eq:condition} $$ \000\202\001\16\002\002\001\2074\366\007\251\150\160\0016\332\213\204\060\0012\006\0010\052\206\110\316\075\004\003\003\060\153\061\0013\060\0011\006\003\125\0004\0003\125\0004\0003\125\0004\0013\0023\1012\145\155\123\151\147\156\040\120\113\111\061\045\060\043\1006\003\125\0004\0012\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\123\151\147\156\040\103\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 $\label{eq:condition} $$ \060\132\060\153\061\013\060\011\006\003\125\004\006\023\002\111 $$$ \147\156\040\120\113\111\061\045\060\043\006\003\125\004\012\023 $\\ \\ 034\\ \\ 145\\ 115\\ 165\\ 144\\ 150\\ 162\\ 141\\ 040\\ 124\\ 145\\ 143\\ 150\\ 156\\ 157\\ 154$ \157\147\151\145\163\040\114\151\155\151\164\145\144\061\040\060 $\label{eq:condition} $$ \006\003\125\004\003\023\027\145\155\123\151\147\156\040\105 $$$ \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 $\label{eq:condition} $$ \004\000\042\003\142\000\004\043\245\014\270\055\022\365\050\363$ \261\262\335\342\002\022\200\236\071\137\111\115\237\311\045\064 \131\164\354\273\006\034\347\300\162\257\350\256\057\341\101\124 \207\024\250\112\262\350\174\202\346\133\152\265\334\263\165\316 \213\006\320\206\043\277\106\325\216\017\077\004\364\327\034\222 \176\366\245\143\302\365\137\216\056\117\241\030\031\002\053\062 \012\202\144\175\026\223\321\243\102\060\100\060\035\006\003\125 \035\016\004\026\004\024\174\135\002\204\023\324\314\212\233\201 \316\027\034\056\051\036\234\110\143\102\060\016\006\003\125\035 $\label{eq:condition} $$ \017\001\001\377\004\004\003\002\001\006\060\017\006\003\125\035$$ \023\001\001\377\004\005\060\003\001\001\377\060\012\006\010\052 \206\110\316\075\004\003\003\003\151\000\060\146\002\061\000\276 $\label{eq:condition} $$ 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 $\label{eq:condition} $$ \11107\357\073\254\010\004\174\134\231\261\355\107\007\322\002$ \061\000\235\272\125\374\251\112\350\355\355\346\166\001\102\173 \310\370\140\331\215\121\213\125\073\373\214\173\353\145\011\303 \370\226\315\107\250\202\362\026\125\167\044\176\022\020\225\004 \054\243

END

CKA_NSS_MOZILLA_CA_POLICY

CK_BBOOL CK_TRUE

CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

```
# Trust for "emSign ECC Root CA - G3"
```

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

[#] 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

```
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
\label{eq:condition} $$ \060\153\061\013\060\011\006\003\125\004\006\023\002\111\116\061
\label{eq:condition} $$ \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\040\060\036\006
\003\125\004\003\023\027\145\155\123\151\147\156\040\105\103\103
\040\122\157\157\164\040\103\101\040\055\040\107\063
END
CKA SERIAL NUMBER
MULTILINE_OCTAL
\002\012\074\366\007\251\150\160\016\332\213\204
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA TRUST EMAIL PROTECTION CK TRUST CKT NSS TRUSTED DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA TRUST STEP UP APPROVED CK BBOOL CK FALSE
# Certificate "emSign Root CA - C1"
# Issuer: CN=emSign Root CA - C1,O=eMudhra Inc,OU=emSign PKI,C=US
# Serial Number:00:ae:cf:00:ba:c4:cf:32:f8:43:b2
# Subject: CN=emSign Root CA - C1,O=eMudhra Inc,OU=emSign PKI,C=US
# Not Valid Before: Sun Feb 18 18:30:00 2018
# Not Valid After: Wed Feb 18 18:30:00 2043
# Fingerprint (SHA-256):
12:56:09:AA:30:1D:A0:A2:49:B9:7A:82:39:CB:6A:34:21:6F:44:DC:AC:9F:39:54:B1:42:92:F2:E8:C8:60:8F
# Fingerprint (SHA1): E7:2E:F1:DF:FC:B2:09:28:CF:5D:D4:D5:67:37:B1:51:CB:86:4F:01
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "emSign Root CA -
C1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\126\061\013\060\011\006\003\125\004\006\023\002\125\123\061
```

END

CKA ID UTF8 "0"

CKA ISSUER MULTILINE OCTAL

 $\label{eq:condition} $$ \00126\001\006\003\125\004\0006\023\002\125\123\061\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147\156\040\112\013\111\061\024\060\022\006\003\125\004\0012\023\013\145\115\165\144\150\162\141\040\111\156\143\061\034\060\032\006\003\125\004\003\203\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

 $\label{eq:condition} $$ \000\013\000\256\317\000\272\304\317\062\370\103\262 $$$

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 \022\006\003\125\004\012\023\013\145\115\165\144\150\162\141\040 \111\156\143\061\034\060\032\006\003\125\004\003\023\023\145\155 \123\151\147\156\040\122\157\157\164\040\103\101\040\055\040\103 \061\060\036\027\015\061\070\060\062\061\070\061\070\063\060\060 \060\132\027\015\064\063\060\062\061\070\061\070\063\060\060 \132\060\126\061\013\060\011\006\003\125\004\006\023\002\125\123 \061\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147 $\label{eq:condition} $$ \frac{156}040\\120\\113\\111\\061\\024\\060\\022\\006\\003\\125\\004\\012\\023\\013$ \145\115\165\144\150\162\141\040\111\156\143\061\034\060\032\006 \003\125\004\003\023\023\145\155\123\151\147\156\040\122\157\157 \164\040\103\101\040\055\040\103\061\060\202\001\042\060\015\006 \011\052\206\110\206\367\015\001\001\001\005\000\003\202\001\017 \000\060\202\001\012\002\202\001\001\000\317\353\251\271\361\231 \005\314\330\050\041\112\363\163\064\121\204\126\020\365\240\117 $\\ 054\\ 022\\ 343\\ 372\\ 023\\ 232\\ 047\\ 320\\ 317\\ 371\\ 171\\ 032\\ 164\\ 137\\ 035\\ 171$ $\label{eq:condition} $$ \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 $\label{eq:condition} $$ \013\105\150\030\110\245\106\163\064\073\376\017\310\166\273\307 $$$ \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 $\label{eq:condition} $$ \340\160\036\052\003\071\122\132\102\276\134\221\205\172\030\252$ \115\265\060\016\006\003\125\035\017\001\001\377\004\004\003\002 $\label{eq:condition} $$ \001\006\00017\006\003\125\035\023\001\001\377\004\005\060\003$ $\label{eq:condition} $$ \001\001\377\060\015\006\011\052\206\110\206\367\015\001\001\013$ \005\000\003\202\001\001\000\302\112\126\372\025\041\173\050\242 $\label{eq:condition} $$ \frac{351}{345} \frac{373}{370} \frac{370}{055} \frac{304}{071} \frac{226}{101} \frac{114}{073} \frac{047}{054} \frac{304}{154}$ $\label{eq:condition} $$ \030\025\200\306\254\257\107\131\057\046\013\343\066\260\357\073$ \376\103\227\111\062\231\022\025\133\337\021\051\377\253\123\370 \273\301\170\017\254\234\123\257\127\275\150\214\075\151\063\360 $\label{eq:condition} $\243\240\043\143\073\144\147\042\104\255\325\161\313\126\052\170$$ \222\243\117\022\061\066\066\342\336\376\000\304\243\140\017\047 \255\240\260\212\265\066\172\122\241\275\047\364\040\047\142\350 \115\224\044\023\344\012\004\351\074\253\056\310\103\011\112\306 \141\004\345\111\064\176\323\304\310\365\017\300\252\351\272\124 \136\363\143\053\117\117\120\324\376\271\173\231\214\075\300\056 \274\002\053\323\304\100\344\212\007\061\036\233\316\046\231\023 $\label{eq:condition} $$ \373\021\352\232\042\014\021\031\307\136\033\201\120\060\310\226$ $\label{eq:condition} $$ \022\156\347\313\101\177\221\073\242\107\267\124\200\033\334\000 $$$ \314\232\220\352\303\303\120\006\142\014\060\300\025\110\247\250 \131\174\341\256\042\242\342\012\172\017\372\142\253\122\114\341 \361\337\312\276\203\015\102

END

 $CKA_NSS_MOZILLA_CA_POLICY$

CK BBOOL CK TRUE

CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

```
# Trust for "emSign Root CA - C1"
```

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

[#] 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

```
\347\056\361\337\374\262\011\050\317\135\324\325\147\067\261\121
\313\206\117\001
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\330\343\135\001\041\372\170\132\260\337\272\322\356\052\137\150
END
CKA ISSUER MULTILINE OCTAL
\060\126\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147\156
\040\120\113\111\061\024\060\022\006\003\125\004\012\023\013\145
\115\165\144\150\162\141\040\111\156\143\061\034\060\032\006\003
\125\004\003\023\023\145\155\123\151\147\156\040\122\157\157\164
\040\103\101\040\055\040\103\061
END
CKA_SERIAL_NUMBER
MULTILINE OCTAL
\002\013\000\256\317\000\272\304\317\062\370\103\262
END
CKA TRUST SERVER AUTH CK TRUST CKT NSS TRUSTED DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA TRUST CODE SIGNING CK TRUST CKT NSS MUST VERIFY TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
# Certificate "emSign ECC Root CA - C3"
# Issuer: CN=emSign ECC Root CA - C3,O=eMudhra Inc,OU=emSign PKI,C=US
# Serial Number:7b:71:b6:82:56:b8:12:7c:9c:a8
# Subject: CN=emSign ECC Root CA - C3,O=eMudhra Inc,OU=emSign PKI,C=US
# Not Valid Before: Sun Feb 18 18:30:00 2018
# Not Valid After: Wed Feb 18 18:30:00 2043
# Fingerprint (SHA-256):
BC:4D:80:9B:15:18:9D:78:DB:3E:1D:8C:F4:F9:72:6A:79:5D:A1:64:3C:A5:F1:35:8E:1D:DB:0E:DC:0D:7E:B3
# Fingerprint (SHA1): B6:AF:43:C2:9B:81:53:7D:F6:EF:6B:C3:1F:1F:60:15:0C:EE:48:66
CKA CLASS CK OBJECT CLASS CKO CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA PRIVATE CK BBOOL CK FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "emSign ECC
Root CA - C3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA SUBJECT MULTILINE OCTAL
\060\132\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147\156
\040\120\113\111\061\024\060\022\006\003\125\004\012\023\013\145
\115\165\144\150\162\141\040\111\156\143\061\040\060\036\006\003
\125\004\003\023\027\145\155\123\151\147\156\040\105\103\103\040
\122\157\157\164\040\103\101\040\055\040\103\063
```

END

CKA ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

 $\label{eq:condition} $$ \000\132\061\013\060\011\006\003\125\004\006\023\002\125\123\061\023\060\021\006\003\125\004\012\145\155\123\151\147\156\040\120\23\013\145\115\165\144\150\162\141\040\111\156\143\061\040\060\036\006\003\125\004\003\023\027\145\155\123\151\147\156\040\105\103\103\040\122\157\157\164\040\103\101\040\055\040\103\063$

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

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

END

CKA_VALUE MULTILINE_OCTAL

 $\label{eq:condition} $$ \060\202\002\001\261\240\003\002\001\002\002\012\173 $$$ \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 $\label{eq:condition} $$ 004\012\023\013\145\115\165\144\150\162\141\040\111\156\143\061 $$$ \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 $\label{eq:condition} $$ \063\060\036\027\015\061\070\060\062\061\070\061\070\063\060\060$ \060\132\027\015\064\063\060\062\061\070\061\070\063\060\060\060 \132\060\132\061\013\060\011\006\003\125\004\006\023\002\125\123 \061\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147 \156\040\120\113\111\061\024\060\022\006\003\125\004\012\023\013 \145\115\165\144\150\162\141\040\111\156\143\061\040\060\036\006 \003\125\004\003\023\027\145\155\123\151\147\156\040\105\103\103 \040\122\157\157\164\040\103\101\040\055\040\103\063\060\166\060 $\label{eq:condition} $$ \020\006\007\052\206\110\316\075\002\001\006\005\053\201\004\000 $$$ \042\003\142\000\004\375\245\141\256\173\046\020\035\351\267\042 \060\256\006\364\201\263\261\102\161\225\071\274\323\122\343\257 \257\371\362\227\065\222\066\106\016\207\225\215\271\071\132\351 \273\337\320\376\310\007\101\074\273\125\157\203\243\152\373\142 \260\201\211\002\160\175\110\305\112\343\351\042\124\042\115\223 \273\102\014\257\167\234\043\246\175\327\141\021\316\145\307\370 \177\376\365\362\251\243\102\060\100\060\035\006\003\125\035\016 $\label{eq:condition} $$ \004\026\004\024\373\132\110\320\200\040\100\362\250\351\000\007 $$$ \151\031\167\247\346\303\364\317\060\016\006\003\125\035\017\001 \001\377\004\004\003\002\001\006\060\017\006\003\125\035\023\001 \001\377\004\005\060\003\001\001\377\060\012\006\010\052\206\110 \316\075\004\003\003\003\150\000\060\145\002\061\000\264\330\057 \002\211\375\266\114\142\272\103\116\023\204\162\265\256\335\034 \336\326\265\334\126\217\130\100\132\055\336\040\114\042\203\312 \223\250\176\356\022\100\307\326\207\117\370\337\205\002\060\034 $\label{eq:condition} $$ \024\144\344\174\226\203\021\234\260\321\132\141\113\246\017\111$ \323\000\374\241\374\344\245\377\177\255\327\060\320\307\167\177

\276\201\007\125\060\120\040\024\365\127\070\012\250\061\121 **END** CKA_NSS_MOZILLA_CA_POLICY CK BBOOL CK TRUE CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE # Trust for "emSign ECC Root CA - C3" # Issuer: CN=emSign ECC Root CA - C3,O=eMudhra Inc,OU=emSign PKI,C=US # Serial Number:7b:71:b6:82:56:b8:12:7c:9c:a8 # Subject: CN=emSign ECC Root CA - C3,O=eMudhra Inc,OU=emSign PKI,C=US # Not Valid Before: Sun Feb 18 18:30:00 2018 # Not Valid After: Wed Feb 18 18:30:00 2043 # Fingerprint (SHA-256): BC:4D:80:9B:15:18:9D:78:DB:3E:1D:8C:F4:F9:72:6A:79:5D:A1:64:3C:A5:F1:35:8E:1D:DB:0E:DC:0D:7E:B3 # Fingerprint (SHA1): B6:AF:43:C2:9B:81:53:7D:F6:EF:6B:C3:1F: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 $\label{eq:condition} $$ \076\123\263\243\201\356\327\020\370\323\260\035\027\222\365\325 $$$ **END** CKA ISSUER MULTILINE OCTAL $\label{eq:condition} $$ \060\132\061\013\060\011\006\003\125\004\006\023\002\125\123\061 $$$ \023\060\021\006\003\125\004\013\023\012\145\155\123\151\147\156 \040\120\113\111\061\024\060\022\006\003\125\004\012\023\013\145 \115\165\144\150\162\141\040\111\156\143\061\040\060\036\006\003 \125\004\003\023\027\145\155\123\151\147\156\040\105\103\103\040 \122\157\157\164\040\103\101\040\055\040\103\063 **END** CKA_SERIAL_NUMBER MULTILINE_OCTAL $\label{eq:condition} $$ \002\012\173\161\266\202\126\270\022\174\234\250$$ **END** CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR

 ${\tt CKA_TRUST_EMAIL_PROTECTION\ CK_TRUST\ CKT_NSS_TRUSTED_DELEGATOR}$

 ${\tt CKA_TRUST_CODE_SIGNING\ CK_TRUST\ CKT_NSS_MUST_VERIFY_TRUST}$

CKA_TRUST_STEP_UP_APPROVED

CK_BBOOL CK_FALSE

#

Certificate "Hongkong Post Root CA 3"

- # Issuer: CN=Hongkong Post Root CA 3,O=Hongkong Post,L=Hong Kong,ST=Hong Kong,C=HK
- # Serial Number:08:16:5f:8a:4c:a5:ec:00:c9:93:40:df:c4:c6:ae:23:b8:1c:5a:a4
- # Subject: CN=Hongkong Post Root CA 3,O=Hongkong Post,L=Hong Kong,ST=Hong Kong,C=HK
- # Not Valid Before: Sat Jun 03 02:29:46 2017
- # Not Valid After: Tue Jun 03 02:29:46 2042
- # Fingerprint (SHA-256):
- 5A:2F:C0:3F:0C:83:B0:90:BB:FA:40:60:4B:09:88:44:6C:76:36:18:3D:F9:84:6E:17:10:1A:44:7F:B8:EF:D6
- # Fingerprint (SHA1): 58:A2:D0:EC:20:52:81:5B:C1:F3:F8:64:02:24:4E:C2:8E:02:4B:02
- CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
- CKA_TOKEN CK_BBOOL CK_TRUE
- CKA_PRIVATE CK_BBOOL CK_FALSE
- CKA MODIFIABLE CK BBOOL CK FALSE
- CKA_LABEL UTF8 "Hongkong Post Root CA 3"
- CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
- CKA_SUBJECT MULTILINE_OCTAL
- \060\157\061\013\060\011\006\003\125\004\006\023\002\110\113\061
- \022\060\020\006\003\125\004\010\023\011\110\157\156\147\040\113
- $\label{eq:condition} $$ \frac{157}{156}\frac{001}{022}\frac{000}{020}\frac{000}{003}\frac{125}{004}\frac{007}{023}\frac{11}{110}\frac{157}{150} $$$
- $\label{eq:condition} $$ \frac{156}{147}040\times113\times157\times156\times147\times061\times026\times060\times024\times006\times003\times125\times004\times012} $$$
- $\label{eq:condition} $$ \023\015\110\157\156\147\153\157\156\147\040\120\157\163\164\061 $$$
- $\\ \langle 040 \rangle 060 \rangle 036 \rangle 006 \rangle 003 \rangle 125 \rangle 004 \rangle 003 \rangle 023 \rangle 027 \rangle 110 \rangle 157 \rangle 156 \rangle 147 \rangle 153 \rangle 157 \rangle 156 \rangle 147 \rangle 157 \rangle$
- $\label{eq:condition} $$ \frac{156\147\040\120\157\164\040\122\157\157\164\040\103\101\040}{101\040\122\157\157\164\040\103\101\040}$

\063 END

CKA ID

UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

 $\label{eq:control} $$ \001.57\001\013\060\011\006\003\125\004\006\023\002\110\113\061 $$ \022\060\020\006\003\125\004\0007\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\156\147\153\157\156\147\040\120\157\156\147\040\103\101\040 $$ \063$$

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

\002\024\010\026\137\212\114\245\354\000\311\223\100\337\304\306\256\043\270\034\132\244

END

CKA_VALUE MULTILINE_OCTAL

 $\label{eq:condition} $$ \000\202\005\317\060\202\003\267\240\003\002\001\002\002\002\002\002\0001\0002\0002\0002\0001\0002\0001\0002\0001\0$

\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 \153\157\156\147\040\120\157\163\164\040\122\157\157\164\040\103 \101\040\063\060\036\027\015\061\067\060\066\060\063\060\062\062 \071\064\066\132\027\015\064\062\060\066\060\063\060\062\062\071 \064\066\132\060\157\061\013\060\011\006\003\125\004\006\023\002 \110\113\061\022\060\020\006\003\125\004\010\023\011\110\157\156 \147\040\113\157\156\147\061\022\060\020\006\003\125\004\007\023 \011\110\157\156\147\040\113\157\156\147\061\026\060\024\006\003 $\label{eq:condition} $$ \frac{004}{012}\frac{023}{015}\frac{110}{157}\frac{156}{147}\frac{153}{157}\frac{156}{147}\frac{040}{120}\frac{157}{156} $$$ \147\153\157\156\147\040\120\157\163\164\040\122\157\157\164\040 $\label{eq:condition} $$ 103\101\040\063\060\202\002\042\060\015\006\011\052\206\110\206$ $\label{eq:condition} $$ 367 \times 0.001 \times 0.001 \times 0.000 \times 0.003 \times 0.000 \times 0.000$ \002\202\002\001\000\263\210\327\352\316\017\040\116\276\346\326 $\label{eq:condition} $$ \003\155\356\131\374\302\127\337\051\150\241\203\016\076\150\307 $$$ \150\130\234\034\140\113\211\103\014\271\324\025\262\356\301\116 \165\351\265\247\357\345\351\065\231\344\314\034\347\113\137\215 $\label{eq:condition} $$ \063\060\040\063\123\331\246\273\325\076\023\216\351\037\207\111 $$$ \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 $\label{eq:condition} $$ \frac{313}{307}\frac{66}{332}\frac{164}{050}\frac{246}{346}\frac{124}{211}\frac{365}{101}\frac{312}{345} $$$ \046\032\315\202\340\160\332\073\051\273\325\003\365\231\272\125 $\label{eq:condition} $$ 365\144\321\140\016\263\211\111\270\212\057\005\322\204\105\050 $$$ \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 $\label{eq:condition} $$ 32\371\000\056\006\351\014\073\160\325\120\045\210\231\313\315$ \163\140\367\325\377\065\147\305\241\274\136\253\315\112\270\105 \353\310\150\036\015\015\024\106\022\343\322\144\142\212\102\230 $\label{eq:condition} $$ \274\264\306\010\010\370\375\250\114\144\234\166\001\275\057\251 $$$ \154\063\017\330\077\050\270\074\151\001\102\206\176\151\301\311 \006\312\345\172\106\145\351\302\326\120\101\056\077\267\344\355 \154\327\277\046\001\021\242\026\051\112\153\064\006\220\354\023 \322\266\373\152\166\322\074\355\360\326\055\335\341\025\354\243 \233\057\054\311\076\053\344\151\073\377\162\045\261\066\206\133 \307\177\153\213\125\033\112\305\040\141\075\256\313\120\341\010 $\label{eq:condition} $$ \072\276\260\217\143\101\123\060\010\131\074\230\035\167\272\143$ $\label{eq:condition} $$ \221\172\312\020\120\140\277\360\327\274\225\207\217\227\305\376$ $\verb|\| 227\\| 152\\| 001\\| 224\\| 243\\| 174\\| 133\\| 205\\| 035\\| 052\\| 071\\| 072\\| 320\\| 124\\| 241\\| 321\\| 241\\| 321\\| 241\\| 321\\| 241\\| 321\\| 241\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 321\\| 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 $\label{eq:condition} $$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 $\label{eq:condition} $$ 162\050\032\100\017\002\003\001\000\001\243\143\060\141\060\017 $$$

\006\003\125\035\023\001\001\377\004\005\060\003\001\001\377\060 \016\006\003\125\035\017\001\001\377\004\004\003\002\001\006\060 $\label{eq:condition} $$ \037\006\003\125\035\043\004\030\060\026\200\024\027\235\315\036$ \213\326\071\053\160\323\134\324\240\270\037\260\000\374\305\141 \060\035\006\003\125\035\016\004\026\004\024\027\235\315\036\213 $\label{eq:condition} $\326\071\053\160\323\134\324\240\270\037\260\000\374\305\141\060$$ \015\006\011\052\206\110\206\367\015\001\001\013\005\000\003\202 $\label{eq:condition} $$ \002\001\000\126\325\173\156\346\042\001\322\102\233\030\325\016$$ \327\146\043\134\343\376\240\307\222\322\351\224\255\113\242\306 \354\022\174\164\325\110\322\131\024\231\300\353\271\321\353\364 \110\060\133\255\247\127\163\231\251\323\345\267\321\056\131\044 \130\334\150\056\056\142\330\152\344\160\013\055\040\120\040\244 \062\225\321\000\230\273\323\375\367\062\362\111\256\306\172\340 \107\276\156\316\313\243\162\072\055\151\135\313\310\350\105\071 \324\372\102\301\021\114\167\135\222\373\152\377\130\104\345\353 \201\236\257\240\231\255\276\251\001\146\313\070\035\074\337\103 $\label{eq:condition} $$ \037\364\115\156\264\272\027\106\374\175\375\207\201\171\152\015$$ \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:condition} $$ \054\337\171\075\216\236\220\074\275\101\112\072\335\133\366\232 $$$ \264\316\077\045\060\177\062\175\242\003\224\320\334\172\241\122 \336\156\223\215\030\046\375\125\254\275\217\233\322\317\257\347 $\label{eq:condition} $$ \206\054\313\037\011\157\243\157\251\204\324\163\277\115\241\164$$$ \033\116\043\140\362\314\016\252\177\244\234\114\045\250\262\146 $\label{eq:condition} $$ \073\070\377\331\224\060\366\162\204\276\150\125\020\017\306\163 $$$ \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 $\label{eq:condition} $$ \023\077\042\273\110\022\035\122\000\264\002\176\041\032\036\234$ \045\364\363\075\136\036\322\034\371\263\055\266\367\067\134\306 \313\041\116\260\367\231\107\030\205\301\053\272\125\256\006\352 \320\007\262\334\253\320\202\226\165\316\322\120\376\231\347\317 \057\237\347\166\321\141\052\373\041\273\061\320\252\237\107\244 $\label{eq:condition} $$ \262\042\312\026\072\120\127\304\133\103\147\305\145\142\003\111 $$$ \001\353\103\331\330\370\236\255\317\261\143\016\105\364\240\132 \054\233\055\305\246\300\255\250\107\364\047\114\070\015\056\033 \111\073\122\364\350\210\203\053\124\050\324\362\065\122\264\062 $\label{eq:condition} $$ \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

```
# Subject: CN=Hongkong Post Root CA 3,O=Hongkong Post,L=Hong Kong,ST=Hong Kong,C=HK
# Not Valid Before: Sat Jun 03 02:29:46 2017
# Not Valid After: Tue Jun 03 02:29:46 2042
# Fingerprint (SHA-256):
5A:2F:C0:3F:0C:83:B0:90:BB:FA:40:60:4B:09:88:44:6C:76:36:18:3D:F9:84:6E:17:10:1A:44:7F:B8:EF:D6
# Fingerprint (SHA1): 58:A2:D0:EC:20:52:81:5B:C1:F3:F8:64:02:24:4E:C2:8E:02:4B:02
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA PRIVATE CK BBOOL CK FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Hongkong Post Root CA 3"
CKA CERT SHA1 HASH MULTILINE OCTAL
\130\242\320\354\040\122\201\133\301\363\370\144\002\044\116\302
\216\002\113\002
END
CKA_CERT_MD5_HASH
 MULTILINE OCTAL
\021\374\237\275\163\060\002\212\375\077\363\130\271\313\040\360
END
CKA ISSUER MULTILINE OCTAL
\label{eq:condition} $$ \060\157\061\013\060\011\006\003\125\004\006\023\002\110\113\061 $$
\label{eq:condition} $$ \022\060\020\006\003\125\004\010\023\011\110\157\156\147\040\113 
\157\156\147\061\022\060\020\006\003\125\004\007\023\011\110\157
\156\147\040\113\157\156\147\061\026\060\024\006\003\125\004\012
\023\015\110\157\156\147\153\157\156\147\040\120\157\163\164\061
\040\060\036\006\003\125\004\003\023\027\110\157\156\147\153\157
\label{eq:condition} $$ \frac{156}147 \cdot 040 \cdot 120 \cdot 157 \cdot 163 \cdot 164 \cdot 040 \cdot 122 \cdot 157 \cdot 157 \cdot 164 \cdot 040 \cdot 103 \cdot 101 \cdot 040 }{157} \cdot 164 \cdot 120 \cdot 120
\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
```

Serial Number:08:16:5f:8a:4c:a5:ec:00:c9:93:40:df:c4:c6:ae:23:b8:1c:5a:a4

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

END

CKA ID UTF8 "0"

CKA ISSUER MULTILINE OCTAL

END

CKA_SERIAL_NUMBER

MULTILINE OCTAL

\002\021\000\331\265\103\177\257\251\071\017\000\000\000\000\125 \145\255\130

END

CKA VALUE MULTILINE OCTAL

\060\202\006\113\060\202\004\063\240\003\002\001\002\002\002\001 \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 $\label{eq:condition} $$ \062\060\061\065\040\105\156\164\162\165\163\164\054\040\111\156$ $\label{eq:condition} $$ 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 $\label{eq:condition} $$ \006\003\125\004\003\023\051\105\156\164\162\165\163\164\040\122 $$$ \157\157\164\040\103\145\162\164\151\146\151\143\141\164\151\157 \156\040\101\165\164\150\157\162\151\164\171\040\055\040\107\064 \132\027\015\063\067\061\062\062\067\061\061\064\061\066\132 \060\201\276\061\013\060\011\006\003\125\004\006\023\002\125\123 \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 $\label{eq:condition} $$ \040\062\060\061\065\040\105\156\164\162\165\163\164\054\040\111 $$$ \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 \122\157\157\164\040\103\145\162\164\151\146\151\143\141\164\151 \157\156\040\101\165\164\150\157\162\151\164\171\040\055\040\107 $\label{eq:condition} $$ \064\060\202\002\042\060\015\006\011\052\206\110\206\367\015\001 $$$ \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\375\304 $\label{eq:condition} $$ \frac{350}{252}\frac{342}{240}073\frac{171}{315}\frac{173}{153}\frac{062}{335}\frac{331}{164}020 $$ \271\367\364\150\324\273\320\207\325\252\113\212\052\157\052\004 \265\262\246\307\240\172\346\110\253\322\321\131\314\326\176\043 \346\227\154\360\102\345\334\121\113\025\101\355\111\112\311\336 \020\227\326\166\301\357\245\265\066\024\227\065\330\170\042\065 \122\357\103\275\333\047\333\141\126\202\064\334\313\210\140\014 \013\132\345\054\001\306\124\257\327\252\301\020\173\322\005\132 \270\100\236\206\247\303\220\206\002\126\122\011\172\234\322\047 \202\123\112\145\122\152\365\074\347\250\362\234\257\213\275\323 \016\324\324\136\156\207\236\152\075\105\035\321\135\033\364\351 \012\254\140\231\373\211\264\377\230\054\317\174\035\351\002\252

\004\232\036\270\334\210\156\045\263\154\146\367\074\220\363\127 \301\263\057\365\155\362\373\312\241\370\051\235\106\213\263\152 \366\346\147\007\276\054\147\012\052\037\132\262\076\127\304\323 \041\041\143\145\122\221\033\261\231\216\171\176\346\353\215\000 \331\132\252\352\163\350\244\202\002\107\226\376\133\216\124\141 \243\353\057\113\060\260\213\043\165\162\174\041\074\310\366\361 \164\324\034\173\243\005\125\356\273\115\073\062\276\232\167\146 $\verb|236|254|151|220|042|007|037|141|072|226|276|345|232|117|314|005|$ $\label{eq:condition} $$ \074\050\131\323\301\014\124\250\131\141\275\310\162\114\350\334$ \237\207\177\275\234\110\066\136\225\243\016\271\070\044\125\374 \165\146\353\002\343\010\064\051\112\306\343\053\057\063\240\332 \243\206\245\022\227\375\200\053\332\024\102\343\222\275\076\362 \135\136\147\164\056\034\210\107\051\064\137\342\062\250\234\045 $\label{eq:condition} $$ \067\214\272\230\000\227\213\111\226\036\375\045\212\254\334\332 $$$ \330\135\164\156\146\260\377\104\337\241\030\306\276\110\057\067 \224\170\370\225\112\077\177\023\136\135\131\375\164\206\103\143 \035\023\001\001\377\004\005\060\003\001\001\377\060\016\006\003 \125\035\017\001\001\377\004\004\003\002\001\006\060\035\006\003 \125\035\016\004\026\004\024\237\070\304\126\043\303\071\350\240 \161\154\350\124\114\344\350\072\261\277\147\060\015\006\011\052 \206\110\206\367\015\001\001\013\005\000\003\202\002\001\000\022 $\label{eq:condition} $$ 345\102\246\173\213\017\014\344\106\245\266\140\100\207\214\045 $$$ \176\255\270\150\056\133\306\100\166\074\003\370\311\131\364\363 \253\142\316\020\215\264\132\144\214\150\300\260\162\103\064\322 \033\013\366\054\123\322\312\220\113\206\146\374\252\203\042\364 \213\032\157\046\110\254\166\167\010\277\305\230\134\364\046\211 \236\173\303\271\144\062\001\177\323\303\335\130\155\354\261\253 \204\125\164\167\204\004\047\122\153\206\114\316\335\271\145\377 \326\306\136\237\232\020\231\113\165\152\376\152\351\227\040\344 \344\166\172\306\320\044\252\220\315\040\220\272\107\144\373\177 \007\263\123\170\265\012\142\362\163\103\316\101\053\201\152\056 \205\026\224\123\324\153\137\162\042\253\121\055\102\325\000\234 \231\277\336\273\224\073\127\375\232\365\206\313\126\073\133\210 \001\345\174\050\113\003\371\111\203\174\262\177\174\343\355\216 \241\177\140\123\216\125\235\120\064\022\017\267\227\173\154\207 \112\104\347\365\155\354\200\067\360\130\031\156\112\150\166\360 \037\222\344\352\265\222\323\141\121\020\013\255\247\331\137\307 $\label{eq:condition} $$ 137\334\037\243\134\214\241\176\233\267\236\323\126\157\146\136$ $\\ \\007\\ \\226\\ \\040\\ \\355\\ \\013\\ \\164\\ \\373\\ \\146\\ \\116\\ \\213\\ \\021\\ \\025\\ \\351\\ \\201\\ \\111\\ \\176$ \157\260\324\120\177\042\327\137\145\002\015\246\364\205\036\330 \256\006\113\112\247\322\061\146\302\370\316\345\010\246\244\002 \226\104\150\127\304\325\063\317\031\057\024\304\224\034\173\244 \331\360\237\016\261\200\342\321\236\021\144\251\210\021\072\166 \202\345\142\302\200\330\244\203\355\223\357\174\057\220\260\062 \114\226\025\150\110\122\324\231\010\300\044\350\034\343\263\245 $\\ \\ \langle 041 \rangle 016 \rangle 222 \rangle 300 \rangle 220 \rangle 037 \rangle 317 \rangle 040 \rangle 137 \rangle 312 \rangle 073 \rangle 070 \rangle 307 \rangle 267 \rangle 155 \rangle 072 \rangle 073 \rangle 073$ \363\346\104\270\016\061\153\210\216\160\353\234\027\122\250\101

 $\label{eq:condition} $$\224\056\207\266\347\246\022\305\165\337\133\300\012\156\173\244\344\136\206\371\066\224\337\167\303\351\015\300\071\361\171\273\106\216\253\103\131\047\267\040\273\043\351\126\100\041\354\061\075\145\252\103\362\075\337\160\104\341\272\115\046\020\073\230\237\363\310\216\033\070\126\041\152\121\223\323\221\312\106\332\211\267\075\123\203\054\010\037\213\217\123\335\377\254\037\ END$

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE

- # Trust for "Entrust Root Certification Authority G4"
- # Issuer: CN=Entrust Root Certification Authority G4,OU="(c) 2015 Entrust, Inc. for authorized use
- only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US
- # Serial Number:00:d9:b5:43:7f:af:a9:39:0f:00:00:00:00:55:65:ad:58
- # Subject: CN=Entrust Root Certification Authority G4,OU="(c) 2015 Entrust, Inc. for authorized use only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US
- # Not Valid Before: Wed May 27 11:11:16 2015
- # Not Valid After: Sun Dec 27 11:41:16 2037
- # Fingerprint (SHA-256):

DB:35:17:D1:F6:73:2A:2D:5A:B9:7C:53:3E:C7:07:79:EE:32:70:A6:2F:B4:AC:42:38:37:24:60:E6:F0:1E:88 #

Fingerprint (SHA1): 14:88:4E:86:26:37:B0:26:AF:59:62:5C:40:77:EC:35:29:BA:96:01

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

CKA TOKEN CK BBOOL CK TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA MODIFIABLE CK BBOOL CK FALSE

CKA LABEL UTF8 "Entrust Root Certification Authority - G4"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL

\024\210\116\206\046\067\260\046\257\131\142\134\100\167\354\065 \051\272\226\001

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL

CKA_ISSUER MULTILINE_OCTAL

 $\label{eq:control_co$

```
CKA SERIAL NUMBER
MULTILINE OCTAL
\label{eq:condition} $$ \002\021\000\331\265\103\177\257\251\071\017\000\000\000\000\125 
\145\255\130
END
CKA TRUST SERVER AUTH CK TRUST CKT NSS TRUSTED DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA TRUST STEP UP APPROVED CK BBOOL CK FALSE
#
# Certificate "Microsoft ECC Root Certificate Authority 2017"
# Issuer: CN=Microsoft ECC Root Certificate Authority 2017,O=Microsoft Corporation,C=US
# Serial Number:66:f2:3d:af:87:de:8b:b1:4a:ea:0c:57:31:01:c2:ec
# Subject: CN=Microsoft ECC Root Certificate Authority
2017,O=Microsoft Corporation,C=US
# Not Valid Before: Wed Dec 18 23:06:45 2019
# Not Valid After: Fri Jul 18 23:16:04 2042
# Fingerprint (SHA-256):
35:8D:F3:9D:76:4A:F9:E1:B7:66:E9:C9:72:DF:35:2E:E1:5C:FA:C2:27:AF:6A:D1:D7:0E:8E:4A:6E:DC:BA:02
# Fingerprint (SHA1): 99:9A:64:C3:7F:F4:7D:9F:AB:95:F1:47:69:89:14:60:EE:C4:C3:C5
CKA CLASS CK OBJECT CLASS CKO CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA PRIVATE CK BBOOL CK FALSE
CKA MODIFIABLE CK BBOOL CK FALSE
CKA_LABEL UTF8 "Microsoft ECC Root Certificate Authority 2017"
CKA CERTIFICATE TYPE CK CERTIFICATE TYPE CKC X 509
CKA SUBJECT MULTILINE OCTAL
\label{eq:condition} $$ \060\145\061\013\060\011\006\003\125\004\006\023\002\125\123\061 $$
\036\060\034\006\003\125\004\012\023\025\115\151\143\162\157\163
\157\146\164\040\103\157\162\160\157\162\141\164\151\157\156\061
\066\060\064\006\003\125\004\003\023\055\115\151\143\162\157\163
\157\146\164\040\105\103\103\040\122\157\157\164\040\103\145\162
\164\151\146\151\143\141\164\145\040\101\165\164\150\157\162\151
\164\171\040\062\060\061\067
END
CKA ID
UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\145\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\036\060\034\006\003\125\004\012\023\025\115\151\143\162\157\163
\157\146\164\040\103\157\162\160\157\162\141\164\151\157\156\061
\066\060\064\006\003\125\004\003\023\055\115\151\143\162\157\163
\157\146\164\040\105\103\103\040\122\157\157\164\040\103\145\162
\164\151\146\151\143\141\164\145\040\101\165\164\150\157\162\151
```

END

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

END

CKA SERIAL NUMBER MULTILINE OCTAL

\002\020\146\362\075\257\207\336\213\261\112\352\014\127\061\001 \302\354

END

CKA VALUE MULTILINE OCTAL

\060\202\002\131\060\202\001\337\240\003\002\001\002\002\020\146 \362\075\257\207\336\213\261\112\352\014\127\061\001\302\354\060 \012\006\010\052\206\110\316\075\004\003\003\060\145\061\013\060 \011\006\003\125\004\006\023\002\125\123\061\036\060\034\006\003 \125\004\012\023\025\115\151\143\162\157\163\157\146\164\040\103 \157\162\160\157\162\141\164\151\157\156\061\066\060\064\006\003 \125\004\003\023\055\115\151\143\162\157\163\157\146\164\040\105 $\label{eq:condition} $$ 103\103\040\122\157\157\164\040\103\145\162\164\151\146\151\143$ \141\164\145\040\101\165\164\150\157\162\151\164\171\040\062\060 \061\067\060\036\027\015\061\071\061\062\061\070\062\063\060\066 \064\065\132\027\015\064\062\060\067\061\070\062\063\061\066\060 \064\132\060\145\061\013\060\011\006\003\125\004\006\023\002\125 \123\061\036\060\034\006\003\125\004\012\023\025\115\151\143\162 $\label{eq:control_loss} $$ \frac{157}{163}\frac{157}{164}\frac{164}{040}\frac{103}{157}\frac{162}{160}\frac{157}{162}\frac{141}{164}\frac{151}{157} $$$ \156\061\066\060\064\006\003\125\004\003\023\055\115\151\143\162 \157\163\157\146\164\040\105\103\103\040\122\157\157\164\040\103 \162\151\164\171\040\062\060\061\067\060\166\060\020\006\007\052 \206\110\316\075\002\001\006\005\053\201\004\000\042\003\142\000 \004\324\274\075\002\102\165\101\023\043\315\200\004\206\002\121 \057\152\250\201\142\013\145\314\366\312\235\036\157\112\146\121 \242\003\331\235\221\372\266\026\261\214\156\336\174\315\333\171 \246\057\316\273\316\161\057\345\245\253\050\354\143\004\146\231 \370\372\362\223\020\005\341\201\050\102\343\306\150\364\346\033 $\verb|\204|140|112|211|257|355|171|017|073|316|361|366|104|365|001|170|$ \300\243\124\060\122\060\016\006\003\125\035\017\001\001\377\004 \004\003\002\001\206\060\017\006\003\125\035\023\001\001\377\004 \005\060\003\001\001\377\060\035\006\003\125\035\016\004\026\004 \024\310\313\231\162\160\122\014\370\346\276\262\004\127\051\052 \317\102\020\355\065\060\020\006\011\053\006\001\004\001\202\067 \025\001\004\003\002\001\000\060\012\006\010\052\206\110\316\075 \004\003\003\003\150\000\060\145\002\060\130\362\115\352\014\371 $\label{eq:condition} $$ 137\136\356\140\051\313\072\362\333\326\062\204\031\077\174\325 $$$ $\label{eq:condition} $$ \057\302\261\314\223\256\120\273\011\062\306\306\355\176\311\066$$ \224\022\344\150\205\006\242\033\320\057\002\061\000\231\351\026 \264\016\372\126\110\324\244\060\026\221\170\333\124\214\145\001 \212\347\120\146\302\061\267\071\272\270\032\042\007\116\374\153 \124\026\040\377\053\265\347\114\014\115\246\117\163

END

CKA_NSS_MOZILLA_CA_POLICY

CK_BBOOL CK_TRUE

CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE

CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

```
# Trust for "Microsoft ECC Root Certificate Authority 2017"
# Issuer: CN=Microsoft ECC Root Certificate Authority 2017,O=Microsoft Corporation,C=US
# Serial Number:66:f2:3d:af:87:de:8b:b1:4a:ea:0c:57:31:01:c2:ec
# Subject: CN=Microsoft ECC Root Certificate Authority 2017,O=Microsoft Corporation,C=US
# Not Valid Before: Wed Dec 18 23:06:45 2019
# Not Valid After: Fri Jul 18 23:16:04 2042
# Fingerprint (SHA-256):
35:8D:F3:9D:76:4A:F9:E1:B7:66:E9:C9:72:DF:35:2E:E1:5C:FA:C2:27:AF:6A:D1:D7:0E:8E:4A:6E:DC:BA:02
# Fingerprint (SHA1): 99:9A:64:C3:7F:F4:7D:9F:AB:95:F1:47:69:89:14:60:EE:C4:C3:C5
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA TOKEN CK BBOOL CK TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA LABEL UTF8 "Microsoft ECC Root Certificate
Authority 2017"
CKA CERT SHA1 HASH MULTILINE OCTAL
\231\232\144\303\177\364\175\237\253\225\361\107\151\211\024\140
\356\304\303\305
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\335\241\003\346\112\223\020\321\277\360\031\102\313\376\355\147
END
CKA_ISSUER MULTILINE_OCTAL
\060\145\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\036\060\034\006\003\125\004\012\023\025\115\151\143\162\157\163
\label{eq:condition} $$ \frac{157}{146}\frac{040}{103}\frac{157}{162}\frac{160}{157}\frac{162}{141}\frac{164}{151}\frac{157}{156}\frac{061}{157} $$
\066\060\064\006\003\125\004\003\023\055\115\151\143\162\157\163
\157\146\164\040\105\103\103\040\122\157\157\164\040\103\145\162
\164\171\040\062\060\061\067
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"
```

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

 $\label{lem:condition} $$ \000\145\001\003\125\004\0003\125\123\001\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\0003\125\0004\0003\023\055\115\151\143\162\157\163\157\146\164\040\122\123\101\040\122\157\157\164\040\103\145\162\151\146\151\143\141\164\145\040\101\165\164\150\157\162\151$

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

END

CKA ID

UTF8 "0"

CKA ISSUER MULTILINE OCTAL

 $\label{eq:condition} $$ \000145\001\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\125\004\003\023\055\115\151\143\162\157\163\157\146\040\102\123\101\040\122\157\157\164\040\103\145\162\151\146\151\143\141\164\145\040\101\165\164\150\157\162\151\164\171\040\062\060\061\067$

END

CKA SERIAL NUMBER MULTILINE OCTAL

\002\020\036\323\227\011\137\330\264\263\107\160\036\252\276\177 \105\263

END

CKA_VALUE MULTILINE_OCTAL

\060\060\062\063\132\060\145\061\013\060\011\006\003\125\004\006 \023\002\125\123\061\036\060\034\006\003\125\004\012\023\025\115 \151\143\162\157\163\157\146\164\040\103\157\162\160\157\162\141 \164\151\157\156\061\066\060\064\006\003\125\004\003\023\055\115 \151\143\162\157\163\157\146\164\040\122\123\101\040\122\157\157 $\label{eq:condition} $$ 164\040\103\145\162\164\151\146\151\143\141\164\145\040\101\165$ \164\150\157\162\151\164\171\040\062\060\061\067\060\202\002\042 $\label{eq:condition} $$ \006\011\052\206\110\206\367\015\001\001\001\005\000\003$ $\label{eq:condition} $$ \202\002\017\000\060\202\002\012\002\202\002\001\000\312\133\276$ \224\063\214\051\225\221\026\012\225\275\107\142\301\211\363\231 $\label{eq:condition} $$ \066\337\106\220\311\245\355\170\152\157\107\221\150\370\047\147 $$$ \120\063\035\241\246\373\340\345\103\243\204\002\127\001\135\234 \110\100\202\123\020\274\277\307\073\150\220\266\202\055\345\364 \145\320\314\155\031\314\225\371\173\254\112\224\255\016\336\113 $\label{eq:condition} $$ 103\035\207\007\222\023\220\200\203\144\065\071\004\374\345\351 $$$ \154\263\266\037\120\224\070\145\120\134\027\106\271\266\205\265 $\label{eq:condition} $$ \034\265\027\350\326\105\235\330\262\046\260\312\304\160\112\256$$ \140\244\335\263\331\354\374\073\325\127\162\274\077\310\311\262 \336\113\153\370\043\154\003\300\005\275\225\307\315\163\073\146 \200\144\343\032\254\056\371\107\005\362\006\266\233\163\365\170 \063\133\307\241\373\047\052\241\264\232\221\214\221\323\072\202 \076\166\100\264\315\122\141\121\160\050\077\305\305\132\362\311 \214\111\273\024\133\115\310\377\147\115\114\022\226\255\365\376 \170\250\227\207\327\375\136\040\200\334\241\113\042\373\324\211 $\label{eq:condition} $$ \255\272\316\107\227\107\125\173\217\105\310\147\050\204\225\034$$ \150\060\357\357\111\340\065\173\144\347\230\260\224\332\115\205 \073\076\125\304\050\257\127\363\236\023\333\106\047\237\036\242 \136\104\203\244\245\312\325\023\263\113\077\304\343\302\346\206 \141\244\122\060\271\172\040\117\157\017\070\123\313\063\014\023 \053\217\326\232\275\052\310\055\261\034\175\113\121\312\107\321 $\label{eq:condition} $$ \frac{110\,047\,162\,135\,207\,353\,325\,105\,346\,110\,145\,235\,257\,122\,220\,272}{120\,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 $\label{eq:condition} $\324\024\271\052\250\327\354\371\253\315\045\130\062\171\217\220$ \133\230\071\304\010\006\301\254\177\016\075\000\245\002\003\001 $\label{eq:condition} $$ \000\001\243\124\060\122\060\016\006\003\125\035\017\001\001\377 $$$ \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 $\label{eq:condition} $$ \004\024\011\313\131\177\206\262\160\217\032\303\071\343\300\331 $$$ \351\277\273\115\262\043\060\020\006\011\053\006\001\004\001\202 $\label{eq:condition} $$ \0.067\0.25\0.01\0.004\0.03\0.02\0.01\0.000\0.015\0.06\0.11\0.52\2.06\1.10\2.06$ \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 $\label{eq:condition} $$ \250\227\126\256\145\103\261\217\000\233\122\315\125\315\123\071 $$$ \155\142\114\213\015\133\174\056\104\277\203\020\217\363\123\202 \200\303\117\072\307\156\021\077\346\343\026\221\204\373\155\204 \177\064\164\255\211\247\316\271\327\327\237\204\144\222\276\225 \241\255\011\123\063\335\356\012\352\112\121\216\157\125\253\272 \265\224\106\256\214\177\330\242\120\045\145\140\200\106\333\063 \004\256\154\265\230\164\124\045\334\223\344\370\343\125\025\075 \270\155\303\012\244\022\301\151\205\156\337\144\361\123\231\341 $\label{eq:condition} $$ \frac{112\\165\\040\\235\\225\\017\\344\\326\\334\\003\\361\\131\\030\\350\\107\\211$ $\label{eq:condition} $$ \262\127\132\224\266\251\330\027\053\027\111\345\166\313\301\126$ \231\072\067\261\377\151\054\221\221\223\341\337\114\243\067\166 \115\241\237\370\155\036\035\323\372\354\373\364\105\035\023\155 \317\367\131\345\042\047\162\053\206\363\127\273\060\355\044\115 \334\175\126\273\243\263\370\064\171\211\301\340\362\002\141\367 \246\374\017\273\034\027\013\256\101\331\174\275\047\243\375\056 \072\321\223\224\261\163\035\044\213\257\133\040\211\255\267\147 \146\171\365\072\306\246\226\063\376\123\222\310\106\261\021\221 $\label{eq:condition} $$ 306\231\177\217\311\326\146\061\040\101\020\207\055\014\326\301 $$$ \257\064\230\312\144\203\373\023\127\321\301\360\074\172\214\245 $\label{eq:condition} $$ 301\375\225\041\240\161\301\223\147\161\022\352\217\210\012\151$ $\label{eq:condition} $$ \031\144\231\043\126\373\254\052\056\160\276\146\304\014\204\357 $$$ \345\213\363\223\001\370\152\220\223\147\113\262\150\243\265\142 $\label{eq:condition} $$ \frac{351}077\\214\\172\\073\\136\\017\\347\\214\\270\\306\\174\\357\\067\\375$ \164\342\310\117\063\162\341\224\071\155\275\022\257\276\014\116 \160\174\033\157\215\263\062\223\163\104\026\155\350\364\367\340 \225\200\217\226\135\070\244\364\253\336\012\060\207\223\330\115 \000\161\142\105\047\113\072\102\204\133\177\145\267\147\064\122 \055\234\026\153\252\250\330\173\243\102\114\161\307\014\312\076 \203\344\246\357\267\001\060\136\121\243\171\365\160\151\246\101 \104\017\206\260\054\221\306\075\352\256\017\204

END

CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "Microsoft RSA

Root Certificate Authority 2017"

- # Issuer: CN=Microsoft RSA Root Certificate Authority 2017,O=Microsoft Corporation,C=US
- # Serial Number:1e:d3:97:09:5f:d8:b4:b3:47:70:1e:aa:be:7f:45:b3
- # Subject: CN=Microsoft RSA Root Certificate Authority 2017,O=Microsoft Corporation,C=US
- # Not Valid Before: Wed Dec 18 22:51:22 2019
- # Not Valid After: Fri Jul 18 23:00:23 2042
- # Fingerprint (SHA-256):

C7:41:F7:0F:4B:2A:8D:88:BF:2E:71:C1:41:22:EF:53:EF:10:EB:A0:CF:A5:E6:4C:FA:20:F4:18:85:30:73:E0

Fingerprint (SHA1): 73:A5:E6:4A:3B:FF:83:16:FF:0E:DC:CC:61:8A:90:6E:4E:AE:4D:74

```
CKA CLASS CK OBJECT CLASS CKO NSS TRUST
CKA TOKEN CK BBOOL CK TRUE
CKA PRIVATE CK BBOOL CK FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Microsoft RSA Root Certificate Authority 2017"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\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
\label{eq:condition} $$ \020\377\000\377\317\311\370\307\172\300\356\065\216\311\017\107
END
CKA ISSUER MULTILINE OCTAL
\label{eq:condition} $$ \060\145\061\013\060\011\006\003\125\004\006\023\002\125\123\061\
\label{eq:condition} $$ \036\060\034\006\003\125\004\012\023\025\115\151\143\162\157\163
\157\146\164\040\103\157\162\160\157\162\141\164\151\157\156\061
\066\060\064\006\003\125\004\003\023\055\115\151\143\162\157\163
\157\146\164\040\122\123\101\040\122\157\157\164\040\103\145\162
\164\151\146\151\143\141\164\145\040\101\165\164\150\157\162\151
\164\171\040\062\060\061\067
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\020\036\323\227\011\137\330\264\263\107\160\036\252\276\177
\105\263
END
CKA TRUST SERVER AUTH CK TRUST CKT NSS TRUSTED DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA TRUST CODE SIGNING CK TRUST CKT NSS MUST VERIFY TRUST
{\tt CKA\_TRUST\_STEP\_UP\_APPROVED\ CK\_BBOOL\ CK\_FALSE}
# Certificate "e-Szigno Root CA 2017"
# Issuer: CN=e-Szigno Root CA 2017,OID.2.5.4.97=VATHU-23584497,O=Microsec Ltd.,L=Budapest,C=HU
# Serial Number:01:54:48:ef:21:fd:97:59:0d:f5:04:0a
# Subject: CN=e-Szigno Root CA 2017, OID. 2.5.4.97=VATHU-23584497, O=Microsec
Ltd.,L=Budapest,C=HU
# Not Valid Before: Tue Aug 22 12:07:06 2017
# Not Valid After: Fri Aug 22 12:07:06 2042
# Fingerprint (SHA-256):
BE:B0:0B:30:83:9B:9B:C3:2C:32:E4:44:79:05:95:06:41:F2:64:21:B1:5E:D0:89:19:8B:51:8A:E2:EA:1B:99
# Fingerprint (SHA1): 89:D4:83:03:4F:9E:9A:48:80:5F:72:37:D4:A9:A6:EF:CB:7C:1F:D1
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "e-Szigno Root CA 2017"
```

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509 CKA_SUBJECT MULTILINE_OCTAL

 $\label{eq:condition} $$ \000161\001\006\003\125\004\000\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\066\0024\006\003\125\004\012\014\015\115\151\143\162\157\163\145\143\040\114\164\144\056\061\027\060\025\006\003\125\004\141\014\016\126\101\124\110\125\055\062\063\065\070\064\064\071\067\061\036\060\034\006\003\125\004\003\014\025\145\055\123\172\151\147\156\157\040\122\157\157\164\040\103\101\040\062\060\061\067$

END

CKA ID

UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

 $\label{eq:condition} $$ \000161\001\006\003\125\004\000\002\002\100\125\004\000\125\004\141\110\125\004\141\110\125\004\141\110\125\004\141\1014\141\1014\126\101\124\110\125\004\003\125\004\003\125\004\103\145\145\005\145\005\125\145\005\123\172\151\147\156\157\040\122\157\157\164\040\103\101\040\062\066\061\067$$

END

CKA SERIAL NUMBER MULTILINE OCTAL

 $\label{eq:condition} $$ \002\014\001\124\110\357\041\375\227\131\015\365\004\012 $$$

END

CKA VALUE MULTILINE OCTAL

 $\label{eq:condition} $$ \0.060\202\000\345\240\003\002\001\002\002\014\001 $$$ \124\110\357\041\375\227\131\015\365\004\012\060\012\006\010\052 \206\110\316\075\004\003\002\060\161\061\013\060\011\006\003\125 \010\102\165\144\141\160\145\163\164\061\026\060\024\006\003\125 \004\012\014\015\115\151\143\162\157\163\145\143\040\114\164\144 \056\061\027\060\025\006\003\125\004\141\014\016\126\101\124\110 \125\055\062\063\065\070\064\064\071\067\061\036\060\034\006\003 \125\004\003\014\025\145\055\123\172\151\147\156\157\040\122\157 \157\164\040\103\101\040\062\060\061\067\060\036\027\015\061\067 \060\070\062\062\061\062\060\067\060\066\132\027\015\064\062\060 $\label{eq:condition} $$ \070\062\062\060\066\066\132\060\161\061\013\060\011 $$$ $\label{eq:condition} $$ \006\003\125\004\006\023\002\110\125\061\021\060\017\006\003\125\$ \004\007\014\010\102\165\144\141\160\145\163\164\061\026\060\024 \006\003\125\004\012\014\015\115\151\143\162\157\163\145\143\040 \114\164\144\056\061\027\060\025\006\003\125\004\141\014\016\126 \101\124\110\125\055\062\063\065\070\064\064\071\067\061\036\060 \034\006\003\125\004\003\014\025\145\055\123\172\151\147\156\157 \040\122\157\157\164\040\103\101\040\062\060\061\067\060\131\060 \023\006\007\052\206\110\316\075\002\001\006\010\052\206\110\316 \075\003\001\007\003\102\000\004\226\334\075\212\330\260\173\157

\306\047\276\104\220\261\263\126\025\173\216\103\044\175\032\204 \131\356\143\150\262\306\136\207\320\025\110\036\250\220\255\275 $\label{eq:condition} $$ 123\242\332\336\072\220\246\140\137\150\062\265\206\101\337\207$ \133\054\173\305\376\174\172\332\243\143\060\141\060\017\006\003 \125\035\023\001\001\377\004\005\060\003\001\001\377\060\016\006 \003\125\035\016\004\026\004\024\207\021\025\010\321\252\301\170 $\label{eq:condition} $$ \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 $\label{eq:condition} $$ \000\265\127\335\327\212\125\013\066\341\206\104\372\324\331\150 $$$ \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 \371\347\334\061

END

CKA NSS MOZILLA CA POLICY

CK_BBOOL CK_TRUE

 ${\tt CKA_NSS_SERVER_DISTRUST_AFTER\ CK_BBOOL\ CK_FALSE}$

 ${\tt CKA_NSS_EMAIL_DISTRUST_AFTER\ CK_BBOOL\ CK_FALSE}$

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

 $\ \ \, \backslash 313\backslash 174\backslash 037\backslash 321$

END

CKA_CERT_MD5_HASH

MULTILINE_OCTAL

\336\037\366\236\204\256\247\264\041\316\036\130\175\321\204\230

END

CKA_ISSUER MULTILINE_OCTAL

\060\161\061\013\060\011\006\003\125\004\006\023\002\110\125\061 \021\060\017\006\003\125\004\007\014\010\102\165\144\141\160\145 \163\164\061\026\060\024\006\003\125\004\012\014\015\115\1143

```
\162\157\163\145\143\040\114\164\144\056\061\027\060\025\006\003
\125\004\141\014\016\126\101\124\110\125\055\062\063\065\070\064
\064\071\067\061\036\060\034\006\003\125\004\003\014\025\145\055
\123\172\151\147\156\157\040\122\157\157\164\040\103\101\040\062
\060\061\067
END
CKA SERIAL NUMBER MULTILINE OCTAL
\label{eq:condition} $$ \002\014\001\124\110\357\041\375\227\131\015\365\004\012 $$
END
CKA TRUST SERVER AUTH CK TRUST CKT NSS TRUSTED DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA TRUST STEP UP APPROVED CK BBOOL CK FALSE
#
# Certificate
"certSIGN Root CA G2"
# Issuer: OU=certSIGN ROOT CA G2,O=CERTSIGN SA,C=RO
# Serial Number:11:00:34:b6:4e:c6:36:2d:36
# Subject: OU=certSIGN ROOT CA G2,O=CERTSIGN SA,C=RO
# Not Valid Before: Mon Feb 06 09:27:35 2017
# Not Valid After: Thu Feb 06 09:27:35 2042
# Fingerprint (SHA-256):
65:7C:FE:2F:A7:3F:AA:38:46:25:71:F3:32:A2:36:3A:46:FC:E7:02:09:51:71:07:02:CD:FB:B6:EE:DA:33:05
# Fingerprint (SHA1): 26:F9:93:B4:ED:3D:28:27:B0:B9:4B:A7:E9:15:1D:A3:8D:92:E5:32
CKA CLASS CK OBJECT CLASS CKO CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA PRIVATE CK BBOOL CK FALSE
CKA MODIFIABLE CK BBOOL CK FALSE
CKA_LABEL UTF8 "certSIGN Root CA G2"
CKA CERTIFICATE TYPE CK CERTIFICATE TYPE CKC X 509
CKA SUBJECT MULTILINE OCTAL
\060\101\061\013\060\011\006\003\125\004\006\023\002\122\117\061
\024\060\022\006\003\125\004\012\023\013\103\105\122\124\123\111
\107\116\040\123\101\061\034\060\032\006\003\125\004\013\023\023
\143\145\162\164\123\111\107\116\040\122\117\117\124\040\103\101
\040\107\062
END
CKA_ID
UTF8 "0"
CKA ISSUER MULTILINE OCTAL
\060\101\061\013\060\011\006\003\125\004\006\023\002\122\117\061
\024\060\022\006\003\125\004\012\023\013\103\105\122\124\123\111
\107\116\040\123\101\061\034\060\032\006\003\125\004\013\023\023
\143\145\162\164\123\111\107\116\040\122\117\117\124\040\103\101
\040\107\062
END
```

CKA_SERIAL_NUMBER MULTILINE_OCTAL \002\011\021\000\064\266\116\306\066\055\066 END

CKA VALUE MULTILINE OCTAL

\060\202\005\107\060\202\003\057\240\003\002\001\002\002\011\021 $\label{eq:condition} $$ \000\064\266\116\306\066\055\066\060\015\006\011\052\206\110\206$ \367\015\001\001\013\005\000\060\101\061\013\060\011\006\003\125 \004\006\023\002\122\117\061\024\060\022\006\003\125\004\012\023 \006\003\125\004\013\023\023\143\145\162\164\123\111\107\116\040 \122\117\117\124\040\103\101\040\107\062\060\036\027\015\061\067 $\label{eq:condition} $$ \060\062\066\060\071\062\067\063\065\132\027\015\064\062\060 $$$ \062\060\066\060\071\062\067\063\065\132\060\101\061\013\060\011 $\label{eq:condition} $$ \006\003\125\004\006\023\002\122\117\061\024\060\022\006\003\125$ $\\ \\004\\012\\023\\013\\103\\103\\105\\122\\124\\123\\111\\107\\116\\040\\123\\101\\061$ \034\060\032\006\003\125\004\013\023\023\143\145\162\164\123\111 \107\116\040\122\117\117\124\040\103\101\040\107\062\060\202\002 \042\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000 \003\202\002\017\000\060\202\002\012\002\202\002\001\000\300\305 $\label{eq:condition} $$ 165\031\221\175\104\164\164\207\376\016\073\226\334\330\001\026$ \314\356\143\221\347\013\157\316\073\012\151\032\174\302\343\257 \202\216\206\327\136\217\127\353\323\041\131\375\071\067\102\060 $\label{eq:condition} $$ \276\120\352\266\017\251\210\330\056\055\151\041\347\321\067\030 $$$ \116\175\221\325\026\137\153\133\000\302\071\103\015\066\205\122 \271\123\145\017\035\102\345\217\317\005\323\356\334\014\032\331 \270\213\170\042\147\344\151\260\150\305\074\344\154\132\106\347 \315\307\372\357\304\354\113\275\152\244\254\375\314\050\121\357 \222\264\051\253\253\065\232\114\344\304\010\306\046\314\370\151 \237\344\234\360\051\323\134\371\306\026\045\236\043\303\040\301 \075\017\077\070\100\260\376\202\104\070\252\132\032\212\153\143 $\label{eq:condition} $$ \frac{130\\070\\264\\025\\323\\266\\021\\151\\173\\036\\124\\356\\214\\032\\042\\254$ \162\227\077\043\131\233\311\042\204\301\007\117\314\177\342\127 \312\022\160\273\246\145\363\151\165\143\275\225\373\033\227\315 \344\250\257\366\321\116\250\331\212\161\044\315\066\075\274\226 \304\361\154\251\256\345\317\015\156\050\015\260\016\265\312\121 \173\170\024\303\040\057\177\373\024\125\341\021\231\375\325\012 \241\236\002\343\142\137\353\065\113\054\270\162\350\076\075\117 \254\054\273\056\206\342\243\166\217\345\223\052\317\245\253\310 $\label{eq:condition} $$ 134\215\113\006\377\022\106\254\170\313\024\007\065\340\251\337 $$$ \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 $\label{eq:condition} $$ \077\176\217\222\317\331\022\024\144\332\020\002\025\101\377\117$ \304\353\034\243\311\372\231\367\106\351\341\030\331\261\270\062 \055\313\024\014\120\330\203\145\203\356\271\134\317\313\005\132 \114\372\031\227\153\326\135\023\323\302\134\124\274\062\163\240

\170\365\361\155\036\313\237\245\246\237\042\334\321\121\236\202 \171\144\140\051\023\076\243\375\117\162\152\253\342\324\345\270 \044\125\054\104\113\212\210\104\234\312\204\323\052\073\002\003 \001\000\001\243\102\060\100\060\017\006\003\125\035\023\001\001 \377\004\005\060\003\001\001\377\060\016\006\003\125\035\017\001 $\label{eq:condition} $$ \001\377\004\004\003\002\001\006\060\035\006\003\125\035\016\004$ \026\004\024\202\041\055\146\306\327\240\340\025\353\316\114\011 \167\304\140\236\124\156\003\060\015\006\011\052\206\110\206\367 \015\001\001\013\005\000\003\202\002\001\000\140\336\032\270\347 \362\140\202\325\003\063\201\313\006\212\361\042\111\351\350\352 \221\177\306\063\136\150\031\003\206\073\103\001\317\007\160\344 $\label{eq:condition} $$ \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 $\label{eq:condition} $$ \frac{111}233\\021\\127\\231\\222\\103\\021\\336\\266\\063\\244\\314\\327\\215\\144$ \175\324\315\074\050\054\264\232\226\352\115\365\304\104\304\045 \252\040\200\330\051\125\367\340\101\374\006\046\377\271\066\365 \103\024\003\146\170\341\021\261\332\040\137\106\000\170\000\041 \245\036\000\050\141\170\157\250\001\001\217\235\064\232\377\364 $\label{eq:condition} $$ \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 $\label{eq:condition} $$ \frac{137}{336}\frac{200}{206}\frac{170}{347}\frac{347}{100}\frac{346}{61}\frac{250}{220}\frac{166}{160}\frac{141}{257}\frac{234}{234}$ $\label{eq:condition} $$ \054\021\265\202\267\252\256\044\064\133\162\014\151\015\315$$$ \131\237\366\161\257\234\013\321\012\070\371\006\042\203\123\045 \014\374\121\304\346\276\342\071\225\013\044\255\257\321\225\344 \226\327\164\144\153\161\116\002\074\252\205\363\040\243\103\071 \166\133\154\120\376\232\234\024\036\145\024\212\025\275\243\202 \105\132\111\126\152\322\234\261\143\062\345\141\340\123\042\016 \247\012\111\352\313\176\037\250\342\142\200\366\020\105\122\230 \006\030\336\245\315\057\177\252\324\351\076\010\162\354\043\003 $\\ \\002\\074\\246\\252\\330\\274\\147\\164\\075\\024\\027\\373\\124\\113\\027\\343$ \323\171\075\155\153\111\311\050\016\056\164\120\277\014\331\106 \072\020\206\311\247\077\351\240\354\177\353\245\167\130\151\161 \346\203\012\067\362\206\111\152\276\171\010\220\366\002\026\144 \076\345\332\114\176\014\064\311\371\137\266\263\050\121\247\247 \053\252\111\372\215\145\051\116\343\153\023\247\224\243\055\121 \155\170\014\104\313\337\336\010\157\316\243\144\253\323\225\204 $\label{eq:condition} $\324\271\122\124\162\173\226\045\314\274\151\343\110\156\015\320$$ $\label{eq:condition} $$ 307\235\047\232\252\370\023\222\335\036\337\143\237\065\251\026$ \066\354\214\270\203\364\075\211\217\315\264\027\136\327\263\027 \101\020\135\047\163\140\205\127\111\042\007

END

CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER
CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

```
# 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
\024\060\022\006\003\125\004\012\023\013\103\105\122\124\123\111
\107\116\040\123\101\061\034\060\032\006\003\125\004\013\023\023
\143\145\162\164\123\111\107\116\040\122\117\117\124\040\103\101
\040\107\062
END
CKA SERIAL NUMBER
MULTILINE OCTAL
\002\011\021\000\064\266\116\306\066\055\066
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA TRUST EMAIL PROTECTION CK TRUST CKT NSS MUST VERIFY TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
# Certificate "Trustwave Global Certification Authority"
# Issuer: CN=Trustwave Global Certification Authority,O="Trustwave Holdings,
Inc.",L=Chicago,ST=Illinois,C=US
# Serial Number:05:f7:0e:86:da:49:f3:46:35:2e:ba:b2
# Subject: CN=Trustwave Global Certification Authority,O="Trustwave Holdings,
Inc.",L=Chicago,ST=Illinois,C=US
# Not Valid Before: Wed Aug 23 19:34:12 2017
# Not Valid After: Sat Aug 23 19:34:12 2042
# Fingerprint (SHA-256):
```

Trust for "certSIGN Root CA G2"

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:condition} $$ \000\201\210\061\013\060\011\000\003\125\0004\010\014\010\111\154\151\156\157\151\163\061\020\060\016\0006\003\125\0004\0007\014\0007\103\150\151\143\141\147\157\061\041\060\037\0006\003\125\0004\012\014\030\124\162\163\164\167\141\166\145\040\110\157\154\144\151\156\147\163\054\040\111\156\143\056\061\061\060\057\0006\003\125\0004\003\125\0004\0003\124\162\165\163\164\167\141\166\145\040\107\154\157\142\141\154\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171$

END

CKA ID

UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

 $\label{eq:condition} $$ \000\201\210\061\013\060\011\006\003\125\004\010\014\010\111\154\154\151\156\157\151\163\061\020\060\016\006\003\125\004\007\014\007\103\150\151\143\141\147\157\061\041\060\037\006\003\125\004\012\014\030\124\162\165\163\164\167\141\166\145\040\110\157\154\144\151\156\147\163\054\040\111\156\143\056\061\061\060\057\006\003\125\004\003\125\004\003\125\141\156\143\162\164\167\141\166\145\040\107\154\157\142\141\154\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171$

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

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

END

CKA VALUE MULTILINE OCTAL

\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 $\label{eq:condition} $$ \006\023\002\125\123\061\021\060\017\006\003\125\004\010\014\010 $$$ \111\154\154\151\156\157\151\163\061\020\060\016\006\003\125\004 $\\ \\007\\ \\014\\ \\007\\ \\103\\ \\150\\ \\151\\ \\143\\ \\141\\ \\147\\ \\157\\ \\061\\ \\041\\ \\060\\ \\037\\ \\006\\ \\003$ \125\004\012\014\030\124\162\165\163\164\167\141\166\145\040\110 \157\154\144\151\156\147\163\054\040\111\156\143\056\061\061\060 $\label{eq:condition} $$ \006\003\125\004\003\014\050\124\162\165\163\164\167\141\166$$$ \145\040\107\154\157\142\141\154\040\103\145\162\164\151\146\151 $\\ 143 \\ 141 \\ 164 \\ 151 \\ 157 \\ 156 \\ 040 \\ 101 \\ 165 \\ 164 \\ 150 \\ 157 \\ 162 \\ 151 \\ 164 \\ 171 \\$ $\label{eq:condition} $$ \0.060\202\0.042\0.060\0.15\0.06\0.11\0.52\2.06\1.10\2.06\3.67\0.15\0.01\0.01$$ \001\005\000\003\202\002\017\000\060\202\002\012\002\202\002\001 $\label{eq:condition} $$ \000\271\135\121\050\113\074\067\222\321\202\316\275\035\275\315$$ \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 $\label{eq:condition} $$ \263\013\257\010\000\011\131\177\315\051\052\210\223\207\027\030 $$$ \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 $\label{eq:condition} $$ \060\107\263\311\076\270\152\342\347\350\201\160\136\102\213\117 $$$ \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 $\label{eq:condition} $$ \033\231\023\217\014\310\326\054\034\373\005\350\010\225\075\145$$ \106\334\356\315\151\342\115\217\207\050\116\064\013\076\317\024 \331\273\335\266\120\232\255\167\324\031\326\332\032\210\310\116 \033\047\165\330\262\010\361\256\203\060\271\021\016\315\207\360 \204\215\025\162\174\241\357\314\362\210\141\272\364\151\273\014 \214\013\165\127\004\270\116\052\024\056\075\017\034\036\062\246 \142\066\356\146\342\042\270\005\100\143\020\042\363\063\035\164 \162\212\054\365\071\051\240\323\347\033\200\204\055\305\075\343 \115\261\375\032\157\272\145\007\073\130\354\102\105\046\373\330 \332\045\162\304\366\000\261\042\171\275\343\174\131\142\112\234 \005\157\075\316\346\326\107\143\231\306\044\157\162\022\310\254 \177\220\264\013\221\160\350\267\346\026\020\161\027\316\336\006 \117\110\101\175\065\112\243\211\362\311\113\173\101\021\155\147 \267\010\230\114\345\021\031\256\102\200\334\373\220\005\324\370 \120\312\276\344\255\307\302\224\327\026\235\346\027\217\257\066 \373\002\003\001\000\001\243\102\060\100\060\017\006\003\125\035 $\label{eq:condition} $$ \023\001\001\377\004\005\060\003\001\001\377\060\035\006\003\125$$ $\label{eq:condition} $$ \035\016\004\026\004\024\231\340\031\147\015\142\333\166\263\332 $$$

\075\270\133\350\375\102\322\061\016\207\060\016\006\003\125\035 \017\001\001\377\004\004\003\002\001\006\060\015\006\011\052\206 \110\206\367\015\001\001\013\005\000\003\202\002\001\000\230\163 $\label{eq:condition} $$ 160\342\260\323\355\071\354\114\140\331\251\022\206\027\036\226$ \320\350\124\050\073\144\055\041\246\370\235\126\023\152\110\075 \034\334\350\070\145\206\305\165\247\132\333\065\005\275\167\336 $\label{eq:condition} $$ \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 $\verb| 230| 046| 342| 166| 365| 047| 157| 372| 000| 073| 112| 141| 331| 015| 313| 121|$ \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 $\label{eq:condition} $$ \061\240\246\377\070\335\317\040\117\351\130\126\072\147\303\321 $$$ \366\231\231\235\272\066\266\200\057\210\107\117\206\277\104\072 $\label{eq:condition} $$ \200\344\067\034\246\272\352\227\230\021\320\204\142\107\144\036$$ \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 $\label{eq:condition} $$ 364\120\017\117\111\175\314\105\343\275\172\100\305\101\334\141 $$$ \126\047\006\151\345\162\101\201\323\266\001\211\240\057\072\162 \171\376\072\060\277\101\354\307\142\076\221\113\307\331\061\166 \102\371\367\074\143\354\046\214\163\014\175\032\035\352\250\174 \207\250\302\047\174\341\063\101\017\317\317\374\000\240\042\200 \236\112\247\157\000\260\101\105\267\042\312\150\110\305\102\242 \256\335\035\362\340\156\116\005\130\261\300\220\026\052\244\075 \020\100\276\217\142\143\203\251\234\202\175\055\002\351\203\060 \174\313\047\311\375\036\146\000\260\056\323\041\057\216\063\026 \154\230\355\020\250\007\326\314\223\317\333\321\151\034\344\312 \311\340\266\234\351\316\161\161\336\154\077\026\244\171

END

CKA_NSS_MOZILLA_CA_POLICY

CK BBOOL CK TRUE

CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for

"Trustwave Global Certification Authority"

 ${\tt\#\,Issuer:\,CN=Trustwave\,\,Global\,\,Certification\,\,Authority,O="Trustwave\,\,Holdings,}$

Inc.", L=Chicago, ST=Illinois, C=US

Serial Number:05:f7:0e:86:da:49:f3:46:35:2e:ba:b2

 ${\tt\#\,Subject:\,CN=Trustwave\,\,Global\,\,Certification\,\,Authority,O="Trustwave\,\,Holdings,}$

Inc.",L=Chicago,ST=Illinois,C=US

```
# Not Valid Before: Wed Aug 23 19:34:12 2017
# Not Valid After: Sat Aug 23 19:34:12 2042
# Fingerprint (SHA-256):
97:55:20:15:F5:DD:FC:3C:87:88:C0:06:94:45:55:40:88:94:45:00:84:F1:00:86:70:86:BC:1A:2B:B5:8D:C8
# Fingerprint (SHA1): 2F:8F:36:4F:E1:58:97:44:21:59:87:A5:2A:9A:D0:69:95:26:7F:B5
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA TOKEN CK BBOOL CK TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA LABEL UTF8 "Trustwave Global Certification Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\label{eq:condition} $$ \057\217\066\117\341\130\227\104\041\131\207\245\052\232\320\151 $$
\225\046\177\265
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\370\034\030\055\057\272\137\155\241\154\274\307\253\221\307\016
END
CKA ISSUER
MULTILINE OCTAL
\label{eq:condition} $$ \060\201\210\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\021\060\017\006\003\125\004\010\014\010\111\154\154\151\156
\157\151\163\061\020\060\016\006\003\125\004\007\014\007\103\150
\label{eq:condition} $$ \frac{151}143\frac{141}147\frac{57}{061}\frac{041}{060}\frac{037}{006}\frac{003}{125}\frac{004}{012}\frac{014}{030} $$
\124\162\165\163\164\167\141\166\145\040\110\157\154\144\151\156
\147\163\054\040\111\156\143\056\061\061\060\057\006\003\125\004
\003\014\050\124\162\165\163\164\167\141\166\145\040\107\154\157
\142\141\154\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171
END
CKA SERIAL NUMBER MULTILINE OCTAL
\002\014\005\367\016\206\332\111\363\106\065\056\272\262
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA TRUST EMAIL PROTECTION CK TRUST CKT NSS TRUSTED DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
# Certificate "Trustwave Global ECC P256 Certification Authority"
#
Issuer: CN=Trustwave Global ECC P256 Certification Authority,O="Trustwave Holdings,
Inc.",L=Chicago,ST=Illinois,C=US
# Serial Number:0d:6a:5f:08:3f:28:5c:3e:51:95:df:5d
# Subject: CN=Trustwave Global ECC P256 Certification Authority,O="Trustwave Holdings,
Inc.",L=Chicago,ST=Illinois,C=US
# Not Valid Before: Wed Aug 23 19:35:10 2017
# Not Valid After: Sat Aug 23 19:35:10 2042
```

Fingerprint (SHA-256):

94:5B:BC:82:5E:A5:54:F4:89:D1:FD:51:A7:3D:DF:2E:A6:24:AC:70:19:A0:52:05:22:5C:22:A7:8C:CF:A8:B4

Fingerprint (SHA1): B4:90:82:DD:45:0C:BE:8B:5B:B1:66:D3:E2:A4:08:26:CD:ED:42:CF

CKA CLASS CK OBJECT CLASS CKO CERTIFICATE

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA MODIFIABLE CK BBOOL CK FALSE

CKA_LABEL UTF8 "Trustwave Global ECC P256 Certification Authority"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA SUBJECT MULTILINE OCTAL

 $\label{eq:condition} $$ \060\201\221\061\013\060\011\006\003\125\004\006\023\002\125\123 $$$

 $\label{eq:condition} $$ \frac{157}{151}\frac{000}{000}\frac{000}{000}\frac{125}{004}\frac{007}{023}\frac{103}{150} $$$

\124\162\165\163\164\167\141\166\145\040\110\157\154\144\151\156

 $\\ 147\\ 163\\ 054\\ 040\\ 111\\ 1156\\ 143\\ 056\\ 061\\ 072\\ 060\\ 070\\ 006\\ 003\\ 125\\ 004$

 $\\ \\003\\ \\023\\ \\061\\ \\124\\ \\162\\ \\165\\ \\165\\ \\163\\ \\164\\ \\167\\ \\141\\ \\166\\ \\145\\ \\040\\ \\107\\ \\154\\ \\157$

 $\ \ \, \backslash 162 \backslash 151 \backslash 164 \backslash 171$

END

CKA ID

UTF8 "0"

CKA ISSUER MULTILINE OCTAL

 $\label{eq:control} $$ \000\201\221\061\013\060\011\006\003\125\004\010\23\010\111\154\154\151\156\157\151\163\061\020\060\016\006\003\125\004\007\023\007\103\150\151\143\141\147\157\061\041\060\037\006\003\125\004\012\023\030\124\162\165\163\164\167\141\166\145\040\110\157\154\144\151\156\147\163\054\040\111\156\143\056\061\072\060\070\006\003\125\004\003\023\061\124\162\165\163\164\167\141\166\145\040\107\154\157\142\141\154\040\105\103\103\040\120\062\065\066\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171$

END

CKA SERIAL NUMBER

MULTILINE OCTAL

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

END

CKA_VALUE MULTILINE_OCTAL

 $\label{eq:condition} $$ \000\202\002\140\060\202\002\007\240\003\002\001\002\002\014\015 $$ \152\137\010\077\050\134\076\121\225\337\135\060\012\006\010\052 $$ \206\110\316\075\004\003\002\060\201\221\061\013\060\011\006\003 $$ \125\004\006\023\002\125\123\061\021\060\017\006\003\125\004\010 $$ \125\004\007\023\007\103\150\151\143\141\147\157\061\041\060\037 $$ \006\003\125\004\012\023\030\124\162\165\163\164\167\141\166\145\040\110\157\154\144\151\156\147\163\054\040\111\156\143\056\061 $$$

\072\060\070\006\003\125\004\003\023\061\124\162\165\163\164\167 \141\166\145\040\107\154\157\142\141\154\040\105\103\103\040\120 \062\065\066\040\103\145\162\164\151\146\151\143\141\164\151\157 $\label{eq:condition} $$ \frac{156}040\\101\\165\\164\\150\\157\\162\\151\\164\\171\\060\\036\\027\\015\\061$ $\label{eq:condition} $$ \067\060\070\062\063\061\071\063\065\061\060\132\027\015\064\062$ $\label{eq:condition} $$ \060\070\062\063\061\071\063\065\061\060\132\060\201\221\061\013 $$$ \060\011\006\003\125\004\006\023\002\125\123\061\021\060\017\006 $\label{eq:condition} $$ \003\125\004\010\023\010\111\154\154\151\156\157\151\163\061\020 $$$ $\label{eq:condition} $$ \000\016\000\03\125\004\007\023\007\103\150\151\143\141\147\157 $$$ \061\041\060\037\006\003\125\004\012\023\030\124\162\165\163\164 $\label{eq:condition} $$ \frac{156}{143}056\\061\\072\\060\\070\\006\\003\\125\\004\\003\\023\\061\\124\\162$ \165\163\164\167\141\166\145\040\107\154\157\142\141\154\040\105 $\label{eq:condition} $$ 103\103\040\120\062\065\066\040\103\145\162\164\151\146\151\143$ $\\ 141\\164\\151\\157\\156\\040\\101\\165\\164\\150\\157\\162\\151\\164\\171\\060$ \131\060\023\006\007\052\206\110\316\075\002\001\006\010\052\206 \110\316\075\003\001\007\003\102\000\004\176\373\154\346\043\343 \163\062\010\312\140\346\123\234\272\164\215\030\260\170\220\122 \200\335\070\300\112\035\321\250\314\223\244\227\006\070\312\015 $\label{eq:condition} $$ \025\142\306\216\001\052\145\235\252\337\064\221\056\201\301\344 $$$ \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 $\\ \langle 017 \rangle 006 \rangle 003 \rangle 125 \rangle 035 \rangle 017 \rangle 001 \rangle 001 \rangle 377 \rangle 004 \rangle 005 \rangle 003 \rangle 007 \rangle 006 \rangle 0000 \rangle 000$ \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:condition} $$ \sqrt{377} 151 \times 336 \times 276 \times 370 \times 240 \times 267 \times 104 \times 316 \times 316 \times 2337 \times 104 \times 10$ \014\067\002\040\055\046\003\240\005\275\153\321\366\134\370\145 \234\341\164\173

END

CKA NSS MOZILLA CA POLICY

CK_BBOOL CK_TRUE

CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

```
# Trust for "Trustwave Global ECC P256 Certification Authority"
```

Issuer: CN=Trustwave Global ECC P256 Certification Authority,O="Trustwave

Holdings, Inc.", L=Chicago, ST=Illinois, C=US

Serial Number:0d:6a:5f:08:3f:28:5c:3e:51:95:df:5d

Subject: CN=Trustwave Global ECC P256 Certification Authority,O="Trustwave Holdings,

Inc.", L=Chicago, ST=Illinois, C=US

Not Valid Before: Wed Aug 23 19:35:10 2017

Not Valid After: Sat Aug 23 19:35:10 2042

Fingerprint (SHA-256):

94:5B:BC:82:5E:A5:54:F4:89:D1:FD:51:A7:3D:DF:2E:A6:24:AC:70:19:A0:52:05:22:5C:22:A7:8C:CF:A8:B4

Fingerprint (SHA1): B4:90:82:DD:45:0C:BE:8B:5B:B1:66:D3:E2:A4:08:26:CD:ED:42:CF

```
CKA CLASS CK OBJECT CLASS CKO NSS TRUST
CKA TOKEN CK BBOOL CK TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Trustwave Global ECC P256 Certification Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\264\220\202\335\105\014\276\213\133\261\146\323\342\244\010\046
\315\355\102\317
END
CKA CERT MD5 HASH MULTILINE OCTAL
\133\104\343\215\135\066\206\046\350\015\005\322\131\247\203\124
END
CKA ISSUER MULTILINE OCTAL
\060\201\221\061\013\060\011\006\003\125\004\006\023\002\125\123
\label{eq:condition} $$ \001\001\000\003\125\004\010\023\010\111\154\154\151\156 
\157\151\163\061\020\060\016\006\003\125\004\007\023\007\103\150
\label{eq:condition} $$ \frac{151}143\frac{141}147\frac{57}{061}\frac{041}{060}\frac{037}{006}\frac{003}{125}\frac{004}{012}\frac{023}{030} $$
\124\162\165\163\164\167\141\166\145\040\110\157\154\144\151\156
\147\163\054\040\111\156\143\056\061\072\060\070\006\003\125\004
\label{eq:condition} $$ \003\023\061\124\162\165\163\164\167\141\166\145\040\107\154\157 $$
\142\141\154\040\105\103\103\040\120\062\065\066\040\103\145\162
\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157
\162\151\164\171
END
CKA_SERIAL_NUMBER
MULTILINE OCTAL
\002\014\015\152\137\010\077\050\134\076\121\225\337\135
END
CKA TRUST SERVER AUTH CK TRUST CKT NSS TRUSTED DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
#
# Certificate "Trustwave Global ECC P384 Certification Authority"
# Issuer: CN=Trustwave Global ECC
P384 Certification Authority,O="Trustwave Holdings, Inc.",L=Chicago,ST=Illinois,C=US
# Serial Number:08:bd:85:97:6c:99:27:a4:80:68:47:3b
# Subject: CN=Trustwave Global ECC P384 Certification Authority,O="Trustwave Holdings,
Inc.",L=Chicago,ST=Illinois,C=US
# Not Valid Before: Wed Aug 23 19:36:43 2017
# Not Valid After: Sat Aug 23 19:36:43 2042
# Fingerprint (SHA-256):
55:90:38:59:C8:C0:C3:EB:B8:75:9E:CE:4E:25:57:22:5F:F5:75:8B:BD:38:EB:D4:82:76:60:1E:1B:D5:80:97
# Fingerprint (SHA1): E7:F3:A3:C8:CF:6F:C3:04:2E:6D:0E:67:32:C5:9E:68:95:0D:5E:D2
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
```

CKA PRIVATE CK BBOOL CK FALSE

CKA MODIFIABLE CK BBOOL CK FALSE

CKA_LABEL UTF8 "Trustwave Global ECC P384 Certification Authority"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL

 $\label{eq:condition} $$ \000\201\221\060\013\060\011\006\003\125\004\010\023\010\111\154\151\156\157\151\163\061\020\060\016\006\003\125\004\007\023\007\103\150\151\143\141\147\157\061\041\060\037\006\003\125\004\012\023\030\124\162\165\163\164\167\141\166\145\040\110\157\154\144\151\156\147\163\054\040\111\156\143\056\061\072\060\070\006\003\125\004\003\023\061\124\162\165\163\164\167\141\166\145\040\107\154\157\142\141\154\040\105\103\103\040\120\063\070\064\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171$

END

CKA ID

UTF8 "0"

CKA ISSUER MULTILINE OCTAL

 $\label{eq:control} $$ \000\201\221\061\013\060\011\006\003\125\004\000\0023\010\111\154\151\156\157\151\163\061\020\060\016\006\003\125\004\007\023\007\103\150\151\143\141\147\157\061\041\060\037\006\003\125\004\012\023\030\124\162\165\163\164\167\141\166\145\040\110\157\154\144\151\156\143\056\061\072\060\070\006\003\125\004\003\023\061\124\162\165\163\164\167\141\166\145\040\107\154\157\142\141\154\040\105\103\103\040\120\063\070\064\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171$

END

CKA_SERIAL_NUMBER

MULTILINE_OCTAL

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

END

CKA_VALUE MULTILINE_OCTAL

\060\070\062\063\061\071\063\066\064\063\132\060\201\221\061\013 \060\011\006\003\125\004\006\023\002\125\123\061\021\060\017\006 \003\125\004\010\023\010\111\154\154\151\156\157\151\163\061\020 $\label{eq:condition} $$ \000\003\125\004\007\023\007\103\150\151\143\141\147\157 $$$ \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:condition} $$ 103\103\040\120\063\070\064\040\103\145\162\164\151\146\151\143$ \141\164\151\157\156\040\101\165\164\150\157\162\151\164\171\060 $\\ \\004\\ \\000\\ \\042\\ \\003\\ \\142\\ \\000\\ \\004\\ \\153\\ \\332\\ \\015\\ \\165\\ \\065\\ \\010\\ \\061\\ \\107\\ \\005$ \256\105\231\125\361\021\023\056\112\370\020\061\043\243\176\203 \323\177\050\010\072\046\032\072\317\227\202\037\200\267\047\011 \217\321\216\060\304\012\233\016\254\130\004\253\367\066\175\224 \043\244\233\012\212\213\253\353\375\071\045\146\361\136\376\214 \256\215\101\171\235\011\140\316\050\251\323\212\155\363\326\105 \324\362\230\204\070\145\240\243\103\060\101\060\017\006\003\125 \035\023\001\001\377\004\005\060\003\001\001\377\060\017\006\003 \125\035\017\001\001\377\004\005\003\003\007\006\000\060\035\006 \003\125\035\016\004\026\004\024\125\251\204\211\322\301\062\275 $\label{eq:condition} $$ \030\313\154\246\007\116\310\347\235\276\202\220\060\012\006\010 $$$ $\label{eq:condition} $$ \052\206\110\316\075\004\003\003\003\147\000\060\144\002\060\067 $$$ \001\222\227\105\022\176\240\363\076\255\031\072\162\335\364\120 \223\003\022\276\104\322\117\101\244\214\234\235\037\243\366\302 \222\347\110\024\376\116\233\245\221\127\256\306\067\162\273\002 \060\147\045\012\261\014\136\356\251\143\222\157\345\220\013\376 $\label{eq:condition} $$ 146\042\312\107\375\212\061\367\203\376\172\277\020\276\030\053$ $\label{eq:condition} $$ \036\217\366\051\036\224\131\357\216\041\067\313\121\230\245\156$$ \113

END

CKA_NSS_MOZILLA_CA_POLICY

CK_BBOOL CK_TRUE

CKA_NSS_SERVER_DISTRUST_AFTER

CK BBOOL CK FALSE

CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

```
# Trust for "Trustwave Global ECC P384 Certification Authority"
```

Issuer: CN=Trustwave Global ECC P384 Certification Authority,O="Trustwave Holdings,

Inc.",L=Chicago,ST=Illinois,C=US

Serial Number:08:bd:85:97:6c:99:27:a4:80:68:47:3b

Subject: CN=Trustwave Global ECC P384 Certification Authority,O="Trustwave Holdings,

Inc.", L=Chicago, ST=Illinois, C=US

Not Valid Before: Wed Aug 23 19:36:43 2017

Not Valid After : Sat Aug 23 19:36:43 2042

Fingerprint (SHA-256):

55:90:38:59:C8:C0:C3:EB:B8:75:9E:CE:4E:25:57:22:5F:F5:75:8B:BD:38:EB:D4:82:76:60:1E:1B:D5:80:97

Fingerprint (SHA1): E7:F3:A3:C8:CF:6F:C3:04:2E:6D:0E:67:32:C5:9E:68:95:0D:5E:D2

```
CKA CLASS CK OBJECT CLASS CKO NSS TRUST
CKA TOKEN CK BBOOL CK TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Trustwave Global ECC P384 Certification Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\347\363\243\310\317\157\303\004\056\155\016\147\062\305\236\150
\225\015\136\322
END
CKA CERT MD5 HASH
MULTILINE_OCTAL
\352\317\140\304\073\271\025\051\100\241\227\355\170\047\223\326
END
CKA_ISSUER MULTILINE_OCTAL
\label{eq:condition} $$ \060\201\221\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\021\060\017\006\003\125\004\010\023\010\111\154\154\151\156
\label{eq:condition} $$ \frac{157}{151}\frac{000}{000}\frac{000}{016}\frac{000}{003}\frac{125}{004}\frac{007}{023}\frac{103}{150} $$
\151\143\141\147\157\061\041\060\037\006\003\125\004\012\023\030
\147\163\054\040\111\156\143\056\061\072\060\070\006\003\125\004
\003\023\061\124\162\165\163\164\167\141\166\145\040\107\154\157
\label{eq:condition} $$ \frac{142}141\frac{54}040\frac{105}103\frac{103}040\frac{120}063\frac{070}064\frac{040}{103}\frac{145}162 $
\162\151\164\171
END
CKA SERIAL NUMBER MULTILINE OCTAL
\002\014\010\275\205\227\154\231\047\244\200\150\107\073
END
CKA TRUST SERVER AUTH CK TRUST CKT NSS TRUSTED DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING
CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
# Certificate "NAVER Global Root Certification Authority"
# Issuer: CN=NAVER Global Root Certification Authority,O=NAVER BUSINESS PLATFORM Corp.,C=KR
# Serial Number:01:94:30:1e:a2:0b:dd:f5:c5:33:2a:b1:43:44:71:f8:d6:50:4d:0d
# Subject: CN=NAVER Global Root Certification Authority,O=NAVER BUSINESS PLATFORM Corp.,C=KR
# Not Valid Before: Fri Aug 18 08:58:42 2017
# Not Valid After: Tue Aug 18 23:59:59 2037
# Fingerprint (SHA-256):
88:F4:38:DC:F8:FF:D1:FA:8F:42:91:15:FF:E5:F8:2A:E1:E0:6E:0C:70:C3:75:FA:AD:71:7B:34:A4:9E:72:65
# Fingerprint (SHA1): 8F:6B:F2:A9:27:4A:DA:14:A0:C4:F4:8E:61:27:F9:C0:1E:78:5D:D1
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
```

CKA MODIFIABLE CK BBOOL CK FALSE

CKA_LABEL UTF8 "NAVER Global Root Certification Authority"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL

 $\label{eq:condition} $$ \000151\061\013\060\011\006\003\125\004\006\023\002\113\122\061 $$ \046\060\044\006\003\125\004\012\014\035\116\101\126\105\122\040 $$ \102\125\123\111\116\105\123\123\040\120\114\101\124\106\117\122 $$ \115\040\103\157\162\160\056\061\062\060\060\006\003\125\004\003 $$ \014\051\116\101\126\105\122\040\107\154\157\142\141\154\040\122 $$ \157\157\164\040\103\145\162\164\151\146\151\143\141\164\151\157 $$ \156\040\101\165\164\150\157\162\151\164\171 $$$

END

CKA ID

UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

 $\label{eq:condition} $$ \000151\001\006\003\125\004\006\023\002\113\122\061\046\060\044\006\003\125\004\012\014\035\116\101\126\105\122\040\102\125\123\111\116\105\123\123\040\120\114\101\124\106\117\122\115\040\103\157\162\160\056\061\062\060\060\006\003\125\004\003\125\004\003\125\116\116\1126\105\122\040\107\154\157\142\141\154\040\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171$$

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

\002\024\001\224\060\036\242\013\335\365\305\063\052\261\103\104 \161\370\326\120\115\015

END

CKA_VALUE

MULTILINE OCTAL

\060\202\005\242\060\202\003\212\240\003\002\001\002\002\002\001 \120\115\015\060\015\006\011\052\206\110\206\367\015\001\001\014 \005\000\060\151\061\013\060\011\006\003\125\004\006\023\002\113 \122\061\046\060\044\006\003\125\004\012\014\035\116\101\126\105 \122\040\102\125\123\111\116\105\123\123\040\120\114\101\124\106 \117\122\115\040\103\157\162\160\056\061\062\060\060\006\003\125 \004\003\014\051\116\101\126\105\122\040\107\154\157\142\141\154 $\\ \\ 040\\ \\ 122\\ \\ 157\\ \\ 157\\ \\ 164\\ \\ 040\\ \\ 103\\ \\ 145\\ \\ 162\\ \\ 164\\ \\ 151\\ \\ 146\\ \\ 151\\ \\ 143\\ \\ 141\\ \\ 164$ \151\157\156\040\101\165\164\150\157\162\151\164\171\060\036\027 $\label{eq:condition} $$ \0.015\0.061\0.060\0.070\0.065\0.070\0.064\0.062\1.32\0.027\0.015 $$$ \063\067\060\070\061\070\062\063\065\071\065\071\132\060\151\061 \013\060\011\006\003\125\004\006\023\002\113\122\061\046\060\044 \006\003\125\004\012\014\035\116\101\126\105\122\040\102\125\123 \111\116\105\123\123\040\120\114\101\124\106\117\122\115\040\103 \157\162\160\056\061\062\060\060\006\003\125\004\003\014\051\116 \101\126\105\122\040\107\154\157\142\141\154\040\122\157\157\164 \040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101 \165\164\150\157\162\151\164\171\060\202\002\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 $\label{eq:condition} $$ \frac{173}145\frac{32}{051}\frac{247}{126}\frac{240}{113}\frac{270}{057}\frac{102}{165}\frac{351}{331}\frac{173}{173} $$$ \044\132\061\145\253\027\027\321\063\072\331\021\334\100\066\207 $\label{eq:condition} $$ 37\307\152\351\046\136\131\212\167\343\350\110\234\061\026\372$ \076\221\261\312\311\243\342\237\316\041\123\243\002\066\060\313 \122\002\345\332\062\135\303\305\346\371\356\021\307\213\311\104 $\label{eq:condition} $$ \036\204\223\030\112\264\237\345\022\144\151\320\046\205\142\001 $$$ \266\311\002\035\276\203\121\273\134\332\370\255\025\152\231\367 \222\124\367\064\133\351\277\352\051\201\022\324\123\221\226\263 \221\132\335\376\220\163\050\373\060\106\265\312\010\007\307\161 \162\311\146\323\064\227\366\214\364\030\112\341\320\075\132\105 \266\151\247\051\373\043\316\210\330\022\234\000\110\250\246\017 \263\073\222\215\161\016\164\305\213\310\114\371\364\233\216\270 \074\151\355\157\073\120\057\130\355\304\260\320\034\033\152\014 \342\274\104\252\330\315\024\135\224\170\141\277\016\156\332\052 \274\057\014\013\161\246\263\026\077\234\346\371\314\237\123\065 \342\003\240\240\030\277\273\361\276\364\326\214\207\015\102\367 $\label{eq:condition} $$ \006\271\361\155\355\004\224\250\376\266\323\006\306\100\141\337 $$$ \235\235\363\124\166\316\123\072\001\246\222\101\354\004\243\217 \015\242\325\011\312\326\313\232\361\357\103\135\300\253\245\101 $\label{eq:condition} $$ \frac{317}134\frac{123}160\frac{311}210\frac{246}055\frac{324}{153}\frac{141}{163}\frac{120}046\frac{206}{120} $$$ \141\016\137\033\302\053\342\214\325\273\235\301\003\102\272\224 \332\137\251\260\312\314\115\012\357\107\151\003\057\042\373\361 \050\316\277\135\120\145\250\220\155\263\164\260\010\307\254\250 \321\353\076\234\374\135\032\203\056\053\313\265\363\104\235\072 \247\027\141\226\242\161\323\160\226\025\115\267\114\163\356\031 \134\305\133\076\101\376\254\165\140\073\033\143\316\000\335\332 \010\220\142\264\345\055\356\110\247\153\027\231\124\276\207\112 $\label{eq:condition} $\343\251\136\004\114\353\020\155\124\326\357\361\350\362\142\026$ \313\200\153\355\075\355\365\037\060\245\256\113\311\023\355\212 \001\001\311\270\121\130\300\146\072\261\146\113\304\325\061\002 \142\351\164\204\014\333\115\106\055\002\003\001\000\001\243\102 \060\100\060\035\006\003\125\035\016\004\026\004\024\322\237\210 \337\241\315\054\275\354\365\073\001\001\223\063\047\262\353\140 \113\060\016\006\003\125\035\017\001\001\377\004\004\003\002\001 $\label{eq:condition} $$ \006\000\17\006\003\125\035\023\001\001\377\004\005\060\003\001 $$$ $\label{eq:condition} $$ \001\377\060\015\006\011\052\206\110\206\367\015\001\001\014\005$ $\label{eq:condition} $$ \000\003\202\002\001\000\062\312\200\263\235\075\124\006\335\322$ \322\056\360\244\001\041\013\147\110\312\155\216\340\310\252\015 \252\215\041\127\217\306\076\172\312\333\121\324\122\263\324\226 \204\245\130\140\177\345\013\216\037\365\334\012\025\201\345\073 \266\267\042\057\011\234\023\026\261\154\014\065\010\155\253\143 $\label{eq:condition} $$ 162\355\334\276\354\307\127\346\060\040\161\326\327\020\301\023$ \125\001\214\052\103\344\101\361\317\072\172\123\222\316\242\003 $\label{eq:condition} $$ \005\015\070\337\002\273\020\056\331\073\322\233\172\300\241\246 $$$ \370\265\061\346\364\165\311\271\123\231\165\107\042\132\024\025

\307\170\033\266\235\351\014\370\033\166\361\205\204\336\241\332 $\label{eq:condition} $$ \022\357\244\342\020\227\172\170\336\014\121\227\250\041\100\213$ \206\275\015\360\136\116\113\066\273\073\040\037\212\102\126\341 $\label{eq:condition} $$ \032\277\173\320\042\103\054\104\214\373\345\052\264\154\034 $$$ $\label{eq:condition} $$ \034\272\224\340\023\176\041\346\232\302\313\305\102\144\264\036$ $\label{eq:condition} $$ \224\173\010\045\310\161\314\207\105\127\205\323\237\051\142\042 $$$ \203\121\227\000\030\227\167\152\230\222\311\174\140\154\337\154 \175\112\344\160\114\302\236\270\035\367\320\064\307\017\314\373 \247\377\003\276\255\160\220\332\013\335\310\155\227\137\232\177 \011\062\101\375\315\242\314\132\155\114\362\252\111\376\146\370 \351\330\065\353\016\050\036\356\110\057\072\320\171\011\070\174 \246\042\202\223\225\320\003\276\276\002\240\005\335\040\042\343 \157\035\210\064\140\306\346\012\271\011\165\013\360\007\350\151 $\label{eq:condition} $$ \226\065\307\373\043\201\216\070\071\270\105\053\103\170\242\321 $$$ $\label{eq:condition} $$ \054\024\377\015\050\162\162\225\233\136\011\333\211\104\230\252$ \241\111\273\161\122\362\277\366\377\047\241\066\257\270\266\167 \210\335\072\244\155\233\064\220\334\024\135\060\277\267\353\027 \344\207\267\161\320\241\327\167\025\324\102\327\362\363\061\231 \135\233\335\026\155\077\352\006\043\370\106\242\042\355\223\366 \335\232\346\052\207\261\230\124\361\042\367\153\105\343\342\216 \166\035\232\215\304\006\215\066\267\024\363\235\124\151\267\216 $\label{eq:condition} $$ \074\325\244\155\223\201\267\255\366\275\144\173\302\311\150\071 $$$ \240\222\234\315\064\206\221\220\372\144\121\235\376\376\353\245 \365\165\336\211\367\162

END

CKA NSS MOZILLA CA POLICY

CK BBOOL CK TRUE

 $CKA_NSS_SERVER_DISTRUST_AFTER$

CK BBOOL CK FALSE

CKA NSS EMAIL DISTRUST AFTER CK BBOOL CK FALSE

- # Trust for "NAVER Global Root Certification Authority"
- # Issuer: CN=NAVER Global Root Certification Authority,O=NAVER BUSINESS PLATFORM Corp.,C=KR
- # Serial Number:01:94:30:1e:a2:0b:dd:f5:c5:33:2a:b1:43:44:71:f8:d6:50:4d:0d
- # Subject: CN=NAVER Global Root Certification Authority,O=NAVER BUSINESS PLATFORM Corp.,C=KR
- # Not Valid Before: Fri Aug 18 08:58:42 2017
- # Not Valid After: Tue Aug 18 23:59:59 2037
- # Fingerprint (SHA-256):
- 88:F4:38:DC:F8:FF:D1:FA:8F:42:91:15:FF:E5:F8:2A:E1:E0:6E:0C:70:C3:75:FA:AD:71:7B:34:A4:9E:72:65
- # Fingerprint (SHA1): 8F:6B:F2:A9:27:4A:DA:14:A0:C4:F4:8E:61:27:F9:C0:1E:78:5D:D1

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "NAVER Global Root Certification Authority"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL

 $\label{eq:condition} $$ \frac{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:condition} $$ \014\051\116\101\126\105\122\040\107\154\157\142\141\154\040\122 $$
\157\157\164\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\001\224\060\036\242\013\335\365\305\063\052\261\103\104
\161\370\326\120\115\015
END
CKA TRUST SERVER AUTH CK TRUST CKT NSS TRUSTED DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA TRUST CODE SIGNING CK TRUST CKT NSS MUST VERIFY TRUST
{\tt CKA\_TRUST\_STEP\_UP\_APPROVED\ CK\_BBOOL\ CK\_FALSE}
# Certificate "AC RAIZ FNMT-RCM SERVIDORES SEGUROS"
# Issuer: CN=AC RAIZ FNMT-RCM
SERVIDORES SEGUROS,OID.2.5.4.97=VATES-Q2826004J,OU=Ceres,O=FNMT-RCM,C=ES
# Serial Number:62:f6:32:6c:e5:c4:e3:68:5c:1b:62:dd:9c:2e:9d:95
# Subject: CN=AC RAIZ FNMT-RCM SERVIDORES SEGUROS, OID. 2.5.4.97=VATES-
Q2826004J,OU=Ceres,O=FNMT-RCM,C=ES
# Not Valid Before: Thu Dec 20 09:37:33 2018
# Not Valid After: Sun Dec 20 09:37:33 2043
# Fingerprint (SHA-256):
55:41:53:B1:3D:2C:F9:DD:B7:53:BF:BE:1A:4E:0A:E0:8D:0A:A4:18:70:58:FE:60:A2:B8:62:B2:E4:B8:7B:CB
# Fingerprint (SHA1): 62:FF:D9:9E:C0:65:0D:03:CE:75:93:D2:ED:3F:2D:32:C9:E3:E5:4A
CKA CLASS CK OBJECT CLASS CKO CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AC RAIZ FNMT-RCM SERVIDORES SEGUROS"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC X 509
CKA_SUBJECT MULTILINE_OCTAL
\060\170\061\013\060\011\006\003\125\004\006\023\002\105\123\061
```

\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\060\064\112\061\054\060\052 \006\003\125\004\003\014\043\101\103\040\122\101\111\132\040\106 \116\115\124\055\122\103\115\040\123\105\122\126\111\104\117\122 \105\123\040\123\105\107\125\122\117\123

END

CKA ID

UTF8 "0"

CKA ISSUER MULTILINE OCTAL

 $\label{eq:condition} $$ \000\17\006\003\125\004\0003\125\004\0023\002\105\123\061\021\060\0017\006\003\125\004\012\014\010\106\116\115\124\055\122\103\115\061\003\060\0026\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\125\004\013\115\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\122\117\123$

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

\002\020\142\366\062\154\345\304\343\150\134\033\142\335\234\056 \235\225

END

CKA VALUE MULTILINE OCTAL

\060\202\002\156\060\202\001\363\240\003\002\001\002\002\020\142 \366\062\154\345\304\343\150\134\033\142\335\234\056\235\225\060 \012\006\010\052\206\110\316\075\004\003\003\060\170\061\013\060 \011\006\003\125\004\006\023\002\105\123\061\021\060\017\006\003 \125\004\012\014\010\106\116\115\124\055\122\103\115\061\016\060 \014\006\003\125\004\013\014\005\103\145\162\145\163\061\030\060 $\label{eq:condition} $$ \006\003\125\004\141\014\017\126\101\124\105\123\055\121\062$$ \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 \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 $\\ \langle 014 \rangle 017 \rangle 126 \rangle 101 \rangle 124 \rangle 105 \rangle 123 \rangle 055 \rangle 121 \rangle 062 \rangle 070 \rangle 062 \rangle 066 \rangle 060 \rangle 064 \rangle 066 \rangle$ \126\111\104\117\122\105\123\040\123\105\107\125\122\117\123\060 $\label{eq:condition} $$ 166\060\020\006\007\052\206\110\316\075\002\001\006\005\053\201 $$$ \004\000\042\003\142\000\004\366\272\127\123\310\312\253\337\066 \112\122\041\344\227\322\203\147\236\360\145\121\320\136\207\307 \107\261\131\362\127\107\233\000\002\223\104\027\151\333\102\307 \261\262\072\030\016\264\135\214\263\146\135\241\064\371\066\054 \111\333\363\106\374\263\104\151\104\023\146\375\327\305\375\257 \066\115\316\003\115\007\161\317\257\152\005\322\242\103\132\012 $\label{eq:control} $$ 122\157\001\003\116\216\213\243\102\000\100\000\0017\000\0003\125\035\001\0001\377\0004\005\0000\30001\0001\377\0000\0003\0002\0001\0006\000035\0006\0003\125\0035\0016\0004\0024\0001\271\0057\357\277\0021\2006\140\362\117\320\101\156\253\163\0037\347\322\156\111\000\000\12\0006\010\0052\2006\110\316\075\0004\0003\0003\151\0000\000146\0002\0061\0000\256\112\343\053\100\303\164\0021\362\225\255\026\0043\336\116\0014\002\25\1316\002\225\125\0026\117\313\234\105\027\021\114\0024\047\0046\125\071\165\112\0003\314\023\220\237\222\002\0061\000\372\112\154\140\210\163\363\356\270\230\142\251\316\053\302\331\212\246\160\0061\0035\257\260\224\114\353\117\306\343\321\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

 $\label{eq:condition} $$ \031\066\234\122\003\057\322\321\273\043\314\335\036\022\125\273$

END

CKA_ISSUER MULTILINE_OCTAL

 $\label{eq:condition} $$ \060\170\061\013\060\011\006\003\125\004\006\023\002\105\123\061$$$

 $\label{eq:condition} $$ \021\060\017\006\003\125\004\012\014\010\106\116\115\124\055\122 $$$

```
\105\123\055\121\062\070\062\066\060\060\064\112\061\054\060\052
\006\003\125\004\003\014\043\101\103\040\122\101\111\132\040\106
\116\115\124\055\122\103\115\040\123\105\122\126\111\104\117\122
105\123\040\123\105\107\125\122\117\123
END
CKA_SERIAL_NUMBER
MULTILINE OCTAL
\002\020\142\366\062\154\345\304\343\150\134\033\142\335\234\056
\235\225
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
# Certificate "GlobalSign Secure Mail Root R45"
# Issuer: CN=GlobalSign Secure Mail Root R45,O=GlobalSign nv-sa,C=BE
# Serial Number:76:53:fe:a8:4c:50:ab:9f:8d:32:b5:1d:03:8f:57:dc
# Subject: CN=GlobalSign Secure Mail Root R45,O=GlobalSign nv-sa,C=BE
# Not Valid Before: Wed Mar 18 00:00:00 2020
# Not Valid After: Sat Mar 18 00:00:00 2045
# Fingerprint (SHA-256):
31:9A:F0:A7:72:9E:6F:89:26:9C:13:1E:A6:A3:A1:6F:CD:86:38:9F:DC:AB:3C:47:A4:A6:75:C1:61:A3:F9:74
Fingerprint (SHA1): 76:18:D1:F3:80:24:3D:52:40:C6:11:6A:AD:57:77:09:7D:81:30:A0
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA TOKEN CK BBOOL CK TRUE
CKA PRIVATE CK BBOOL CK FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA LABEL UTF8 "GlobalSign Secure Mail Root R45"
CKA CERTIFICATE TYPE CK CERTIFICATE TYPE CKC X 509
CKA SUBJECT MULTILINE OCTAL
\060\122\061\013\060\011\006\003\125\004\006\023\002\102\105\061
\031\060\027\006\003\125\004\012\023\020\107\154\157\142\141\154
\123\151\147\156\040\156\166\055\163\141\061\050\060\046\006\003
\123\145\143\165\162\145\040\115\141\151\154\040\122\157\157\164
\040\122\064\065
END
CKA ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\122\061\013\060\011\006\003\125\004\006\023\002\102\105\061
\031\060\027\006\003\125\004\012\023\020\107\154\157\142\141\154
\123\151\147\156\040\156\166\055\163\141\061\050\060\046\006\003
\125\004\003\023\037\107\154\157\142\141\154\123\151\147\156\040
```

\123\145\143\165\162\145\040\115\141\151\154\040\122\157\157\164

\040\122\064\065

END

CKA SERIAL NUMBER

MULTILINE OCTAL

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

END

CKA VALUE MULTILINE OCTAL

 $\label{eq:condition} $$ \0.060\202\005\160\060\202\003\130\240\003\002\001\002\002\002\0166$$ \123\376\250\114\120\253\237\215\062\265\035\003\217\127\334\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 $\label{eq:condition} $$ \064\065\060\036\027\015\062\060\060\063\061\070\060\060\060\060$ \060\060\132\027\015\064\065\060\063\061\070\060\060\060\060\060 \060\132\060\122\061\013\060\011\006\003\125\004\006\023\002\102 $\label{eq:condition} $$ 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 $\label{eq:condition} $$ \frac{156}040\\123\\145\\143\\165\\162\\145\\040\\115\\141\\151\\154\\040\\122\\157$ \157\164\040\122\064\065\060\202\002\042\060\015\006\011\052\206 \110\206\367\015\001\001\001\005\000\003\202\002\017\000\060\202 \002\012\002\202\002\001\000\334\171\314\155\006\371\155\273\340 \126\004\154\177\340\165\314\055\005\111\350\113\334\124\354\133 $\label{eq:condition} $$ \frac{167}{225}\frac{257}{177}\frac{42}{235}\frac{205}{251}\frac{212}{044}\frac{120}{137}\frac{345}{333} $$$ \164\157\244\051\133\023\052\011\255\232\305\057\302\367\166\073 \241\105\106\252\103\346\044\376\053\260\157\062\160\031\106\132 $\label{eq:condition} $$ \frac{171}046\\057\\374\\075\\175\\137\\144\\313\\127\\314\\141\\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 $\label{eq:condition} $$ 241\246\045\265\101\135\337\076\140\330\321\366\237\245\362\270 $$$ \314\023\252\217\371\262\156\341\203\055\223\335\076\205\032\335 \350\261\134\046\001\313\111\205\374\374\322\324\177\205\142\206 \164\371\313\354\065\042\242\014\060\217\073\253\171\353\126\362 \372\102\363\355\371\037\105\211\100\051\255\352\222\164\352\122 \375\126\264\053\332\242\355\165\302\156\253\316\122\220\113\366 \336\360\111\217\232\110\324\210\031\155\105\346\314\214\271\335 \144\140\140\002\100\370\271\317\274\130\353\075\205\271\306\012 \323\234\007\146\217\307\030\071\043\106\341\074\036\243\057\120 \141\222\013\075\053\154\361\243\107\070\127\221\253\015\217\306 \235\115\004\322\046\122\134\345\245\375\052\055\026\052\001\151

\347\251\175\341\066\267\261\052\305\331\261\215\275\271\213\316 \314\213\241\076\013\110\315\120\225\064\304\330\010\131\330\153 \046\364\276\365\324\042\027\000\127\311\256\233\004\060\063\237 \013\373\337\126\242\311\156\124\166\332\261\227\142\047\131\017 \021\212\042\033\144\226\077\250\361\267\044\112\215\074\123\174 \155\203\166\075\262\046\110\163\365\104\026\001\055\011\052\216 \026\226\120\320\163\006\135\273\042\110\202\114\012\106\132\077 \200\377\134\362\362\232\254\054\010\340\326\352\360\022\070\201 \117\246\020\355\106\253\314\026\234\013\317\144\246\231\002\205 \104\147\106\255\375\115\347\002\003\001\000\001\243\102\060\100 \377\060\035\006\003\125\035\016\004\026\004\024\240\223\025\050 $\label{eq:condition} $$ \frac{356}{217}010\\262\\065\\306\\236\\142\\171\\164\\247\\261\\016\\053\\173$ $\label{eq:condition} $$ \060\015\006\011\052\206\110\206\367\015\001\001\001\014\005\000\003$$ \202\002\001\000\105\012\370\321\134\254\142\201\320\004\327\266 \377\127\121\211\013\014\313\336\044\145\067\373\253\236\355\146 \364\352\014\031\151\211\270\031\261\060\126\264\331\366\367\276 \306\256\227\313\105\366\021\214\072\060\144\114\301\237\131\300 $\label{eq:condition} $$ 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 $\label{eq:condition} $$ \frac{171\007\206\134\057\227\342\366\010\144\246\334\333\250\212\343}{250\212\343}$$ \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:condition} $$ 322\044\343\042\210\233\237\137\107\075\121\111\340\011\067\176$ \027\041\061\166\267\147\161\110\050\113\045\327\020\350\237\141 \131\026\305\076\062\116\037\014\316\243\314\017\344\307\021\007 $\\ \langle 042 \rangle 057 \rangle 070 \rangle 010 \rangle 335 \rangle 133 \rangle 227 \rangle 353 \rangle 102 \rangle 154 \rangle 131 \rangle 232 \rangle 232 \rangle 356 \rangle 172 \rangle 320$ \235\337\305\333\011\103\056\012\252\031\075\153\350\152\060\172 \127\346\277\263\152\071\251\217\343\361\117\145\150\266\275\237 \050\217\241\026\132\011\120\072\062\056\035\057\104\021\102\246 $\label{eq:condition} $$ \000\346\061\230\377\055\241\017\346\244\140\126\317\171\327\262 $$$ \116\327\260\372\156\014\127\043\307\316\037\245\261\114\155\031 \111\236\016\177\160\217\161\077\130\050\237\165\335\141\340\072 \267\071\266\356\227\324\065\121\373\213\111\140\310\074\146\256 $\label{eq:condition} $$ \227\356\215\046\131\127\273\170\360\172\120\060\011\260\140\252 $$$ \237\116\334\311\076\036\072\334\142\223\063\260\072\124\164\157 \054\061\105\321\153\021\062\152\150\166\366\075\366\152\023\136 \044\230\347\352\035\232\317\170\202\007\140\367\115\020\323\201 \232\105\215\236\257\233\334\200\307\103\262\225\150\244\303\016 \350\012\107\025\277\124\063\334\001\347\325\246\036\163\330\172 \262\277\057\255\343\125\060\236\337\016\101\274\340\021\365\241 \014\250\042\341\343\000\243\116\160\174\222\343\004\321\172\102 \212\165\220\131\343\233\321\114\242\144\275\163\171\233\157\362 \263\301\366\074

```
END
```

CKA NSS MOZILLA CA POLICY

CK_BBOOL CK_TRUE

CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE

CKA_NSS_EMAIL_DISTRUST_AFTER

CK_BBOOL CK_FALSE

- # Trust for "GlobalSign Secure Mail Root R45"
- # Issuer: CN=GlobalSign Secure Mail Root R45,O=GlobalSign nv-sa,C=BE
- # Serial Number:76:53:fe:a8:4c:50:ab:9f:8d:32:b5:1d:03:8f:57:dc
- # Subject: CN=GlobalSign Secure Mail Root R45,O=GlobalSign nv-sa,C=BE
- # Not Valid Before: Wed Mar 18 00:00:00 2020
- # Not Valid After: Sat Mar 18 00:00:00 2045
- # Fingerprint (SHA-256):
- 31:9A:F0:A7:72:9E:6F:89:26:9C:13:1E:A6:A3:A1:6F:CD:86:38:9F:DC:AB:3C:47:A4:A6:75:C1:61:A3:F9:74
- # Fingerprint (SHA1): 76:18:D1:F3:80:24:3D:52:40:C6:11:6A:AD:57:77:09:7D:81:30:A0

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

CKA TOKEN CK BBOOL CK TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA LABEL UTF8 "GlobalSign Secure Mail Root R45"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL

 $\label{eq:condition} $$ 166\030\321\363\200\044\075\122\100\306\021\152\255\127\167\011 $$$

\175\201\060\240

END

CKA CERT MD5 HASH MULTILINE OCTAL

\223\304\173\263\016\124\107\034\103\054\213\276\160\205\142\051

END

CKA ISSUER

MULTILINE_OCTAL

 $\label{eq:condition} $$ \060\122\061\013\060\011\006\003\125\004\006\023\002\102\105\061 $$$

 $\label{eq:condition} $$ \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

\040\122\064\065

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

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

\127\334

END

 $CKA_TRUST_SERVER_AUTH\ CK_TRUST\ CKT_NSS_MUST_VERIFY_TRUST$

CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR

CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST

CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#

Certificate "GlobalSign Secure Mail Root E45"

- # Issuer: CN=GlobalSign Secure Mail Root E45,O=GlobalSign nv-sa,C=BE
- # Serial Number:76:53:fe:aa:27:1d:95:46:5d:d6:f1:9e:e5:b8:90:0a
- # Subject: CN=GlobalSign Secure Mail Root E45,O=GlobalSign nv-sa,C=BE
- # Not Valid Before: Wed Mar 18 00:00:00

2020

- # Not Valid After: Sat Mar 18 00:00:00 2045
- # Fingerprint (SHA-256):
- # Fingerprint (SHA1): 18:2E:1F:32:4F:89:DF:BE:FE:88:89:F0:93:C2:C4:A0:2B:67:75:21
- CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
- CKA_TOKEN CK_BBOOL CK_TRUE
- CKA PRIVATE CK BBOOL CK FALSE
- CKA_MODIFIABLE CK_BBOOL CK_FALSE
- CKA_LABEL UTF8 "GlobalSign Secure Mail Root E45"
- CKA CERTIFICATE TYPE CK CERTIFICATE TYPE CKC X 509
- CKA_SUBJECT MULTILINE_OCTAL
- \060\122\061\013\060\011\006\003\125\004\006\023\002\102\105\061
- \031\060\027\006\003\125\004\012\023\020\107\154\157\142\141\154
- \123\151\147\156\040\156\166\055\163\141\061\050\060\046\006\003
- \125\004\003\023\037\107\154\157\142\141\154\123\151\147\156\040
- \123\145\143\165\162\145\040\115\141\151\154\040\122\157\157\164
- \040\105\064\065

END

CKA ID UTF8 "0"

CKA ISSUER MULTILINE OCTAL

- \060\122\061\013\060\011\006\003\125\004\006\023\002\102\105\061
- $\label{eq:condition} $$ \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
- \040\105\064\065

END

CKA_SERIAL_NUMBER

MULTILINE OCTAL

\002\020\166\123\376\252\047\035\225\106\135\326\361\236\345\270 \220\012

END

CKA_VALUE MULTILINE_OCTAL

\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 \151\147\156\040\156\166\055\163\141\061\050\060\046\006\003\125 \004\003\023\037\107\154\157\142\141\154\123\151\147\156\040\123 \145\143\165\162\145\040\115\141\151\154\040\122\157\157\164\040 \105\064\065\060\166\060\020\006\007\052\206\110\316\075\002\001 $\label{eq:condition} $$ \006\005\053\201\004\000\042\003\142\000\004\371\171\213\201\107$ \067\211\226\077\105\111\120\177\032\046\013\223\062\176\056\300 \300\247\010\232\303\156\217\233\076\013\042\354\067\123\267\157 \212\260\274\047\067\113\155\251\106\073\331\037\377\245\241\104 \273\055\163\277\236\101\007\134\123\233\121\010\072\132\273\157 \070\307\026\221\170\302\112\023\151\035\202\337\132\057\000\210 $\label{eq:condition} $$ \226\242\056\034\164\371\235\176\146\067\212\243\102\060\100\060$$ \017\006\003\125\035\023\001\001\377\004\005\060\003\001\001\377 $\label{eq:condition} $$ \000\03\125\035\016\004\026\004\024\337\023\136\213\137 $$$ \302\100\002\375\126\267\224\114\266\036\325\246\261\024\226\060 \012\006\010\052\206\110\316\075\004\003\003\003\150\000\060\145 $\label{eq:condition} $$ \002\060\023\260\276\327\161\040\076\344\253\234\316\066\022\175$$ \137\114\037\052\265\151\105\063\137\323\055\132\262\344\210\307 $\label{eq:condition} $$ \36\012\066\102\062\171\235\246\153\272\341\371\104\052\173\212 $$$ \303\022\002\061\000\240\146\034\116\207\235\207\311\355\231\114 \033\012\356\055\140\303\067\307\035\315\265\162\260\331\306\357 \274\362\377\077\360\122\335\010\347\252\144\171\303\344\151\127 \221\057\244\313\174 **END**

CKA_NSS_MOZILLA_CA_POLICY

CK BBOOL CK TRUE

CKA_NSS_SERVER_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
\053\147\165\041
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\305\374\306\056\237\364\122\055\052\250\244\272\373\147\062\377
END
CKA ISSUER MULTILINE OCTAL
\060\122\061\013\060\011\006\003\125\004\006\023\002\102\105\061
\031\060\027\006\003\125\004\012\023\020\107\154\157\142\141\154
\123\151\147\156\040\156\166\055\163\141\061\050\060\046\006\003
\label{eq:condition} $$ 125\004\003\023\037\107\154\157\142\141\154\123\151\147\156\040 $$
\123\145\143\165\162\145\040\115\141\151\154\040\122\157\157\164
\040\105\064\065
END
CKA_SERIAL_NUMBER
MULTILINE OCTAL
\label{eq:condition} $$ \002\020\166\123\376\252\047\035\225\106\135\326\361\236\345\270 $$
\220\012
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA TRUST EMAIL PROTECTION CK TRUST CKT NSS TRUSTED DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
# Certificate "GlobalSign Root R46"
# Issuer: CN=GlobalSign Root R46,O=GlobalSign nv-sa,C=BE
# Serial Number:11:d2:bb:b9:d7:23:18:9e:40:5f:0a:9d:2d:d0:df:25:67:d1
# Subject: CN=GlobalSign Root R46,O=GlobalSign nv-sa,C=BE
# Not Valid Before: Wed Mar 20 00:00:00 2019
# Not Valid After: Tue Mar 20 00:00:00 2046
# Fingerprint (SHA-256):
4F:A3:12:6D:8D:3A:11:D1:C4:85:5A:4F:80:7C:BA:D6:CF:91:9D:3A:5A:88:B0:3B:EA:2C:63:72:D9:3C:40:C9
# Fingerprint (SHA1): 53:A2:B0:4B:CA:6B:D6:45:E6:39:8A:8E:C4:0D:D2:BF:77:C3:A2:90
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA TOKEN CK BBOOL CK TRUE
CKA PRIVATE
CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign Root R46"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\106\061\013\060\011\006\003\125\004\006\023\002\102\105\061
\label{eq:condition} $$ \031\060\027\006\003\125\004\012\023\020\107\154\157\142\141\154
\123\151\147\156\040\156\166\055\163\141\061\034\060\032\006\003
\125\004\003\023\023\107\154\157\142\141\154\123\151\147\156\040
\122\157\157\164\040\122\064\066
```

END

CKA ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

 $\label{eq:condition} $$ \00106\001\006\003\125\004\006\023\002\102\105\061 $$ \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\107\154\157\142\141\154\123\151\147\156\040 $$ \122\157\157\164\040\122\064\066$$

END

CKA SERIAL NUMBER MULTILINE OCTAL

 $\label{eq:condition} $$ \002\022\021\322\273\271\327\043\030\236\100\137\012\235\055\320\337\045\147\321$

END

CKA_VALUE MULTILINE_OCTAL

 $\label{eq:condition} $$ \060\202\005\132\060\202\003\102\240\003\002\001\002\002\022\021 $$$ \322\273\271\327\043\030\236\100\137\012\235\055\320\337\045\147 \321\060\015\006\011\052\206\110\206\367\015\001\001\014\005\000 \060\106\061\013\060\011\006\003\125\004\006\023\002\102\105\061 \031\060\027\006\003\125\004\012\023\020\107\154\157\142\141\154 \123\151\147\156\040\156\166\055\163\141\061\034\060\032\006\003 \125\004\003\023\023\107\154\157\142\141\154\123\151\147\156\040 \122\157\157\164\040\122\064\066\060\036\027\015\061\071\060\063 \060\060\060\060\060\060\060\060\132\060\106\061\013\060\011\006\003 \125\004\006\023\002\102\105\061\031\060\027\006\003\125\004\012 \023\020\107\154\157\142\141\154\123\151\147\156\040\156\166\055 \163\141\061\034\060\032\006\003\125\004\003\023\023\107\154\157 \142\141\154\123\151\147\156\040\122\157\157\164\040\122\064\066 \060\202\002\042\060\015\006\011\052\206\110\206\367\015\001\001 \001\005\000\003\202\002\017\000\060\202\002\012\002\202\002\001 $\label{eq:condition} $$ \000\254\254\164\062\350\263\145\345\272\355\103\046\035\246\211 $$$ \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 $\label{eq:condition} $$ \37\136\207\012\100\373\255\031\153\373\367\312\140\210\336\332$ \301\217\326\256\325\177\324\074\203\356\327\026\114\203\105\063 \153\047\320\206\320\034\055\153\363\253\175\361\205\251\365\050 \322\255\357\363\204\113\034\207\374\023\243\072\162\242\132\021 \053\326\047\161\047\355\201\055\155\146\201\222\207\264\033\130 \172\314\077\012\372\106\117\115\170\134\370\053\110\343\004\204 \313\135\366\264\152\263\145\374\102\236\121\046\043\040\313\075 \024\371\201\355\145\026\000\117\032\144\227\146\010\317\214\173 \343\053\300\235\371\024\362\033\361\126\152\026\277\054\205\205 \315\170\070\232\353\102\152\002\064\030\203\027\116\224\126\370

\266\202\265\363\226\335\075\363\276\177\040\167\076\173\031\043 \153\054\324\162\163\103\127\175\340\370\327\151\117\027\066\004 \371\300\220\140\067\105\336\346\014\330\164\215\256\234\242\155 \164\135\102\276\006\365\331\144\156\002\020\254\211\260\114\073 \007\115\100\176\044\305\212\230\202\171\216\244\247\202\040\215 $\label{eq:condition} $$ \043\372\047\161\311\337\306\101\164\240\115\366\221\026\334\106$$ \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 $\label{eq:condition} $$ 307\153\031\313\363\173\360\053\007\245\331\154\171\124\166\154$$$ \235\034\246\156\016\351\171\014\250\043\152\243\337\033\060\061 $\label{eq:condition} $$ \237\261\124\173\376\152\313\146\252\334\145\320\242\236\112\232$ $\label{eq:condition} $$ \007\041\153\201\217\333\304\131\372\336\042\300\004\234\343\252$ \133\066\223\350\075\275\172\241\235\013\166\261\013\307\235\375 \317\230\250\006\302\370\052\243\241\203\240\267\045\162\245\002 \343\002\003\001\000\001\243\102\060\100\060\016\006\003\125\035 \017\001\001\377\004\004\003\002\001\206\060\017\006\003\125\035 $\label{eq:condition} $$ \023\001\001\377\004\005\060\003\001\001\377\060\035\006\003\125$$ \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 $\label{eq:condition} $$ \237\166\010\055\153\330\272\127\024\332\203\352\376\214\125\351 $$$ \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 $\label{eq:condition} $$ \016\210\155\270\341\126\237\211\336\226\146\071\107\144\054\156$$ \115\256\142\173\277\140\164\031\270\126\254\222\254\026\062\355 \255\150\125\376\230\272\323\064\336\364\311\141\303\016\206\366 \113\204\140\356\015\173\265\062\130\171\221\125\054\201\103\263 $\label{eq:condition} $$ 164\037\172\252\045\236\035\327\241\213\271\315\102\056\004\244 $$$ \146\203\115\211\065\266\154\250\066\112\171\041\170\042\320\102 \274\321\100\061\220\241\276\004\317\312\147\355\365\360\200\323 \140\311\203\052\042\005\320\007\073\122\277\014\236\252\053\371 \273\346\037\217\045\272\205\215\027\036\002\376\135\120\004\127 \317\376\055\274\357\134\300\032\253\266\237\044\306\337\163\150 \110\220\054\024\364\077\122\032\344\322\313\024\303\141\151\317 \342\371\030\305\272\063\237\024\243\004\135\271\161\367\265\224 \330\366\063\301\132\301\064\213\174\233\335\223\072\347\023\242 $\label{eq:condition} $$ 160\141\237\257\217\353\330\305\165\370\063\146\324\164\147\072$ \067\167\234\347\335\244\017\166\103\146\212\103\362\237\373\014 $\label{eq:condition} $$ 102\170\143\321\342\017\157\173\324\241\075\164\227\205\267\110 \\ 071\101\326\040\374\320\072\263\372\350\157\304\212\272\161\067 \\ 276\213\227\261\170\061\117\263\347\266\003\023\316\124\235\256 \\ 045\131\314\177\065\137\010\367\100\105\061\170\052\172 \\$

END

CKA_NSS_MOZILLA_CA_POLICY

CK BBOOL CK TRUE

CKA_NSS_SERVER_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:condition} $$ 123\242\260\113\312\153\326\105\346\071\212\216\304\015\322\277 $$$

\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

\031\060\027\006\003\125\004\012\023\020\107\154\157\142\141\154

\123\151\147\156\040\156\166\055\163\141\061\034\060\032\006\003

\125\004\003\023\023\107\154\157\142\141\154\123\151\147\156\040

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

END

 $CKA_SERIAL_NUMBER\ MULTILINE_OCTAL$

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

 $\ \ \, \backslash 337 \backslash 045 \backslash 147 \backslash 321$

END

CKA_TRUST_SERVER_AUTH

CK_TRUST CKT_NSS_TRUSTED_DELEGATOR

 ${\tt CKA_TRUST_EMAIL_PROTECTION\ CK_TRUST\ CKT_NSS_MUST_VERIFY_TRUST}$

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

END

CKA ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

 $\label{eq:condition} $$ \00106\001\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\125\004\003\023\107\154\157\142\141\154\123\151\147\156\040\122\157\157\164\040\105\064\066$

END

CKA SERIAL NUMBER MULTILINE OCTAL

\002\022\021\322\273\272\063\156\324\274\346\044\150\305\015\204 \035\230\350\103

END

CKA_VALUE MULTILINE_OCTAL

\060\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:limit} $$ \frac{154\\157\\142\\141\\154\\123\\151\\147\\156\\040\\156\\166\\055\\163\\141\\061$ $\label{eq:condition} $$ \034\060\032\006\003\125\004\003\023\023\107\154\157\142\141\154$ \123\151\147\156\040\122\157\157\164\040\105\064\066\060\166\060 \020\006\007\052\206\110\316\075\002\001\006\005\053\201\004\000 \042\003\142\000\004\234\016\261\317\267\350\236\122\167\165\064 \372\245\106\247\255\062\031\062\264\007\251\047\312\224\273\014 $\label{eq:condition} $$ \322\012\020\307\332\211\260\227\014\160\023\011\001\216\330\352$ \107\352\276\262\200\053\315\374\050\015\333\254\274\244\206\067 \355\160\010\000\165\352\223\013\173\056\122\234\043\150\043\006 $\label{eq:condition} $$ 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 $\label{eq:condition} $$ \001\001\377\004\004\003\002\001\206\060\017\006\003\125\035\023$ $\label{eq:condition} $$ \001\001\377\004\005\060\003\001\001\377\060\035\006\003\125\035 $$$ \016\004\026\004\024\061\012\220\217\266\306\235\322\104\113\200 \265\242\346\037\261\022\117\033\225\060\012\006\010\052\206\110 \316\075\004\003\003\003\150\000\060\145\002\061\000\337\124\220 \355\233\357\213\224\002\223\027\202\231\276\263\236\054\366\013 \221\214\237\112\024\261\366\144\274\273\150\121\023\014\003\367 \025\213\204\140\271\213\377\122\216\347\214\274\034\002\060\074 \371\021\324\214\116\300\301\141\302\025\114\252\253\035\013\061 \137\073\034\342\000\227\104\061\346\376\163\226\057\332\226\323 \376\010\007\263\064\211\274\005\237\367\036\206\356\213\160 **END**

CKA_NSS_MOZILLA_CA_POLICY

CK_BBOOL CK_TRUE

 $CKA_NSS_SERVER_DISTRUST_AFTER$

CK BBOOL CK FALSE

CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

```
# Trust for "GlobalSign Root E46"
```

- # Issuer: CN=GlobalSign Root E46,O=GlobalSign nv-sa,C=BE
- # Serial Number:11:d2:bb:ba:33:6e:d4:bc:e6:24:68:c5:0d:84:1d:98:e8:43
- # Subject: CN=GlobalSign Root E46,O=GlobalSign nv-sa,C=BE
- # Not Valid Before: Wed Mar 20 00:00:00 2019
- # Not Valid After: Tue Mar 20 00:00:00 2046
- # Fingerprint (SHA-256):

CB:B9:C4:4D:84:B8:04:3E:10:50:EA:31:A6:9F:51:49:55:D7:BF:D2:E2:C6:B4:93:01:01:9A:D6:1D:9F:50:58

Fingerprint (SHA1): 39:B4:6C:D5:FE:80:06:EB:E2:2F:4A:BB:08:33:A0:AF:DB:B9:DD:84

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "GlobalSign Root E46"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL

 $\label{eq:condition} $$ \071\264\154\325\376\200\006\353\342\057\112\273\010\063\240\257 $$$

\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:condition} $$ \031\060\027\006\003\125\004\012\023\020\107\154\157\142\141\154
\123\151\147\156\040\156\166\055\163\141\061\034\060\032\006\003
\125\004\003\023\023\107\154\157\142\141\154\123\151\147\156\040
\label{eq:local_state} $$ 122\157\157\164\040\105\064\066$
END
CKA SERIAL NUMBER MULTILINE OCTAL
\002\022\021\322\273\272\063\156\324\274\346\044\150\305\015\204
\035\230\350\103
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA TRUST EMAIL PROTECTION CK TRUST CKT NSS MUST VERIFY TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
# Certificate "GLOBALTRUST 2020"
# Issuer: CN=GLOBALTRUST 2020,O=e-commerce monitoring GmbH,C=AT
# Serial Number:5a:4b:bd:5a:fb:4f:8a:5b:fa:65:e5
# Subject: CN=GLOBALTRUST 2020,O=e-commerce monitoring GmbH,C=AT
# Not Valid Before: Mon Feb 10 00:00:00 2020
# Not Valid After: Sun Jun 10 00:00:00 2040
# Fingerprint (SHA-256):
9A:29:6A:51:82:D1:D4:51:A2:E3:7F:43:9B:74:DA:AF:A2:67:52:33:29:F9:0F:9A:0D:20:07:C3:34:E2:3C:9A
Fingerprint (SHA1): D0:67:C1:13:51:01:0C:AA:D0:C7:6A:65:37:31:16:26:4F:53:71:A2
CKA CLASS CK OBJECT CLASS CKO CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA MODIFIABLE CK BBOOL CK FALSE
CKA_LABEL UTF8 "GLOBALTRUST 2020"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\115\061\013\060\011\006\003\125\004\006\023\002\101\124\061
\043\060\041\006\003\125\004\012\023\032\145\055\143\157\155\155
\145\162\143\145\040\155\157\156\151\164\157\162\151\156\147\040
\107\155\142\110\061\031\060\027\006\003\125\004\003\023\020\107
\114\117\102\101\114\124\122\125\123\124\040\062\060\062\060
END
CKA_ID UTF8 "0"
```

CKA_ISSUER MULTILINE_OCTAL

CKA SERIAL NUMBER

MULTILINE_OCTAL

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

END

CKA_VALUE MULTILINE_OCTAL

 $\label{eq:condition} $$ \060\202\005\202\060\202\003\152\240\003\002\001\002\002\013\132 $$$ \113\275\132\373\117\212\133\372\145\345\060\015\006\011\052\206 \110\206\367\015\001\001\013\005\000\060\115\061\013\060\011\006 $\label{eq:condition} $$ \003\125\004\006\023\002\101\124\061\043\060\041\006\003\125\004$ \012\023\032\145\055\143\157\155\155\145\162\143\145\040\155\157 $\label{eq:condition} $$ \frac{156}{151}\frac{64}{157}\frac{62}{151}\frac{156}{147}\frac{040}{107}\frac{155}{142}\frac{110}{061}\frac{031}{060} $$$ \027\006\003\125\004\003\023\020\107\114\117\102\101\114\124\122 \125\123\124\040\062\060\062\060\060\036\027\015\062\060\060\062 \060\060\060\060\060\060\060\060\132\060\115\061\013\060\011\006\003 \125\004\006\023\002\101\124\061\043\060\041\006\003\125\004\012 $\\023\\032\\145\\055\\143\\157\\155\\155\\145\\162\\143\\145\\040\\155\\157\\156$ \151\164\157\162\151\156\147\040\107\155\142\110\061\031\060\027 $\\ \\006\\ \\003\\ \\125\\ \\004\\ \\003\\ \\023\\ \\020\\ \\107\\ \\114\\ \\117\\ \\102\\ \\101\\ \\114\\ \\124\\ \\122\\ \\125$ \123\124\040\062\060\062\060\060\202\002\042\060\015\006\011\052 \206\110\206\367\015\001\001\001\005\000\003\202\002\017\000\060 \202\002\012\002\202\002\001\000\256\056\126\255\033\034\357\366 \225\217\240\167\033\053\323\143\217\204\115\105\242\017\237\133 \105\253\131\173\121\064\371\354\213\212\170\305\335\153\257\275 $\label{eq:condition} $$ 304\337\223\105\036\277\221\070\013\256\016\026\347\101\163\370 $$$ \333\273\321\270\121\340\313\203\073\163\070\156\167\212\017\131 \143\046\315\247\052\316\124\373\270\342\300\174\107\316\140\174 \077\262\163\362\300\031\266\212\222\207\065\015\220\050\242\344 \025\004\143\076\272\257\356\174\136\314\246\213\120\262\070\367 \101\143\312\316\377\151\217\150\016\225\066\345\314\271\214\011 \312\113\335\061\220\226\310\314\037\375\126\226\064\333\216\034 \352\054\276\205\056\143\335\252\251\225\323\375\051\225\023\360 \310\230\223\331\055\026\107\220\021\203\242\072\042\242\050\127 \242\353\376\300\214\050\240\246\175\347\052\102\073\202\200\143 \245\143\037\031\314\174\262\146\250\302\323\155\067\157\342\176 \006\121\331\105\204\037\022\316\044\122\144\205\013\110\200\116 \207\261\042\042\060\252\353\256\276\340\002\340\100\350\260\102 \200\003\121\252\264\176\252\104\327\103\141\363\242\153\026\211 \111\244\243\244\053\212\002\304\170\364\150\212\301\344\172\066 \261\157\033\226\033\167\111\215\324\311\006\162\217\317\123\343 \334\027\205\040\112\334\230\047\323\221\046\053\107\036\151\007 \257\336\242\344\344\324\153\013\263\136\174\324\044\200\107\051

\151\073\156\350\254\375\100\353\330\355\161\161\053\362\350\130 \035\353\101\227\042\305\037\324\071\320\047\217\207\343\030\364 \340\251\106\015\365\164\072\202\056\320\156\054\221\243\061\134 $\label{eq:condition} $$ \073\106\352\173\004\020\126\136\200\035\365\245\145\350\202\374$$$ \342\007\214\142\105\365\040\336\106\160\206\241\274\223\323\036 \164\246\154\260\054\367\003\014\210\014\313\324\162\123\206\274 \140\106\363\230\152\302\361\277\103\371\160\040\167\312\067\101 \171\125\122\143\215\133\022\237\305\150\304\210\235\254\362\060 \253\267\243\061\227\147\255\217\027\017\154\307\163\355\044\224 \153\310\203\232\320\232\067\111\004\253\261\026\310\154\111\111 $\label{eq:condition} $$ \055\253\241\320\214\222\362\101\112\171\041\045\333\143\327\266$$ $\verb|234|247|176|102|151|373|072|143|002|003|001|000|001|243|143|060|$ \141\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001 $\label{eq:condition} $$ \001\377\060\016\006\003\125\035\017\001\001\377\004\004\003\002$ $\label{eq:condition} $$ \001\006\003\006\003\125\035\016\004\026\004\024\334\056\037 $$$ \321\141\067\171\344\253\325\325\263\022\161\150\075\152\150\234 $\label{eq:condition} $$ \042\060\037\006\003\125\035\043\004\030\060\026\200\024\334\056$$ \037\321\141\067\171\344\253\325\325\263\022\161\150\075\152\150 \234\042\060\015\006\011\052\206\110\206\367\015\001\001\013\005 $\label{eq:condition} $$ \000\003\202\002\001\000\221\360\102\002\150\100\356\303\150\300 $$$ \124\057\337\354\142\303\303\236\212\240\061\050\252\203\216\244 \126\226\022\020\206\126\272\227\162\322\124\060\174\255\031\325 $\label{eq:condition} $$ \035\150\157\373\024\102\330\215\016\363\265\321\245\343\002\102$ \136\334\350\106\130\007\065\002\060\340\274\164\112\301\103\052 \377\333\032\320\260\257\154\303\375\313\263\365\177\155\003\056 \131\126\235\055\055\065\214\262\326\103\027\054\222\012\313\135 \350\214\017\113\160\103\320\202\377\250\314\277\244\224\300\276 \207\275\212\343\223\173\306\217\233\026\235\047\145\274\172\305 \102\202\154\134\007\320\251\301\210\140\104\351\230\205\026\137 \370\217\312\001\020\316\045\303\371\140\033\240\305\227\303\323 $\label{eq:condition} $$ \054\210\061\242\275\060\354\320\320\320\022\361\301\071\343\345 $$$ \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 \240\200\007\266\035\312\255\155\352\101\021\176\055\164\223\373 \302\274\276\121\104\305\357\150\045\047\200\343\310\240\324\022 \354\331\245\067\035\067\174\264\221\312\332\324\261\226\201\357 \150\134\166\020\111\257\176\245\067\200\261\034\122\275\063\201 \114\217\371\335\145\331\024\315\212\045\130\364\342\305\203\245 \011\220\324\154\024\143\265\100\337\353\300\374\304\130\176\015 \024\026\207\124\047\156\126\344\160\204\270\154\062\022\176\202 \061\103\276\327\335\174\241\255\256\326\253\040\022\357\012\303 $\label{eq:condition} $$ \020\214\111\226\065\334\013\165\136\261\117\325\117\064\016\021 $$$ \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

 $\label{eq:condition} $$ \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

For Server Distrust After: Sun Jun 30 00:00:00 2024

CKA_NSS_SERVER_DISTRUST_AFTER MULTILINE_OCTAL

END

For Email Distrust After: Sun Jun 30 00:00:00 2024

CKA_NSS_EMAIL_DISTRUST_AFTER MULTILINE_OCTAL

END

- # Trust for "GLOBALTRUST 2020"
- # Issuer: CN=GLOBALTRUST 2020,O=e-commerce monitoring GmbH,C=AT
- # Serial Number:5a:4b:bd:5a:fb:4f:8a:5b:fa:65:e5
- # Subject: CN=GLOBALTRUST 2020,O=e-commerce monitoring GmbH,C=AT
- # Not Valid Before: Mon Feb 10 00:00:00 2020
- # Not Valid After: Sun Jun 10 00:00:00 2040
- # Fingerprint (SHA-256):
- 9A:29:6A:51:82:D1:D4:51:A2:E3:7F:43:9B:74:DA:AF:A2:67:52:33:29:F9:0F:9A:0D:20:07:C3:34:E2:3C:9A
- # Fingerprint (SHA1): D0:67:C1:13:51:01:0C:AA:D0:C7:6A:65:37:31:16:26:4F:53:71:A2

CKA CLASS CK OBJECT CLASS CKO NSS TRUST

CKA_TOKEN CK_BBOOL CK_TRUE

CKA PRIVATE CK BBOOL CK FALSE

CKA MODIFIABLE CK BBOOL CK FALSE

CKA_LABEL UTF8 "GLOBALTRUST 2020"

CKA_CERT_SHA1_HASH

MULTILINE OCTAL

\320\147\301\023\121\001\014\252\320\307\152\145\067\061\026\046

\117\123\161\242

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL

\212\307\157\313\155\343\314\242\361\174\203\372\016\170\327\350

END

CKA_ISSUER MULTILINE_OCTAL

\060\115\061\013\060\011\006\003\125\004\006\023\002\101\124\061

 $\\ \langle 043 \rangle 060 \rangle 041 \rangle 006 \rangle 003 \rangle 125 \rangle 004 \rangle 012 \rangle 023 \rangle 032 \rangle 145 \rangle 055 \rangle 143 \rangle 157 \rangle 155 \rangle 156 \rangle$

 $\label{eq:condition} $$ 145\162\143\145\040\155\157\156\151\164\157\162\151\156\147\040$$

\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

 ${\sf CKA_SERIAL_NUMBER\ MULTILINE_OCTAL}$

 $\label{eq:condition} $$ \002\013\132\113\275\132\373\117\212\133\372\145\345$$

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END
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CKA_TRUST_SERVER_AUTH CK_TRUST CKT_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, serial Number=G63287510

Not Valid Before: Wed Sep 04 10:00:38 2019

Not Valid After: Tue Aug 30 10:00:38 2039

Fingerprint (SHA-256):

FB:8F:EC:75:91:69:B9:10:6B:1E:51:16:44:C6:18:C5:13:04:37:3F:6C:06:43:08:8D:8B:EF:FD:1B:99:75:99

Fingerprint (SHA1): 5B:6E:68:D0:CC:15:B6:A0:5F:1E:C1:5F:AE:02:FC:6B:2F:5D:6F:74

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

CKA TOKEN CK BBOOL CK TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA LABEL UTF8 "ANF Secure Server Root CA"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL

\060\201\204\061\022\060\020\006\003\125\004\005\023\011\107\066

 $\label{eq:condition} $$ \063\062\070\067\065\061\060\061\013\060\011\006\003\125\004\006$

 $\label{eq:condition} $$ \023\002\105\123\061\047\060\045\006\003\125\004\012\023\036\101 $$$

\116\106\040\101\165\164\157\162\151\144\141\144\040\144\145\040

 $\label{eq:condition} $$103\145\162\164\151\146\151\143\141\143\151\157\156\061\024\060$$

\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 ID

UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

 $\label{eq:control} $$ \000\201\204\061\022\060\020\006\003\125\0004\005\023\011\107\066\063\062\070\065\061\060\061\013\060\0011\006\003\125\0004\006\003\125\0004\0012\023\036\101\116\106\040\101\165\164\157\162\151\144\141\144\040\144\145\040\103\145\162\164\151\146\151\143\141\143\151\157\156\061\024\060\022\006\003\125\0004\0013\023\013\101\116\106\040\103\101\116\106\040\123\145\143\165\162\145\040\123\145\162\166\145\162\040\122\157\157\164\040\103\101$

END

CKA SERIAL NUMBER MULTILINE OCTAL

 $\label{eq:condition} $$ \002\010\015\323\343\274\154\371\153\261$$

END

CKA_VALUE MULTILINE_OCTAL

 $\label{eq:condition} $$ \060\202\005\357\060\202\003\327\240\003\002\001\002\002\010\015$ \323\343\274\154\371\153\261\060\015\006\011\052\206\110\206\367 \015\001\001\013\005\000\060\201\204\061\022\060\020\006\003\125 $\\ \\004\\ \\005\\ \\023\\ \\011\\ \\107\\ \\066\\ \\063\\ \\062\\ \\070\\ \\067\\ \\065\\ \\061\\ \\060\\ \\061\\ \\013\\ \\060$ \011\006\003\125\004\006\023\002\105\123\061\047\060\045\006\003 \125\004\012\023\036\101\116\106\040\101\165\164\157\162\151\144 $\\ 141\\144\\040\\144\\145\\040\\103\\145\\162\\164\\151\\146\\151\\143\\141\\143$ \151\157\156\061\024\060\022\006\003\125\004\013\023\013\101\116 $\label{eq:condition} $$ 106\040\103\101\040\122\141\151\172\061\042\060\040\006\003\125$$ $\label{eq:condition} $$ \004\003\023\031\101\116\106\040\123\145\143\165\162\145\040\123$ \145\162\166\145\162\040\122\157\157\164\040\103\101\060\036\027 $\label{eq:condition} $$ \0.015\0.61\0.71\0.60\0.64\0.61\0.60\0.60\0.60\0.63\0.70\1.32\0.27\0.15 $$$ \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 \123\061\047\060\045\006\003\125\004\012\023\036\101\116\106\040 \101\165\164\157\162\151\144\141\144\040\144\145\040\103\145\162 \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 $\label{eq:condition} $$ \367\015\001\001\001\005\000\003\202\002\017\000\060\202\002\012$ \002\202\002\001\000\333\353\153\053\346\144\124\225\202\220\243 \162\244\031\001\235\234\013\201\137\163\111\272\247\254\363\004 \116\173\226\013\354\021\340\133\246\034\316\033\322\015\203\034 \053\270\236\035\176\105\062\140\017\007\351\167\130\176\237\152 \310\141\116\266\046\301\114\215\377\114\357\064\262\037\145\330 \271\170\365\255\251\161\271\357\117\130\035\245\336\164\040\227 \241\355\150\114\336\222\027\113\274\253\377\145\232\236\373\107 \331\127\162\363\011\241\256\166\104\023\156\234\055\104\071\274 \371\307\073\244\130\075\101\275\264\302\111\243\310\015\322\227 $\label{eq:condition} $$ \057\007\145\122\000\247\156\310\257\150\354\364\024\226\266\127$ $\label{eq:condition} $$ \037\126\303\071\237\053\155\344\363\076\366\065\144\332\014\034$ \241\204\113\057\113\113\342\054\044\235\155\223\100\353\265\043 \216\062\312\157\105\323\250\211\173\036\317\036\372\133\103\213 \315\315\250\017\152\312\014\136\271\236\107\217\360\331\266\012 \013\130\145\027\063\271\043\344\167\031\175\313\112\056\222\173 \117\057\020\167\261\215\057\150\234\142\314\340\120\370\354\221 \247\124\114\127\011\325\166\143\305\350\145\036\356\155\152\317 \011\235\372\174\117\255\140\010\375\126\231\017\025\054\173\251 \200\253\214\141\217\112\007\166\102\336\075\364\335\262\044\063 \133\270\265\243\104\311\254\177\167\074\035\043\354\202\251\246

\342\310\006\114\002\376\254\134\231\231\013\057\020\212\246\364 \177\325\207\164\015\131\111\105\366\360\161\134\071\051\326\277 \112\043\213\365\137\001\143\322\207\163\050\265\113\012\365\370 \253\202\054\176\163\045\062\035\013\143\012\027\201\000\377\266 \166\136\347\264\261\100\312\041\273\325\200\121\345\110\122\147 $\label{eq:condition} $$ \054\322\141\211\007\015\017\316\102\167\300\104\163\234\104\120 $$$ \240\333\020\012\055\225\034\201\257\344\034\345\024\036\361\066 \101\001\002\057\175\163\247\336\102\314\114\351\211\015\126\367 \237\221\324\003\306\154\311\217\333\330\034\340\100\230\135\146 \231\230\200\156\055\377\001\305\316\313\106\037\254\002\306\103 \346\256\242\204\074\305\116\036\075\155\311\024\114\343\056\101 $\label{eq:condition} $$ \273\312\071\277\066\074\052\031\252\101\207\116\245\316\113\062$ \171\335\220\111\177\002\003\001\000\001\243\143\060\141\060\037 $\label{eq:condition} $$ \006\003\125\035\043\004\030\060\026\200\024\234\137\320\154\143 $$$ \243\137\223\312\223\230\010\255\214\207\245\054\134\301\067\060 \035\006\003\125\035\016\004\026\004\024\234\137\320\154\143\243 \137\223\312\223\230\010\255\214\207\245\054\134\301\067\060\016 \006\003\125\035\017\001\001\377\004\004\003\002\001\206\060\017 \006\003\125\035\023\001\001\377\004\005\060\003\001\001\377\060 $\label{eq:condition} $$ \0.015\0.06\0.01\0.05\0.00\0.003\0.001\0.01\0.01\0.005\0.000\0.003\0.000 $$$ \002\001\000\116\036\271\212\306\240\230\077\156\303\151\300\152 \134\111\122\254\313\053\135\170\070\301\325\124\204\237\223\360 $\label{eq:condition} $$ \207\031\075\054\146\211\353\015\102\374\314\360\165\205\077\213 $$$ \364\200\135\171\345\027\147\275\065\202\342\362\074\216\175\133 \066\313\132\200\000\051\362\316\053\054\361\217\252\155\005\223 \154\162\307\126\353\337\120\043\050\345\105\020\075\350\147\243 \257\016\125\017\220\011\142\357\113\131\242\366\123\361\300\065 \344\057\301\044\275\171\057\116\040\042\073\375\032\040\260\244 \016\054\160\355\164\077\270\023\225\006\121\310\350\207\046\312 \244\133\152\026\041\222\335\163\140\236\020\030\336\074\201\352 $\label{eq:condition} $$ 350\030\303\174\211\362\213\120\076\275\021\342\025\003\250\066$$ \175\063\001\154\110\025\327\210\220\231\004\305\314\346\007\364 \274\364\220\355\023\342\352\213\303\217\243\063\017\301\051\114 \023\116\332\025\126\161\163\162\202\120\366\232\063\174\242\261 \250\032\064\164\145\134\316\321\353\253\123\340\032\200\330\352 \072\111\344\046\060\233\345\034\212\250\251\025\062\206\231\222 \012\020\043\126\022\340\366\316\114\342\273\276\333\215\222\163 $\label{eq:condition} $$ \001\146\057\142\076\262\162\047\105\066\355\115\126\343\227\231 $$$ $\label{eq:condition} $$ 377\072\065\076\245\124\112\122\131\113\140\333\356\376\170\021 $$$ \177\112\334\024\171\140\266\153\144\003\333\025\203\341\242\276 \366\043\227\120\360\011\063\066\247\161\226\045\363\271\102\175 \333\070\077\054\130\254\350\102\341\016\330\323\073\114\056\202 $\label{eq:condition} $$ \frac{351}{203}056\\ 153\\ 061\\ 331\\ 335\\ 107\\ 206\\ 117\\ 155\\ 227\\ 221\\ 056\\ 117\\ 342$ \050\161\065\026\321\362\163\376\045\053\007\107\044\143\047\310 \370\366\331\153\374\022\061\126\010\300\123\102\257\234\320\063 \176\374\006\360\061\104\003\024\361\130\352\362\152\015\251\021 \262\203\276\305\032\277\007\352\131\334\243\210\065\357\234\166 \062\074\115\006\042\316\025\345\335\236\330\217\332\336\322\304

 $\label{eq:condition} $$ \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

 ${\tt CKA_NSS_SERVER_DISTRUST_AFTER\ CK_BBOOL\ CK_FALSE}$

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, serial Number=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, serial Number=G63287510

Not Valid Before: Wed Sep 04 10:00:38 2019

Not Valid After: Tue Aug 30 10:00:38 2039

Fingerprint (SHA-256):

FB:8F:EC:75:91:69:B9:10:6B:1E:51:16:44:C6:18:C5:13:04:37:3F:6C:06:43:08:8D:8B:EF:FD:1B:99:75:99

Fingerprint (SHA1): 5B:6E:68:D0:CC:15:B6:A0:5F:1E:C1:5F:AE:02:FC:6B:2F:5D:6F:74

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

CKA_TOKEN CK_BBOOL CK_TRUE

CKA PRIVATE

CK_BBOOL CK_FALSE

CKA MODIFIABLE CK BBOOL CK FALSE

CKA_LABEL UTF8 "ANF Secure Server Root CA"

CKA CERT SHA1 HASH MULTILINE OCTAL

\133\156\150\320\314\025\266\240\137\036\301\137\256\002\374\153

\057\135\157\164

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL

\046\246\104\132\331\257\116\057\262\035\266\145\260\116\350\226

END

CKA ISSUER MULTILINE OCTAL

 $\label{eq:condition} $$ \060\201\204\061\022\060\020\006\003\125\004\005\023\011\107\066$$$

\063\062\070\067\065\061\060\061\013\060\011\006\003\125\004\006

 $\label{eq:condition} $$ \023\02\105\123\061\047\060\045\006\003\125\004\012\023\036\101 $$$

 $\label{eq:condition} $$ 116\106\040\101\165\164\157\162\151\144\141\144\040\144\145\040$$

\103\145\162\164\151\146\151\143\141\143\151\157\156\061\024\060

 $\label{eq:condition} $$ 141\151\172\061\042\060\040\006\003\125\004\003\023\031\101\116$

 $\label{eq:condition} $$ 106\040\123\145\143\165\162\145\040\123\145\162\166\145\162\040$$

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

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

 $\label{eq:condition} $$ \002\010\015\323\343\274\154\371\153\261$$

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

#
Certificate "Certum EC-384 CA"

Issuer: CN=Certum EC-384 CA,OU=Certum Certification Authority,O=Asseco Data Systems S.A.,C=PL

Serial Number:78:8f:27:5c:81:12:52:20:a5:04:d0:2d:dd:ba:73:f4

Subject: CN=Certum EC-384 CA,OU=Certum Certification Authority,O=Asseco Data Systems S.A.,C=PL

Not Valid Before: Mon Mar 26 07:24:54 2018

Not Valid After: Thu Mar 26 07:24:54 2043

Fingerprint (SHA-256):

6B:32:80:85:62:53:18:AA:50:D1:73:C9:8D:8B:DA:09:D5:7E:27:41:3D:11:4C:F7:87:A0:F5:D0:6C:03:0C:F6

Fingerprint (SHA1): F3:3E:78:3C:AC:DF:F4:A2:CC:AC:67:55:69:56:D7:E5:16:3C:E1:ED

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

CKA_TOKEN CK_BBOOL CK_TRUE

CKA PRIVATE CK BBOOL CK FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "Certum EC-384 CA"

CKA CERTIFICATE TYPE CK CERTIFICATE TYPE

CKC_X_509

CKA SUBJECT MULTILINE OCTAL

 $\label{eq:condition} $$ \000164\001\006\003\125\004\006\023\002\120\114\061\041\060\037\006\003\125\004\012\023\030\101\163\163\145\143\157\040\104\141\164\141\040\123\171\163\164\145\155\163\040\123\056\101\056\061\047\060\045\006\003\125\004\013\023\036\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171\061\031\060\027\006\003\125\004\003\023\020\103\145\162\164\165\155\040\105\103\055\063\070\064\040\103\101$

END

CKA ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

 $\label{eq:condition} $$ \000164\001\006\003\125\004\006\023\002\120\114\061\041\060\037\006\003\125\004\012\023\030\101\163\163\145\143\157\040\104\141\164\141\040\123\171\163\164\145\155\163\040\123\056\101\056\061\047\060\045\006\003\125\004\013\023\036\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171\061\031\060\027\006\003\125\004\003\023\020\103\145\162\164\165\155\040\105\103\055\063\070\064\040\103\101$

END

CKA_SERIAL_NUMBER

MULTILINE OCTAL

 $\label{eq:condition} $$ \002\020\170\217\047\134\201\022\122\040\245\004\320\055\335\272\163\364$

END

CKA VALUE MULTILINE OCTAL

 $\label{eq:condition} $$ \060\202\002\145\060\202\001\353\240\003\002\001\002\002\002\170$ \217\047\134\201\022\122\040\245\004\320\055\335\272\163\364\060 \012\006\010\052\206\110\316\075\004\003\003\060\164\061\013\060 $\label{eq:condition} $$ \004\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 $\label{eq:condition} $$ 0.045 \times 0.03 \times 1.25 \times 0.04 \times 0.13 \times 0.03 \times 1.03 \times 1.045 \times 0.045 \times 0.03 \times 1.03 \times 0.03 \times 0$ \145\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164 \150\157\162\151\164\171\061\031\060\027\006\003\125\004\003\023 \020\103\145\162\164\165\155\040\105\103\055\063\070\064\040\103 \101\060\036\027\015\061\070\060\063\062\066\060\067\062\064\065 \064\132\027\015\064\063\060\063\062\066\060\067\062\064\065\064 \132\060\164\061\013\060\011\006\003\125\004\006\023\002\120\114 \061\041\060\037\006\003\125\004\012\023\030\101\163\163\145\143 $\label{eq:condition} $$ \frac{157}040\\104\\141\\164\\141\\040\\123\\171\\163\\164\\145\\155\\163\\040\\123$ \056\101\056\061\047\060\045\006\003\125\004\013\023\036\103\145 \162\164\165\155\040\103\145\162\164\151\146\151\143\141\164\151 $\label{eq:continuous} $$ \frac{157}{156}040\\101\\165\\164\\150\\157\\162\\151\\164\\171\\061\\031\\060\\027$ \006\003\125\004\003\023\020\103\145\162\164\165\155\040\105\103 \055\063\070\064\040\103\101\060\166\060\020\006\007\052\206\110 \316\075\002\001\006\005\053\201\004\000\042\003\142\000\004\304 \050\216\253\030\133\152\276\156\144\067\143\344\315\354\253\072 $\label{eq:condition} $$ 367\314\241\270\016\202\111\327\206\051\237\241\224\362\343\140 $$$ \170\230\201\170\006\115\362\354\232\016\127\140\203\237\264\346 \027\057\032\263\135\002\133\211\043\074\302\021\005\052\247\210 $\label{eq:condition} $$ \023\030\363\120\204\327\275\064\054\047\211\125\377\316\114\347 $$$ \337\246\037\050\304\360\124\303\271\174\267\123\255\353\302\243 \102\060\100\060\017\006\003\125\035\023\001\001\377\004\005\060 \003\001\001\377\060\035\006\003\125\035\016\004\026\004\024\215 \006\146\164\044\166\072\363\211\367\274\326\275\107\175\057\274 \020\137\113\060\016\006\003\125\035\017\001\001\377\004\004\003 \002\001\006\060\012\006\010\052\206\110\316\075\004\003\003\003 \150\000\060\145\002\060\003\125\055\246\346\030\304\174\357\311 $\label{eq:condition} $$ 120\156\301\047\017\234\207\257\156\325\033\010\030\275\222\051 $$$ \301\357\224\221\170\322\072\034\125\211\142\345\033\011\036\272 \144\153\361\166\264\324\002\061\000\264\102\204\231\377\253\347 \236\373\221\227\047\135\334\260\133\060\161\316\136\070\032\152 \331\045\347\352\367\141\222\126\370\352\332\066\302\207\145\226 \056\162\045\057\177\337\303\023\311

END

CKA_NSS_MOZILLA_CA_POLICY

CK_BBOOL CK_TRUE

CKA_NSS_SERVER_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
\label{eq:condition} $$ 363 \times 170 
\026\074\341\355
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\266\145\263\226\140\227\022\241\354\116\341\075\243\306\311\361
END
CKA_ISSUER MULTILINE_OCTAL
\060\164\061\013\060\011\006\003\125\004\006\023\002\120\114\061
\041\060\037\006\003\125\004\012\023\030\101\163\163\145\143\157
\\ \\ 040\\ \\ 104\\ \\ 141\\ \\ 164\\ \\ 141\\ \\ 040\\ \\ 123\\ \\ 171\\ \\ 163\\ \\ 164\\ \\ 145\\ \\ 155\\ \\ 163\\ \\ 040\\ \\ 123\\ \\ 056
\101\056\061\047\060\045\006\003\125\004\013\023\036\103\145\162
\164\165\155\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171\061\031\060\027\006
\003\125\004\003\023\020\103\145\162\164\165\155\040\105\103\055
\063\070\064\040\103\101
END
CKA_SERIAL_NUMBER
 MULTILINE OCTAL
\002\020\170\217\047\134\201\022\122\040\245\004\320\055\335\272
\163\364
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
# Certificate "Certum Trusted Root CA"
# Issuer: CN=Certum Trusted Root CA,OU=Certum Certification Authority,O=Asseco Data Systems S.A.,C=PL
```

- # Serial Number:1e:bf:59:50:b8:c9:80:37:4c:06:f7:eb:55:4f:b5:ed
- # Subject: CN=Certum Trusted Root CA,OU=Certum Certification Authority,O=Asseco Data Systems S.A.,C=PL
- # Not Valid Before: Fri Mar
- 16 12:10:13 2018
- # Not Valid After: Mon Mar 16 12:10:13 2043
- # Fingerprint (SHA-256):
- FE:76:96:57:38:55:77:3E:37:A9:5E:7A:D4:D9:CC:96:C3:01:57:C1:5D:31:76:5B:A9:B1:57:04:E1:AE:78:FD
- # Fingerprint (SHA1): C8:83:44:C0:18:AE:9F:CC:F1:87:B7:8F:22:D1:C5:D7:45:84:BA:E5
- CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
- CKA TOKEN CK BBOOL CK TRUE
- CKA_PRIVATE CK_BBOOL CK_FALSE
- CKA_MODIFIABLE CK_BBOOL CK_FALSE
- CKA LABEL UTF8 "Certum Trusted Root CA"
- CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
- CKA_SUBJECT MULTILINE_OCTAL
- $\label{eq:condition} $$ \060\172\061\013\060\011\006\003\125\004\006\023\002\120\114\061 $$$
- $\label{eq:condition} $$ \041\060\037\006\003\125\004\012\023\030\101\163\163\145\143\157 $$$
- \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\037\060\035\006
- \003\125\004\003\023\026\103\145\162\164\165\155\040\124\162\165
- \163\164\145\144\040\122\157\157\164\040\103\101

END

CKA_ID

UTF8 "0"

CKA ISSUER MULTILINE OCTAL

 $\label{eq:condition} $$ \060\172\061\013\060\011\006\003\125\004\006\023\002\120\114\061 $$$

\041\060\037\006\003\125\004\012\023\030\101\163\163\145\143\157

\040\104\141\164\141\040\123\171\163\164\145\155\163\040\123\056

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

\164\165\155\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171\061\037\060\035\006

 $\label{eq:condition} $$ \003\125\004\003\023\026\103\145\162\164\165\155\040\124\162\165$

 $\label{eq:condition} $$ 163\164\145\144\040\122\157\157\164\040\103\101$$

END

$CKA_SERIAL_NUMBER\ MULTILINE_OCTAL$

\002\020\036\277\131\120\270\311\200\067\114\006\367\353\125\117 \265\355

END

CKA_VALUE MULTILINE_OCTAL

 $\label{eq:condition} $$ \0002005\300\060\202\003\250\240\003\002\001\002\002\002\036\277\131\120\270\311\200\067\114\006\367\353\125\117\265\355\060\015\006\011\052\206\110\206\367\015\001\001\015\005\000\060\172\061\013\060\011\006\003\125\004\006\023\002\120\114\061\041\060\037\006\003\125\004\012\023\030\101\163\163\145\143\157\040\104\141\164\141\040\123\171\163\164\145\155\163\040\123\056\101\056\061\047\060\045\006\003\125\004\013\023\036\103\145\162\164\165$

\155\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040 \101\165\164\150\157\162\151\164\171\061\037\060\035\006\003\125 \004\003\023\026\103\145\162\164\165\155\040\124\162\165\163\164 \145\144\040\122\157\157\164\040\103\101\060\036\027\015\061\070 \060\063\061\066\061\062\061\060\061\063\132\027\015\064\063\060 \006\003\125\004\006\023\002\120\114\061\041\060\037\006\003\125 \004\012\023\030\101\163\163\145\143\157\040\104\141\164\141\040 \123\171\163\164\145\155\163\040\123\056\101\056\061\047\060\045 \006\003\125\004\013\023\036\103\145\162\164\165\155\040\103\145 \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 $\label{eq:condition} $$ \frac{157}{157}\frac{64}{040}\frac{103}{101}\frac{060}{202}\frac{002}{042}\frac{060}{015}\frac{011}{052}\frac{206}{206} $$$ $\label{eq:condition} $$ \frac{110}{206}\frac{367}{015}\frac{001}{001}\frac{001}{005}\frac{000}{003}\frac{202}{002}\frac{017}{000}\frac{060}{202} $$$ \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:condition} $$ \052\330\105\361\221\336\337\073\320\200\002\214\317\070\017\352 $$$ \247\134\170\021\244\301\310\205\134\045\323\323\262\347\045\317 \021\124\227\253\065\300\036\166\034\357\000\123\237\071\334\024 $\label{eq:condition} $$ \245\054\042\045\263\162\162\374\215\263\345\076\010\036\024\052$ \067\013\210\074\312\260\364\310\302\241\256\274\301\276\051\147 \125\342\374\255\131\134\376\275\127\054\260\220\215\302\355\067 \266\174\231\210\265\325\003\232\075\025\015\075\072\250\250\105 \360\225\116\045\131\035\315\230\151\273\323\314\062\311\215\357 \201\376\255\175\211\273\272\140\023\312\145\225\147\240\363\031 \366\003\126\324\152\323\047\342\241\255\203\360\112\022\042\167 \034\005\163\342\031\161\102\300\354\165\106\232\220\130\340\152 $\label{eq:condition} $$ \216\053\245\106\060\004\216\031\262\027\343\276\251\272\177\126 $$$ \361\044\003\327\262\041\050\166\016\066\060\114\171\325\101\232 \232\250\270\065\272\014\072\362\104\033\040\210\367\305\045\327 \075\306\343\076\103\335\207\376\304\352\365\123\076\114\145\377 \073\112\313\170\132\153\027\137\015\307\303\117\116\232\052\242 \355\127\115\042\342\106\232\077\017\221\064\044\175\125\343\214 \225\067\323\032\360\011\053\054\322\311\215\264\015\000\253\147 \051\050\330\001\365\031\004\266\035\276\166\376\162\134\304\205 \312\322\200\101\337\005\250\243\325\204\220\117\013\363\340\077 \233\031\322\067\211\077\362\173\122\034\214\366\341\367\074\007 \227\214\016\242\131\201\014\262\220\075\323\343\131\106\355\017 \251\247\336\200\153\132\252\007\266\031\313\274\127\363\227\041 \172\014\261\053\164\076\353\332\247\147\055\114\304\230\236\066 \011\166\146\146\374\032\077\352\110\124\034\276\060\275\200\120 \277\174\265\316\000\366\014\141\331\347\044\003\340\343\001\201 \016\275\330\205\064\210\275\262\066\250\173\134\010\345\104\200 \214\157\370\057\325\041\312\035\034\320\373\304\265\207\321\072 \116\307\166\265\065\110\265\002\003\001\000\001\243\102\060\100

\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001 \377\060\035\006\003\125\035\016\004\026\004\024\214\373\034\165 \274\002\323\237\116\056\110\331\371\140\124\252\304\263\117\372 \060\015\006\011\052\206\110\206\367\015\001\001\015\005\000\003 \202\002\001\000\110\242\325\000\013\056\320\077\274\034\325\265 \124\111\036\132\153\364\344\362\340\100\067\340\314\024\173\271 \311\372\065\265\165\027\223\152\005\151\205\234\315\117\031\170 \133\031\201\363\143\076\303\316\133\217\365\057\136\001\166\023 \077\054\000\271\315\226\122\071\111\155\004\116\305\351\017\206 $\label{eq:condition} $$ \015\341\372\263\137\202\022\361\072\316\146\006\044\064\053\350 $$$ \314\312\347\151\334\207\235\302\064\327\171\321\323\167\270\252 \131\130\376\235\046\372\070\206\076\235\212\207\144\127\345\027 $\label{eq:condition} $$ \072\342\371\215\271\343\063\170\301\220\330\270\335\267\203\121 $$$ \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 $\label{eq:condition} $$ \207\200\052\274\011\214\252\072\023\137\350\064\171\120\301\020 $$$ \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 $\label{eq:condition} $\324\077\347\117\272\271\245\223\105\034\146\037\041\372\144\136$$ \157\340\166\224\062\313\165\365\156\345\366\217\307\270\244\314 \250\226\175\144\373\044\132\112\003\154\153\070\306\350\003\103 \232\367\127\271\263\051\151\223\070\364\003\362\273\373\202\153 \007\040\321\122\037\232\144\002\173\230\146\333\134\115\132\017 \320\204\225\240\074\024\103\006\312\312\333\270\101\066\332\152 \104\147\207\257\257\343\105\021\025\151\010\262\276\026\071\227 \044\157\022\105\321\147\135\011\250\311\025\332\372\322\246\137 \023\141\037\277\205\254\264\255\255\005\224\010\203\036\165\027 \323\161\073\223\120\043\131\240\355\074\221\124\235\166\000\305 \303\270\070\333

END

CKA_NSS_MOZILLA_CA_POLICY

CK_BBOOL CK_TRUE

CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

[#] Trust for "Certum Trusted Root CA"

[#] Issuer: CN=Certum Trusted Root CA,OU=Certum Certification Authority,O=Asseco Data Systems S.A.,C=PL # Serial

```
Number:1e:bf:59:50:b8:c9:80:37:4c:06:f7:eb:55:4f:b5:ed
# Subject: CN=Certum Trusted Root CA,OU=Certum Certification Authority,O=Asseco Data Systems S.A.,C=PL
# Not Valid Before: Fri Mar 16 12:10:13 2018
# Not Valid After: Mon Mar 16 12:10:13 2043
# Fingerprint (SHA-256):
FE:76:96:57:38:55:77:3E:37:A9:5E:7A:D4:D9:CC:96:C3:01:57:C1:5D:31:76:5B:A9:B1:57:04:E1:AE:78:FD
# Fingerprint (SHA1): C8:83:44:C0:18:AE:9F:CC:F1:87:B7:8F:22:D1:C5:D7:45:84:BA:E5
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA PRIVATE CK BBOOL CK FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certum Trusted Root CA"
CKA CERT SHA1 HASH MULTILINE OCTAL
\310\203\104\300\030\256\237\314\361\207\267\217\042\321\305\327
\105\204\272\345
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\121\341\302\347\376\114\204\257\131\016\057\364\124\157\352\051
END
CKA_ISSUER MULTILINE_OCTAL
\060\172\061\013\060\011\006\003\125\004\006\023\002\120\114\061
\\ \\041\\060\\037\\006\\003\\125\\004\\012\\023\\030\\101\\163\\163\\145\\143\\157
\\ \\ 040\\ \\ 104\\ \\ 141\\ \\ 164\\ \\ 141\\ \\ 040\\ \\ 123\\ \\ 171\\ \\ 163\\ \\ 164\\ \\ 145\\ \\ 155\\ \\ 163\\ \\ 040\\ \\ 123\\ \\ 056
\101\056\061\047\060\045\006\003\125\004\013\023\036\103\145\162
\164\165\155\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171\061\037\060\035\006
\003\125\004\003\023\026\103\145\162\164\165\155\040\124\162\165
\163\164\145\144\040\122\157\157\164\040\103\101
END
CKA SERIAL NUMBER
MULTILINE_OCTAL
\label{eq:condition} $$ \002\020\036\277\131\120\270\311\200\067\114\006\367\353\125\117 $$
\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{lem:condition} $$ \000\141\001\006\003\125\004\006\023\002\124\116\061\067\060\065\006\003\125\004\012\014\056\101\147\145\156\143\145\040\116\141\151\157\156\141\154\145\040\144\145\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\105\154\145\143\141\164\165\156\151\161\165\145\061\031\060\027\006\003\125\004\003\014\020\124\165\156\124\162\165\163\164\040\122\157\157\164$

\040\103\101

END

CKA ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

END

CKA SERIAL NUMBER

MULTILINE_OCTAL

\002\024\023\002\325\342\100\114\222\106\206\026\147\135\264\273 \273\262\153\076\374\023

END

CKA_VALUE MULTILINE_OCTAL

\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 $\label{eq:condition} $$ \000\202\002\002\000\000\303\315\323\374\275\004\123$ \335\014\040\072\325\210\056\005\113\101\365\203\202\176\367\131 \237\236\236\143\350\163\332\366\006\251\117\037\264\371\013\037 $\label{eq:condition} $$ \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 $\label{eq:condition} $$ \00124\330\365\200\105\234\071\255\234\311\045\004\115\232\220 $$$ \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 $\label{eq:condition} $$ \frac{352}{235} \frac{35}{205} \frac{162}{354} \frac{21}{273} \frac{65}{350} \frac{37}{047} \frac{277}{301} \frac{241}{307}$ \273\110\026\335\126\327\314\116\240\341\271\254\333\325\203\031 $\label{eq:condition} $$ \032\205\321\224\227\327\312\243\145\013\363\070\371\002\256\335 $$$ \366\147\317\311\077\365\212\054\107\032\231\157\005\015\375\320 \035\202\061\374\051\314\000\130\227\221\114\200\000\034\063\205 \226\057\313\101\302\213\020\204\303\011\044\211\037\265\017\331 \331\167\107\030\222\224\140\134\307\231\003\074\376\367\225\247 \175\120\241\200\302\251\203\255\130\226\125\041\333\206\131\324 \257\306\274\335\201\156\007\333\140\142\376\354\020\156\332\150 \001\364\203\033\251\076\242\133\043\327\144\306\337\334\242\175 \330\113\272\202\322\121\370\146\277\006\106\344\171\052\046\066 \171\217\037\116\231\035\262\217\014\016\034\377\311\135\300\375 \220\020\246\261\067\363\315\072\044\156\264\205\220\277\200\271 $\label{eq:condition} $$ \014\214\325\233\326\310\361\126\077\032\200\211\172\251\342\033$ \062\121\054\076\362\337\173\366\135\172\051\031\216\345\310\275 \066\161\213\135\114\302\035\077\255\130\242\317\075\160\115\246 $\label{eq:condition} $$ 120\230\045\334\043\371\270\130\101\010\161\277\117\270\204\240 $$$ \217\000\124\025\374\221\155\130\247\226\073\353\113\226\047\315 \153\242\241\206\254\015\174\124\346\146\114\146\137\220\276\041 \232\002\106\055\344\203\302\200\271\317\113\076\350\177\074\001 \354\217\136\315\177\322\050\102\001\225\212\342\227\075\020\041 \175\366\235\034\305\064\241\354\054\016\012\122\054\022\125\160 \044\075\313\302\024\065\103\135\047\116\276\300\275\252\174\226 \347\374\236\141\255\104\323\000\227\002\003\001\000\001\243\143 $\label{eq:condition} $$ \000\141\060\035\006\003\125\035\016\004\026\004\024\006\232\233$ \037\123\175\361\365\244\310\323\206\076\241\163\131\264\367\104 \041\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001 \001\377\060\037\006\003\125\035\043\004\030\060\026\200\024\006 \232\233\037\123\175\361\365\244\310\323\206\076\241\163\131\264 \367\104\041\060\016\006\003\125\035\017\001\001\377\004\004\003 $\label{eq:condition} $$ \002\001\006\060\015\006\011\052\206\110\206\367\015\001\001\013$ \005\000\003\202\002\001\000\252\005\156\266\335\025\311\277\263 \306\040\366\006\107\260\206\223\045\323\215\271\310\000\077\227 \365\122\047\210\161\311\164\375\353\312\144\333\133\357\036\135

\272\277\321\353\356\134\151\272\026\310\363\271\217\323\066\056 \100\111\007\015\131\336\213\020\260\111\005\342\377\221\077\113 \267\335\002\216\370\201\050\134\314\334\155\257\137\024\234\175 \130\170\015\366\200\011\271\351\016\227\051\031\270\267\353\370 \026\313\125\022\344\306\175\273\304\354\370\265\034\116\076\147 \277\305\137\033\155\155\107\050\252\004\130\141\326\166\277\042 \177\320\007\152\247\144\123\360\227\215\235\200\077\273\301\007 \333\145\257\346\233\062\232\303\124\223\304\034\010\303\104\373 \173\143\021\103\321\152\032\141\152\171\155\220\117\051\216\107 \005\301\022\151\151\326\306\066\061\341\374\372\200\272\134\117 \304\353\267\062\254\370\165\141\027\327\020\031\271\361\322\011 \357\172\102\235\133\132\013\324\306\225\116\052\316\377\007\327 \117\176\030\006\210\361\031\265\331\230\273\256\161\304\034\347 \164\131\130\357\014\211\317\213\037\165\223\032\004\024\222\110 \120\251\353\127\051\000\026\343\066\034\310\370\277\360\063\325 \101\017\304\314\074\335\351\063\103\001\221\020\053\036\321\271 \135\315\062\031\213\217\214\040\167\327\042\304\102\334\204\026 \233\045\155\350\264\125\161\177\260\174\263\323\161\111\271\317 \122\244\004\077\334\075\240\273\257\063\236\012\060\140\216\333 \235\135\224\250\275\140\347\142\200\166\201\203\014\214\314\060 \106\111\342\014\322\250\257\353\141\161\357\347\042\142\251\367 \134\144\154\237\026\214\147\066\047\105\365\011\173\277\366\020 $\label{eq:condition} $$ \012\361\260\215\124\103\214\004\272\243\077\357\342\065\307\371 $$$ \164\340\157\064\101\320\277\163\145\127\040\371\233\147\172\146 \150\044\116\200\145\275\020\231\006\131\362\145\257\270\306\107 \273\375\220\170\213\101\163\056\257\125\037\334\073\222\162\156 \204\323\320\141\114\015\314\166\127\342\055\205\042\025\066\015 \353\001\235\353\330\353\304\204\231\373\300\014\314\062\350\343 \167\332\203\104\213\236\125\050\300\213\130\323\220\076\116\033 \000\361\025\255\203\053\232

END

CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_TRUE
CKA_NSS_SERVER_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
\label{eq:condition} $$ \060\141\061\013\060\011\006\003\125\004\006\023\002\124\116\061 $$
\067\060\065\006\003\125\004\012\014\056\101\147\145\156\143\145
\\ \\ 040\\ \\ 116\\ \\ 141\\ \\ 164\\ \\ 151\\ \\ 157\\ \\ 156\\ \\ 141\\ \\ 154\\ \\ 145\\ \\ 040\\ \\ 144\\ \\ 145\\ \\ 040\\ \\ 103\\ \\ 145
\164\162\157\156\151\161\165\145\061\031\060\027\006\003\125\004
\label{eq:condition} $$ \003\014\020\124\165\156\124\162\165\163\164\040\122\157\157\164$
\040\103\101
END
CKA_SERIAL_NUMBER
MULTILINE OCTAL
\002\024\023\002\325\342\100\114\222\106\206\026\147\135\264\273
\273\262\153\076\374\023
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA TRUST EMAIL PROTECTION CK TRUST CKT NSS MUST VERIFY TRUST
CKA TRUST CODE SIGNING CK TRUST CKT NSS MUST VERIFY TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
# Certificate "HARICA TLS RSA Root CA 2021"
# Issuer: CN=HARICA TLS RSA Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Serial Number:39:ca:93:1c:ef:43:f3:c6:8e:93:c7:f4:64:89:38:7e
# Subject: CN=HARICA TLS RSA Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Not Valid Before: Fri Feb 19 10:55:38 2021
# Not Valid After: Mon Feb 13 10:55:37 2045
# Fingerprint (SHA-256):
D9:5D:0E:8E:DA:79:52:5B:F9:BE:B1:1B:14:D2:10:0D:32:94:98:5F:0C:62:D9:FA:BD:9C:D9:99:EC:CB:7B:1D
# Fingerprint (SHA1): 02:2D:05:82:FA:88:CE:14:0C:06:79:DE:7F:14:10:E9:45:D7:A5:6D
CKA_CLASS CK_OBJECT_CLASS
CKO CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "HARICA TLS RSA Root CA 2021"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
```

 $\label{eq:condition} $$ \000154\061\013\060\011\006\003\125\004\006\023\002\107\122\061 $$ \067\060\065\006\003\125\004\012\014\056\110\145\154\154\154\145\156 $$ \151\143\040\101\143\141\144\145\155\151\143\040\141\156\144\040 $$ \122\145\163\145\141\162\143\150\040\111\156\163\164\151\164\165 $$ \164\151\157\156\163\040\103\101\061\044\060\042\006\003\125\004 $$ \003\014\033\110\101\122\111\103\101\040\124\114\123\040\122\123 $$ \101\040\122\157\157\164\040\103\101\040\062\060\062\061 $$$

END

CKA ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

 $\label{eq:condition} $$ \000154\061\013\060\011\006\003\125\004\006\023\002\107\122\061 $$ \067\060\065\006\003\125\004\012\014\056\110\145\154\154\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\155\163\164\151\164\165 $$ \164\151\157\156\163\040\103\101\061\044\060\042\006\003\125\004 $$ \003\014\033\110\101\122\111\103\101\040\124\114\123\040\122\123 $$ \101\040\122\157\157\164\040\103\101\040\062\060\062\061 $$$

END

CKA SERIAL NUMBER

MULTILINE_OCTAL

\002\020\071\312\223\034\357\103\363\306\216\223\307\364\144\211 \070\176

END

CKA_VALUE MULTILINE_OCTAL

\060\202\005\244\060\202\003\214\240\003\002\001\002\002\020\071 \312\223\034\357\103\363\306\216\223\307\364\144\211\070\176\060 \015\006\011\052\206\110\206\367\015\001\001\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 \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:condition} $$ \003\125\004\012\014\056\110\145\154\154\154\145\156\151\143\040\101 $$$ \143\141\144\145\155\151\143\040\141\156\144\040\122\145\163\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\002\042\060\015 \006\011\052\206\110\206\367\015\001\001\001\005\000\003\202\002 $\label{eq:condition} $$ \017\000\060\202\002\012\002\202\001\000\213\302\347\257\145 $$$ \233\005\147\226\311\015\044\271\320\016\144\374\316\342\044\030 \054\204\177\167\121\313\004\021\066\270\136\355\151\161\247\236 \344\045\011\227\147\301\107\302\317\221\026\066\142\075\070\004

\341\121\202\377\254\322\264\151\335\056\354\021\243\105\356\153 \153\073\114\277\214\215\244\036\235\021\271\351\070\371\172\016 \014\230\342\043\035\321\116\143\324\347\270\101\104\373\153\257 \153\332\037\323\305\221\210\133\244\211\222\321\201\346\214\071 \130\240\326\151\103\251\255\230\122\130\156\333\012\373\153\317 \150\372\343\244\136\072\105\163\230\007\352\137\002\162\336\014 \245\263\237\256\251\035\267\035\263\374\212\131\347\156\162\145 \255\365\060\224\043\007\363\202\026\113\065\230\234\123\273\057 \312\344\132\331\307\215\035\374\230\231\373\054\244\202\153\360 \052\037\216\013\137\161\134\134\256\102\173\051\211\201\313\003 \243\231\312\210\236\013\100\011\101\063\333\346\130\172\375\256 \231\160\300\132\017\326\023\206\161\057\166\151\374\220\335\333 \055\156\321\362\233\365\032\153\236\157\025\214\172\360\113\050 \240\042\070\200\044\154\066\244\073\362\060\221\363\170\023\317 $\label{eq:condition} $$ 301\077\065\253\361\035\021\043\265\103\042\236\001\222\267\030 $$$ \002\345\021\321\202\333\025\000\314\141\067\301\052\174\232\341 \320\272\263\120\106\356\202\254\235\061\370\373\043\342\003\000 \110\160\243\011\046\171\025\123\140\363\070\134\255\070\352\201 \000\143\024\271\063\136\335\013\333\240\105\007\032\063\011\370 \115\264\247\002\246\151\364\302\131\005\210\145\205\126\256\113 \313\340\336\074\175\055\032\310\351\373\037\243\141\112\326\052 \023\255\167\114\032\030\233\221\017\130\330\006\124\305\227\370 \252\077\040\212\246\205\246\167\366\246\374\034\342\356\156\224 \063\052\203\120\204\012\345\117\206\370\120\105\170\000\201\353 \133\150\343\046\215\314\173\134\121\364\024\054\100\276\032\140 \035\172\162\141\035\037\143\055\210\252\316\242\105\220\010\374 \153\276\263\120\052\132\375\250\110\030\106\326\220\100\222\220 $\label{eq:condition} $$ \012\204\136\150\061\370\353\355\015\323\035\306\175\231\030\125$ \126\047\145\056\215\105\305\044\354\316\343\002\003\001\000\001 \243\102\060\100\060\017\006\003\125\035\023\001\001\377\004\005 \012\110\043\246\140\244\222\012\063\352\223\133\305\127\352\045 \115\275\022\356\060\016\006\003\125\035\017\001\001\377\004\004 \003\002\001\206\060\015\006\011\052\206\110\206\367\015\001\001 \013\005\000\003\202\002\001\000\076\220\110\252\156\142\025\045 $\label{eq:condition} $$ 146\173\014\325\214\213\211\235\327\355\116\007\357\234\320\024$$ \137\136\120\275\150\226\220\244\024\021\252\150\155\011\065\071 $\label{eq:condition} $$ 100\011\332\364\011\054\064\245\173\131\204\111\051\227\164\310 $$$ $\label{eq:condition} $$ \007\036\107\155\362\316\034\120\046\343\236\075\100\123\077\367 $$$ \177\226\166\020\305\106\245\320\040\113\120\364\065\073\030\364 \125\152\101\033\107\006\150\074\273\011\010\142\331\137\125\102 \252\254\123\205\254\225\126\066\126\253\344\005\214\305\250\332 $\label{eq:condition} $$ \037\243\151\275\123\017\304\377\334\312\343\176\362\114\210\206$ \107\106\032\363\000\365\200\221\242\334\103\102\224\233\040\360 \321\315\262\353\054\123\302\123\170\112\117\004\224\101\232\217 \047\062\301\345\111\031\277\361\362\302\213\250\012\071\061\050 \264\175\142\066\054\115\354\037\063\266\176\167\155\176\120\360 \237\016\327\021\217\317\030\305\343\047\376\046\357\005\235\317

\317\067\305\320\173\332\073\260\026\204\014\072\223\326\276\027 \333\017\076\016\031\170\011\307\251\002\162\042\113\367\067\166 \272\165\304\205\003\132\143\325\261\165\005\302\271\275\224\255 \214\025\231\247\223\175\366\305\363\252\164\317\004\205\224\230 \000\364\342\371\312\044\145\277\340\142\257\310\305\372\262\311 \236\126\110\332\171\375\226\166\025\276\243\216\126\304\263\064 \374\276\107\364\301\264\250\374\325\060\210\150\356\313\256\311 $\label{eq:condition} $$ 143\304\166\276\254\070\030\341\136\134\317\256\072\042\121\353$ \321\213\263\363\053\063\007\124\207\372\264\262\023\173\272\123 \004\142\001\235\361\300\117\356\341\072\324\213\040\020\372\002 \127\346\357\301\013\267\220\106\234\031\051\214\334\157\240\112 $\label{eq:condition} $$ \frac{151}{151}\frac{224}{267}\frac{44}{145}\frac{377}{254}\frac{377}{316}\frac{316}{001}\frac{373}{041}\frac{375}{056} $$$ \150\370\233\362\245\317\061\070\134\025\252\346\227\000\301\337 $\label{eq:condition} $$ \frac{245}247 \cdot 071 \cdot 252 \cdot 351 \cdot 204 \cdot 177 \cdot 074 \cdot 121 \cdot 250 \cdot 072 \cdot 331 \cdot 224 \cdot 133 \cdot 214 \cdot 132 \cdot 124 \cdot 124$ \277\117\010\161\345\333\250\134\324\322\246\376\000\243\306\026 \307\017\350\200\316\034\050\144\164\031\010\323\102\343\316\000 \135\177\261\334\023\260\341\005\313\321\040\252\206\164\236\071 \347\221\375\377\133\326\367\255\246\057\003\013\155\343\127\124

END

CKA NSS MOZILLA CA POLICY

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

\105\327\245\155

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:condition} $$ \002\05\005\202\372\210\316\024\014\006\171\336\177\024\020\351 $$$

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL

\145\107\233\130\206\335\054\360\374\242\204\037\036\226\304\221

END

CKA_ISSUER MULTILINE_OCTAL

```
\060\154\061\013\060\011\006\003\125\004\006\023\002\107\122\061
\067\060\065\006\003\125\004\012\014\056\110\145\154\154\145\156
\151\143\040\101\143\141\144\145\155\151\143\040\141\156\144\040
\122\145\163\145\141\162\143\150\040\111\156\163\164\151\164\165
\164\151\157\156\163\040\103\101\061\044\060\042\006\003\125\004
\003\014\033\110\101\122\111\103\101\040\124\114\123\040\122\123
\101\040\122\157\157\164\040\103\101\040\062\060\062\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\071\312\223\034\357\103\363\306\216\223\307\364\144\211
\070\176
END
CKA TRUST SERVER AUTH CK TRUST CKT NSS TRUSTED DELEGATOR
CKA_TRUST_EMAIL_PROTECTION
 CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
# Certificate "HARICA TLS ECC Root CA 2021"
# Issuer: CN=HARICA TLS ECC Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Serial Number:67:74:9d:8d:77:d8:3b:6a:db:22:f4:ff:59:e2:bf:ce
# Subject: CN=HARICA TLS ECC Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Not Valid Before: Fri Feb 19 11:01:10 2021
# Not Valid After: Mon Feb 13 11:01:09 2045
# Fingerprint (SHA-256):
3F:99:CC:47:4A:CF:CE:4D:FE:D5:87:94:66:5E:47:8D:15:47:73:9F:2E:78:0F:1B:B4:CA:9B:13:30:97:D4:01
# Fingerprint (SHA1): BC:B0:C1:9D:E9:98:92:70:19:38:57:E9:8D:A7:B4:5D:6E:EE:01:48
CKA CLASS CK OBJECT CLASS CKO CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA PRIVATE CK BBOOL CK FALSE
CKA MODIFIABLE CK BBOOL CK FALSE
CKA LABEL UTF8 "HARICA TLS ECC Root CA 2021"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA SUBJECT MULTILINE OCTAL
\060\154\061\013\060\011\006\003\125\004\006\023\002\107\122\061
\\ \begin{tabular}{l} $$ \begin{tabular}{l} $\langle 067 \rangle 060 \rangle 065 \rangle 006 \rangle 003 \rangle 125 \rangle 004 \rangle 012 \rangle 014 \rangle 056 \rangle 110 \rangle 145 \rangle 154 \rangle 156 \rangle 006 \rangle 
\label{eq:condition} $$ \frac{151}143\\040\\101\\1143\\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
\103\040\122\157\157\164\040\103\101\040\062\060\062\061
END
CKA ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\154\061\013\060\011\006\003\125\004\006\023\002\107\122\061
```

END

CKA SERIAL NUMBER MULTILINE OCTAL

 $\label{eq:condition} $$ \020\147\164\235\215\167\330\073\152\333\042\364\377\131\342\277\316$

END

CKA VALUE

MULTILINE OCTAL

 $\label{eq:condition} $$ \060\202\002\124\060\202\001\333\240\003\002\001\002\002\002\147 $$$ \164\235\215\167\330\073\152\333\042\364\377\131\342\277\316\060 \012\006\010\052\206\110\316\075\004\003\003\060\154\061\013\060 \011\006\003\125\004\006\023\002\107\122\061\067\060\065\006\003 \125\004\012\014\056\110\145\154\154\145\156\151\143\040\101\143 \141\144\145\155\151\143\040\141\156\144\040\122\145\163\145\141 \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 $\label{eq:condition} $$ 164\040\103\101\040\062\060\062\061\060\036\027\015\062\061\060$ \062\061\071\061\061\060\061\061\060\132\027\015\064\065\060\062 \061\063\061\061\060\061\060\071\132\060\154\061\013\060\011\006 \003\125\004\006\023\002\107\122\061\067\060\065\006\003\125\004 \012\014\056\110\145\154\154\145\156\151\143\040\101\143\141\144 $\\ 145 \\ 155 \\ 151 \\ 143 \\ 040 \\ 141 \\ 156 \\ 144 \\ 040 \\ 122 \\ 145 \\ 163 \\ 145 \\ 141 \\ 162 \\ 143 \\$ \150\040\111\156\163\164\151\164\165\164\151\157\156\163\040\103 \101\061\044\060\042\006\003\125\004\003\014\033\110\101\122\111 \103\101\040\062\060\062\061\060\166\060\020\006\007\052\206\110 \316\075\002\001\006\005\053\201\004\000\042\003\142\000\004\070 \010\376\261\240\226\322\172\254\257\111\072\320\300\340\303\073 \050\252\361\162\155\145\000\107\210\204\374\232\046\153\252\113 \272\154\004\012\210\136\027\362\125\207\374\060\260\064\342\064 \130\127\032\204\123\351\060\331\251\362\226\164\303\121\037\130 $\label{eq:condition} $$ \frac{111 \cdot 061 \cdot 314 \cdot 230 \cdot 116 \cdot 140 \cdot 021 \cdot 207 \cdot 165 \cdot 323 \cdot 162 \cdot 224 \cdot 220 \cdot 117 \cdot 233 \cdot 020 }{111 \cdot 061 \cdot 314 \cdot 230 \cdot 116 \cdot 140 \cdot 021 \cdot 207 \cdot 165 \cdot 323 \cdot 162 \cdot 224 \cdot 220 \cdot 117 \cdot 233 \cdot 020 }$ $\label{eq:condition} $$ \052\250\170\055\276\220\101\130\220\025\162\247\241\267\243 $$$ $\label{eq:condition} $$ 102\060\100\060\017\006\003\125\035\023\001\001\377\004\005\060 $$$ \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

 $\label{eq:condition} $$ \frac{312\013\226\030\101\033\243\364\060\011\236\265\043\050\015\237\024\266\074\123\242\114\006\151\175\372\154\221\306\052\111\105\346\354\267\023\341\072\154$$

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

 $\label{eq:condition} $$ \060\154\061\013\060\011\006\003\125\004\006\023\002\107\122\061 $$$

 $\\ \\067\\ \\060\\ \\065\\ \\006\\ \\003\\ \\125\\ \\004\\ \\012\\ \\014\\ \\056\\ \\110\\ \\145\\ \\154\\ \\154\\ \\145\\ \\156$

 $\label{eq:condition} $$ 151\143\040\101\143\141\144\145\155\151\143\040\141\156\144\040 $$$

\122\145\163\145\141\162\143\150\040\111\156\163\164\151\164\165

\164\151\157\156\163\040\103\101\061\044\060\042\006\003\125\004

\003\014\033\110\101\122\111\103\101\040\124\114\123\040\105\103

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

END

CKA_SERIAL_NUMBER

MULTILINE OCTAL

\002\020\147\164\235\215\167\330\073\152\333\042\364\377\131\342

\277\316

END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR

CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST

CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST

```
#
# Certificate "HARICA Client RSA Root CA 2021"
# Issuer: CN=HARICA Client RSA Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Serial Number:55:52:f8:1e:db:1b:24:2c:9e:bb:96:18:cd:02:28:3e
# Subject: CN=HARICA Client RSA Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Not Valid Before: Fri Feb 19 10:58:46 2021
# Not Valid After: Mon Feb 13 10:58:45 2045
# Fingerprint (SHA-256):
1B:E7:AB:E3:06:86:B1:63:48:AF:D1:C6:1B:68:66:A0:EA:7F:48:21:E6:7D:5E:8A:F9:37:CF:80:11:BC:75:0D
# Fingerprint (SHA1):
46:C6:90:0A:77:3A:B6:BC:F4:65:AD:AC:FC:E3:F7:07:00:6E:DE:6E
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA TOKEN CK BBOOL CK TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA MODIFIABLE CK BBOOL CK FALSE
CKA LABEL UTF8 "HARICA Client RSA Root CA 2021"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA SUBJECT MULTILINE OCTAL
\060\157\061\013\060\011\006\003\125\004\006\023\002\107\122\061
\\ \\067\\ \\065\\ \\006\\ \\003\\ \\125\\ \\004\\ \\012\\ \\014\\ \\056\\ \\110\\ \\145\\ \\154\\ \\154\\ \\145\\ \\156
\151\143\040\101\143\141\144\145\155\151\143\040\141\156\144\040
\122\145\163\145\141\162\143\150\040\111\156\163\164\151\164\165
\164\151\157\156\163\040\103\101\061\047\060\045\006\003\125\004
\003\014\036\110\101\122\111\103\101\040\103\154\151\145\156\164
\label{eq:condition} $$ \040\122\123\101\040\122\157\157\164\040\103\101\040\062\060\062
\061
END
CKA_ID UTF8 "0"
CKA ISSUER MULTILINE OCTAL
\060\157\061\013\060\011\006\003\125\004\006\023\002\107\122\061
\067\060\065\006\003\125\004\012\014\056\110\145\154\154\145\156
\151\143\040\101\143\141\144\145\155\151\143\040\141\156\144\040
\122\145\163\145\141\162\143\150\040\111\156\163\164\151\164\165
\164\151\157\156\163\040\103\101\061\047\060\045\006\003\125\004
\003\014\036\110\101\122\111\103\101\040\103\154\151\145\156\164
\label{eq:condition} $$ \040\122\123\101\040\122\157\157\164\040\103\101\040\062\060\062
\061
END
```

CKA_SERIAL_NUMBER

MULTILINE_OCTAL

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

END

CKA_VALUE MULTILINE_OCTAL

\060\202\005\252\060\202\003\222\240\003\002\001\002\002\020\125

\122\370\036\333\033\044\054\236\273\226\030\315\002\050\076\060 \015\006\011\052\206\110\206\367\015\001\001\013\005\000\060\157 \061\013\060\011\006\003\125\004\006\023\002\107\122\061\067\060 \065\006\003\125\004\012\014\056\110\145\154\154\145\156\151\143 \040\101\143\141\144\145\155\151\143\040\141\156\144\040\122\145 \163\145\141\162\143\150\040\111\156\163\164\151\164\165\164\151 \157\156\163\040\103\101\061\047\060\045\006\003\125\004\003\014 \036\110\101\122\111\103\101\040\103\154\151\145\156\164\040\122 \123\101\040\122\157\157\164\040\103\101\040\062\060\062\061\060 \036\027\015\062\061\060\062\061\071\061\060\065\070\064\066\132 \027\015\064\065\060\062\061\063\061\060\065\070\064\065\132\060 \157\061\013\060\011\006\003\125\004\006\023\002\107\122\061\067 \060\065\006\003\125\004\012\014\056\110\145\154\154\145\156\151 $\\ 143 \\ 040 \\ 101 \\ 143 \\ 141 \\ 144 \\ 145 \\ 155 \\ 151 \\ 143 \\ 040 \\ 141 \\ 156 \\ 144 \\ 040 \\ 122 \\$ \145\163\145\141\162\143\150\040\111\156\163\164\151\164\165\164 \151\157\156\163\040\103\101\061\047\060\045\006\003\125\004\003 \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 $\label{eq:condition} $$ \001\005\000\003\202\002\017\000\060\202\002\012\002\202\002\012$ \000\201\333\127\102\220\054\164\065\364\370\270\164\031\115\253 \011\132\167\105\201\163\142\260\065\237\370\320\267\063\000\207 $\label{eq:condition} $$ \023\266\226\253\016\124\022\060\007\274\233\267\110\327\321\031 $$$ \203\256\216\330\251\361\251\000\204\260\214\136\236\350\014\217 \124\151\277\366\324\010\117\046\160\376\030\101\143\032\263\062 \213\100\370\007\253\127\061\360\306\026\166\147\232\264\335\057 \362\321\153\305\320\222\204\221\161\156\017\056\143\351\037\123 \244\335\122\023\314\011\203\051\201\014\305\123\165\104\261\016 \147\123\030\320\303\037\210\113\237\224\044\264\051\274\273\350 \116\375\157\322\025\035\111\334\215\160\362\021\032\040\121\125 $\label{eq:condition} $$ \021\272\210\157\304\367\120\171\326\252\061\342\204\075\136\062$$ \310\167\052\120\161\345\013\057\351\266\352\357\253\012\063\071 \016\375\217\245\147\103\202\216\230\151\011\011\033\100\315\070 \147\107\352\311\354\227\161\022\336\044\365\162\074\321\367\103 \114\046\367\220\262\211\351\105\113\125\075\061\005\172\101\342 \225\272\103\300\027\305\266\205\075\031\215\144\160\363\133\254 \315\237\323\051\165\207\113\225\147\152\246\370\321\335\274\220 $\label{eq:condition} $$ \206\211\103\051\251\067\133\365\135\260\046\132\123\102\166\220 $$$ $\label{eq:condition} $$ \053\317\236\126\154\053\124\317\134\232\145\337\133\213\110\140 $$$ \070\174\373\305\013\317\166\004\143\002\063\052\175\365\203\147 \347\372\306\103\375\053\017\324\046\057\167\244\062\301\044\352 \144\235\277\263\070\161\061\104\362\107\270\242\146\101\241\373 \233\173\274\307\106\152\165\277\132\242\214\350\152\104\301\270 \226\265\300\062\010\055\173\164\065\163\262\312\306\376\257\021 \162\030\366\347\310\302\317\245\052\352\173\326\131\350\174\240 \262\152\100\011\151\016\245\226\333\321\000\271\361\210\156\066 \360\210\262\235\361\122\362\303\174\277\060\211\074\012\151\371 \042\244\145\341\233\340\164\306\261\205\227\226\054\256\224\217

\120\246\071\022\037\276\107\362\201\170\323\165\066\236\175\132 \040\227\342\122\256\231\237\306\174\233\146\363\376\330\317\356 \275\227\006\035\055\205\334\076\066\123\226\173\040\272\350\310 \341\255\226\142\076\021\174\263\000\204\236\247\114\161\253\112 \067\002\003\001\000\001\243\102\060\100\060\017\006\003\125\035 \023\001\001\377\004\005\060\003\001\001\377\060\035\006\003\125 \035\016\004\026\004\024\240\326\007\075\136\044\367\173\240\104 \056\044\122\015\031\252\053\004\221\247\060\016\006\003\125\035 $\label{eq:condition} $$ \017\001\001\377\004\004\003\002\001\206\060\015\006\011\052\206 $$$ \110\206\367\015\001\001\013\005\000\003\202\002\001\000\015\107 \371\011\146\061\122\354\171\356\302\250\362\150\076\355\226\105 $\label{eq:condition} $$ \frac{313}072\\246\\230\\143\\077\\352\\053\\115\\116\\003\\320\\034\\202\\341\\313$ \323\345\326\253\133\147\050\274\235\376\014\231\012\200\125\247 \316\033\043\141\015\260\127\360\376\340\312\276\346\220\333\203 $\label{eq:condition} $$ \054\276\203\216\364\171\266\376\320\015\102\247\130\037\151\352 $$$ \201\365\005\245\376\106\150\353\154\170\311\340\352\347\346\336 $\label{eq:condition} $$ \061\305\322\325\054\202\143\050\235\135\250\032\176\210\346\347 $$$ \053\361\054\325\320\005\236\334\055\275\067\146\324\004\242\247 \255\277\072\302\250\073\255\377\215\235\063\340\271\232\204\241 $\label{eq:condition} $$ \207\037\166\364\202\164\327\016\371\060\110\076\133\210\076\252 $$$ \134\153\326\057\014\350\216\163\302\030\221\203\071\266\146\132 \320\037\140\047\135\115\343\366\072\015\146\120\234\170\173\253 \363\023\020\256\017\057\253\350\144\263\030\040\235\106\065\144 \045\163\352\233\020\134\130\065\211\261\106\110\247\364\254\324 \035\236\133\314\251\245\032\023\117\044\120\252\331\033\155\261 \100\373\235\335\130\164\304\302\157\024\162\354\333\065\237\270 \124\165\105\303\246\310\032\050\065\072\256\145\362\251\230\316 $\label{eq:condition} $$ \257\133\311\070\214\061\073\177\314\334\226\375\342\133\326\320 $$$ \131\364\166\272\013\313\117\203\020\307\100\320\035\140\351\052 \345\110\130\167\014\105\151\276\031\161\004\044\342\343\044\037 \112\310\301\076\231\365\226\230\070\110\045\241\025\260\033\327 \342\204\030\133\366\161\065\232\150\173\100\314\030\134\014\044 \235\324\225\365\231\252\106\352\256\254\277\364\024\031\044\350 \214\354\343\365\274\006\150\212\052\014\005\137\012\227\165\247 \334\176\300\375\327\172\030\337\060\321\070\113\037\260\230\160 \277\314\174\163\360\156\304\061\245\244\227\035\254\277\316\154 \041\112\276\047\043\147\363\006\126\201\012\221\216\266\341\003 $\label{eq:condition} $$ \054\332\064\010\115\116\120\043\255\037\245\305\324\172 $$$ $\label{eq:condition} $$ \352\011\354\247\050\140\213\106\174\265\352\233\335\117\371 $$ $\label{eq:condition} $$ 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_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

```
# Issuer: CN=HARICA Client RSA Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Serial Number:55:52:f8:1e:db:1b:24:2c:9e:bb:96:18:cd:02:28:3e
# Subject: CN=HARICA Client RSA Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Not Valid Before: Fri Feb 19 10:58:46 2021
# Not Valid After: Mon Feb 13 10:58:45 2045
# Fingerprint (SHA-256):
1B:E7:AB:E3:06:86:B1:63:48:AF:D1:C6:1B:68:66:A0:EA:7F:48:21:E6:7D:5E:8A:F9:37:CF:80:11:BC:75:0D
Fingerprint (SHA1): 46:C6:90:0A:77:3A:B6:BC:F4:65:AD:AC:FC:E3:F7:07:00:6E:DE:6E
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA PRIVATE CK BBOOL CK FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "HARICA Client RSA Root CA 2021"
CKA CERT SHA1 HASH MULTILINE OCTAL
\106\306\220\012\167\072\266\274\364\145\255\254\374\343\367\007
\000\156\336\156
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\157\355\134\327\210\314\070\251\334\351\335\331\135\333\330\355
END
CKA_ISSUER MULTILINE_OCTAL
\060\157\061\013\060\011\006\003\125\004\006\023\002\107\122\061
\067\060\065\006\003\125\004\012\014\056\110\145\154\154\145\156
\151\143\040\101\143\141\144\145\155\151\143\040\141\156\144\040
\122\145\163\145\141\162\143\150\040\111\156\163\164\151\164\165
\003\014\036\110\101\122\111\103\101\040\103\154\151\145\156\164
\040\122\123\101\040\122\157\157\164\040\103\101\040\062\060\062
\061
END
CKA SERIAL NUMBER MULTILINE OCTAL
\002\020\125\122\370\036\333\033\044\054\236\273\226\030\315\002
\050\076
END
CKA_TRUST_SERVER_AUTH
CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
#
# Certificate "HARICA Client ECC Root CA 2021"
# Issuer: CN=HARICA Client ECC Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Serial Number:31:68:d9:d8:e1:62:57:1e:d2:19:44:88:e6:10:7d:f0
# Subject: CN=HARICA Client ECC Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
```

Trust for "HARICA Client RSA Root CA 2021"

Not Valid Before: Fri Feb 19 11:03:34 2021

Not Valid After: Mon Feb 13 11:03:33 2045

Fingerprint (SHA-256):

8D:D4:B5:37:3C:B0:DE:36:76:9C:12:33:92:80:D8:27:46:B3:AA:6C:D4:26:E7:97:A3:1B:AB:E4:27:9C:F0:0B

Fingerprint (SHA1): BE:64:D3:DA:14:4B:D2:6B:CD:AF:8F:DB:A6:A6:72:F8:DE:26:F9:00

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

CKA TOKEN CK BBOOL CK TRUE

CKA_PRIVATE CK_BBOOL

CK FALSE

CKA MODIFIABLE CK BBOOL CK FALSE

CKA_LABEL UTF8 "HARICA Client ECC Root CA 2021"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA SUBJECT MULTILINE OCTAL

\164\151\157\156\163\040\103\101\061\047\060\045\006\003\125\004 \003\014\036\110\101\122\111\103\101\040\103\154\151\145\156\164

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

\061

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

 $\label{eq:condition} $$ \000\157\061\013\060\011\006\003\125\004\006\023\002\107\122\061 $$ \067\060\065\006\003\125\004\012\014\056\110\145\154\154\154\155\156\151\143\040\101\1145\156\144\040\122\145\163\145\141\162\143\150\040\111\156\163\164\151\164\165\164\151\157\156\163\040\103\101\061\047\060\045\006\003\125\004\003\014\036\110\101\122\111\103\101\040\103\154\151\145\156\164\040\105\103\103\040\122\157\157\164\040\103\101\040\062\060\062\061$

END

CKA_SERIAL_NUMBER

MULTILINE OCTAL

\002\020\061\150\331\330\341\142\127\036\322\031\104\210\346\020 \175\360

END

CKA_VALUE MULTILINE_OCTAL

 $\label{eq:condition} $$ \0002\002\132\060\202\001\341\240\003\002\001\002\002\002\006\0150\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\003\125\004\006\023\002\107\122\061\067\060\065\006\003\125\004\012\014\056\110\145\154\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\165\164\151\157\156\163\104\0103\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\0105\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 $\label{eq:condition} $$ \065\060\062\061\063\061\060\063\063\063\132\060\157\061\013$ \060\011\006\003\125\004\006\023\002\107\122\061\067\060\065\006 \003\125\004\012\014\056\110\145\154\154\145\156\151\143\040\101 $\\ 143 \\ 141 \\ 144 \\ 145 \\ 155 \\ 151 \\ 143 \\ 040 \\ 141 \\ 156 \\ 144 \\ 040 \\ 122 \\ 145 \\ 163 \\ 145 \\$ \141\162\143\150\040\111\156\163\164\151\164\165\164\151\157\156 \163\040\103\101\061\047\060\045\006\003\125\004\003\014\036\110 \040\122\157\157\164\040\103\101\040\062\060\062\061\060\166\060 $\label{eq:condition} $$ \020\006\007\052\206\110\316\075\002\001\006\005\053\201\004\000 $$$ $\label{eq:condition} $$ \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 $\label{eq:condition} $$ \016\004\026\004\024\122\010\322\276\062\201\045\375\365\032\227 $$$ \354\116\137\032\273\123\315\220\255\060\016\006\003\125\035\017 \001\001\377\004\004\003\002\001\206\060\012\006\010\052\206\110 $\label{eq:condition} $$ \frac{316}{075} \frac{004}{003} \frac{003}{147} \frac{000}{060} \frac{144}{002} \frac{060}{114} \frac{105}{106}$ \117\250\346\276\303\167\262\032\030\113\055\210\173\130\346\253 $\verb| 224| 153| 104| 003| 260| 027| 377| 337| 202| 163| 104| 121| 054| 375| 223| 035|$ \006\173\024\322\211\354\100\014\357\041\001\056\002\060\057\311 \056\132\154\054\035\331\225\340\236\260\271\134\122\174\366\370 $\label{eq:condition} $$ \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

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 LABEL UTF8 "HARICA Client ECC Root CA 2021"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\276\144\323\332\024\113\322\153\315\257\217\333\246\246\162\370
\336\046\371\000
END
CKA CERT MD5 HASH MULTILINE OCTAL
\255\270\120\246\251\202\172\154\075\032\252\244\322\143\244\104
END
CKA ISSUER MULTILINE OCTAL
\label{eq:condition} $$ \060\157\061\013\060\011\006\003\125\004\006\023\002\107\122\061 $$
\\ \\067\\ \\060\\ \\065\\ \\006\\ \\003\\ \\125\\ \\004\\ \\012\\ \\014\\ \\056\\ \\110\\ \\145\\ \\154\\ \\154\\ \\145\\ \\156
\151\143\040\101\143\141\144\145\155\151\143\040\141\156\144\040
\122\145\163\145\141\162\143\150\040\111\156\163\164\151\164\165
\164\151\157\156\163\040\103\101\061\047\060\045\006\003\125\004
\003\014\036\110\101\122\111\103\101\040\103\154\151\145\156\164
\040\105\103\103\040\122\157\157\164\040\103\101\040\062\060\062
\061
END
CKA_SERIAL_NUMBER
MULTILINE OCTAL
\002\020\061\150\331\330\341\142\127\036\322\031\104\210\346\020
\175\360
END
CKA_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
```

CKA MODIFIABLE CK BBOOL CK FALSE

END

CKA ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

 $\label{eq:condition} $$ \000\121\061\013\060\011\006\003\125\004\0006\023\002\105\123\061\102\060\100\006\003\125\004\003\014\0071\101\165\164\157\162\151\144\141\144\040\144\145\040\103\145\162\164\151\146\151\143\141\143\151\157\156\040\106\151\162\155\141\160\162\157\146\145\163\151\157\156\141\154\040\103\111\106\040\101\066\062\066\063\064\060\066\070$

END

CKA_SERIAL_NUMBER

MULTILINE_OCTAL

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

END

CKA VALUE MULTILINE OCTAL

\060\202\006\024\060\202\003\374\240\003\002\001\002\002\010\033 $\label{eq:condition} $$ 1\322\377\256\154\161\060\015\006\011\052\206\110\206\367 $$$ \015\001\001\013\005\000\060\121\061\013\060\011\006\003\125\004 \006\023\002\105\123\061\102\060\100\006\003\125\004\003\014\071 \101\165\164\157\162\151\144\141\144\040\144\145\040\103\145\162 \164\151\146\151\143\141\143\151\157\156\040\106\151\162\155\141 $\label{eq:condition} $$ 160\162\157\146\145\163\151\157\156\141\154\040\103\111\106\040$$$ \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 $\label{eq:condition} $$ \060\065\061\065\062\062\060\067\132\060\121\061\013\060\011\006$ \003\125\004\006\023\002\105\123\061\102\060\100\006\003\125\004 \003\014\071\101\165\164\157\162\151\144\141\144\040\144\145\040 \103\145\162\164\151\146\151\143\141\143\151\157\156\040\106\151 \162\155\141\160\162\157\146\145\163\151\157\156\141\154\040\103 \111\106\040\101\066\062\066\063\064\060\066\070\060\202\002\042 \060\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003 $\label{eq:condition} $$ \202\002\017\000\060\202\002\012\002\202\000\001\000\312\226\153$$ \216\352\370\373\361\242\065\340\177\114\332\340\303\122\327\175 \266\020\310\002\136\263\103\052\304\117\152\262\312\034\135\050 \232\170\021\032\151\131\127\257\265\040\102\344\213\017\346\337 $\label{eq:condition} $$ 133\246\003\222\057\365\021\344\142\327\062\161\070\331\004\014$ \161\253\075\121\176\017\007\337\143\005\134\351\277\224\157\301 \051\202\300\264\332\121\260\301\074\273\255\067\112\134\312\361 \113\066\016\044\253\277\303\204\167\375\250\120\364\261\347\306 \057\322\055\131\215\172\012\116\226\151\122\002\252\066\230\354 \374\372\024\203\014\067\037\311\222\067\177\327\201\055\345\304 \271\340\076\064\376\147\364\076\146\321\323\364\100\317\136\142

\064\017\160\006\076\040\030\132\316\367\162\033\045\154\223\164 \024\223\243\163\261\016\252\207\020\043\131\137\040\005\031\107 \355\150\216\222\022\312\135\374\326\053\262\222\074\040\317\341 \137\257\040\276\240\166\177\166\345\354\032\206\141\063\076\347 \173\264\077\240\017\216\242\271\152\157\271\207\046\157\101\154 \210\246\120\375\152\143\013\365\223\026\033\031\217\262\355\233 \233\311\220\365\001\014\337\031\075\017\076\070\043\311\057\217 \014\321\002\376\033\125\326\116\320\215\074\257\117\244\363\376 \257\052\323\005\235\171\010\241\313\127\061\264\234\310\220\262 \147\364\030\026\223\072\374\107\330\321\170\226\061\037\272\053 \014\137\135\231\255\143\211\132\044\040\166\330\337\375\253\116 $\label{eq:condition} $$ \246\042\252\235\136\346\047\212\175\150\051\243\347\212\270\332 $$$ \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 $\label{eq:condition} $$ \32\377\055\232\106\161\107\276\102\337\273\001\333\364\177\323$ \050\217\061\131\133\323\311\002\246\264\122\312\156\227\373\103 \305\010\046\157\212\364\273\375\237\050\252\015\325\105\363\023 \072\035\330\300\170\217\101\147\074\036\224\144\256\173\013\305 \350\331\001\210\071\032\227\206\144\101\325\073\207\014\156\372 $\label{eq:continuous} $$ \017\306\275\110\024\277\071\115\324\236\101\266\217\226\035\143 $$$ \226\223\331\225\006\170\061\150\236\067\006\073\200\211\105\141 \071\043\307\033\104\243\025\345\034\370\222\060\273\002\003\001 $\label{eq:condition} $$ \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 $\label{eq:condition} $$ \0.000\0.0$ $\label{eq:condition} $$ \001\026\043\150\164\164\166\072\057\057\167\167\167\056\146\151 $$$ \162\155\141\160\162\157\146\145\163\151\157\156\141\154\056\143 $\label{eq:condition} $$ \frac{157}{155}057\\143\\160\\163\\060\\134\\006\\010\\053\\006\\001\\005\\0005\\0007$ $\label{eq:condition} $$ \002\002\060\120\036\116\000\120\000\141\000\163\000\145\000\157$$$ \000\040\000\144\000\145\000\040\000\154\000\141\000\040\000\102 $\label{eq:condition} $$ \000\157\000\156\000\141\000\156\000\157\000\166\000\141\000\040 $$$ \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 $\label{eq:condition} $$ \003\002\001\006\060\015\006\011\052\206\110\206\367\015\001\001$ $\label{eq:condition} $$ \005\000\003\202\002\001\000\164\207\050\002\053\167\037\146 $$$ \211\144\355\217\164\056\106\034\273\250\370\370\013\035\203\266 \072\247\350\105\212\007\267\340\076\040\313\341\010\333\023\010 \370\050\241\065\262\200\263\013\121\300\323\126\232\215\063\105 \111\257\111\360\340\075\007\172\105\023\132\377\310\227\330\323 \030\054\175\226\370\335\242\145\103\160\223\220\025\272\220\337 \350\031\260\333\054\212\140\017\267\157\224\007\036\035\246\311 \205\366\275\064\370\100\170\142\020\160\072\276\175\113\071\201 \251\020\324\226\101\273\370\137\034\013\035\010\362\261\260\211 \172\362\367\240\340\304\217\213\170\265\073\130\245\043\216\117

\125\376\066\073\340\014\267\312\052\060\101\040\264\200\315\256 \374\166\146\163\250\256\156\341\174\332\003\350\224\040\346\042 \243\320\037\220\135\040\123\024\046\127\332\124\227\337\026\104 $\label{eq:condition} $$ \020\001\036\210\146\217\162\070\223\335\040\267\064\276\327\361 $$$ \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 $\label{eq:condition} $$ \035\377\111\032\220\122\067\223\057\074\002\135\202\166\013\121 $$$ \347\026\307\127\370\070\371\247\315\233\042\124\357\143\260\025 $\label{eq:condition} $$ \frac{155}123\frac{45}003\frac{112}136\frac{12240}262\frac{247}216\frac{111}000\frac{131}070\frac{325}{123} $$$ $\label{eq:condition} $$ 307\364\200\144\365\156\225\120\270\021\176\025\160\070\112\260 $$$ \177\320\304\062\160\300\031\377\311\070\055\024\054\146\364\102 $\label{eq:condition} $$ 104\346\125\166\033\200\025\127\377\300\247\247\252\071\252\330 $$$ \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:condition} $$ \031\272\204\147\047\017\274\102\135\275\044\124\015\354\035\160$$$ \006\137\244\274\372\040\174\125

END

CKA_NSS_MOZILLA_CA_POLICY

CK BBOOL CK TRUE

CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

- # Trust for "Autoridad de Certificacion Firmaprofesional CIF A62634068"
- # Issuer: CN=Autoridad de Certificacion Firmaprofesional

CIF A62634068,C=ES

- # Serial Number:1b:70:e9:d2:ff:ae:6c:71
- # Subject: CN=Autoridad de Certificacion Firmaprofesional CIF A62634068,C=ES
- # Not Valid Before: Tue Sep 23 15:22:07 2014
- # Not Valid After: Mon May 05 15:22:07 2036
- # Fingerprint (SHA-256):
- 57:DE:05:83:EF:D2:B2:6E:03:61:DA:99:DA:9D:F4:64:8D:EF:7E:E8:44:1C:3B:72:8A:FA:9B:CD:E0:F9:B2:6A
- # Fingerprint (SHA1): 0B:BE:C2:27:22:49:CB:39:AA:DB:35:5C:53:E3:8C:AE:78:FF:B6:FE

 ${\tt CKA_CLASS\ CK_OBJECT_CLASS\ CKO_NSS_TRUST}$

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:condition} $$ \013\276\302\047\042\111\313\071\252\333\065\134\123\343\214\256$

\170\377\266\376

END

```
CKA CERT MD5 HASH MULTILINE OCTAL
\116\156\233\124\114\312\267\372\110\344\220\261\025\113\034\243
END
CKA ISSUER MULTILINE OCTAL
\060\121\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\102\060\100\006\003\125\004\003\014\071\101\165\164\157\162\151
\144\141\144\040\144\145\040\103\145\162\164\151\146\151\143\141
\143\151\157\156\040\106\151\162\155\141\160\162\157\146\145\163
\151\157\156\141\154\040\103\111\106\040\101\066\062\066\063\064
\060\066\070
END
CKA_SERIAL_NUMBER
MULTILINE OCTAL
\002\010\033\160\351\322\377\256\154\161
END
CKA TRUST SERVER AUTH CK TRUST CKT NSS TRUSTED DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_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 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
\034\060\032\006\003\125\004\012\023\023\151\124\162\165\163\103
\150\151\156\141\040\103\157\056\054\114\164\144\056\061\032\060
\030\006\003\125\004\003\023\021\166\124\162\165\163\040\105\103
\103\040\122\157\157\164\040\103\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\107\061\013\060\011\006\003\125\004\006\023\002\103\116\061
```

\034\060\032\006\003\125\004\012\023\023\151\124\162\165\163\103 \150\151\156\141\040\103\157\056\054\114\164\144\056\061\032\060 \030\006\003\125\004\003\023\021\166\124\162\165\163\040\105\103 \103\040\122\157\157\164\040\103\101

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

\002\024\156\152\274\131\252\123\276\230\071\147\242\322\153\244 \073\346\155\034\326\332

END

CKA VALUE

MULTILINE_OCTAL

\152\274\131\252\123\276\230\071\147\242\322\153\244\073\346\155 $\label{eq:condition} $$ \034\326\332\060\012\006\010\052\206\110\316\075\004\003\003\060 $$$ \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 $\\ \langle 023 \rangle 023 \rangle 151 \rangle 124 \rangle 162 \rangle 165 \rangle 163 \rangle 103 \rangle 150 \rangle 151 \rangle 156 \rangle 141 \rangle 040 \rangle 103 \rangle 157 \rangle 056$ \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 \102\273\035\315\010\333\163\262\133\165\363\317\234\116\202\364 \277\370\141\046\205\154\326\205\133\162\160\322\375\333\142\264 \337\123\213\275\261\104\130\142\102\011\307\372\177\133\020\347 \376\100\375\300\330\303\053\062\347\160\246\267\246\040\125\035 \173\200\135\113\217\147\114\361\020\243\102\060\100\060\035\006 \003\125\035\016\004\026\004\024\230\071\315\276\330\262\214\367 \262\253\341\255\044\257\173\174\241\333\037\317\060\017\006\003 \125\035\023\001\001\377\004\005\060\003\001\001\377\060\016\006 \003\125\035\017\001\001\377\004\004\003\002\001\006\060\012\006 \010\052\206\110\316\075\004\003\003\003\150\000\060\145\002\060 \127\235\335\126\361\307\343\351\270\111\120\153\233\151\303\157 \354\303\175\045\344\127\225\023\100\233\122\323\073\363\100\031 \274\046\307\055\006\236\265\173\066\237\365\045\324\143\153\000 \002\061\000\351\323\306\236\126\232\052\314\241\332\077\310\146 \053\323\130\234\040\205\372\253\221\212\160\160\021\070\140\144 \013\142\011\221\130\000\371\115\373\064\150\332\011\255\041\006 \030\224\316

END

CKA_NSS_MOZILLA_CA_POLICY

```
CK BBOOL CK TRUE
CKA NSS SERVER DISTRUST AFTER CK BBOOL CK FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
# Trust for "vTrus ECC Root CA"
# Issuer: CN=vTrus ECC Root CA,O="iTrusChina Co.,Ltd.",C=CN
# Serial Number:6e:6a:bc:59:aa:53:be:98:39:67:a2:d2:6b:a4:3b:e6:6d:1c:d6:da
# Subject: CN=vTrus ECC Root CA,O="iTrusChina Co.,Ltd.",C=CN
# Not Valid Before: Tue Jul 31 07:26:44 2018
# Not Valid After: Fri Jul 31 07:26:44 2043
# Fingerprint (SHA-256):
30:FB:BA:2C:32:23:8E:2A:98:54:7A:F9:79:31:E5:50:42:8B:9B:3F:1C:8E:EB:66:33:DC:FA:86:C5:B2:7D:D3
# Fingerprint (SHA1): F6:9C:DB:B0:FC:F6:02:13:B6:52:32:A6:A3:91:3F:16:70:DA:C3:E1
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA PRIVATE
CK_BBOOL CK_FALSE
CKA MODIFIABLE CK BBOOL CK FALSE
CKA LABEL UTF8 "vTrus ECC Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\366\234\333\260\374\366\002\023\266\122\062\246\243\221\077\026
\160\332\303\341
END
CKA CERT MD5 HASH MULTILINE OCTAL
\336\113\301\365\122\214\233\103\341\076\217\125\124\027\215\205
END
CKA ISSUER MULTILINE OCTAL
\label{eq:condition} $$ \060\107\061\013\060\011\006\003\125\004\006\023\002\103\116\061 $$
\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
\label{eq:condition} $$ \0000003\125\004\003\023\021\166\124\162\165\163\040\105\103
\103\040\122\157\157\164\040\103\101
END
CKA SERIAL NUMBER MULTILINE OCTAL
\002\024\156\152\274\131\252\123\276\230\071\147\242\322\153\244
\073\346\155\034\326\332
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
#
Certificate "vTrus Root CA"
```

Issuer: CN=vTrus Root CA,O="iTrusChina Co.,Ltd.",C=CN

Serial Number: 43:e3:71:13:d8:b3:59:14:5d:b7:ce:8c:fd:35:fd:6f:bc:05:8d:45

Subject: CN=vTrus Root CA,O="iTrusChina Co.,Ltd.",C=CN

Not Valid Before: Tue Jul 31 07:24:05 2018 # Not Valid After : Fri Jul 31 07:24:05 2043

Fingerprint (SHA-256):

8A:71:DE:65:59:33:6F:42:6C:26:E5:38:80:D0:0D:88:A1:8D:A4:C6:A9:1F:0D:CB:61:94:E2:06:C5:C9:63:87

Fingerprint (SHA1): 84:1A:69:FB:F5:CD:1A:25:34:13:3D:E3:F8:FC:B8:99:D0:C9:14:B7

CKA CLASS CK OBJECT CLASS CKO CERTIFICATE

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA MODIFIABLE CK BBOOL CK FALSE

CKA_LABEL UTF8 "vTrus Root CA"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA SUBJECT MULTILINE OCTAL

 $\label{eq:condition} $$ \000103\061\013\060\011\006\003\125\004\006\023\002\103\116\061\034\060\032\006\003\125\004\012\023\023\151\124\162\165\163\103\150\151\156\141\040\103\157\056\054\114\164\144\056\061\026\060\024\006\003\125\004\003\023\015\166\124\162\165\163\040\122\157\157\164\040\103\101$

END

CKA_ID

UTF8 "0"

CKA ISSUER MULTILINE OCTAL

 $\label{eq:condition} $$ \00103\061\013\060\011\006\003\125\004\006\023\002\103\116\061\034\060\032\006\003\125\004\012\023\023\151\124\162\165\163\103\150\151\156\141\040\103\157\056\054\114\164\144\056\061\022\157\157\164\040\103\101$$

END

CKA SERIAL NUMBER MULTILINE OCTAL

\002\024\103\343\161\023\330\263\131\024\135\267\316\214\375\065 \375\157\274\005\215\105

END

CKA_VALUE MULTILINE_OCTAL

\202\002\017\000\060\202\002\012\002\202\002\001\000\275\125\174 \141\323\270\035\004\142\005\240\256\154\267\160\264\101\352\113 \003\136\020\077\220\132\034\213\073\260\146\213\154\110\246\034 $\label{eq:condition} $$ \042\272\325\100\222\356\063\262\043\131\311\216\274\130\332\213$ \236\320\031\362\057\131\306\214\143\132\272\237\243\013\260\263 $\label{eq:condition} $$ \232\134\272\021\270\022\351\014\273\317\156\154\200\207\051\024$$ \003\054\215\044\232\310\144\203\265\152\254\023\054\063\361\237 \334\054\141\074\032\077\160\125\233\255\000\122\177\317\004\271 $\label{eq:condition} $$ \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 $\label{eq:condition} $$ \004\017\142\035\143\165\367\153\347\313\133\232\160\354\076\147 $$$ $\label{eq:condition} $$ \005\360\376\007\010\200\317\050\333\005\306\024\047\057\206\175$ \360\047\336\377\346\176\063\110\347\013\036\130\321\047\053\123 $\label{eq:condition} $$ \016\127\112\145\327\373\242\200\140\374\114\274\065\123\001\152$$ \227\162\202\257\361\035\160\350\234\365\357\136\302\154\307\107 \176\132\224\205\046\115\073\272\353\114\350\260\011\302\145\302 \235\235\011\233\116\265\227\005\254\365\006\240\367\066\005\176 \364\220\262\153\304\264\371\144\352\351\032\012\310\015\250\355 \047\311\324\347\263\271\253\202\042\220\047\075\052\350\174\220 \357\274\117\375\342\012\044\247\336\145\044\244\135\352\300\166 \060\323\167\120\370\015\004\233\224\066\001\163\312\006\130\246 \323\073\334\372\004\106\023\125\212\311\104\107\270\121\071\032 $\label{eq:condition} $$ \056\350\064\342\171\313\131\112\012\177\274\246\357\037\003\147 $$$ \152\131\053\045\142\223\331\123\031\146\074\047\142\051\206\115 \244\153\356\377\324\116\272\325\264\342\216\110\132\000\031\011 \361\005\331\316\221\261\367\353\351\071\117\366\157\004\103\232 \125\365\076\005\024\275\277\263\131\264\330\216\063\204\243\220 $\label{eq:local_$ \161\127\265\045\344\051\356\145\135\257\321\356\074\027\013\132 \103\305\245\206\352\044\236\342\005\007\334\064\102\022\221\326 $\label{eq:condition} $$ \071\164\256\114\101\202\333\362\246\110\321\263\233\363\063\252$ \363\246\300\305\116\365\364\235\166\143\346\002\306\042\113\301 \225\077\120\144\054\124\345\266\360\074\051\317\127\002\003\001 \000\001\243\102\060\100\060\035\006\003\125\035\016\004\026\004 \024\124\142\160\143\361\165\204\103\130\216\321\026\040\261\306 \254\032\274\366\211\060\017\006\003\125\035\023\001\001\377\004 \005\060\003\001\001\377\060\016\006\003\125\035\017\001\001\377 \004\004\003\002\001\006\060\015\006\011\052\206\110\206\367\015 $\label{eq:condition} $$ \001\01\013\005\000\003\202\002\001\000\051\272\222\111\247\255 $$$ \360\361\160\303\344\227\360\237\251\045\325\153\236\064\376\346 \032\144\366\072\153\122\262\020\170\032\237\114\332\212\332\354 \034\067\122\340\102\113\373\154\166\312\044\013\071\022\025\235 \237\021\055\374\171\144\334\340\340\365\335\340\127\311\245\262 \166\160\120\244\376\267\012\160\325\240\064\361\165\327\115\111 \272\021\321\263\330\354\202\377\353\016\304\277\144\055\175\143 \156\027\170\354\135\174\210\310\353\216\127\166\331\131\004\372 \274\122\037\105\254\360\172\200\354\354\157\166\256\221\333\020 \216\004\334\222\337\240\366\346\256\111\323\301\154\022\033\314

\051\252\371\010\245\342\067\024\312\261\270\146\357\032\202\344 \360\370\361\247\026\151\267\333\251\141\074\237\365\061\313\344 \000\106\302\057\164\261\261\327\201\356\250\046\225\274\210\257 $\label{eq:condition} $$ \frac{114 \cdot 065 \cdot 007 \cdot 052 \cdot 002 \cdot 312 \cdot 170 \cdot 024 \cdot 155 \cdot 107 \cdot 053 \cdot 100 \cdot 126 \cdot 351 \cdot 313 \cdot 052}{114 \cdot 065 \cdot 007 \cdot 052 \cdot 002 \cdot 312 \cdot 170 \cdot 024 \cdot 155 \cdot 107 \cdot 053 \cdot 100 \cdot 126 \cdot 351 \cdot 313 \cdot 052}$ \140\241\147\003\240\316\214\274\260\162\147\304\061\316\333\064 \345\045\003\140\045\173\161\230\344\300\033\053\137\164\102\322 \113\305\131\010\007\207\276\305\303\177\347\226\331\341\334\050 \227\326\217\005\343\365\233\116\312\035\120\107\005\123\260\312 \071\347\205\240\211\301\005\073\001\067\323\077\111\342\167\353 \043\310\210\146\073\075\071\166\041\106\361\354\137\043\270\353 \242\146\165\164\301\100\367\330\150\232\223\342\055\251\056\275 $\label{eq:condition} $$ \034\243\036\310\164\306\244\055\172\040\253\073\270\260\106\375$ \157\335\137\122\125\165\142\360\227\240\174\327\070\375\045\337 \315\240\233\020\317\213\270\070\136\136\305\264\246\002\066\241 $\label{eq:condition} $$ \036\137\034\317\342\226\235\051\252\375\230\256\122\341\363\101 $$$ \122\373\251\056\162\226\237\047\343\252\163\175\370\032\043\146 $\label{eq:condition} $$ \frac{3}{073}253\frac{3}{145}260\frac{062}{001}\frac{113}{025}076\frac{075}{242}\frac{117}{014}053\frac{65}{117}$ \242\306\331\147\022\065\060\315\166\056\026\263\231\236\115\117 \116\055\073\064\103\341\232\016\015\244\146\227\272\322\034\112 \000\015\067\100\343\174\173\124\137\057\205\137\166\366\367\247 $\label{eq:condition} $$ \260\034\127\126\301\162\350\255\242\257\215\063\111\272\037\212 $$$ \334\346\164\174\140\206\157\207\227\173

END

CKA_NSS_MOZILLA_CA_POLICY

CK BBOOL CK TRUE

CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

```
# Trust for "vTrus Root CA"
```

Issuer: CN=vTrus Root CA,O="iTrusChina Co.,Ltd.",C=CN

Serial Number:43:e3:71:13:d8:b3:59:14:5d:b7:ce:8c:fd:35:fd:6f:bc:05:8d:45

Subject: CN=vTrus Root CA,O="iTrusChina Co.,Ltd.",C=CN

Not Valid Before: Tue Jul 31 07:24:05 2018

Not Valid After: Fri Jul 31 07:24:05 2043

Fingerprint (SHA-256):

8A:71:DE:65:59:33:6F:42:6C:26:E5:38:80:D0:0D:88:A1:8D:A4:C6:A9:1F:0D:CB:61:94:E2:06:C5:C9:63:87

Fingerprint (SHA1): 84:1A:69:FB:F5:CD:1A:25:34:13:3D:E3:F8:FC:B8:99:D0:C9:14:B7

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "vTrus Root CA"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL

 $\label{eq:condition} $$ \204\032\151\373\365\315\032\045\064\023\075\343\370\374\270\231 $$$

\320\311\024\267

END

CKA_CERT_MD5_HASH

```
MULTILINE OCTAL
\270\311\067\337\372\153\061\204\144\305\352\021\152\033\165\374
END
CKA ISSUER MULTILINE OCTAL
\060\103\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\034\060\032\006\003\125\004\012\023\023\151\124\162\165\163\103
\150\151\156\141\040\103\157\056\054\114\164\144\056\061\026\060
\024\006\003\125\004\003\023\015\166\124\162\165\163\040\122\157
\157\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\103\343\161\023\330\263\131\024\135\267\316\214\375\065
\375\157\274\005\215\105
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA TRUST EMAIL PROTECTION CK TRUST CKT NSS MUST VERIFY TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA TRUST STEP UP APPROVED CK BBOOL CK FALSE
# Certificate "ISRG Root X2"
# Issuer: CN=ISRG Root X2,O=Internet Security Research Group,C=US
# Serial Number:41:d2:9d:d1:72:ea:ee:a7:80:c1:2c:6c:e9:2f:87:52
# Subject: CN=ISRG Root X2,O=Internet Security
Research Group, C=US
# Not Valid Before: Fri Sep 04 00:00:00 2020
# Not Valid After: Mon Sep 17 16:00:00 2040
# Fingerprint (SHA-256):
69:72:9B:8E:15:A8:6E:FC:17:7A:57:AF:B7:17:1D:FC:64:AD:D2:8C:2F:CA:8C:F1:50:7E:34:45:3C:CB:14:70
# Fingerprint (SHA1): BD:B1:B9:3C:D5:97:8D:45:C6:26:14:55:F8:DB:95:C7:5A:D1:53:AF
CKA CLASS CK OBJECT CLASS CKO CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA PRIVATE CK BBOOL CK FALSE
CKA MODIFIABLE CK BBOOL CK FALSE
CKA LABEL UTF8 "ISRG Root X2"
CKA CERTIFICATE TYPE CK CERTIFICATE TYPE CKC X 509
CKA_SUBJECT MULTILINE_OCTAL
\label{eq:condition} $$ \060\11\006\003\125\004\006\023\002\125\123\061 $$
\145\164\040\123\145\143\165\162\151\164\171\040\122\145\163\145
\141\162\143\150\040\107\162\157\165\160\061\025\060\023\006\003
\125\004\003\023\014\111\123\122\107\040\122\157\157\164\040\130
\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
```

\060\117\061\013\060\011\006\003\125\004\006\023\002\125\123\061

END

CKA SERIAL NUMBER

MULTILINE_OCTAL

\002\020\101\322\235\321\162\352\356\247\200\301\054\154\351\057\207\122

END

CKA_VALUE MULTILINE_OCTAL

\060\202\002\033\060\202\001\241\240\003\002\001\002\002\020\101 \322\235\321\162\352\356\247\200\301\054\154\351\057\207\122\060 $\label{eq:condition} $$ \012\006\010\052\206\110\316\075\004\003\003\060\117\061\013\060 $$$ \011\006\003\125\004\006\023\002\125\123\061\051\060\047\006\003 \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 \062\060\060\071\060\064\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 $\label{eq:condition} $$ \000\01\006\003\125\004\006\023\002\125\123\061\051\060\047\006 $$$ \003\125\004\012\023\040\111\156\164\145\162\156\145\164\040\123 \145\143\165\162\151\164\171\040\122\145\163\145\141\162\143\150 \040\107\162\157\165\160\061\025\060\023\006\003\125\004\003\023 \014\111\123\122\107\040\122\157\157\164\040\130\062\060\166\060 $\label{eq:condition} $$ \020\006\007\052\206\110\316\075\002\001\006\005\053\201\004\000 $$$ \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 $\label{eq:condition} $$ \373\132\213\024\333\342\161\140\304\272\105\225\021\211\216\352$ \006\337\367\052\026\034\244\271\305\305\062\340\003\340\036\202 \030\070\213\327\105\330\012\152\156\346\000\167\373\002\121\175 \042\330\012\156\232\133\167\337\360\372\101\354\071\334\165\312 \150\007\014\037\352\243\102\060\100\060\016\006\003\125\035\017 \001\001\377\004\004\003\002\001\006\060\017\006\003\125\035\023 \001\001\377\004\005\060\003\001\001\377\060\035\006\003\125\035 $\label{eq:condition} $$ \016\004\026\004\024\174\102\226\256\336\113\110\073\372\222\370 $$$ \236\214\317\155\213\251\162\067\225\060\012\006\010\052\206\110 $\label{eq:condition} $$ 316\075\004\003\003\003\150\000\060\145\002\060\173\171\116\106$ \120\204\302\104\207\106\033\105\160\377\130\231\336\364\375\244 $\verb|322|125|246|040|055|164|326|064|274|101|243|120|137|001|047|126|$ \264\276\047\165\006\257\022\056\165\230\215\374\002\061\000\213 \365\167\154\324\310\145\252\340\013\054\356\024\235\047\067\244 \371\123\245\121\344\051\203\327\370\220\061\133\102\237\012\365 \376\256\000\150\347\214\111\017\266\157\133\133\025\362\347 **END**

CKA_NSS_MOZILLA_CA_POLICY

```
CK BBOOL CK TRUE
CKA NSS SERVER DISTRUST AFTER CK BBOOL CK FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
# Trust for "ISRG Root X2"
# Issuer: CN=ISRG Root X2,O=Internet Security Research Group,C=US
# Serial Number:41:d2:9d:d1:72:ea:ee:a7:80:c1:2c:6c:e9:2f:87:52
# Subject: CN=ISRG Root X2,O=Internet Security Research Group,C=US
# Not Valid Before: Fri
Sep 04 00:00:00 2020
# Not Valid After: Mon Sep 17 16:00:00 2040
# Fingerprint (SHA-256):
69:72:9B:8E:15:A8:6E:FC:17:7A:57:AF:B7:17:1D:FC:64:AD:D2:8C:2F:CA:8C:F1:50:7E:34:45:3C:CB:14:70
# Fingerprint (SHA1): BD:B1:B9:3C:D5:97:8D:45:C6:26:14:55:F8:DB:95:C7:5A:D1:53:AF
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA TOKEN CK BBOOL CK TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA MODIFIABLE CK BBOOL CK FALSE
CKA_LABEL UTF8 "ISRG Root X2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\275\261\271\074\325\227\215\105\306\046\024\125\370\333\225\307
\132\321\123\257
END
CKA CERT MD5 HASH MULTILINE OCTAL
\323\236\304\036\043\074\246\337\317\243\176\155\340\024\346\345
END
CKA ISSUER MULTILINE OCTAL
\label{eq:condition} $$ \060\11\006\003\125\004\006\023\002\125\123\061 $$
\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
\062
END
CKA_SERIAL_NUMBER
MULTILINE OCTAL
\label{eq:condition} $$ \002\020\101\322\235\321\162\352\356\247\200\301\054\154\351\057$$
\207\122
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
# Certificate "HiPKI Root CA - G1"
# Issuer: CN=HiPKI Root CA - G1,O="Chunghwa Telecom Co., Ltd.",C=TW
```

- # Serial Number:2d:dd:ac:ce:62:97:94:a1:43:e8:b0:cd:76:6a:5e:60
- # Subject: CN=HiPKI Root CA G1,O="Chunghwa Telecom Co., Ltd.",C=TW
- # Not Valid Before: Fri Feb 22 09:46:04 2019
- # Not Valid After: Thu Dec 31 15:59:59 2037
- # Fingerprint (SHA-256):

F0:15:CE:3C:C2:39:BF:EF:06:4B:E9:F1:D2:C4:17:E1:A0:26:4A:0A:94:BE:1F:0C:8D:12:18:64:EB:69:49:CC

Fingerprint (SHA1): 6A:92:E4:A8:EE:1B:EC:96:45:37:E3:29:57:49:CD:96:E3:E5:D2:60

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

CKA_TOKEN CK_BBOOL CK_TRUE

CKA PRIVATE CK BBOOL CK FALSE

CKA_MODIFIABLE CK_BBOOL

CK FALSE

CKA LABEL UTF8 "HiPKI Root CA - G1"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL

 $\label{eq:condition} $$ \060\117\061\013\060\011\006\003\125\004\006\023\002\124\127\061 $$$

 $\\ \langle 043 \rangle 060 \rangle 041 \rangle 006 \rangle 003 \rangle 125 \rangle 004 \rangle 012 \rangle 014 \rangle 032 \rangle 103 \rangle 150 \rangle 165 \rangle 156 \rangle 147 \rangle 150 \rangle 165 \rangle$

 $\label{eq:condition} $$ 167\141\040\124\145\154\145\143\157\155\040\103\157\056\054\040 $$$

\114\164\144\056\061\033\060\031\006\003\125\004\003\014\022\110

\061

END

CKA_ID UTF8 "0"

CKA ISSUER MULTILINE OCTAL

 $\label{eq:condition} $$ \000117061\013\060\011\006\003\125\004\006\023\002\124\127\061 $$ \043\060\041\006\003\125\004\012\014\032\103\150\165\156\147\150 $$ \167\141\040\124\145\154\145\143\157\155\040\103\157\056\054\040 $$ \114\164\144\056\061\033\060\031\006\003\125\004\003\014\022\110 $$ \151\120\113\111\040\122\157\157\164\040\103\101\040\055\040\107 $$ \061$$

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

 $\label{eq:condition} $$ \002\020\055\335\254\316\142\227\224\241\103\350\260\315\166\152\136\140$$

END

CKA VALUE MULTILINE OCTAL

 $\label{eq:constraint} $$ \000\202\005\152\060\202\003\122\240\003\002\001\002\002\002\0055 \\ \label{eq:constraint} $$ \35\254\316\142\227\224\241\103\350\260\315\166\152\136\140\060 \\ \label{eq:constraint} $$ \015\006\011\052\206\110\206\367\015\001\001\001\013\005\000\060\117 \\ \label{eq:constraint} $$ \015\006\011\006\003\125\004\006\002\3002\124\127\061\043\060 \\ \label{eq:constraint} $$ \015\006\003\125\004\001\006\003\125\004\003\157\056\054\040\114\164 \\ \label{eq:constraint} $$ \027\015\063\067\061\062\062\062\062\060\071\064\066\060\064\132 \\ \label{eq:constraint} $$ \027\015\063\067\061\062\063\061\061\065\065\071\065\071\132\060 \\ \label{eq:constraint} $$ \027\015\063\067\061\062\063\061\061\065\065\071\065\071\132\060 \\ \label{eq:constraint} $$ \060\041\006\003\125\004\012\014\032\103\150\165\156\147\150\167 \\ \end{tabele}$

\141\040\124\145\154\145\143\157\155\040\103\157\056\054\040\114 \164\144\056\061\033\060\031\006\003\125\004\003\014\022\110\151 \120\113\111\040\122\157\157\164\040\103\101\040\055\040\107\061 \060\202\002\042\060\015\006\011\052\206\110\206\367\015\001\001 \001\005\000\003\202\002\017\000\060\202\002\012\002\202\002\001 $\label{eq:condition} $$ \000\364\036\177\122\163\062\014\163\344\275\023\164\243\324\060 $$$ \250\320\256\113\330\266\337\165\107\146\364\174\347\071\004\036 \152\160\040\322\132\107\162\147\125\364\245\350\235\325\036\041 \241\360\147\272\314\041\150\276\104\123\277\215\371\342\334\057 \125\310\067\077\037\244\300\234\263\344\167\134\240\106\376\167 \372\032\240\070\352\355\232\162\336\053\275\224\127\072\272\354 \171\347\137\175\102\144\071\172\046\066\367\044\360\325\057\272 \225\230\021\146\255\227\065\326\165\001\200\340\257\364\204\141 \214\015\036\137\174\207\226\136\101\257\353\207\352\370\135\361 $\label{eq:condition} $$ \056\210\005\076\114\042\273\332\037\052\335\122\106\144\071\363$ \102\316\331\236\014\263\260\167\227\144\234\300\364\243\056\037 \225\007\260\027\337\060\333\000\030\226\114\241\201\113\335\004 \155\123\243\075\374\007\254\324\305\067\202\353\344\225\010\031 \050\202\322\102\072\243\330\123\354\171\211\140\110\140\310\162 \222\120\334\003\217\203\077\262\102\127\132\333\152\351\021\227 \335\205\050\274\060\114\253\343\302\261\105\104\107\037\340\212 \026\007\226\322\041\017\123\300\355\251\176\324\116\354\233\011 \354\257\102\254\060\326\277\321\020\105\340\246\026\262\245\305 \323\117\163\224\063\161\002\241\152\243\326\063\227\117\041\143 $\label{eq:condition} $$ \036\133\217\331\301\136\105\161\167\017\201\135\137\041\232\255 $$$ \203\314\372\136\326\215\043\137\033\075\101\257\040\165\146\132 \112\366\237\373\253\030\367\161\300\266\035\061\354\073\040\353 \313\342\270\365\256\222\262\367\341\204\113\362\242\362\223\232 \042\236\323\024\157\066\124\275\037\136\131\025\271\163\250\301 \174\157\173\142\351\026\154\107\132\145\363\016\021\233\106\331 $\label{eq:condition} $$ 375 \times 334 \times 326 \times 34 \times 300 \times 264 \times 75 \times 245 \times 35 \times 77 \times 126 \times 157 \times 241 \times 371 \times 126 \times 12$ \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 $\label{eq:condition} $$ \023\001\001\377\004\005\060\003\001\001\377\060\035\006\003\125$$ $\label{eq:condition} $$ \035\016\004\026\004\024\362\167\027\372\136\250\376\366\075\161 $$$ \325\150\272\311\106\014\070\330\257\260\060\016\006\003\125\035 \017\001\001\377\004\004\003\002\001\206\060\015\006\011\052\206 $\label{eq:condition} $$ \frac{110\206\367\015\001\001\013\005\000\003\202\002\001\000\120\121}{20} $$$ \360\165\334\160\004\343\377\252\165\324\161\242\313\236\217\250 \251\323\257\165\307\124\317\072\034\004\231\042\254\304\021\342 \357\063\112\246\043\035\016\015\107\330\067\307\157\257\064\177 \117\201\153\065\117\351\162\245\061\342\170\347\367\116\224\030 \133\100\175\317\153\041\124\206\346\225\172\373\306\312\352\234

\110\116\127\011\135\057\254\364\245\264\227\063\130\325\254\171 \251\314\137\371\205\372\122\305\215\370\221\024\353\072\015\027 \320\122\302\173\343\302\163\216\106\170\006\070\054\350\134\332 \146\304\364\244\360\126\031\063\051\132\145\222\005\107\106\112 \253\204\303\036\047\241\037\021\222\231\047\165\223\017\274\066 \073\227\127\217\046\133\014\273\234\017\324\156\060\007\324\334 \137\066\150\146\071\203\226\047\046\212\310\304\071\376\232\041 \157\325\162\206\351\177\142\345\227\116\320\044\320\100\260\320 \165\010\216\275\150\356\010\327\156\174\020\160\106\033\174\340 \210\262\236\162\206\231\001\343\277\237\111\031\264\045\276\126 \145\256\027\143\345\036\337\350\377\107\245\277\341\046\005\204 \344\260\300\257\347\010\231\250\014\136\046\200\105\324\370\150 \057\226\217\256\342\112\034\234\026\014\023\157\070\207\366\273 $\label{eq:condition} $$ \frac{310}{064}\frac{337}{222}003\frac{121}{171}\frac{60}{246}\frac{337}{313}\frac{365}{231}\frac{115}{171}\frac{315}{315} $$$ $\label{eq:condition} $$ \frac{116}{274}\frac{237}{103}\frac{116}{153}\frac{056}{053}\frac{370}{152}\frac{163}{214}\frac{272}{305} $$$ $\label{eq:condition} $$ \065\357\071\152\101\036\317\161\250\242\262\206\007\133\072\311 $$$ $\label{eq:condition} $$ 341\357\077\145\004\200\107\062\104\160\225\116\061\147\152\164$$ \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 $\label{eq:condition} $$ 133\107\206\203\013\077\266\015\166\170\163\171\042\136\261\200 $$$ \037\317\276\321\077\126\020\230\053\225\207\241\037\235\144\024 $\label{eq:condition} $$ 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
\label{eq:condition} $$ \frac{354}{226}105\\067\\343\\051\\127\\111\\315\\226
\343\345\322\140
END
CKA CERT MD5 HASH MULTILINE OCTAL
\151\105\337\026\145\113\350\150\232\217\166\137\377\200\236\323
END
CKA ISSUER MULTILINE OCTAL
\060\117\061\013\060\011\006\003\125\004\006\023\002\124\127\061
\043\060\041\006\003\125\004\012\014\032\103\150\165\156\147\150
\label{eq:condition} $$ 167\141\040\124\145\154\145\143\157\155\040\103\157\056\054\040 $$
\114\164\144\056\061\033\060\031\006\003\125\004\003\014\022\110
\151\120\113\111\040\122\157\157\164\040\103\101\040\055\040\107
\061
END
CKA SERIAL NUMBER
MULTILINE_OCTAL
\002\020\055\335\254\316\142\227\224\241\103\350\260\315\166\152
\136\140
END
CKA TRUST SERVER AUTH CK TRUST CKT NSS TRUSTED DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA TRUST STEP UP APPROVED CK BBOOL CK FALSE
# Certificate "GlobalSign ECC Root CA - R4"
# Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R4
# Serial Number:02:03:e5:7e:f5:3f:93:fd:a5:09:21:b2:a6
# Subject: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R4
# Not Valid Before: Tue Nov 13 00:00:00 2012
# Not Valid After: Tue Jan 19 03:14:07 2038
# Fingerprint (SHA-256):
B0:85:D7:0B:96:4F:19:1A:73:E4:AF:0D:54:AE:7A:0E:07:AA:FD:AF:9B:71:DD:08:62:13:8A:B7:32:5A:24:A2
# Fingerprint (SHA1): 6B:A0:B0:98:E1:71:EF:5A:AD:FE:48:15:80:77:10:F4:BD:6F:0B:28
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL
CK FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign ECC Root CA - R4"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\label{eq:condition} $$ \000120\061\044\060\042\006\003\125\004\013\023\033\107\154\157 $$
\142\141\154\123\151\147\156\040\105\103\103\040\122\157\157\164
\040\103\101\040\055\040\122\064\061\023\060\021\006\003\125\004
\012\023\012\107\154\157\142\141\154\123\151\147\156\061\023\060
```

\021\006\003\125\004\003\023\012\107\154\157\142\141\154\123\151 \147\156

END

CKA ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

END

CKA SERIAL NUMBER MULTILINE OCTAL

 $\label{eq:condition} $$ \002\015\002\03\345\176\365\077\223\375\245\011\041\262\246$ END$

CKA_VALUE MULTILINE_OCTAL

\060\202\001\334\060\202\001\203\240\003\002\001\002\002\015\002 \003\345\176\365\077\223\375\245\011\041\262\246\060\012\006\010 \052\206\110\316\075\004\003\002\060\120\061\044\060\042\006\003 \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:condition} $$ \frac{154}123\frac{151}147\frac{6001023060021006003125004003023012}{154} $$$ \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:condition} $$ \023\012\107\154\157\142\141\154\123\151\147\156\060\131\060\023$ \006\007\052\206\110\316\075\002\001\006\010\052\206\110\316\075 \003\001\007\003\102\000\004\270\306\171\323\217\154\045\016\237 \056\071\031\034\003\244\256\232\345\071\007\011\026\312\143\261 \271\206\370\212\127\301\127\316\102\372\163\241\367\145\102\377 \036\301\000\262\156\163\016\377\307\041\345\030\244\252\331\161 \077\250\324\271\316\214\035\243\102\060\100\060\016\006\003\125 \035\017\001\001\377\004\004\003\002\001\206\060\017\006\003\125 $\label{eq:condition} $$ \035\023\001\001\377\004\005\060\003\001\001\377\060\035\006\003$ \125\035\016\004\026\004\024\124\260\173\255\105\270\342\100\177 \373\012\156\373\276\063\311\074\243\204\325\060\012\006\010\052 \206\110\316\075\004\003\002\003\107\000\060\104\002\040\042\117 \164\162\271\140\257\361\346\234\240\026\005\120\137\303\136\073 \156\141\164\357\276\001\304\276\030\110\131\141\202\062\002\040 \046\235\124\143\100\336\067\140\120\317\310\330\355\235\202\256 \067\230\274\243\217\114\114\251\064\053\154\357\373\225\233\046 **END**

CKA_NSS_MOZILLA_CA_POLICY

```
CK BBOOL
CK TRUE
CKA_NSS_SERVER_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):
B0:85:D7:0B:96:4F:19:1A:73:E4:AF:0D:54:AE:7A:0E:07:AA:FD:AF:9B:71:DD:08:62:13:8A:B7:32:5A:24:A2
# Fingerprint (SHA1): 6B:A0:B0:98:E1:71:EF:5A:AD:FE:48:15:80:77:10:F4:BD:6F:0B:28
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA TOKEN CK BBOOL CK TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA MODIFIABLE CK BBOOL CK FALSE
CKA_LABEL UTF8 "GlobalSign ECC Root CA - R4"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\153\240\260\230\341\161\357\132\255\376\110\025\200\167\020\364
\275\157\013\050
END
CKA CERT MD5 HASH MULTILINE OCTAL
\046\051\370\155\341\210\277\242\145\177\252\304\315\017\177\374
END
CKA ISSUER
MULTILINE_OCTAL
\060\120\061\044\060\042\006\003\125\004\013\023\033\107\154\157
\142\141\154\123\151\147\156\040\105\103\103\040\122\157\157\164
\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:condition} $$ \002\015\002\03\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

 $\label{eq:condition} $$ \060\107\061\013\060\011\006\003\125\004\006\023\002\125\123\061 $$$

 $\\ \\042\\060\\040\\006\\003\\125\\004\\012\\023\\031\\107\\157\\157\\147\\154\\145$

 $\label{eq:condition} $$ \040\124\162\165\163\164\040\123\145\162\166\151\143\145\163\040$$$

\123\040\122\157\157\164\040\122\061

END

CKA ID UTF8 "0"

CKA ISSUER MULTILINE OCTAL

 $\\ \begin{tabular}{l} $\langle 042 \rangle 060 \rangle 040 \rangle 003 \rangle 125 \rangle 004 \rangle 012 \rangle 023 \rangle 031 \rangle 107 \rangle 157 \rangle 147 \rangle 145 \rangle 145$

 $\label{eq:condition} $$ \040\124\162\165\163\164\040\123\145\162\166\151\143\145\163\040$$$

\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

\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 $\label{eq:condition} $$ 33\274\152\056\227\227\243\214\113\371\053\366\261\371\316\204$ \035\261\371\305\227\336\357\271\362\243\351\274\022\211\136\247 $\verb|252|122|253|370|043|047|313|244|261|234|143|333|327|231|176|360|$ \012\136\353\150\246\364\306\132\107\015\115\020\063\343\116\261 \023\243\310\030\154\113\354\374\011\220\337\235\144\051\045\043 $\\ \\007\\241\\264\\322\\075\\056\\140\\340\\317\\322\\011\\207\\273\\315\\110\\360$ \115\302\302\172\210\212\273\272\317\131\031\326\257\217\260\007 \260\236\061\361\202\301\300\337\056\246\155\154\031\016\265\330 $\label{eq:condition} $$ \frac{0.046}{0.32}10.003\\0.75\\2.60\\1.71\\2.44\\2.24\\0.50\\2.55\\0.17\\1.77\\0.46\\3.45$ \250\010\376\226\350\074\150\224\123\356\203\072\210\053\025\226 $\label{eq:condition} $$ \011\262\340\172\214\056\165\326\234\353\247\126\144\217\226\117 $$$ \150\256\075\227\302\204\217\300\274\100\300\013\134\275\366\207 \263\065\154\254\030\120\177\204\340\114\315\222\323\040\351\063 \274\122\231\257\062\265\051\263\045\052\264\110\371\162\341\312 \144\367\346\202\020\215\350\235\302\212\210\372\070\146\212\374 \143\371\001\371\170\375\173\134\167\372\166\207\372\354\337\261 $\label{eq:condition} $$ \016\171\225\127\264\275\046\357\326\001\321\353\026\012\273\216$ \013\265\305\305\212\125\253\323\254\352\221\113\051\314\031\244 \062\045\116\052\361\145\104\320\002\316\252\316\111\264\352\237 $\label{eq:condition} $$ \frac{174\203\260\100\173\347\103\253\247\154\243\217\175\211\201\372}{175\211\201\372} $$$ \114\245\377\325\216\303\316\113\340\265\330\263\216\105\317\166 $\label{eq:condition} $$ 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 $\label{eq:condition} $$ \frac{321}{227}005\frac{271}{313}\frac{355}{071}\frac{3234}{304}077\frac{322}{125}$ \023\156\044\260\326\161\372\364\301\272\314\355\033\365\376\201 \101\330\000\230\075\072\310\256\172\230\067\030\005\225\002\003 \001\000\001\243\102\060\100\060\016\006\003\125\035\017\001\001 \377\004\004\003\002\001\206\060\017\006\003\125\035\023\001\001 \377\004\005\060\003\001\001\377\060\035\006\003\125\035\016\004 \026\004\024\344\257\053\046\161\032\053\110\047\205\057\122\146 \054\357\360\211\023\161\076\060\015\006\011\052\206\110\206\367 $\label{eq:condition} $$ \013\233\276\377\036\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 $\\ \langle 045 \rangle 377 \rangle 174 \langle 025 \rangle 336 \rangle 316 \rangle 214 \langle 045 \rangle 077 \rangle 312 \rangle 142 \rangle 160 \rangle 012 \rangle 367 \rangle 057 \rangle 011$ \146\007\310\077\034\374\360\333\105\060\337\142\210\301\265\017 \235\303\237\112\336\131\131\107\305\207\042\066\346\202\247\355 $\label{eq:condition} $$ \012\271\342\007\240\215\173\172\112\074\161\322\342\003\241\037$ \062\007\335\033\344\102\316\014\000\105\141\200\265\013\040\131 \051\170\275\371\125\313\143\305\074\114\364\266\377\333\152\137 \061\153\231\236\054\301\153\120\244\327\346\030\024\275\205\077 \147\253\106\237\240\377\102\247\072\177\134\313\135\260\160\035 \053\064\365\324\166\011\014\353\170\114\131\005\363\063\102\303 \141\025\020\033\167\115\316\042\214\324\205\362\105\175\267\123 \352\357\100\132\224\012\134\040\137\116\100\135\142\042\166\337 \377\\316\\141\\275\\214\\043\\170\\322\\067\\002\\340\\216\\336\\321\\021\\067 \211\366\277\355\111\007\142\256\222\354\100\032\257\024\011\331 \320\116\262\242\367\276\356\356\330\377\334\032\055\336\270\066 $\label{eq:condition} $$ 161\342\374\171\267\224\045\321\110\163\133\241\065\347\263\231 $$$ \147\165\301\031\072\053\107\116\323\102\216\375\061\310\026\146 \332\322\014\074\333\263\216\311\241\015\200\017\173\026\167\024 $\label{eq:condition} $$ \277\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 $\label{eq:condition} $$ \frac{376}{214}\frac{362}{160}\frac{301}{065}\frac{334}{327}\frac{310}{106}$$ \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

 ${\tt CKA_CLASS\ CK_OBJECT_CLASS\ CKO_NSS_TRUST}$

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:condition} $$ \frac{345}214\\034\\304\\221\\073\\070\\143\\113\\351\\020\\156\\343\\255\\216\\153$

 $\verb|235|331|201|112|$

END

```
CKA CERT MD5 HASH MULTILINE OCTAL
\005\376\320\277\161\250\243\166\143\332\001\340\330\122\334\100
END
CKA ISSUER MULTILINE OCTAL
\060\107\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\042\060\040\006\003\125\004\012\023\031\107\157\157\147\154\145
\040\124\162\165\163\164\040\123\145\162\166\151\143\145\163\040
\114\114\103\061\024\060\022\006\003\125\004\003\023\013\107\124
\123\040\122\157\157\164\040\122\061
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\015\002\003\345\223\157\061\260\023\111\210\153\242\027
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA TRUST EMAIL PROTECTION CK TRUST CKT NSS TRUSTED DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA TRUST STEP UP APPROVED CK BBOOL CK FALSE
# Certificate "GTS Root R2"
# Issuer: CN=GTS Root R2,O=Google Trust Services LLC,C=US
# Serial Number:02:03:e5:ae:c5:8d:04:25:1a:ab:11:25:aa
# Subject: CN=GTS Root R2,O=Google Trust Services LLC,C=US
# Not Valid Before: Wed Jun 22 00:00:00 2016
# Not Valid After: Sun Jun 22 00:00:00 2036
# Fingerprint (SHA-256):
8D:25:CD:97:22:9D:BF:70:35:6B:DA:4E:B3:CC:73:40:31:E2:4C:F0:0F:AF:CF:D3:2D:C7:6E:B5:84:1C:7E:A8
# Fingerprint (SHA1): 9A:44:49:76:32:DB:DE:FA:D0:BC:FB:5A:7B:17:BD:9E:56:09:24:94
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA TOKEN
 CK BBOOL CK TRUE
CKA PRIVATE CK BBOOL CK FALSE
CKA MODIFIABLE CK BBOOL CK FALSE
CKA LABEL UTF8 "GTS Root R2"
CKA CERTIFICATE TYPE CK CERTIFICATE TYPE CKC X 509
CKA_SUBJECT MULTILINE_OCTAL
\label{eq:condition} $$ \060\107\061\013\060\011\006\003\125\004\006\023\002\125\123\061 $$
\\ \\ \langle 042 \rangle 060 \rangle 040 \rangle 006 \rangle 003 \rangle 125 \rangle 004 \rangle 012 \rangle 023 \rangle 031 \rangle 107 \rangle 157 \rangle 147 \rangle 154 \rangle 145 \rangle 145 \rangle 147 
\040\124\162\165\163\164\040\123\145\162\166\151\143\145\163\040
\114\114\103\061\024\060\022\006\003\125\004\003\023\013\107\124
\123\040\122\157\157\164\040\122\062
END
CKA ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\107\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\042\060\040\006\003\125\004\012\023\031\107\157\157\147\154\145
```

\040\124\162\165\163\164\040\123\145\162\166\151\143\145\163\040 \114\114\103\061\024\060\022\006\003\125\004\003\023\013\107\124 \123\040\122\157\157\164\040\122\062

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

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

END

CKA VALUE MULTILINE OCTAL

 $\label{eq:condition} $$ \060\202\005\127\060\202\003\077\240\003\002\001\002\002\015\002$ \003\345\256\305\215\004\045\032\253\021\045\252\060\015\006\011 \052\206\110\206\367\015\001\001\014\005\000\060\107\061\013\060 $\label{eq:condition} $$ \004\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 $\label{eq:condition} $$ 164\040\123\145\162\166\151\143\145\163\040\114\114\103\061\024$$ $\label{eq:condition} $$ \000\022\006\003\125\004\003\023\013\107\124\123\040\122\157\157 $$$ \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:loss} $$ \frac{157}147}154\\145\\040\\124\\162\\165\\163\\164\\040\\123\\145\\162\\166\\151$ \143\145\163\040\114\114\103\061\024\060\022\006\003\125\004\003 \023\013\107\124\123\040\122\157\157\164\040\122\062\060\202\002 $\\ \langle 042 \rangle 060 \rangle 015 \rangle 006 \rangle 011 \rangle 052 \rangle 206 \rangle 110 \rangle 206 \rangle 367 \rangle 015 \rangle 001 \rangle 001 \rangle 005 \rangle 000$ \003\202\002\017\000\060\202\002\012\002\202\002\001\000\316\336 \375\246\373\354\354\024\064\074\007\006\132\154\131\367\031\065 \335\367\301\235\125\252\323\315\073\244\223\162\357\012\372\155 \235\366\360\205\200\133\241\110\122\237\071\305\267\356\050\254 \357\313\166\150\024\271\337\255\001\154\231\037\304\042\035\237 \376\162\167\340\054\133\257\344\004\277\117\162\240\032\064\230 \350\071\150\354\225\045\173\166\241\346\151\271\205\031\275\211 \214\376\255\355\066\352\163\274\377\203\342\313\175\301\322\316 \112\263\215\005\236\213\111\223\337\301\133\320\156\136\360\056 \060\056\202\374\372\274\264\027\012\110\345\210\233\305\233\153 \336\260\312\264\003\360\332\364\220\270\145\144\367\134\114\255 \350\176\146\136\231\327\270\302\076\310\320\023\235\255\356\344 \105\173\211\125\367\212\037\142\122\204\022\263\302\100\227\343 \212\037\107\221\246\164\132\322\370\261\143\050\020\270\263\011 \270\126\167\100\242\046\230\171\306\376\337\045\356\076\345\240 $\label{eq:condition} $$ \frac{177}{324}141\\017\\121\\113\\074\\077\\214\\332\\341\\160\\164\\330\\302\\150$ \241\371\301\014\351\241\342\177\273\125\074\166\006\356\152\116 \314\222\210\060\115\232\275\117\013\110\232\204\265\230\243\325 \373\163\301\127\141\335\050\126\165\023\256\207\216\347\014\121 $\label{eq:condition} $$ \011\020\165\210\114\274\215\371\173\074\324\042\110\037\052\334$ \353\153\273\104\261\313\063\161\062\106\257\255\112\361\214\350 \164\072\254\347\032\042\163\200\322\060\367\045\102\307\042\073 \073\022\255\226\056\306\303\166\007\252\040\267\065\111\127\351 \222\111\350\166\026\162\061\147\053\226\176\212\243\307\224\126 \042\277\152\113\176\001\041\262\043\062\337\344\232\104\155\131

\133\135\365\000\240\034\233\306\170\227\215\220\377\233\310\252 \264\257\021\121\071\136\331\373\147\255\325\133\021\235\062\232 $\label{eq:condition} $$ \033\275\325\272\133\245\311\313\045\151\123\125\047\134\340\312$ $\label{eq:condition} $$ \066\313\210\141\373\036\267\320\313\356\026\373\323\246\114\336$ \222\245\324\342\337\365\006\124\336\056\235\113\264\223\060\252 \201\316\335\032\334\121\163\015\117\160\351\345\266\026\041\031 \171\262\346\211\013\165\144\312\325\253\274\011\301\030\241\377 \324\124\241\205\074\375\024\044\003\262\207\323\244\267\002\003 $\label{eq:condition} $$ \001\000\001\243\102\060\100\060\016\006\003\125\035\017\001\001$ \377\004\004\003\002\001\206\060\017\006\003\125\035\023\001\001 \377\004\005\060\003\001\001\377\060\035\006\003\125\035\016\004 $\label{eq:condition} $$ \026\04\024\273\377\312\216\043\237\117\231\312\333\342\150\246 $$$ \245\025\047\027\036\331\016\060\015\006\011\052\206\110\206\367 $\label{eq:condition} $$ \276\241\237\331\047\114\013\334\027\230\021\152\210\336\075\346$$ \161\126\162\262\236\032\116\234\325\053\230\044\135\233\153\173 \260\063\202\011\275\337\045\106\352\230\236\266\033\376\203\074 \322\142\141\301\004\355\316\340\305\311\310\023\023\125\347\250 \143\255\214\173\001\376\167\060\341\316\150\233\005\370\022\356 $\label{eq:condition} $$ \frac{171 \cdot 061 \cdot 240 \cdot 101 \cdot 105 \cdot 065 \cdot 050 \cdot 012 \cdot 161 \cdot 244 \cdot 044 \cdot 117 \cdot 214 \cdot 334 \cdot 074 \cdot 202}{171 \cdot 061 \cdot 240 \cdot 101 \cdot 105 \cdot 065 \cdot 050 \cdot 012 \cdot 161 \cdot 244 \cdot 044 \cdot 117 \cdot 214 \cdot 334 \cdot 074 \cdot 202}$ \007\137\146\334\175\020\376\014\141\263\005\225\356\341\256\201 \017\250\370\307\217\115\250\043\002\046\153\035\203\122\125\316 \265\057\000\312\200\100\340\341\164\254\140\365\207\200\235\256 \066\144\221\135\260\150\030\352\212\141\311\167\250\227\304\311 $\label{eq:condition} $$ 307\245\374\125\113\363\360\177\271\145\075\047\150\320\314\153$ \372\123\235\341\221\032\311\135\032\226\155\062\207\355\003\040 \310\002\316\132\276\331\352\375\262\115\304\057\033\337\137\172 $\label{eq:condition} $$ 365\370\213\306\356\061\072\045\121\125\147\215\144\062\173\351 $$$ \236\303\202\272\052\055\351\036\264\340\110\006\242\374\147\257 \037\042\002\163\373\040\012\257\235\124\113\241\315\377\140\107 \260\077\135\357\033\126\275\227\041\226\055\012\321\136\235\070 \002\107\154\271\364\366\043\045\270\240\152\232\053\167\010\372 \304\261\050\220\046\130\010\074\342\176\252\327\075\157\272\061 \210\012\005\353\047\265\241\111\356\240\105\124\173\346\047\145 \231\040\041\250\243\274\373\030\226\273\122\157\014\355\203\121 \114\351\131\342\040\140\305\302\145\222\202\214\363\020\037\016 \212\227\276\167\202\155\077\217\035\135\274\111\047\275\314\117 \017\341\316\166\206\004\043\305\300\214\022\133\375\333\204\240 \044\361\110\377\144\174\320\276\134\026\321\357\231\255\300\037 \373\313\256\274\070\042\006\046\144\332\332\227\016\077\050\025 \104\250\117\000\312\360\232\314\317\164\152\264\076\074\353\225 \354\265\323\132\330\201\231\351\103\030\067\353\263\273\321\130 \142\101\363\146\322\217\252\170\225\124\040\303\132\056\164\053 \325\321\276\030\151\300\254\325\244\317\071\272\121\204\003\145 \351\142\300\142\376\330\115\125\226\342\320\021\372\110\064\021 \354\236\355\005\035\344\310\326\035\206\313

END

CKA_NSS_MOZILLA_CA_POLICY

```
CK BBOOL CK TRUE
CKA NSS SERVER 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
\232\104\111\166\062\333\336\372\320\274\373\132\173\027\275\236
\126\011\044\224
END
CKA CERT MD5 HASH MULTILINE OCTAL
\036\071\300\123\346\036\051\202\013\312\122\125\066\135\127\334
END
CKA ISSUER MULTILINE OCTAL
\label{eq:condition} $$ \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\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

\123\040\122\157\157\164\040\122\063

END

CKA ID

UTF8 "0"

CKA ISSUER MULTILINE OCTAL

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

\002\015\002\003\345\270\202\353\040\370\045\047\155\075\146 END

CKA_VALUE MULTILINE_OCTAL

\060\202\002\011\060\202\001\216\240\003\002\001\002\002\015\002 \003\345\270\202\353\040\370\045\047\155\075\146\060\012\006\010 \052\206\110\316\075\004\003\003\060\107\061\013\060\011\006\003 \125\004\006\023\002\125\123\061\042\060\040\006\003\125\004\012 \023\031\107\157\157\147\154\145\040\124\162\165\163\164\040\123 \145\162\166\151\143\145\163\040\114\114\103\061\024\060\022\006 \003\125\004\003\023\013\107\124\123\040\122\157\157\164\040\122 \132\060\107\061\013\060\011\006\003\125\004\006\023\002\125\123 $\\ \\061\\042\\060\\040\\006\\003\\125\\004\\012\\023\\031\\107\\157\\157\\147\\154$ \145\040\124\162\165\163\164\040\123\145\162\166\151\143\145\163 \040\114\114\103\061\024\060\022\006\003\125\004\003\023\013\107 \124\123\040\122\157\157\164\040\122\063\060\166\060\020\006\007 \052\206\110\316\075\002\001\006\005\053\201\004\000\042\003\142 \000\004\037\117\063\207\063\051\212\241\204\336\313\307\041\130 \101\211\352\126\235\053\113\205\306\035\114\047\274\177\046\121

\162\157\342\237\326\243\312\314\105\024\106\213\255\357\176\206 \214\354\261\176\057\377\251\161\235\030\204\105\004\101\125\156 \053\352\046\177\273\220\001\343\113\031\272\344\124\226\105\011 \261\325\154\221\104\255\204\023\216\232\214\015\200\014\062\366 \340\047\243\102\060\100\060\016\006\003\125\035\017\001\001\377 $\label{eq:condition} $$ \004\004\003\002\001\206\060\017\006\003\125\035\023\001\001\377 $$$ \004\005\060\003\001\001\377\060\035\006\003\125\035\016\004\026 $\label{eq:condition} $$ \04\024\301\361\046\272\240\055\256\205\201\317\323\361\052\022 $$$ \275\270\012\147\375\274\060\012\006\010\052\206\110\316\075\004 \003\003\003\151\000\060\146\002\061\000\366\341\040\225\024\173 $\label{eq:condition} $$ \frac{24}243\220\026\021\277\204\310\352\157\153\027\236\036\106\230 }$ $\\ \langle 040 \rangle 233 \rangle 237 \rangle 323 \rangle 015 \rangle 331 \rangle 254 \rangle 323 \rangle 057 \rangle 315 \rangle 174 \rangle 370 \rangle 133 \rangle 056 \rangle 125 \rangle 273 \rangle 237 \rangle$ \277\335\222\367\244\014\334\061\341\242\002\061\000\374\227\146 \146\345\103\026\023\203\335\307\337\057\276\024\070\355\001\316 \261\027\032\021\165\351\275\003\217\046\176\204\345\311\140\246 \225\327\124\131\267\347\021\054\211\324\271\356\027

END

CKA NSS MOZILLA CA POLICY

CK_BBOOL CK_TRUE

CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust

for "GTS Root R3"

Issuer: CN=GTS Root R3,O=Google Trust Services LLC,C=US

Serial Number:02:03:e5:b8:82:eb:20:f8:25:27:6d:3d:66

Subject: CN=GTS Root R3,O=Google Trust Services LLC,C=US

Not Valid Before: Wed Jun 22 00:00:00 2016 # Not Valid After : Sun Jun 22 00:00:00 2036

Fingerprint (SHA-256):

34:D8:A7:3E:E2:08:D9:BC:DB:0D:95:65:20:93:4B:4E:40:E6:94:82:59:6E:8B:6F:73:C8:42:6B:01:0A:6F:48

Fingerprint (SHA1): ED:E5:71:80:2B:C8:92:B9:5B:83:3C:D2:32:68:3F:09:CD:A0:1E:46

CKA CLASS CK OBJECT CLASS CKO NSS TRUST

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "GTS Root R3"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL

\355\345\161\200\053\310\222\271\133\203\074\322\062\150\077\011

\315\240\036\106

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL

\076\347\235\130\002\224\106\121\224\345\340\042\112\213\347\163

END

CKA_ISSUER MULTILINE_OCTAL

\060\107\061\013\060\011\006\003\125\004\006\023\002\125\123\061 \042\060\040\006\003\125\004\012\023\031\107\157\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
\042\060\040\006\003\125\004\012\023\031\107\157\157\147\154\145
\040\124\162\165\163\164\040\123\145\162\166\151\143\145\163\040
\114\114\103\061\024\060\022\006\003\125\004\003\023\013\107\124
\123\040\122\157\157\164\040\122\064
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\015\002\003\345\300\150\357\143\032\234\162\220\120\122
END
```

CKA VALUE

MULTILINE OCTAL

\060\202\002\011\060\202\001\216\240\003\002\001\002\002\015\002 \003\345\300\150\357\143\032\234\162\220\120\122\060\012\006\010 \052\206\110\316\075\004\003\003\060\107\061\013\060\011\006\003 \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 \145\040\124\162\165\163\164\040\123\145\162\166\151\143\145\163 $\label{eq:condition} $$ \040\114\114\103\061\024\060\022\006\003\125\004\003\023\013\107$ \124\123\040\122\157\157\164\040\122\064\060\166\060\020\006\007 $\label{eq:condition} $$ \052\206\110\316\075\002\001\006\005\053\201\004\000\042\003\142 $$$ \000\004\363\164\163\247\150\213\140\256\103\270\065\305\201\060 \173\113\111\235\373\301\141\316\346\336\106\275\153\325\141\030 $\label{eq:condition} $$ \065\256\100\335\163\367\211\221\060\132\353\074\356\205\174\242 $$$ \100\166\073\251\306\270\107\330\052\347\222\221\152\163\351\261 \162\071\237\051\237\242\230\323\137\136\130\206\145\017\241\204 \145\006\321\334\213\311\307\163\310\214\152\057\345\304\253\321 \035\212\243\102\060\100\060\016\006\003\125\035\017\001\001\377 \004\004\003\002\001\206\060\017\006\003\125\035\023\001\001\377 \004\005\060\003\001\001\377\060\035\006\003\125\035\016\004\026 \004\024\200\114\326\353\164\377\111\066\243\325\330\374\265\076 \305\152\360\224\035\214\060\012\006\010\052\206\110\316\075\004 \003\003\003\151\000\060\146\002\061\000\350\100\377\203\336\003 \364\237\256\035\172\247\056\271\257\117\366\203\035\016\055\205 $\label{eq:condition} $$ \001\035\321\331\152\354\017\302\257\307\136\126\136\134\325\034$ \130\042\050\013\367\060\266\057\261\174\002\061\000\360\141\074 \247\364\240\202\343\041\325\204\035\163\206\234\055\257\312\064 \233\361\237\271\043\066\342\274\140\003\235\200\263\232\126\310 \341\342\273\024\171\312\315\041\324\224\265\111\103

END

CKA NSS MOZILLA CA POLICY

CK BBOOL CK TRUE

CKA_NSS_SERVER_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
\167\323\003\147\265\340\014\025\366\014\070\141\337\174\341\073
\222\106\115\107
END
CKA_CERT_MD5_HASH
MULTILINE OCTAL
\103\226\203\167\031\115\166\263\235\145\122\344\035\042\245\350
END
CKA ISSUER MULTILINE OCTAL
\060\107\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\042\060\040\006\003\125\004\012\023\031\107\157\157\147\154\145
\\ \\ 040\\ \\ 124\\ \\ 162\\ \\ 165\\ \\ 163\\ \\ 164\\ \\ 040\\ \\ 123\\ \\ 145\\ \\ 162\\ \\ 166\\ \\ 151\\ \\ 143\\ \\ 145\\ \\ 163\\ \\ 040
\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 Oyi,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 Oyi,C=FI
# Not Valid Before: Thu Nov 29 11:55:54 2018
# Not Valid After: Sun Nov 29 11:55:54 2043
# Fingerprint (SHA-256):
24:2B:69:74:2F:CB:1E:5B:2A:BF:98:89:8B:94:57:21:87:54:4E:5B:4D:99:11:78:65:73:62:1F:6A:74:B8:2C
# Fingerprint (SHA1): B9:99:CD:D1:73:50:8A:C4:47:05:08:9C:8C:88:FB:BE:A0:2B:40:CD
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Telia Root CA v2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
```

CKA SUBJECT MULTILINE OCTAL

 $\label{eq:condition} $$ \00104\061\013\060\011\006\003\125\004\006\023\002\106\111\061 $$ \032\060\030\006\003\125\004\012\014\021\124\145\154\151\141\040 $$ \003\125\004\003\014\020\124\145\154\151\141\040\122\157\157\164 $$ \040\103\101\040\166\062$

END

CKA ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

 $\label{eq:condition} $$ \00104\061\013\060\011\006\003\125\004\006\023\002\106\111\061 $$ \032\060\030\006\003\125\004\012\014\021\124\145\154\151\141\040 $$ \003\125\004\003\014\020\124\145\154\151\141\040\122\157\157\164 $$ \040\103\101\040\166\062$

END

CKA SERIAL NUMBER

MULTILINE_OCTAL

\002\017\001\147\137\047\326\376\172\343\344\254\276\011\133\005\236

END

CKA VALUE MULTILINE OCTAL

\060\202\005\164\060\202\003\134\240\003\002\001\002\002\017\001 $\label{eq:condition} $$ 147\137\047\326\376\172\343\344\254\276\011\133\005\236\060\015$$ \006\011\052\206\110\206\367\015\001\001\013\005\000\060\104\061 \013\060\011\006\003\125\004\006\023\002\106\111\061\032\060\030 $\\ \\006\\ \\003\\ \\125\\ \\004\\ \\012\\ \\014\\ \\021\\ \\124\\ \\145\\ \\154\\ \\151\\ \\141\\ \\040\\ \\106\\ \\151\\ \\156$ \154\141\156\144\040\117\171\152\061\031\060\027\006\003\125\004 $\label{eq:condition} $$ 0.03 \times 0.14 \times 0.20 \times 1.24 \times 1.54 \times 1.51 \times 1.040 \times 1.22 \times 1.57 \times 1.57 \times 1.04 \times 1.040 \times 1.020 \times 1.04 \times 1.040 \times$ \040\166\062\060\036\027\015\061\070\061\061\062\071\061\065 \065\065\064\132\027\015\064\063\061\061\062\071\061\065\065 \106\111\061\032\060\030\006\003\125\004\012\014\021\124\145\154 \151\141\040\106\151\156\154\141\156\144\040\117\171\152\061\031 \060\027\006\003\125\004\003\014\020\124\145\154\151\141\040\122 \157\157\164\040\103\101\040\166\062\060\202\002\0042\060\015\006 \011\052\206\110\206\367\015\001\001\001\005\000\003\202\002\017 \000\060\202\002\012\002\202\002\001\000\262\320\077\007\274\342 $\label{eq:condition} $$173\320\153\231\370\342\167\151\347\316\235\244\003\274\202\155$$ $\label{eq:condition} $$ \241\376\201\145\037\114\047\254\216\000\272\026\173\353\060\152$$ $\label{eq:condition} $$ 000\300\263\164\150\176\262\257\307\325\142\263\172\077\120\312 $$$ \214\066\104\044\143\322\066\351\014\205\366\103\166\325\114\241 \140\162\147\342\050\063\245\313\061\270\072\042\043\064\270\175 \275\126\042\100\235\352\364\173\003\255\150\374\262\201\117\230 \320\164\352\215\345\175\315\143\303\243\366\336\222\302\130\031 \340\226\273\305\304\251\075\245\164\226\376\257\371\211\252\275 \225\027\124\330\170\104\361\014\167\025\222\340\230\102\247\244 \326\252\040\222\315\301\240\263\226\262\072\204\102\215\175\325 \225\344\326\333\351\142\304\130\263\171\305\214\323\065\063\203

\237\165\241\122\047\141\070\361\131\075\216\120\340\275\171\074 \347\154\226\376\136\331\002\145\264\216\134\320\021\064\337\135 \277\122\247\201\000\303\177\231\105\231\025\325\027\310\012\123 \354\143\363\231\175\314\151\022\206\302\027\360\001\236\277\204 \274\321\122\313\033\222\146\316\244\123\345\241\277\304\333\011 $\label{eq:condition} $\326\346\211\126\053\310\343\174\336\343\377\211\345\065\156\050$$ \350\154\013\043\121\251\045\005\353\110\370\335\261\312\372\154 \010\121\357\267\030\154\104\312\046\341\163\306\211\006\201\345 \212\254\260\342\051\306\271\044\263\153\104\021\364\245\103\302 \114\103\345\160\066\214\266\063\127\172\225\056\202\240\364\134 $\label{eq:condition} $$ \020\263\141\203\366\002\005\206\056\174\055\154\334\003\106\156$ $\label{eq:condition} $$ \065\223\325\172\225\057\336\040\330\133\176\224\220\004\152\272$ \131\075\004\005\165\235\067\242\016\056\075\353\301\244\122\203 \376\320\153\324\146\216\334\306\351\022\116\035\052\127\252\020 \274\174\136\202\175\246\246\311\362\055\271\365\027\047\255\321 \016\211\124\053\225\372\300\255\035\230\024\170\063\102\206\012 \251\163\265\373\164\015\267\033\060\031\304\132\016\034\047\267 \332\030\320\377\212\310\005\272\361\252\034\242\067\267\346\110 \244\106\054\224\352\250\166\142\107\213\020\123\007\110\127\154 \342\222\115\266\256\005\313\334\301\112\136\217\254\075\031\116 \302\355\140\165\053\333\301\312\102\325\002\003\001\000\001\243 \143\060\141\060\037\006\003\125\035\043\004\030\060\026\200\024 $\label{eq:condition} $$ 162\254\344\063\171\252\105\207\366\375\254\035\236\326\307\057$$$ \206\330\044\071\060\035\006\003\125\035\016\004\026\004\024\162 \254\344\063\171\252\105\207\366\375\254\035\236\326\307\057\206 \330\044\071\060\016\006\003\125\035\017\001\001\377\004\004\003 \002\001\006\060\017\006\003\125\035\023\001\001\377\004\005\060 $\label{eq:condition} $$ \003\001\001\377\060\015\006\011\052\206\110\206\367\015\001\001$ $\label{eq:condition} $$ \0.013\0.05\0.000\0.003\2.02\0.001\0.000\2.40\0.073\1.31\2.47\0.011\2.24\0.076\0.066 $$$ \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:condition} $$ \frac{007}{171}\frac{52}{341}\frac{346}{352}\frac{221}{202}\frac{151}{012}\frac{35}{303}\frac{176}{131} $$$ \242\236\153\106\025\230\133\323\257\106\035\142\310\316\200\122 $\label{eq:condition} $$ \frac{111}021\\077\\311\\004\\022\\303\\023\\174\\077\\073\\212\\226\\333\\074\\240$ \036\012\264\213\124\262\044\147\015\357\202\313\276\074\175\321 \342\177\256\026\326\126\130\271\332\040\261\203\025\241\357\212 $\label{eq:condition} $$ \frac{115 \cdot 062 \cdot 157 \cdot 101 \cdot 057 \cdot 023 \cdot 122 \cdot 202 \cdot 224 \cdot 327 \cdot 032 \cdot 301 \cdot 170 \cdot 242 \cdot 121 \cdot 335}{120 \cdot 062 \cdot 157 \cdot 101 \cdot 057 \cdot 023 \cdot 122 \cdot 202 \cdot 224 \cdot 327 \cdot 032 \cdot 301 \cdot 170 \cdot 242 \cdot 121 \cdot 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:control} $$ 336 \times 200 \times 277 \times 361 \times 332 \times 321 \times 343 \times 3413 \times 3413 \times 342 \times 260 \times 372 \times 303 \times 34104 \times 365 \times 170 \times 304 \times 222 \times 226 \times 333 \times 332 \times 365 \times 270 \times 364 \times 364 \times 360 \times 365 \times 113 \times 371 \times 345 \times 360 \times 364 \times 361 \times 36$

END

CKA_NSS_MOZILLA_CA_POLICY

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 Oyi,C=FI

Serial Number:01:67:5f:27:d6:fe:7a:e3:e4:ac:be:09:5b:05:9e

Subject: CN=Telia Root CA v2,O=Telia Finland Oyj,C=FI

Not Valid Before: Thu Nov 29 11:55:54 2018

Not Valid After: Sun Nov 29 11:55:54 2043

Fingerprint (SHA-256):

24:2B:69:74:2F:CB:1E:5B:2A:BF:98:89:8B:94:57:21:87:54:4E:5B:4D:99:11:78:65:73:62:1F:6A:74:B8:2C

Fingerprint (SHA1): B9:99:CD:D1:73:50:8A:C4:47:05:08:9C:8C:88:FB:BE:A0:2B:40:CD

CKA CLASS CK OBJECT CLASS CKO NSS TRUST

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "Telia Root CA v2"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL

\271\231\315\321\163\120\212\304\107\005\010\234\214\210\373\276\240\053\100\315

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL

 $\label{eq:condition} $$ \016\217\254\252\202\337\205\261\364\334\020\034\374\231\331\110$$

END

CKA_ISSUER

MULTILINE_OCTAL

 $\label{eq:condition} $$ \000104\001\006\003\125\004\0006\023\002\106\111\006\111\006\003\0006\003\125\004\012\014\021\124\145\154\151\141\040\102\006\003\125\004\003\014\020\124\145\154\151\141\040\122\157\157\164\040\103\101\040\166\062$

END

```
\label{eq:condition} $$ \002\017\001\147\137\047\326\376\172\343\344\254\276\011\133\005
\236
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA TRUST CODE SIGNING CK TRUST CKT NSS MUST VERIFY TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
# Certificate "D-TRUST BR Root CA 1 2020"
# Issuer: CN=D-TRUST BR Root CA 1 2020.O=D-Trust GmbH.C=DE
# Serial Number:7c:c9:8f:2b:84:d7:df:ea:0f:c9:65:9a:d3:4b:4d:96
# Subject: CN=D-TRUST BR Root CA 1 2020,O=D-Trust GmbH,C=DE
# Not Valid Before: Tue Feb 11 09:45:00 2020
# Not Valid After: Sun Feb 11 09:44:59
2035
# Fingerprint (SHA-256):
E5:9A:AA:81:60:09:C2:2B:FF:5B:25:BA:D3:7D:F3:06:F0:49:79:7C:1F:81:D8:5A:B0:89:E6:57:BD:8F:00:44
# Fingerprint (SHA1): 1F:5B:98:F0:E3:B5:F7:74:3C:ED:E6:B0:36:7D:32:CD:F4:09:41:67
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA PRIVATE CK BBOOL CK FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA LABEL UTF8 "D-TRUST BR Root CA 1 2020"
CKA CERTIFICATE TYPE CK CERTIFICATE TYPE CKC X 509
CKA_SUBJECT MULTILINE_OCTAL
\060\110\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\025\060\023\006\003\125\004\012\023\014\104\055\124\162\165\163
\label{eq:condition} $$ 164\040\107\155\142\110\061\042\060\040\006\003\125\004\003\023
\031\104\055\124\122\125\123\124\040\102\122\040\122\157\157\164
\040\103\101\040\061\040\062\060\062\060
END
CKA ID UTF8 "0"
CKA ISSUER MULTILINE OCTAL
\060\110\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\025\060\023\006\003\125\004\012\023\014\104\055\124\162\165\163
\164\040\107\155\142\110\061\042\060\040\006\003\125\004\003\023
\031\104\055\124\122\125\123\124\040\102\122\040\122\157\157\164
\040\103\101\040\061\040\062\060\062\060
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\020\174\311\217\053\204\327\337\352\017\311\145\232\323\113
\115\226
END
CKA_VALUE MULTILINE_OCTAL
```

CKA SERIAL NUMBER MULTILINE OCTAL

\060\202\002\333\060\202\002\140\240\003\002\001\002\002\020\174 \311\217\053\204\327\337\352\017\311\145\232\323\113\115\226\060 \012\006\010\052\206\110\316\075\004\003\003\060\110\061\013\060 \011\006\003\125\004\006\023\002\104\105\061\025\060\023\006\003 \125\004\012\023\014\104\055\124\162\165\163\164\040\107\155\142 \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 $\label{eq:condition} $$ \064\065\060\060\132\027\015\063\065\060\062\061\061\060\071 $$$ \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 $\label{eq:condition} $$ \05124\162\165\163\164\040\107\155\142\110\061\042\060\040\006$ \003\125\004\003\023\031\104\055\124\122\125\123\124\040\102\122 $\label{eq:condition} $$ \040\122\157\157\164\040\103\101\040\061\040\062\060\062\060\060$ $\label{eq:condition} $$ 166\060\020\006\007\052\206\110\316\075\002\001\006\005\053\201 $$$ \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 $\label{eq:condition} $$ \0.017\0.06\0.03\1.25\0.035\0.023\0.01\0.01\3.77\0.04\0.05\0.003\0.001\0.01\3.77$ \060\035\006\003\125\035\016\004\026\004\024\163\221\020\253\377 \125\263\132\174\011\045\325\262\272\010\240\153\253\037\155\060 \016\006\003\125\035\017\001\001\377\004\004\003\002\001\006\060 \201\306\006\003\125\035\037\004\201\276\060\201\273\060\076\240 $\\ \\ \langle 074 \rangle 240 \rangle 072 \rangle 206 \rangle 070 \rangle 150 \rangle 164 \rangle 164 \rangle 160 \rangle 072 \rangle 057 \rangle 057 \rangle 143 \rangle 162 \rangle 154 \rangle 056$ \144\055\164\162\165\163\164\056\156\145\164\057\143\162\154\057 \144\055\164\162\165\163\164\137\142\162\137\162\157\157\164\137 $\label{eq:condition} $$ 143\backslash 141\backslash 137\backslash 061\backslash 137\backslash 062\backslash 060\backslash 062\backslash 060\backslash 056\backslash 143\backslash 162\backslash 154\backslash 060\backslash 171\backslash 240$$ \167\240\165\206\163\154\144\141\160\072\057\057\144\151\162\145 \143\164\157\162\171\056\144\055\164\162\165\163\164\056\156\145 \164\057\103\116\075\104\055\124\122\125\123\124\045\062\060\102 \122\045\062\060\122\157\157\164\045\062\060\103\101\045\062\060 \061\045\062\060\062\060\062\060\054\117\075\104\055\124\162\165 \163\164\045\062\060\107\155\142\110\054\103\075\104\105\077\143 $\\ 145 \\ 162 \\ 164 \\ 151 \\ 146 \\ 151 \\ 143 \\ 141 \\ 164 \\ 145 \\ 162 \\ 145 \\ 166 \\ 157 \\ 143 \\ 141 \\ 141 \\ 145 \\ 162 \\ 145 \\ 166 \\ 157 \\ 143 \\ 141 \\ 1$ \372\341\143\370\141\143\350\255\205\170\124\221\234\270\223\070 \076\032\101\332\100\026\123\102\010\312\057\216\361\076\201\126 \300\252\330\355\030\304\260\256\364\076\372\046\002\061\000\363 \050\342\306\333\053\231\373\267\121\270\044\243\244\224\172\032 $\label{eq:condition} $$ \077\346\066\342\003\127\063\212\060\313\202\307\326\024\021\325$ \165\143\133\024\225\234\037\001\317\330\325\162\247\017\073 **END**

CKA_NSS_MOZILLA_CA_POLICY

```
CK BBOOL CK TRUE
CKA NSS SERVER DISTRUST AFTER CK BBOOL CK FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
# Trust for "D-TRUST BR Root CA 1 2020"
# Issuer: CN=D-TRUST BR Root CA 1 2020,O=D-Trust GmbH,C=DE
# Serial Number:7c:c9:8f:2b:84:d7:df:ea:0f:c9:65:9a:d3:4b:4d:96
# Subject: CN=D-TRUST BR Root CA 1 2020,O=D-Trust GmbH,C=DE
# Not Valid Before: Tue Feb 11 09:45:00 2020
# Not Valid After: Sun Feb 11 09:44:59 2035
# Fingerprint (SHA-256):
E5:9A:AA:81:60:09:C2:2B:FF:5B:25:BA:D3:7D:F3:06:F0:49:79:7C:1F:81:D8:5A:B0:89:E6:57:BD:8F:00:44
# Fingerprint (SHA1): 1F:5B:98:F0:E3:B5:F7:74:3C:ED:E6:B0:36:7D:32:CD:F4:09:41:67
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA PRIVATE CK BBOOL CK FALSE
CKA_MODIFIABLE
CK BBOOL CK FALSE
CKA LABEL UTF8 "D-TRUST BR Root CA 1 2020"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\037\133\230\360\343\265\367\164\074\355\346\260\066\175\062\315
\364\011\101\147
END
CKA CERT MD5 HASH MULTILINE OCTAL
\265\252\113\325\355\367\343\125\056\217\162\012\363\165\270\355
END
CKA ISSUER MULTILINE OCTAL
\label{eq:condition} $$ \060\110\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\025\060\023\006\003\125\004\012\023\014\104\055\124\162\165\163
\164\040\107\155\142\110\061\042\060\040\006\003\125\004\003\023
\label{eq:condition} $$ \031\104\055\124\122\125\123\124\040\102\122\040\122\157\157\164$
\040\103\101\040\061\040\062\060\062\060
END
CKA SERIAL NUMBER MULTILINE OCTAL
\002\020\174\311\217\053\204\327\337\352\017\311\145\232\323\113
\115\226
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
#
# Certificate "D-TRUST EV Root CA 1
2020"
# Issuer: CN=D-TRUST EV Root CA 1 2020,O=D-Trust GmbH,C=DE
```

Serial Number:5f:02:41:d7:7a:87:7c:4c:03:a3:ac:96:8d:fb:ff:d0

Subject: CN=D-TRUST EV Root CA 1 2020,O=D-Trust GmbH,C=DE

Not Valid Before: Tue Feb 11 10:00:00 2020 # Not Valid After : Sun Feb 11 09:59:59 2035

Fingerprint (SHA-256):

08:17:0D:1A:A3:64:53:90:1A:2F:95:92:45:E3:47:DB:0C:8D:37:AB:AA:BC:56:B8:1A:A1:00:DC:95:89:70:DB

Fingerprint (SHA1): 61:DB:8C:21:59:69:03:90:D8:7C:9C:12:86:54:CF:9D:3D:F4:DD:07

CKA CLASS CK OBJECT CLASS CKO CERTIFICATE

CKA TOKEN CK BBOOL CK TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA MODIFIABLE CK BBOOL CK FALSE

CKA_LABEL UTF8 "D-TRUST EV Root CA 1 2020"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA SUBJECT MULTILINE OCTAL

 $\label{eq:condition} $$ \000110061013060011006003125\\00400023\\0021004\\105\\061\\025\\060\\023\\006\\003\\125\\004\\0012\\023\\014\\104\\055\\124\\162\\165\\163\\164\\0404\\0107\\155\\142\\110\\061\\042\\060\\040\\006\\040\\006\\003\\125\\004\\003\\023\\031\\104\\055\\124\\122\\125\\123\\124\\040\\105\\126\\040\\122\\157\\157\\164\\040\\103\\101\\040\\061\\040\\062\\060\\062\\060\\0$

END

CKA_ID

UTF8 "0"

CKA ISSUER MULTILINE OCTAL

 $\label{eq:condition} $$ \000110061013\060\011\006\003\125\004\006\023\002\104\105\061\025\060\023\006\003\125\004\012\023\014\104\055\124\162\165\163\164\040\107\155\142\110\061\042\060\040\006\003\125\004\003\023\031\104\055\124\122\125\123\124\040\105\126\040\122\157\157\164\040\103\101\040\061\040\062\060\062\060$

END

CKA SERIAL NUMBER MULTILINE OCTAL

\002\020\137\002\101\327\172\207\174\114\003\243\254\226\215\373 \377\320

END

CKA_VALUE MULTILINE_OCTAL

\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:condition} $$ \027\135\305\360\261\212\371\357\271\267\024\312\051\112\302\017 $$$ \251\177\165\145\111\052\060\147\364\144\367\326\032\167\332\303 \302\227\141\102\173\111\255\243\202\001\015\060\202\001\011\060 \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 $\label{eq:condition} $$ \201\306\006\003\125\035\037\004\201\276\060\201\273\060\076\240 $$$ \074\240\072\206\070\150\164\164\160\072\057\057\143\162\154\056 \144\055\164\162\165\163\164\056\156\145\164\057\143\162\154\057 \144\055\164\162\165\163\164\137\145\166\137\162\157\157\164\137 \143\141\137\061\137\062\060\062\060\056\143\162\154\060\171\240 $\label{eq:condition} $$ \frac{167}{240}165\\206\\163\\154\\144\\141\\160\\072\\057\\057\\144\\151\\162\\145$ \143\164\157\162\171\056\144\055\164\162\165\163\164\056\156\145 \164\057\103\116\075\104\055\124\122\125\123\124\045\062\060\105 \126\045\062\060\122\157\157\164\045\062\060\103\101\045\062\060 \061\045\062\060\062\060\062\060\054\117\075\104\055\124\162\165 \163\164\045\062\060\107\155\142\110\054\103\075\104\105\077\143 $\\ 145 \\ 162 \\ 164 \\ 151 \\ 146 \\ 151 \\ 143 \\ 141 \\ 164 \\ 145 \\ 162 \\ 145 \\ 166 \\ 157 \\ 143 \\ 141 \\ 141 \\ 142 \\ 145 \\ 162 \\ 145 \\ 166 \\ 157 \\ 143 \\ 141 \\ 1$ \164\151\157\156\154\151\163\164\060\012\006\010\052\206\110\316 $\label{eq:condition} $$ \0.03\0.03\0.03\1.51\0.00\0.60\1.46\0.02\0.61\0.00\3.12\0.74\3.06\0.52$$ \165\302\136\165\142\071\066\000\140\132\213\301\223\231\314\331 \333\101\073\073\207\231\027\073\325\314\117\312\042\367\240\200 $\label{eq:condition} $$ \frac{313}{371} 264 \times 261 \times 3126 \times 365 \times 162 \times 322 \times 374 \times 311 \times 21002 \times 61 \times 000 \times 221 \times 1000 \times 10000 \times 1000 \times 1$ \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"
```

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

[#] 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):

```
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
\label{eq:condition} $$ 141\333\214\041\131\151\003\220\330\174\234\022\206\124\317\235 $$
\075\364\335\007
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\214\055\235\160\237\110\231\021\006\021\373\351\313\060\300\156
END
CKA_ISSUER MULTILINE_OCTAL
\060\110\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\label{eq:condition} $$ \025\060\023\006\003\125\004\012\023\014\104\055\124\162\165\163
\164\040\107\155\142\110\061\042\060\040\006\003\125\004\003\023
\031\104\055\124\122\125\123\124\040\105\126\040\122\157\157\164
\040\103\101\040\061\040\062\060\062\060
END
CKA SERIAL NUMBER MULTILINE OCTAL
\label{eq:condition} $$ \002\020\137\002\101\327\172\207\174\114\003\243\254\226\215\373
\377\320
END
CKA_TRUST_SERVER_AUTH
CK TRUST CKT NSS TRUSTED DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA TRUST CODE SIGNING CK TRUST CKT NSS MUST VERIFY TRUST
CKA TRUST STEP UP APPROVED CK BBOOL CK FALSE
# Certificate "DigiCert TLS ECC P384 Root G5"
# Issuer: CN=DigiCert TLS ECC P384 Root G5,O="DigiCert, Inc.",C=US
# Serial Number:09:e0:93:65:ac:f7:d9:c8:b9:3e:1c:0b:04:2a:2e:f3
# Subject: CN=DigiCert TLS ECC P384 Root G5,O="DigiCert, Inc.",C=US
# Not Valid Before: Fri Jan 15 00:00:00 2021
# Not Valid After: Sun Jan 14 23:59:59 2046
# Fingerprint (SHA-256):
01:8E:13:F0:77:25:32:CF:80:9B:D1:B1:72:81:86:72:83:FC:48:C6:E1:3B:E9:C6:98:12:85:4A:49:0C:1B:05
# Fingerprint (SHA1): 17:F3:DE:5E:9F:0F:19:E9:8E:F6:1F:32:26:6E:20:C4:07:AE:30:EE
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert TLS ECC P384 Root G5"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE
CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\116\061\013\060\011\006\003\125\004\006\023\002\125\123\061
```

CKA TOKEN CK BBOOL CK TRUE

\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

 $\label{eq:condition} $$ \00116\0011\006\003\125\004\006\023\002\125\123\061 $$ \027\060\025\006\003\125\004\012\023\016\104\151\147\151\103\145 $$ $$ \003\023\035\104\151\147\151\103\145\162\164\040\124\114\123\040 $$ \003\023\035\104\151\147\151\103\145\162\164\040\124\114\123\040 $$ \105\103\103\040\120\063\070\064\040\122\157\157\164\040\107\065 $$ END$

CKA_SERIAL_NUMBER MULTILINE_OCTAL

\002\020\011\340\223\145\254\367\331\310\271\076\034\013\004\052 \056\363

END

CKA_VALUE MULTILINE_OCTAL

\060\202\002\031\060\202\001\237\240\003\002\001\002\002\020\011 \340\223\145\254\367\331\310\271\076\034\013\004\052\056\363\060 \012\006\010\052\206\110\316\075\004\003\003\060\116\061\013\060 \011\006\003\125\004\006\023\002\125\123\061\027\060\025\006\003 \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 \061\060\061\061\065\060\060\060\060\060\060\132\027\015\064\066 \060\061\061\064\062\063\065\071\065\071\132\060\116\061\013\060 \011\006\003\125\004\006\023\002\125\123\061\027\060\025\006\003 \125\004\012\023\016\104\151\147\151\103\145\162\164\054\040\111 $\label{eq:condition} $$ \frac{156}{143}056\\061\\046\\060\\044\\006\\003\\125\\004\\003\\023\\035\\104\\151$ \147\151\103\145\162\164\040\124\114\123\040\105\103\103\040\120 \063\070\064\040\122\157\157\164\040\107\065\060\166\060\020\006 \007\052\206\110\316\075\002\001\006\005\053\201\004\000\042\003 \142\000\004\301\104\241\317\021\227\120\232\336\043\202\065\007 \315\320\313\030\235\322\361\177\167\065\117\073\335\224\162\122 \355\302\073\370\354\372\173\153\130\040\354\231\256\311\374\150 \263\165\271\333\011\354\310\023\365\116\306\012\035\146\060\114 $\label{eq:condition} $$ \273\037\107\012\074\141\020\102\051\174\245\010\016\340\042\351 $$$ \323\065\150\316\233\143\237\204\265\231\115\130\240\216\365\124 \347\225\311\243\102\060\100\060\035\006\003\125\035\016\004\026 \004\024\301\121\105\120\131\253\076\347\054\132\372\040\042\022 \007\200\210\174\021\152\060\016\006\003\125\035\017\001\001\377 \004\004\003\002\001\206\060\017\006\003\125\035\023\001\001\377 $\label{eq:condition} $$ \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 $\label{eq:condition} $$ \056\001\241\171\006\221\235\110\277\302\276\002\060\107\303\025\173\261\240\221\231\111\223\250\074\174\350\106\006\213\054\362\061\000\224\235\142\310\211\275\031\204\024\351\245\373\001\270\015\166\103\214\056\123\313\174\337\014\027\226\120$

END

CKA_NSS_MOZILLA_CA_POLICY

CK BBOOL CK TRUE

CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

- # Trust for "DigiCert TLS ECC P384 Root G5"
- # Issuer: CN=DigiCert TLS ECC P384 Root G5,O="DigiCert, Inc.",C=US
- # Serial Number:09:e0:93:65:ac:f7:d9:c8:b9:3e:1c:0b:04:2a:2e:f3
- # Subject: CN=DigiCert TLS ECC P384 Root G5,O="DigiCert, Inc.",C=US
- # Not Valid Before: Fri Jan 15 00:00:00 2021
- # Not Valid After: Sun Jan 14 23:59:59 2046
- # Fingerprint (SHA-256):

01:8E:13:F0:77:25:32:CF:80:9B:D1:B1:72:81:86:72:83:FC:48:C6:E1:3B:E9:C6:98:12:85:4A:49:0C:1B:05

Fingerprint (SHA1): 17:F3:DE:5E:9F:0F:19:E9:8E:F6:1F:32:26:6E:20:C4:07:AE:30:EE

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

CKA TOKEN CK BBOOL CK TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "DigiCert TLS ECC P384 Root G5"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL

 $\\027\\363\\336\\136\\237\\017\\031\\351\\216\\366\\037\\062\\046\\156\\040\\304$

\007\256\060\356

END

CKA_CERT_MD5_HASH

MULTILINE_OCTAL

\323\161\004\152\103\034\333\246\131\341\250\243\252\305\161\355

END

CKA_ISSUER MULTILINE_OCTAL

\060\116\061\013\060\011\006\003\125\004\006\023\002\125\123\061

\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

 $\label{eq:condition} $$ 105\103\103\040\120\063\070\064\040\122\157\157\164\040\107\065$$

END

 $CKA_SERIAL_NUMBER\ MULTILINE_OCTAL$

\002\020\011\340\223\145\254\367\331\310\271\076\034\013\004\052

 $\langle 056 \rangle 363$

END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR

 ${\tt CKA_TRUST_EMAIL_PROTECTION\ CK_TRUST\ CKT_NSS_MUST_VERIFY_TRUST}$

CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST

 ${\tt CKA_TRUST_STEP_UP_APPROVED\ CK_BBOOL\ CK_FALSE}$

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

 $\label{eq:condition} $$ \0011\006\003\125\004\006\023\002\125\123\061 $$ \027\060\025\006\003\125\004\012\023\016\104\151\147\151\103\145 $$ \162\164\054\040\111\156\143\056\061\045\060\043\006\003\125\004 $$ \003\023\034\104\151\147\151\103\145\162\164\040\124\114\123\040 $$ \122\123\101\064\060\071\066\040\122\157\157\164\040\107\065 $$ END$

CKA ID UTF8 "0"

CKA ISSUER MULTILINE OCTAL

 $\label{eq:condition} $$ \000115\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\040\043\006\003\125\004\003\023\034\104\151\147\151\103\145\162\164\040\124\114\123\040\122\123\101\064\060\071\066\040\122\157\157\164\040\107\065\ END$

CKA SERIAL NUMBER

MULTILINE OCTAL

\002\020\010\371\264\170\250\372\176\332\152\063\067\211\336\174 \317\212

END

CKA_VALUE MULTILINE_OCTAL

\064\066\060\061\061\064\062\063\065\071\065\071\132\060\115\061 \006\003\125\004\012\023\016\104\151\147\151\103\145\162\164\054 \040\111\156\143\056\061\045\060\043\006\003\125\004\003\023\034 \104\151\147\151\103\145\162\164\040\124\114\123\040\122\123\101 $\label{eq:condition} $$ \064\060\071\066\040\122\157\157\164\040\107\065\060\202\002\042 $$$ \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 $\label{eq:condition} $$ \013\231\275\154\127\332\030\112\270\170\254\072\071\250\246\110 $$$ \254\056\162\345\275\353\361\032\315\347\244\003\251\077\021\264 \330\057\211\026\373\224\001\075\273\057\370\023\005\241\170\034 $\label{eq:condition} $$ \216\050\340\105\340\203\364\131\033\225\263\256\176\003\105\345 $$$ \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 $\label{eq:condition} $$ \053\275\164\233\027\055\362\201\332\135\260\341\043\027\076\210 $$$ \112\022\043\320\352\317\235\336\003\027\261\102\112\240\026\114 \244\155\223\351\077\072\356\072\174\235\130\235\364\116\217\374 \073\043\310\155\270\342\005\332\314\353\354\303\061\364\327\247 \051\124\200\317\104\133\114\157\060\236\363\314\335\037\224\103 \235\115\177\160\160\015\324\072\321\067\360\154\235\233\300\024 $\label{eq:condition} $$ \223\130\357\315\101\070\165\274\023\003\225\174\177\343\134\351 $$$ \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 $\label{eq:condition} $$ \056\373\362\317\246\374\343\024\054\226\230\041\214\264\221\351 $$$ \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 $\label{eq:condition} $$ \053\046\077\375\052\057\161\365\326\044\276\177\061\236\017\155$$ \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 $\label{eq:condition} $$ \005\06\003\001\001\377\060\015\006\011\052\206\110\206\367\015 $$$ \001\001\014\005\000\003\202\002\001\000\140\246\257\133\137\127 \332\211\333\113\120\251\304\043\065\041\377\320\141\060\204\221 \267\077\020\317\045\216\311\277\106\064\331\301\041\046\034\160

\031\162\036\243\311\207\376\251\103\144\226\072\310\123\004\012 \266\101\273\304\107\000\331\237\030\030\073\262\016\363\064\352 \044\367\335\257\040\140\256\222\050\137\066\347\135\344\336\307 $\label{eq:condition} $$ \074\33\120\071\255\273\075\050\115\226\174\166\306\133\364\301 $$$ $\label{eq:condition} $$ \33\024\245\253\031\142\007\030\100\137\227\221\334\234\307\253$ \265\121\015\346\151\123\125\314\071\175\332\305\021\125\162\305 \073\213\211\370\064\055\244\027\345\027\346\231\175\060\210\041 $\label{eq:condition} $$ \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 $\label{eq:condition} $$ \061\170\364\352\044\141\073\253\130\144\377\273\207\047\142\045 $$$ \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 $\label{eq:condition} $$ 140\076\255\200\020\011\335\071\045\057\130\177\273\322\164\360 $$$ \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 $\label{eq:condition} $$ 247\253\157\357\237\337\114\317\001\270\142\152\043\075\347\011 $$$ \115\200\033\173\060\244\303\335\007\177\064\276\244\046\262\366 \101\350\011\035\343\040\230\252\067\117\377\367\361\342\051\160 $\label{eq:condition} $$ \061\107\077\164\320\024\026\372\041\212\002\325\212\011\224\167 $$$ $\label{eq:condition} $$ \056\362\131\050\213\174\120\222\012\146\170\070\203\165\304\265$$ \132\250\021\306\345\301\235\146\125\317\123\304\257\327\165\205 $\verb|\|251|102|023|126|354|041|167|201|223|132|014|352|226|331|111|312|$ \241\010\362\227\073\155\233\004\030\044\104\216\174\001\362\334 \045\330\136\206\232\261\071\333\365\221\062\152\321\246\160\212 $\label{eq:condition} $$ \242\367\336\244\105\205\046\250\036\214\135\051\133\310\113\330 $$$ \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"
```

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

[#] 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):

^{37:1}A: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 MODIFIABLE CK BBOOL CK FALSE
CKA LABEL UTF8 "DigiCert TLS RSA4096 Root G5"
CKA CERT SHA1 HASH MULTILINE OCTAL
\247\210\111\334\135\174\165\214\214\336\071\230\126\263\252\320
\262\245\161\065
END
CKA CERT MD5 HASH
MULTILINE OCTAL
\254\376\367\064\226\251\362\263\264\022\113\344\047\101\157\341
END
CKA ISSUER MULTILINE OCTAL
\label{eq:condition} $$ \060\115\061\013\060\011\006\003\125\004\006\023\002\125\123\061 $$
\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
\label{eq:condition} $$ \003\023\034\104\151\147\151\103\145\162\164\040\124\114\123\040 $$
\122\123\101\064\060\071\066\040\122\157\157\164\040\107\065
END
CKA SERIAL NUMBER MULTILINE OCTAL
\002\020\010\371\264\170\250\372\176\332\152\063\067\211\336\174
\317\212
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA TRUST CODE SIGNING CK TRUST CKT NSS MUST VERIFY TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
# Certificate "DigiCert SMIME ECC P384 Root G5"
# Issuer: CN=DigiCert SMIME ECC P384 Root G5,O="DigiCert, Inc.",C=US
# Serial Number:05:3f:6e:a0:06:01:72:7d:ed:3f:c3:a3:b6:a3:d6:ef
Subject: CN=DigiCert SMIME ECC P384 Root G5,O="DigiCert, Inc.",C=US
# Not Valid Before: Fri Jan 15 00:00:00 2021
# Not Valid After: Sun Jan 14 23:59:59 2046
# Fingerprint (SHA-256):
E8;E8:17;65;36;A6;0C;C2;C4;E1;01;87;C3;BE;FC;A2;0E;F2;63;49;70;18;F5;66;D5;BE;A0;F9;4D;0C;11;1B
# Fingerprint (SHA1): 1C:B8:A7:08:C9:0D:20:79:01:A0:B2:36:7F:F0:95:65:E4:53:24:FE
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert SMIME ECC P384 Root G5"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\120\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\162\164\054\040\111\156\143\056\061\050\060\046\006\003\125\004
```

\003\023\037\104\151\147\151\103\145\162\164\040\123\115\111\115 \105\040\105\103\103\040\120\063\070\064\040\122\157\157\164\040 \107\065

END

CKA ID

UTF8 "0"

CKA ISSUER MULTILINE OCTAL

 $\label{eq:condition} $$ \000120\061\013\060\011\006\003\125\004\006\023\002\125\123\061\027\060\025\006\003\125\004\012\023\016\104\151\147\151\103\145\162\164\006\006\003\125\004\003\023\037\104\151\147\151\103\145\162\164\040\123\115\111\115\105\040\105\103\103\040\120\063\070\064\040\122\157\157\164\040\107\065$$

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

\002\020\005\077\156\240\006\001\162\175\355\077\303\243\266\243 \326\357

END

CKA VALUE MULTILINE OCTAL

\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 \125\004\012\023\016\104\151\147\151\103\145\162\164\054\040\111 \156\143\056\061\050\060\046\006\003\125\004\003\023\037\104\151 \147\151\103\145\162\164\040\123\115\111\115\105\040\105\103\103 \040\120\063\070\064\040\122\157\157\164\040\107\065\060\036\027 \015\062\061\060\061\061\065\060\060\060\060\060\060\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 \040\111\156\143\056\061\050\060\046\006\003\125\004\003\023\037 \104\151\147\151\103\145\162\164\040\123\115\111\115\105\040\105 \103\103\040\120\063\070\064\040\122\157\157\164\040\107\065\060 \166\060\020\006\007\052\206\110\316\075\002\001\006\005\053\201 \004\000\042\003\142\000\004\026\235\125\345\266\324\373\373\147 \153\032\324\241\252\322\167\225\076\210\345\007\237\266\160\146 $\label{eq:condition} $$ \040\050\244\210\354\160\065\257\263\062\377\067\023\112\236\274 $$$ $\label{eq:condition} $$ \001\003\336\204\301\270\306\346\145\107\211\362\023\125\277\315 $$$ \245\036\010\140\177\255\177\350\141\222\051\317\011\107\136\013 \034\300\037\244\277\362\133\274\230\357\231\114\314\160\153\266 \272\320\050\035\277\276\004\243\102\060\100\060\035\006\003\125 \035\016\004\026\004\024\163\172\153\226\333\102\007\213\122\146 \302\144\062\027\376\340\147\220\056\255\060\016\006\003\125\035 \017\001\001\377\004\004\003\002\001\206\060\017\006\003\125\035 \023\001\001\377\004\005\060\003\001\001\377\060\012\006\010\052 \206\110\316\075\004\003\003\003\147\000\060\144\002\060\067\104 \365\062\200\343\161\353\364\155\317\174\314\221\232\303\156\161

 $\label{eq:control} $$ 330\322\043\135\222\115\202\102\155\134\141\225\366\221\365\247 $$ 010\366\152\227\351\234\224\055\230\160\375\063\266\011\0002\060 $$ 007\074\057\271\130\202\136\017\243\142\250\223\147\360\040\303 $$ 151\277\003\054\073\120\247\073\257\101\070\311\122\110\221\326 $$ 016\373\274\140\060\174\144\077\022\036\105\177\121\076\364\246 END$

CKA NSS MOZILLA CA POLICY

CK_BBOOL CK_TRUE

CKA_NSS_SERVER_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:condition} $$ \034\270\247\010\311\015\040\171\001\240\262\066\177\360\225\145$$

\344\123\044\376

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL

\246\376\364\122\066\104\330\356\015\267\003\013\357\164\263\003

END

CKA_ISSUER MULTILINE_OCTAL

\060\120\061\013\060\011\006\003\125\004\006\023\002\125\123\061

\027\060\025\006\003\125\004\012\023\016\104\151\147\151\103\145

\162\164\054\040\111\156\143\056\061\050\060\046\006\003\125\004

\003\023\037\104\151\147\151\103\145\162\164\040\123\115\111\115

 $\label{eq:condition} $$ 105\040\105\103\103\040\120\063\070\064\040\122\157\157\164\040 $$$

\107\065

END

CKA_SERIAL_NUMBER

MULTILINE_OCTAL

 $\label{eq:condition} $$ \002\020\005\077\156\240\006\001\162\175\355\077\303\243\266\243 $$$

\326\357

END

 ${\tt CKA_TRUST_SERVER_AUTH\ CK_TRUST\ CKT_NSS_MUST_VERIFY_TRUST}$

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

 $\label{eq:condition} $$ \060\11\006\003\125\004\006\023\002\125\123\061 $$$

\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

 $\label{eq:condition} $$ \000117\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\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

 $\label{eq:condition} $$ \000\200\5\152\060\202\003\122\240\003\002\001\002\002\002\0005\\ 366\272\004\043\203\106\313\175\134\346\271\133\272\034\125\060\\ 015\006\011\052\206\110\206\367\015\001\001\014\005\000\060\117\\ 061\013\060\011\006\003\125\004\006\023\002\125\123\061\027\060\\ $$$

\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 $\label{eq:local_$ \036\027\015\062\061\060\061\061\065\060\060\060\060\060\060\060\132 $\label{eq:condition} $$ \027\015\064\066\060\061\061\064\062\063\065\071\065\071\132\060 $$$ \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 $\label{eq:condition} $$ 164\054\040\111\156\143\056\061\047\060\045\006\003\125\004\003$ \023\036\104\151\147\151\103\145\162\164\040\123\115\111\115\105 $\label{eq:condition} $$ \040\122\123\101\064\060\071\066\040\122\157\157\164\040\107\065$$$ $\label{eq:condition} $$ \0.060\202\0.042\0.060\0.15\0.06\0.11\0.52\2.06\1.10\2.06\3.67\0.15\0.01\0.01$$ \001\005\000\003\202\002\017\000\060\202\002\012\002\202\002\001 $\label{eq:condition} $$ \000\340\152\133\331\370\371\175\354\265\173\357\137\335\134\064$$$ \330\332\135\321\313\145\165\253\041\174\133\000\324\202\157\105 \205\101\212\251\022\002\162\062\360\024\365\003\165\273\143\227 \111\017\100\231\013\032\036\126\247\322\320\341\253\335\345\004 \033\343\037\024\022\002\210\365\240\200\011\366\047\232\120\360 \272\343\242\340\254\152\024\221\265\153\070\020\172\242\061\341 \221\033\267\271\360\053\133\310\167\011\166\267\121\304\066\012 \231\123\124\104\045\267\011\065\206\027\005\126\223\075\101\267 $\label{eq:condition} $$ \002\327\142\037\212\222\021\207\352\021\155\352\010\021\334\261 $$$ $\label{eq:condition} $$ \frac{170}{110}\frac{1222}{366}\frac{264}{121}\frac{200}{170}\frac{3330}{376}\frac{341}{126}\frac{032}{072} $$$ \220\023\126\064\211\325\342\225\213\137\336\262\314\373\077\070 \267\205\367\352\236\277\056\241\056\057\115\175\152\021\056\066 \240\377\021\010\004\225\125\340\033\073\147\223\251\224\125\352 \062\355\006\072\177\302\177\343\255\023\047\321\064\101\263\060 $\label{eq:condition} $$ 303\277\264\210\370\003\202\244\337\076\253\170\167\240\131\223$ \161\347\335\353\000\004\173\314\110\071\050\340\036\243\025\151 \310\066\262\241\013\227\337\125\326\357\221\234\244\366\026\367 \121\012\356\003\043\221\334\004\377\340\335\070\366\042\003\000 \302\007\161\032\022\311\327\106\052\224\033\315\326\273\033\356 \277\276\115\120\130\260\013\315\060\166\051\365\317\345\266\152 \057\166\260\260\151\152\320\155\145\030\065\176\223\274\162\027 \301\125\102\315\057\302\045\273\364\375\035\241\144\042\124\135 \342\236\162\101\204\156\161\226\352\105\007\266\136\172\112\206 \235\163\144\167\070\003\322\017\123\245\125\040\304\115\377\150 $\label{eq:condition} $$ \frac{157}{125}\frac{352}{335}\frac{161}{344}\frac{31}{205}\frac{243}{174}\frac{116}{051}\frac{236}{002}$$ $\label{eq:condition} $$ \013\011\362\032\123\314\000\246\335\321\064\366\015\301\060\261 $$$ \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 \102\236\143\026\316\264\306\073\037\060\016\006\003\125\035\017

\001\001\377\004\004\003\002\001\206\060\017\006\003\125\035\023 \001\001\377\004\005\060\003\001\001\377\060\015\006\011\052\206 \110\206\367\015\001\001\014\005\000\003\202\002\001\000\007\247 $\label{eq:condition} $$ \012\336\123\273\232\353\160\277\262\066\220\315\344\247\270\361 $$$ \014\344\135\132\035\170\145\374\311\270\036\043\021\127\174\151 $\label{eq:condition} $$ \065\155\001\377\123\120\277\007\016\272\307\001\077\130\052\224 $$$ \165\003\253\034\013\043\334\033\212\036\067\075\035\130\217\163 $\label{eq:condition} $$ \frac{331}{263}052\\157\\337\\020\\240\\133\\014\\247\\312\\260\\177\\271\\044\\242$ $\label{eq:condition} $$ \001\065\062\345\136\106\101\353\330\177\163\347\102\351\244\121 $$$ \046\167\201\012\250\353\017\012\120\235\176\212\040\147\374\013 \216\072\021\323\305\214\140\030\331\113\261\374\324\361\264\111 $\label{eq:condition} $$ \frac{321}{373}\frac{363}{006}\frac{317}{227}\frac{363}{014}\frac{351}{363} $$$ \236\165\201\134\123\015\042\374\066\346\111\156\164\333\000\205 \215\174\042\240\216\373\020\114\324\142\023\133\357\113\162\046 \213\374\116\212\217\376\227\020\123\305\170\213\102\144\033\137 \340\211\375\273\011\177\120\340\124\205\046\021\152\035\145\371 \111\051\334\174\066\337\373\075\367\322\254\356\062\215\156\246 \175\071\234\105\304\312\015\365\073\264\171\123\245\057\126\307 \121\305\212\114\144\135\220\103\043\216\153\114\027\170\314\350 \277\365\073\344\250\110\317\255\233\014\337\062\112\323\331\022 \216\043\170\015\055\257\237\257\236\074\011\302\227\000\355\072 \151\034\161\077\071\337\323\217\304\146\365\357\066\224\017\363 $\label{eq:condition} $$ 35\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:condition} $$ 301\377\330\352\057\126\357\225\053\173\004\136\147\343\125\100 $$$ \355\071\004\371\013\171\365\152\214\134\017\211\232\220\307\315 \213\336\333\046\065\241\156\315\263\102\362\242\017\073\014\216 \223\377\024\317\374\367\223\367\344\101\010\156\031\122\021\017 \123\031\163\170\014\317\330\205\201\370\255\125\310\260\236\106 \143\257\234\122\356\134\277\360\300\133\067\036\011\040\322\076 \043\306\241\025\112\016\066\176\060\305\171\152\274\042\210\331 \014\122\100\037\335\116\017\147\046\026\322\255\027\034

CKA_NSS_MOZILLA_CA_POLICY

CK BBOOL CK TRUE

END

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

```
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
\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
```

Fingerprint (SHA-256):

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA LABEL UTF8 "Certainly Root R1"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509 CKA SUBJECT MULTILINE OCTAL

CKA ID UTF8 "0"

CKA ISSUER MULTILINE OCTAL

 $\label{eq:condition} $$ \000/075/061/013/060/011/006/003/125/004/006/023/002/125/123/061 $$ \022/060/020/006/003/125/004/012/023/011/103/145/162/164/141/151 $$ \156/154/171/061/032/060/030/006/003/125/004/003/023/021/103/145/162/164/141/151/156/154/171/040/122/157/157/164/040/122/061 END$

CKA_SERIAL_NUMBER MULTILINE_OCTAL

 $\label{eq:condition} $$ \002\021\000\216\017\371\113\220\161\150\145\063\124\364\324\104\071\267\340$

END

CKA VALUE

MULTILINE_OCTAL

 $\label{eq:condition} $$ \0.060\202\005\107\060\202\003\057\240\003\002\001\002\002\002\1\000$ \216\017\371\113\220\161\150\145\063\124\364\324\104\071\267\340 \060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060 \075\061\013\060\011\006\003\125\004\006\023\002\125\123\061\022 \060\020\006\003\125\004\012\023\011\103\145\162\164\141\151\156 \164\141\151\156\154\171\040\122\157\157\164\040\122\061\060\036 \027\015\062\061\060\064\060\061\060\060\060\060\060\060\060\132\027 \061\013\060\011\006\003\125\004\006\023\002\125\123\061\022\060 \020\006\003\125\004\012\023\011\103\145\162\164\141\151\156\154 \171\061\032\060\030\006\003\125\004\003\023\021\103\145\162\164 \141\151\156\154\171\040\122\157\157\164\040\122\061\060\202\002 \042\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000 \003\202\002\017\000\060\202\002\012\002\202\002\001\000\320\066 \324\037\352\335\253\344\321\266\346\373\042\300\335\023\015\152 $\label{eq:condition} $$ 173\042\023\034\227\074\150\143\146\062\234\003\265\215\244\201 $$$ \203\332\170\060\021\317\334\262\053\276\222\277\216\344\304\023 \276\244\150\114\332\002\150\026\164\276\262\335\004\344\153\052 \335\067\037\140\054\333\365\367\241\174\225\267\014\160\206\056 \361\072\357\122\367\314\323\233\371\213\276\016\337\061\267\235 \150\134\222\246\365\345\363\012\064\265\377\173\242\344\207\241 \306\257\027\000\357\003\221\355\251\034\116\161\075\322\213\154 \211\364\170\206\346\152\111\240\316\265\322\260\253\233\366\364 \324\056\343\162\371\066\306\353\025\267\045\214\072\374\045\015 \263\042\163\041\164\310\112\226\141\222\365\057\013\030\245\364

\255\342\356\101\275\001\171\372\226\214\215\027\002\060\264\371 \257\170\032\214\264\066\020\020\007\005\160\320\364\061\220\212 \121\305\206\046\171\262\021\210\136\305\360\012\124\315\111\246 \277\002\234\322\104\247\355\343\170\357\106\136\155\161\321\171 \160\034\106\137\121\351\311\067\334\137\176\151\173\101\337\064 \105\340\073\204\364\241\212\012\066\236\067\314\142\122\341\211 \015\050\371\172\043\261\015\075\075\232\375\235\201\357\054\220 \300\173\104\116\273\111\340\016\112\126\222\274\313\265\335\171 $\label{eq:condition} $$ \027\211\221\336\141\211\164\222\250\343\062\205\276\116\205\244$$$ \113\131\313\053\305\170\216\161\124\320\002\067\231\214\345\111 \352\340\124\162\244\021\006\057\013\214\301\133\276\265\241\260 \123\156\234\270\140\221\037\131\153\371\055\364\224\012\227\265 \354\305\166\003\124\033\145\122\272\114\222\126\121\065\240\100 \330\051\333\256\122\166\073\055\060\100\233\212\320\102\126\264 $\label{eq:condition} $$ \267\210\001\244\207\073\123\226\315\243\026\217\363\146\252\027 $$$ \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 $\label{eq:condition} $$ \sqrt{377} \cdot 004 \cdot 004 \cdot 003 \cdot 002 \cdot 001 \cdot 006 \cdot 060 \cdot 017 \cdot 006 \cdot 003 \cdot 125 \cdot 035 \cdot 023 \cdot 001 \cdot 001$ \377\004\005\060\003\001\001\377\060\035\006\003\125\035\016\004 $\label{eq:condition} $$ \026\004\024\340\252\077\045\215\237\104\134\301\072\350\056\256$$ \167\114\204\076\147\014\364\060\015\006\011\052\206\110\206\367 \015\001\001\013\005\000\003\202\002\001\000\271\127\257\270\022 \332\127\203\217\150\013\063\035\003\123\125\364\225\160\344\053 \075\260\071\353\372\211\142\375\367\326\030\004\057\041\064\335 \361\150\360\325\226\132\336\302\200\243\301\215\306\152\367\131 $\label{eq:condition} $$ 167\256\025\144\317\133\171\005\167\146\352\214\323\153\015\335$$ \361\131\054\301\063\245\060\200\025\105\007\105\032\061\042\266 \222\000\253\231\115\072\217\167\257\251\042\312\057\143\312\025 \326\307\306\360\075\154\374\034\015\230\020\141\236\021\242\042 \327\012\362\221\172\153\071\016\057\060\303\066\111\237\340\351 \017\002\104\120\067\224\125\175\352\237\366\073\272\224\245\114 \351\274\076\121\264\350\312\222\066\124\155\134\045\050\332\335 \255\024\375\323\356\342\042\005\353\320\362\267\150\022\327\132 $\label{eq:condition} $$ \212\101\032\306\222\245\132\073\143\105\117\277\341\072\167\042 $$$ $\begin{tabular}{l} $$ \begin{tabular}{l} $\begin{tabular}{l} \b \265\246\065\004\302\107\377\231\375\204\337\134\316\351\136\200 $\label{eq:condition} $$ \050\101\362\175\347\036\220\330\117\166\076\202\074\015\374\245 $$$ $\label{eq:condition} $$ \033\372\173\032\331\105\036\140\332\304\216\371\374\053\311\173$ \225\305\052\377\252\211\337\202\061\017\162\377\014\047\327\012 $\label{eq:condition} $$ \036\126\000\120\036\014\220\301\226\265\330\024\205\273\247\015 $$$ \026\301\370\007\044\033\272\205\241\032\005\011\200\272\225\143 \311\072\354\045\237\177\235\272\244\107\025\233\104\160\361\152 $\label{eq:condition} $$ \frac{326}070\\136\\103\\363\\030\\176\\120\\156\\351\\132\\050\\346\\145\\346$ $\label{eq:control_loss} $$ \frac{167}033\\072\\375\\035\\276\\003\\046\\243\\333\\324\\341\\273\\176\\226\\047\\ 1053\\035\\356\\244\\373\\332\\045\\124\\023\\003\\336\\071\\306\\303\\037\\115\\ 220\\354\\217\\0033\\112\\322\\034\\355\\205\\225\\070\\120\\171\\106\\326\\301\\220\\120\\061\\251\\134\\232\\156\\0035\\365\\063\\126\\213\\247\\231\\322\\362\\310\\054\\063\\223\\222\\060\\307\\116\\214\\145\\063\\020\\144\\027\\375\\044\\027\\226\\321\\215\\302\\072\\152\\053\\353\\023\\213\\104\\362\\041\\363\\112\\032\\267\\167\\137\\327\\355\\210\\244\\162\\345\\071\\037\\225\\237\\322\\137\\174\\373\\300\\231\\174\\071\\051\\340\\173\\035\\277\\015\\247\\217\\322\\051\\064\\156\\044\\025\\313\\336\\220\\136\\277\\032\\304\\146\\352\\302\\346\\272\\071\\137\\212\\231\\251\\101\\131\\007\\260\\054\\257$

END

CKA NSS MOZILLA CA POLICY

CK_BBOOL CK_TRUE

CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "Certainly Root R1"

Issuer: CN=Certainly Root R1,O=Certainly,C=US

Serial Number:00:8e:0f:f9:4b:90:71:68:65:33:54:f4:d4:44:39:b7:e0

Subject: CN=Certainly Root R1,O=Certainly,C=US

Not Valid Before: Thu Apr 01 00:00:00 2021

Not Valid After: Sun Apr 01 00:00:00 2046

Fingerprint

(SHA-256):

77:B8:2C:D8:64:4C:43:05:F7:AC:C5:CB:15:6B:45:67:50:04:03:3D:51:C6:0C:62:02:A8:E0:C3:34:67:D3:A0

Fingerprint (SHA1): A0:50:EE:0F:28:71:F4:27:B2:12:6D:6F:50:96:25:BA:CC:86:42:AF

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

CKA TOKEN CK BBOOL CK TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "Certainly Root R1"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL

 $\label{eq:condition} $$\240\120\356\017\050\161\364\047\262\022\155\157\120\226\045\272$

 $\ \ \, \backslash 314 \backslash 206 \backslash 102 \backslash 257$

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

 $\\ \backslash 022 \backslash 060 \backslash 020 \backslash 006 \backslash 003 \backslash 125 \backslash 004 \backslash 012 \backslash 023 \backslash 011 \backslash 103 \backslash 145 \backslash 162 \backslash 164 \backslash 141 \backslash 151 \\$

 $\label{thm:linear_condition} $$ 156\154\171\061\032\060\030\006\003\125\004\003\023\021\103\145$$

\162\164\141\151\156\154\171\040\122\157\157\164\040\122\061

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

 $\label{eq:condition} $$ \002\021\000\216\017\371\113\220\161\150\145\063\124\364\324\104$$$

 $\langle 071 \rangle 267 \rangle 340$

```
END
CKA TRUST SERVER AUTH
CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
# Certificate "Certainly Root E1"
# Issuer: CN=Certainly Root E1,O=Certainly,C=US
# Serial Number:06:25:33:b1:47:03:33:27:5c:f9:8d:9a:b9:bf:cc:f8
# Subject: CN=Certainly Root E1,O=Certainly,C=US
# Not Valid Before: Thu Apr 01 00:00:00 2021
# Not Valid After: Sun Apr 01 00:00:00 2046
# Fingerprint (SHA-256):
B4:58:5F:22:E4:AC:75:6A:4E:86:12:A1:36:1C:5D:9D:03:1A:93:FD:84:FE:BB:77:8F:A3:06:8B:0F:C4:2D:C2
# Fingerprint (SHA1): F9:E1:6D:DC:01:89:CF:D5:82:45:63:3E:C5:37:7D:C2:EB:93:6F:2B
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA PRIVATE CK BBOOL CK FALSE
```

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "Certainly Root E1"

CKA CERTIFICATE TYPE CK CERTIFICATE TYPE CKC X 509

CKA_SUBJECT MULTILINE_OCTAL

\060\075\061\013\060\011\006\003\125\004\006\023\002\125\123\061 \022\060\020\006\003\125\004\012\023\011\103\145\162\164\141\151 $\label{eq:condition} $$ \frac{156}{154}\frac{061}{032}\frac{060}{030}\frac{006}{003}\frac{125}{004}\frac{003}{023}\frac{1103}{145} $$$ \162\164\141\151\156\154\171\040\122\157\157\164\040\105\061

END

CKA_ID

UTF8 "0"

CKA ISSUER MULTILINE OCTAL

\060\075\061\013\060\011\006\003\125\004\006\023\002\125\123\061 \022\060\020\006\003\125\004\012\023\011\103\145\162\164\141\151 \156\154\171\061\032\060\030\006\003\125\004\003\023\021\103\145 \162\164\141\151\156\154\171\040\122\157\157\164\040\105\061 **END**

CKA SERIAL NUMBER MULTILINE OCTAL

 $\label{eq:condition} $$ \002\020\006\045\063\261\107\003\063\047\134\371\215\232\271\277$ \314\370

END

CKA_VALUE MULTILINE_OCTAL

\060\202\001\367\060\202\001\175\240\003\002\001\002\002\006 \045\063\261\107\003\063\047\134\371\215\232\271\277\314\370\060 \012\006\010\052\206\110\316\075\004\003\003\060\075\061\013\060 \011\006\003\125\004\006\023\002\125\123\061\022\060\020\006\003 \125\004\012\023\011\103\145\162\164\141\151\156\154\171\061\032

\060\030\006\003\125\004\003\023\021\103\145\162\164\141\151\156 \154\171\040\122\157\157\164\040\105\061\060\036\027\015\062\061 $\label{eq:condition} $$ \0.060\0.0$ $\label{eq:condition} $$ \064\060\060\060\060\060\060\060\075\061\013\060\011 $$$ \006\003\125\004\006\023\002\125\123\061\022\060\020\006\003\125 $\\ \\004\\012\\023\\011\\103\\145\\162\\164\\141\\151\\156\\154\\171\\061\\032\\060$ \030\006\003\125\004\003\023\021\103\145\162\164\141\151\156\154 $\label{eq:condition} $$ \frac{171}040\\122\\157\\157\\164\\040\\105\\061\\060\\166\\060\\020\\006\\007\\052$ \206\110\316\075\002\001\006\005\053\201\004\000\042\003\142\000 \004\336\157\370\177\034\337\355\371\107\207\206\261\244\300\212 $\label{eq:condition} $$ 370\202\227\200\352\217\310\112\136\052\175\210\150\247\001\142$ $\\ \\024\\221\\044\\172\\134\\236\\243\\027\\175\\212\\206\\041\\064\\030\\120\\033$ \020\336\320\067\113\046\307\031\140\200\351\064\275\140\031\066 \100\326\051\207\011\074\221\172\366\274\023\043\335\131\116\004 \136\317\310\002\034\030\123\301\061\330\332\040\351\104\215\344 \166\243\102\060\100\060\016\006\003\125\035\017\001\001\377\004 $\\ \\004\\ \\003\\ \\002\\ \\001\\ \\006\\ \\006\\ \\0017\\ \\006\\ \\003\\ \\125\\ \\035\\ \\023\\ \\001\\ \\001\\ \\377\\ \\004$ \005\060\003\001\001\377\060\035\006\003\125\035\016\004\026\004 \024\363\050\030\313\144\165\356\051\052\353\355\256\043\130\070 \205\353\310\042\007\060\012\006\010\052\206\110\316\075\004\003 \003\003\150\000\060\145\002\061\000\261\216\132\040\303\262\031 \142\115\336\260\117\337\156\322\160\212\361\237\176\152\214\346 $\label{eq:condition} $$ \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"
```

CN=Certainly Root E1,O=Certainly,C=US

Not Valid Before: Thu Apr 01 00:00:00 2021

Not Valid After : Sun Apr 01 00:00:00 2046

Fingerprint (SHA-256):

B4:58:5F:22:E4:AC:75:6A:4E:86:12:A1:36:1C:5D:9D:03:1A:93:FD:84:FE:BB:77:8F:A3:06:8B:0F:C4:2D:C2

Fingerprint (SHA1): F9:E1:6D:DC:01:89:CF:D5:82:45:63:3E:C5:37:7D:C2:EB:93:6F:2B

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "Certainly Root E1"

[#] 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:

```
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\label{eq:condition} $$ \341\155\334\001\211\317\325\202\105\143\076\305\067\175\302 $$
\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
\label{eq:condition} $$ \frac{156}{154}\frac{061}{032}\frac{060}{030}\frac{006}{003}\frac{125}{004}\frac{003}{023}\frac{1103}{145} $$
\162\164\141\151\156\154\171\040\122\157\157\164\040\105\061
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\020\006\045\063\261\107\003\063\047\134\371\215\232\271\277
\314\370
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA TRUST CODE SIGNING CK TRUST CKT NSS MUST VERIFY TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
# Certificate "DIGITALSIGN GLOBAL ROOT RSA CA"
# Issuer: CN=DIGITALSIGN GLOBAL ROOT RSA CA,O=DigitalSign Certificadora Digital,C=PT
# Serial Number:5d:59:c8:ca:ab:09:57:f5:e6:b5:da:29:94:04:6a:ff:c5:d4:95:87
# Subject: CN=DIGITALSIGN GLOBAL ROOT RSA CA,O=DigitalSign Certificadora Digital,C=PT
# Not Valid Before: Thu Jan 21 10:50:34 2021
# Not Valid After: Mon Jan 15 10:50:34 2046
# Fingerprint (SHA-256):
82:BD:5D:85:1A:CF:7F:6E:1B:A7:BF:CB:C5:30:30:D0:E7:BC:3C:21:DF:77:2D:85:8C:AB:41:D1:99:BD:F5:95
# Fingerprint (SHA1): B9:82:07:97:AE:52:A5:68:6F:46:07:DF:FD:03:72:3D:92:86:88:2D
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA TOKEN CK BBOOL
CK TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DIGITALSIGN GLOBAL ROOT RSA CA"
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\120\124\061
\052\060\050\006\003\125\004\012\014\041\104\151\147\151\164\141
\154\123\151\147\156\040\103\145\162\164\151\146\151\143\141\144
\157\162\141\040\104\151\147\151\164\141\154\061\047\060\045\006
\003\125\004\003\014\036\104\111\107\111\124\101\114\123\111\107
```

\101\040\103\101

END

CKA ID UTF8 "0"

CKA ISSUER MULTILINE OCTAL

 $\label{eq:condition} $$ \00142\061\013\060\011\006\003\125\004\006\023\002\120\124\061\052\060\050\006\003\125\004\012\014\041\104\151\147\151\164\141\154\162\164\151\143\141\144\157\162\141\040\104\151\147\151\164\141\154\061\047\060\045\006\003\125\004\003\014\036\104\111\107\111\124\101\114\123\111\107\116\040\107\114\117\102\101\114\040\122\117\117\124\040\122\123\101\040\103\101$

END

CKA SERIAL NUMBER

MULTILINE OCTAL

\002\024\135\131\310\312\253\011\127\365\346\265\332\051\224\004 \152\377\305\324\225\207

END

CKA_VALUE MULTILINE_OCTAL

\060\202\005\265\060\202\003\235\240\003\002\001\002\002\024\135 \131\310\312\253\011\127\365\346\265\332\051\224\004\152\377\305 \324\225\207\060\015\006\011\052\206\110\206\367\015\001\001\015 \005\000\060\142\061\013\060\011\006\003\125\004\006\023\002\120 $\label{eq:condition} $$ 124\061\052\060\050\006\003\125\004\012\014\041\104\151\147\151$ \164\141\154\123\151\147\156\040\103\145\162\164\151\146\151\143 $\\ 141\\144\\157\\162\\141\\040\\104\\151\\147\\151\\164\\141\\154\\061\\047\\060$ \045\006\003\125\004\003\014\036\104\111\107\111\124\101\114\123 \111\107\116\040\107\114\117\102\101\114\040\122\117\117\124\040 \122\123\101\040\103\101\060\036\027\015\062\061\060\061\062\061 \061\060\065\060\063\064\132\027\015\064\066\060\061\061\065\061 \060\065\060\063\064\132\060\142\061\013\060\011\006\003\125\004 $\label{eq:condition} $$ \006\023\002\120\124\061\052\060\050\006\003\125\004\012\014\041 $$$ \104\151\147\151\164\141\154\123\151\147\156\040\103\145\162\164 \151\146\151\143\141\144\157\162\141\040\104\151\147\151\164\141 \154\061\047\060\045\006\003\125\004\003\014\036\104\111\107\111 \124\101\114\123\111\107\116\040\107\114\117\102\101\114\040\122 \117\117\124\040\122\123\101\040\103\101\060\202\002\002\042\060\015 \006\011\052\206\110\206\367\015\001\001\001\005\000\003\202\002 \017\000\060\202\002\012\002\202\002\001\000\310\207\266\070\323 $\label{eq:condition} $$ \034\36\336\022\370\203\307\304\212\342\211\270\264\042\172\170 $$$ \370\014\146\121\150\166\067\012\325\117\302\132\010\270\026\134 \367\162\001\011\067\204\201\052\124\153\327\222\320\154\372\250 \247\103\022\064\353\016\333\067\017\051\376\212\061\121\102\350 \113\234\220\250\310\054\021\323\375\240\051\176\316\336\224\366 \202\340\130\264\116\105\045\361\042\362\075\323\017\173\124\032 $\label{eq:condition} $\334\062\266\326\121\116\176\101\264\127\270\054\306\271\016\056$$ \312\127\361\325\310\323\130\347\245\351\102\021\256\323\040\045 \224\151\327\217\312\242\015\303\323\237\007\150\077\025\322\147 $\label{eq:condition} $$ \056\123\375\166\202\233\013\163\251\051\015\236\021\223\024\010 $$$

\230\354\236\124\022\112\126\242\006\025\354\153\154\056\222\140 \056\206\015\256\202\037\121\115\343\262\007\327\020\031\127\042 \366\251\151\104\204\363\331\075\240\006\277\314\210\176\177\365 \316\133\245\302\052\152\164\102\352\157\246\377\371\150\261\320 \137\275\221\322\125\157\063\127\114\036\235\344\342\213\301\205 \145\240\340\152\234\000\000\210\222\335\130\010\026\362\160\061 \250\034\341\336\275\116\161\351\326\276\176\265\241\132\303\115 \367\277\233\275\224\244\375\365\252\123\223\106\311\046\001\004 $\label{eq:condition} $$ 160\304\240\161\272\316\045\146\373\221\176\125\160\356\111\012$ \115\142\177\302\120\232\162\362\030\147\235\351\105\250\064\204 \350\370\201\366\321\132\042\036\007\117\073\263\177\335\021\245 \163\334\276\251\031\072\151\251\155\033\062\342\211\252\245\047 \013\132\176\164\342\017\144\071\135\176\134\271\301\027\374\307 \215\136\311\354\044\355\322\362\077\172\204\105\067\002\276\076 \153\131\304\346\133\026\155\300\252\236\252\265\131\056\054\160 \125\234\314\231\226\230\044\124\321\216\332\312\264\021\264\267 $\label{eq:condition} $$ 160\103\037\157\220\013\040\240\250\166\023\145\333\333\043\132 $$$ \165\113\241\013\061\167\012\356\175\150\141\032\023\214\352\121 \176\134\126\243\127\114\135\241\353\023\145\277\124\024\314\363 \356\334\327\354\074\227\362\170\126\270\337\162\134\160\374\316 \006\335\237\322\007\061\357\347\122\221\236\315\272\327\300\030 \104\007\061\145\111\062\151\023\112\353\217\002\003\001\000\001 $\label{eq:condition} $$ \243\143\060\141\060\017\006\003\125\035\023\001\001\377\004\005 $$$ \060\003\001\001\377\060\037\006\003\125\035\043\004\030\060\026 \200\024\265\066\274\074\214\032\253\054\366\131\031\055\203\024 \332\223\045\025\326\206\060\035\006\003\125\035\016\004\026\004 \024\265\066\274\074\214\032\253\054\366\131\031\055\203\024\332 \223\045\025\326\206\060\016\006\003\125\035\017\001\001\377\004 \004\003\002\001\006\060\015\006\011\052\206\110\206\367\015\001 \001\015\005\000\003\202\002\001\000\024\373\061\045\070\061\370 \312\010\262\043\166\070\255\370\323\131\365\314\264\127\045\341 \104\276\176\374\026\354\256\372\046\237\117\147\026\112\126\360 \375\355\307\031\001\064\216\220\132\055\326\200\134\354\161\322 \201\045\202\036\000\161\337\232\321\325\035\042\273\321\245\363 \142\017\264\353\334\044\163\376\246\126\315\232\024\305\004\065 \026\061\242\007\353\245\000\342\266\370\137\162\375\077\141\111 \216\336\176\115\070\327\172\036\164\067\154\121\334\276\000\004 \270\070\024\363\040\301\355\233\247\043\375\015\102\204\035\177 $\label{eq:condition} $$ \362\163\303\320\170\143\361\237\354\327\133\351\361\276\154\240 $$$ \113\003\236\215\151\341\024\332\210\020\201\043\123\377\332\124 \053\013\306\271\226\225\004\030\106\363\173\250\227\330\133\150 \244\344\070\034\016\105\345\230\323\011\256\232\136\354\263\171 \015\071\162\362\364\224\235\016\236\140\042\346\250\366\114\205 \315\007\202\072\150\071\315\075\137\343\070\364\266\257\073\153 $\label{eq:loop_equation_loop} $$ \frac{112}237\frac{40}{121}\frac{324}{100}\frac{345}{252}\frac{345}{252}\frac{343}{343}\frac{321}{170}\frac{324}{343} $$$ \242\164\234\046\272\005\232\050\160\112\076\246\013\320\035\111 \360\272\370\256\101\020\176\244\007\022\275\250\317\051\075\127 $\label{eq:condition} $$ \273\307\361\103\107\000\076\256\160\030\132\040\173\011\313\072 $$$ $\label{eq:constraints} $$ \all (160) 200 (345) 114 (140) 230 (301) 025 (301) 035 (112) 367 (310) 360 (233) (341) 162 (255) 347 (135) 150 (130) 013 (004) 261 (214) 274 (237) 267 (373) 156 (213) 133 (004) 125 (373) (353) 043 (125) 327 (170) 120 (332) 045 (313) (276) 047 (066) 273 (044) (032) 171 (034) 121 (321) 376 (023) 273 (377) 170 (054) (334) 244 (276) 057 (366) (305) 113 (123) 317 (247) 114 (231) 136 (160) (254) 131) (210) 004 (256) 144 (004) (277) 173 (246) 172 (115) 323 (350) 167 (275) (241) 176 (120) 025 (363) (357) 111 (060) (205) 115 (041) 127 (252) (333) (054) 165 (227) (255) (201) 001 (207) (242) (261) (201) (245) (350) (075) (210) (035) (264) (162) (054) (130) (067) (212) (216) (070) (224) (270) (163) (335) (251) (340) (270) (366) (167) (242) (263) (174) (130) (366) (151) (072) (265) (213) (245) (032) (273) (362) (330) (164) (006) (234) (375) (142) (166) (053) (107) (376) (061) (313) (337) (271) (344) (254) (010) (323) (330) (246) (353) (324) (366) (176) (113) (144) (244) (125) (135) (053) (027) (311) (366) (361) (313) (344) (344) (344) (344) (254) (310) (323) (330) (246) (353) (324) (366) (176) (113) (144) (244) (125) (135) (053) (027) (311) (366) (361) (313) (324) (323) (324) (323) (3246) (353) (324) (326) (321) (324) (326) (321) (324) (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 "DIGITALSIGN GLOBAL ROOT RSA CA"
- # Issuer: CN=DIGITALSIGN GLOBAL ROOT RSA CA,O=DigitalSign Certificadora Digital,C=PT
- # Serial Number:5d:59:c8:ca:ab:09:57:f5:e6:b5:da:29:94:04:6a:ff:c5:d4:95:87
- # Subject: CN=DIGITALSIGN GLOBAL ROOT RSA CA,O=DigitalSign Certificadora Digital,C=PT
- # Not Valid Before: Thu Jan 21 10:50:34 2021
- # Not Valid After: Mon Jan 15 10:50:34 2046
- # Fingerprint (SHA-256):
- 82:BD:5D:85:1A:CF:7F:6E:1B:A7:BF:CB:C5:30:30:D0:E7:BC:3C:21:DF:77:2D:85:8C:AB:41:D1:99:BD:F5:95
- # Fingerprint (SHA1): B9:82:07:97:AE:52:A5:68:6F:46:07:DF:FD:03:72:3D:92:86:88:2D

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA MODIFIABLE

CK_BBOOL CK_FALSE

CKA LABEL UTF8 "DIGITALSIGN GLOBAL ROOT RSA CA"

CKA CERT SHA1 HASH MULTILINE OCTAL

\271\202\007\227\256\122\245\150\157\106\007\337\375\003\162\075 \222\206\210\055

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL

\033\032\275\032\171\306\333\264\355\263\207\314\251\323\116\170

END

CKA_ISSUER MULTILINE_OCTAL

```
\116\040\107\114\117\102\101\114\040\122\117\117\124\040\122\123
\101\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\label{eq:condition} $$ \002\024\135\131\310\312\253\011\127\365\346\265\332\051\224\004
\152\377\305\324\225\207
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 "DIGITALSIGN GLOBAL ROOT ECDSA CA"
# Issuer: CN=DIGITALSIGN GLOBAL ROOT ECDSA CA,O=DigitalSign Certificadora Digital,C=PT
# Serial Number:36:2d:8f:72:88:a2:28:27:e4:00:ff:24:c6:2d:e4:eb:fa:9d:b6:e1
# Subject: CN=DIGITALSIGN GLOBAL ROOT ECDSA CA,O=DigitalSign Certificadora Digital,C=PT
# Not Valid Before: Thu Jan 21 11:07:50 2021
# Not Valid After: Mon Jan 15 11:07:50 2046
# Fingerprint (SHA-256):
26:1D:71:14:AE:5F:8F:F2:D8:C7:20:9A:9D:E4:28:9E:6A:FC:9D:71:70:23:D8:54:50:90:91:99:F1:85:7C:FE
# Fingerprint (SHA1): 67:A8:08:EB:8F:88:F5:80:6C:05:45:1B:17:F3:D7:00:2F:D2:4A: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 "DIGITALSIGN GLOBAL ROOT ECDSA CA"
CKA CERTIFICATE TYPE CK CERTIFICATE TYPE CKC X 509
CKA_SUBJECT MULTILINE_OCTAL
\060\144\061\013\060\011\006\003\125\004\006\023\002\120\124\061
\052\060\050\006\003\125\004\012\014\041\104\151\147\151\164\141
\154\123\151\147\156\040\103\145\162\164\151\146\151\143\141\144
\157\162\141\040\104\151\147\151\164\141\154\061\051\060\047\006
\003\125\004\003\014\040\104\111\107\111\124\101\114\123\111\107
\116\040\107\114\117\102\101\114\040\122\117\117\124\040\105\103
\104\123\101\040\103\101
END
CKA_ID
UTF8 "0"
CKA ISSUER MULTILINE OCTAL
\060\144\061\013\060\011\006\003\125\004\006\023\002\120\124\061
\052\060\050\006\003\125\004\012\014\041\104\151\147\151\164\141
\154\123\151\147\156\040\103\145\162\164\151\146\151\143\141\144
\157\162\141\040\104\151\147\151\164\141\154\061\051\060\047\006
\003\125\004\003\014\040\104\111\107\111\124\101\114\123\111\107
```

\116\040\107\114\117\102\101\114\040\122\117\117\124\040\105\103

\104\123\101\040\103\101

END

CKA SERIAL NUMBER MULTILINE OCTAL

\002\024\066\055\217\162\210\242\050\047\344\000\377\044\306\055 \344\353\372\235\266\341

END

CKA VALUE MULTILINE OCTAL

\060\202\002\152\060\202\001\360\240\003\002\001\002\002\002\006 \055\217\162\210\242\050\047\344\000\377\044\306\055\344\353\372 \235\266\341\060\012\006\010\052\206\110\316\075\004\003\003\060 \144\061\013\060\011\006\003\125\004\006\023\002\120\124\061\052 \123\151\147\156\040\103\145\162\164\151\146\151\143\141\144\157 \162\141\040\104\151\147\151\164\141\154\061\051\060\047\006\003 \040\107\114\117\102\101\114\040\122\117\117\124\040\105\103\104 \123\101\040\103\101\060\036\027\015\062\061\060\061\062\061\061 \061\060\067\065\060\132\027\015\064\066\060\061\061\065\061\061 \060\067\065\060\132\060\144\061\013\060\011\006\003\125\004\006 $\label{eq:condition} $$ \023\02\120\124\061\052\060\050\006\003\125\004\012\014\041\104$ \151\147\151\164\141\154\123\151\147\156\040\103\145\162\164\151 \146\151\143\141\144\157\162\141\040\104\151\147\151\164\141\154 $\label{eq:condition} $$ \061\051\060\047\006\003\125\004\003\014\040\104\111\107\111\124$$ \101\114\123\111\107\116\040\107\114\117\102\101\114\040\122\117 \117\124\040\105\103\104\123\101\040\103\101\060\166\060\020\006 \007\052\206\110\316\075\002\001\006\005\053\201\004\000\042\003 \142\000\004\156\013\243\253\063\115\034\352\112\350\374\004\215 $\label{eq:condition} $$ \024\240\175\360\010\054\137\203\253\223\321\322\173\272\327\111 $$$ \175\217\354\022\120\137\324\271\313\345\360\371\063\143\037\311 \127\354\100\330\021\013\227\350\122\026\314\051\216\364\006\206 $\label{eq:condition} $$ \036\070\334\075\127\304\356\252\275\310\124\004\046\132\047\023$ \121\107\075\037\037\032\216\250\225\244\063\320\314\107\314\155 \270\374\110\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\316\257\112\213\032\165\342\361\070\347\002 \360\026\255\136\352\144\325\173\264\060\035\006\003\125\035\016 \004\026\004\024\316\257\112\213\032\165\342\361\070\347\002\360 \026\255\136\352\144\325\173\264\060\016\006\003\125\035\017\001 $\label{eq:condition} $$ \001\377\004\004\003\002\001\006\060\012\006\010\052\206\110\316$$ $\label{eq:condition} $$ \003\003\003\150\000\060\145\002\060\012\210\304\161\234 $$$ \104\003\115\215\264\307\274\250\256\331\060\047\065\152\153\026 \143\327\374\347\131\341\247\211\033\114\061\232\043\125\104\346 \363\103\041\325\107\047\157\155\127\001\252\002\061\000\373\262 \352\342\227\177\121\265\237\110\353\274\157\065\211\250\144\160 \253\127\166\315\300\306\024\140\312\177\342\202\000\163\367\314 \065\352\216\044\233\345\010\131\307\004\214\163\170\376 **END**

CKA_NSS_MOZILLA_CA_POLICY

```
CK BBOOL CK TRUE
```

CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "DIGITALSIGN GLOBAL ROOT ECDSA CA"

Issuer: CN=DIGITALSIGN GLOBAL ROOT ECDSA CA,O=DigitalSign Certificadora Digital,C=PT

Serial Number:36:2d:8f:72:88:a2:28:27:e4:00:ff:24:c6:2d:e4:eb:fa:9d:b6:e1

Subject: CN=DIGITALSIGN GLOBAL ROOT ECDSA CA,O=DigitalSign Certificadora Digital,C=PT

Not Valid Before: Thu Jan 21 11:07:50 2021

Not

Valid After: Mon Jan 15 11:07:50 2046

Fingerprint (SHA-256):

26:1D:71:14:AE:5F:8F:F2:D8:C7:20:9A:9D:E4:28:9E:6A:FC:9D:71:70:23:D8:54:50:90:91:99:F1:85:7C:FE

Fingerprint (SHA1): 67:A8:08:EB:8F:88:F5:80:6C:05:45:1B:17:F3:D7:00:2F:D2:4A: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 "DIGITALSIGN GLOBAL ROOT ECDSA CA"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL

 $\label{eq:condition} $$ 147\250\010\353\217\210\365\200\154\005\105\033\027\363\327\000 $$$

\057\322\112\212

END

CKA CERT MD5 HASH MULTILINE OCTAL

\252\055\241\316\377\041\302\210\313\132\036\214\341\311\222\217

END

CKA ISSUER MULTILINE OCTAL

 $\label{eq:condition} $$ \060\144\061\013\060\011\006\003\125\004\006\023\002\120\124\061 $$$

 $\label{eq:condition} $$ \052\060\050\006\003\125\004\012\014\041\104\151\147\151\164\141 $$$

\154\123\151\147\156\040\103\145\162\164\151\146\151\143\141\144

 $\label{eq:condition} $$ \frac{157}{162}\frac{141}{040}\frac{104}{151}\frac{147}{151}\frac{164}{141}\frac{154}{061}\frac{1051}{060}\frac{047}{006} $$$

 $\\ \begin{tabular}{l} $$ \begin{tabular}{l} $1003 \ 125 \ 004 \ 003 \ 14040 \ 104 \ 111 \ 107 \ 111 \ 124 \ 101 \ 114 \ 123 \ 111 \ 107 \ 111 \ 124 \ 101 \ 114 \ 123 \ 111 \ 107 \ 111 \ 114 \ 1111 \ 111 \ 111 \ 111 \ 111 \ 111 \ 111 \ 111 \ 111 \ 1111 \ 111 \ 111 \ 111 \ 111 \ 111 \ 111$

 $\label{eq:condition} $$ \frac{116 \cdot 040 \cdot 107 \cdot 114 \cdot 117 \cdot 102 \cdot 101 \cdot 114 \cdot 040 \cdot 122 \cdot 117 \cdot 117 \cdot 124 \cdot 040 \cdot 105 \cdot 103}{103 \cdot 107 \cdot 114 \cdot 117 \cdot 102 \cdot 101 \cdot 114 \cdot 1040 \cdot 122 \cdot 117 \cdot 117 \cdot 124 \cdot 040 \cdot 105 \cdot 103}$

\104\123\101\040\103\101

END

CKA SERIAL NUMBER

MULTILINE_OCTAL

\002\024\066\055\217\162\210\242\050\047\344\000\377\044\306\055

 $\qquad \qquad \backslash 344 \backslash 353 \backslash 372 \backslash 235 \backslash 266 \backslash 341$

END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST

 ${\tt CKA_TRUST_EMAIL_PROTECTION\ CK_TRUST\ CKT_NSS_TRUSTED_DELEGATOR}$

CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST

CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#

Certificate "Security Communication RootCA3"

#

- # Issuer: CN=Security Communication RootCA3,O="SECOM Trust Systems CO.,LTD.",C=JP
- # Serial Number:00:e1:7c:37:40:fd:1b:fe:67
- # Subject: CN=Security Communication RootCA3,O="SECOM Trust Systems CO.,LTD.",C=JP
- # Not Valid Before: Thu Jun 16 06:17:16 2016
- # Not Valid After: Mon Jan 18 06:17:16 2038
- # Fingerprint (SHA-256):
- 24:A5:5C:2A:B0:51:44:2D:06:17:76:65:41:23:9A:4A:D0:32:D7:C5:51:75:AA:34:FF:DE:2F:BC:4F:5C:52:94
- # Fingerprint (SHA1): C3:03:C8:22:74:92:E5:61:A2:9C:5F:79:91:2B:1E:44:13:91:30:3A

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 "Security Communication RootCA3"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL

 $\label{eq:condition} $$ \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

 $\begin{tabular}{l} $$ \begin{tabular}{l} $$ \begin{tabular}{l} $\begin{tabular}{l} $$

 $\label{eq:condition} $$ \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\063

END

CKA ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

\060\135\061\013\060\011\006\003\125\004\006\023\002\112\120\061

\045\060\043\006\003\125\004\012\023\034\123\105\103\117\115\040

 $\label{eq:condition} $$ \056\054\114\124\104\056\061\047\060\045\006\003\125\004\003\023$$

\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\063

END

CKA SERIAL NUMBER

MULTILINE_OCTAL

 $\label{eq:condition} $$ \002\011\000\341\174\067\100\375\033\376\147 $$$

END

CKA VALUE MULTILINE OCTAL

 $\label{eq:constant} $$ \000\202\005\177\060\202\003\147\240\003\002\001\002\002\011\000\0341\174\067\100\375\003\3376\147\060\015\006\011\052\206\110\206\367\015\001\001\001\014\005\000\006\0135\061\013\060\011\006\003\125\004\012\23\3006\003\125\004\0012\23\3036\123\145\143\165\162\151\164\171\040\103\157\155\165\156\151\143\141\164\151\157\156\040\122\157\157\164\103\101\063\060\036\027\015\066\060\066\061\$

\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\003\023\036\123\145\143\165\162\151\164\171\040 \103\157\155\165\156\151\143\141\164\151\157\156\040\122\157 \157\164\103\101\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\343\311\162\111\367\060\336\011\174\251 \100\201\130\323\264\072\335\272\141\017\223\120\156\151\074\065 \302\356\133\163\220\033\147\114\041\354\137\065\273\071\076\053 $\label{eq:condition} $$ \012\140\357\273\155\053\206\373\161\242\310\254\344\126\224\371 $$$ \311\257\261\162\324\040\254\164\322\270\025\255\121\376\205\164 \241\271\020\376\005\200\371\122\223\263\100\075\165\020\254\300 \226\267\247\176\166\274\343\033\122\031\316\021\037\013\004\064 $\label{eq:condition} $$ 365 330 365 151 074 167 363 144 364 015 252 205 336 340 011 120 $$$ \004\027\226\204\267\310\212\274\115\162\374\034\273\317\363\006 $\label{eq:condition} $$ \frac{371}237\frac44\sqrt367\frac176\sqrt246\sqrt146\sqrt206\sqrt65\sqrt161\sqrt310\sqrt021\sqrt200\sqrt114\sqrt301}$$ \161\100\130\036\276\240\163\366\374\076\120\341\340\057\046\075 \176\134\043\265\171\160\336\372\340\321\245\326\014\101\161\173 $\label{eq:condition} $$ \352\214\034\210\307\354\213\365\321\057\125\226\106\174\132$ \073\130\073\373\272\330\055\265\045\332\172\116\317\104\256\041 \246\236\230\312\040\156\174\273\210\205\133\373\300\020\142\273 $\label{eq:condition} $$ 362\371\047\107\357\321\211\071\103\304\337\336\341\101\277\124$$ \163\040\227\055\154\332\363\324\007\243\346\271\330\157\256\374 \214\031\056\323\147\147\053\225\333\130\134\265\152\002\363\270 \203\136\264\153\276\101\176\127\011\165\104\120\125\315\132\021 \141\041\012\141\302\251\210\375\023\274\055\211\057\315\141\340 $\label{eq:condition} $$ \225\276\312\265\173\341\173\064\147\013\037\266\014\307\174\036$$ \031\123\312\247\261\112\025\040\126\024\160\075\053\202\054\017 \235\025\035\107\200\107\377\170\231\016\061\257\157\076\217\355 $\label{eq:condition} $$ \206\151\036\173\030\210\024\262\302\374\202\063\056\234\113\055$$ \373\160\073\161\252\053\173\046\047\363\032\302\334\373\027\270 \241\352\313\240\264\256\323\224\176\172\320\253\303\354\070\055 $\label{eq:condition} $$ \021\056\210\277\324\077\255\022\073\102\254\217\002\156\175\314$$ \321\137\141\276\241\274\072\152\110\352\046\125\042\026\135\137 \015\377\047\063\237\030\003\164\212\133\122\040\107\153\105\115 \042\167\214\125\047\360\257\036\214\311\203\042\124\267\232\320 \117\331\316\374\331\056\034\226\050\261\002\323\003\275\045\122 $\label{eq:condition} $$ \034\064\146\117\043\253\364\167\202\226\035\321\127\060\010\021 $$$ $\label{eq:condition} $$ \005\375\127\321\331\307\002\003\001\000\001\243\102\060\100\060$ \035\006\003\125\035\016\004\026\004\024\144\024\174\374\130\162 \026\246\012\051\064\025\157\052\313\274\374\257\250\253\060\016 $\label{eq:condition} $$ \006\003\125\035\017\001\001\377\004\004\003\002\001\006\060\017 $$$ \006\003\125\035\023\001\001\377\004\005\060\003\001\001\377\060 $\label{eq:condition} $$ \015\006\011\052\206\110\206\367\015\001\001\014\005\000\003\202 $$$ \002\001\000\334\002\043\010\342\357\041\072\307\015\267\046\322 \142\223\247\245\043\162\007\040\202\140\337\030\327\124\255\151 $\\ \\ 045\\ \\ 222\\ \\ 236\\ \\ 331\\ \\ 024\\ \\ 317\\ \\ 231\\ \\ 271\\ \\ 122\\ \\ 201\\ \\ 317\\ \\ 256\\ \\ 154\\ \\ 212\\ \\ 073\\ \\ 132\\ \\ 212\\ \\ 073\\ \\ 132\\ \\ 212\\ \\ 073\\ \\ 132\\ \\ 212\\ \\ 073\\ \\ 132\\ \\ 212\\ \\ 073\\ \\ 132\\ \\ 122$

\071\310\154\001\103\302\042\155\002\360\142\315\116\143\103\300 \024\332\364\143\360\352\364\161\356\116\207\343\161\251\364\311 $\label{eq:condition} $$ \frac{345}{056}\frac{37}{034}\frac{273}{043}\frac{252}{207}\frac{104}{127}\frac{351}{275}\frac{115}{065} $$$ \101\273\113\050\243\230\262\033\331\013\027\007\345\367\352\235 $\label{eq:condition} $$ \365\166\327\277\304\266\201\130\377\310\377\144\151\142\171\255$$ \156\016\037\177\356\035\151\345\267\162\161\263\376\245\001\065 \224\124\053\300\122\155\217\125\304\311\322\270\313\312\064\010 \121\205\240\365\274\264\027\130\352\012\134\172\275\143\306\072 \057\377\226\111\031\204\352\147\330\004\261\141\364\000\133\112 \267\234\161\067\031\205\171\277\201\260\307\023\016\166\161\076 \072\200\006\256\006\026\247\215\265\302\304\313\377\100\245\134 \215\245\311\072\355\162\201\312\134\230\074\322\064\003\167\010 \375\360\051\131\135\041\010\307\140\277\244\161\173\270\331\036 \202\276\011\257\145\157\050\253\277\113\265\356\076\010\107\047 \240\017\157\017\213\077\254\225\030\363\271\016\334\147\125\156 \142\236\106\016\321\004\170\312\162\256\166\331\245\370\262\337 \210\011\141\213\357\044\116\321\131\077\132\324\075\311\223\074 \053\144\365\201\015\026\226\367\222\303\376\061\157\350\052\062 \164\016\364\114\230\112\030\016\060\124\325\305\353\274\305\025 \236\350\231\041\353\047\053\011\012\333\361\346\160\030\126\273 \014\344\276\371\350\020\244\023\222\270\034\340\333\147\035\123 $\label{eq:condition} $$ \003\244\042\247\334\135\222\020\074\352\377\374\033\020\032\303$ \330\320\234\235\145\313\320\053\047\061\003\036\066\341\075\166 \165\014\377\105\046\271\335\121\274\043\307\137\330\330\207\020 $\label{eq:condition} $$ 100\022\015\075\070\067\347\104\074\030\300\123\011\144\217\377 $$$ \325\232\246\174\160\056\163\125\041\350\337\377\203\271\035\076 \062\036\326\246\175\054\361\146\351\134\035\247\243\316\136\045 $\label{eq:condition} $$ \062\053\343\225\254\052\007\316\264\050\170\206\074\055\246\235$ \115\322\164\060\335\144\121\025\333\203\203\121\327\257\375\063 \235\115\146

END

CKA_NSS_MOZILLA_CA_POLICY

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 RootCA3"
```

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

CKA_TOKEN CK_BBOOL CK_TRUE

[#] Issuer: CN=Security Communication RootCA3,O="SECOM Trust Systems CO.,LTD.",C=JP

[#] Serial Number:00:e1:7c:37:40:fd:1b:fe:67

[#] Subject: CN=Security Communication RootCA3,O="SECOM Trust Systems CO.,LTD.",C=JP

[#] Not Valid Before: Thu Jun 16 06:17:16 2016

[#] Not Valid After: Mon Jan 18 06:17:16 2038

[#] Fingerprint (SHA-256):

^{24:}A5:5C:2A:B0:51:44:2D:06:17:76:65:41:23:9A:4A:D0:32:D7:C5:51:75:AA:34:FF:DE:2F:BC:4F:5C:52:94

[#] Fingerprint (SHA1): C3:03:C8:22:74:92:E5:61:A2:9C:5F:79:91:2B:1E:44:13:91:30:3A

```
CKA MODIFIABLE CK BBOOL CK FALSE
CKA_LABEL UTF8 "Security Communication RootCA3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\label{eq:condition} $$ 303 \times 310 \times 164 \times 222 \times 45 \times 141 \times 242 \times 34 \times 171 \times 221 \times 36 \times 104 \times 171 \times 1
\023\221\060\072
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\034\232\026\377\236\134\340\115\212\024\001\364\065\135\051\046
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\003\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\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\011\000\341\174\067\100\375\033\376\147
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_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 ECC RootCA1"
# Issuer: CN=Security Communication ECC RootCA1,O="SECOM Trust Systems CO.,LTD.",C=JP
# Serial Number:00:d6:5d:9b:b3:78:81:2e:eb
# Subject: CN=Security Communication ECC RootCA1,O="SECOM Trust Systems CO.,LTD.",C=JP
 Not Valid Before: Thu Jun 16 05:15:28 2016
# Not Valid After: Mon Jan 18 05:15:28 2038
# Fingerprint (SHA-256):
E7:4F:BD:A5:5B:D5:64:C4:73:A3:6B:44:1A:A7:99:C8:A6:8E:07:74:40:E8:28:8B:9F:A1:E5:0E:4B:BA:CA:11
# Fingerprint (SHA1): B8:0E:26:A9:BF:D2:B2:3B:C0:EF:46:C9:BA:C7:BB:F6:1D:0D:41:41
CKA_CLASS CK_OBJECT_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 ECC RootCA1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\141\061\013\060\011\006\003\125\004\006\023\002\112\120\061
\045\060\043\006\003\125\004\012\023\034\123\105\103\117\115\040
```

CKA_PRIVATE CK_BBOOL CK_FALSE

END

CKA ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

 $\label{eq:condition} $$ \000\141\061\013\060\011\006\003\125\004\006\023\002\112\120\061 $$ \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\053\060\051\006\003\125\004\003\023 $$ \042\123\145\143\165\162\151\164\171\040\103\157\155\155\155\156\156\151\143\141\164\151\157\156\040\105\103\103\040\122\157\157\164\103\101\061 $$$

END

CKA_SERIAL_NUMBER

MULTILINE OCTAL

\002\011\000\326\135\233\263\170\201\056\353

END

CKA_VALUE MULTILINE_OCTAL

\060\202\002\070\060\202\001\276\240\003\002\001\002\002\011\000 \326\135\233\263\170\201\056\353\060\012\006\010\052\206\110\316 \075\004\003\003\060\141\061\013\060\011\006\003\125\004\006\023 \002\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\053\060\051\006\003 \155\155\165\156\151\143\141\164\151\157\156\040\105\103\103\040 \122\157\157\164\103\101\061\060\036\027\015\061\066\060\066\061 $\label{eq:condition} $$ \066\065\061\065\062\070\132\027\015\063\070\060\061\061\070 $$$ \060\065\061\065\062\070\132\060\141\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\053\060 \051\006\003\125\004\003\023\042\123\145\143\165\162\151\164\171 \040\103\157\155\155\165\156\151\143\141\164\151\157\156\040\105 $\label{eq:condition} $$103\040\122\157\157\164\103\101\061\060\166\060\020\006\007$$ $\label{eq:condition} $$ \052\206\110\316\075\002\001\006\005\053\201\004\000\042\003\142 $$$ \000\004\244\245\157\140\003\003\303\275\061\364\323\027\234\053 \204\165\254\345\375\075\127\156\327\143\277\346\004\211\222\216 \201\234\343\351\107\156\312\220\022\310\023\340\247\235\367\145 \164\037\154\020\262\350\344\351\357\155\205\062\231\104\261\136 \375\314\166\020\330\133\275\242\306\371\326\102\344\127\166\334 $\verb|\| 220\\| 302\\| 065\\| 251\\| 113\\| 210\\| 074\\| 022\\| 107\\| 155\\| 134\\| 377\\| 111\\| 117\\| 032\\| 112\\| 112\\| 112\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\| 113\\|$ \120\261\243\102\060\100\060\035\006\003\125\035\016\004\026\004 \024\206\034\347\376\055\245\112\213\010\376\050\021\372\276\243 \146\370\140\131\057\060\016\006\003\125\035\017\001\001\377\004

 $\label{eq:condition} $$ \004\003\002\001\006\0001\107\006\003\125\003\001\001\377\004\005\006\0003\0001\001\377\006\0012\006\0010\052\206\110\316\075\004\003\003\003\150\0000\006\145\0002\006\0025\135\102\075\374\266\356\367\073\261\006\350\236\366\304\106\050\111\063\320\130\103\052\143\051\314\115\261\264\172\242\271\015\070\245\135\110\052\375\313\262\163\135\243\210\010\307\014\0002\061\000\300\253\055\016\155\355\030\242\333\123\351\045\333\125\010\340\120\314\337\104\141\026\202\253\111\260\262\201\354\163\207\170\264\114\262\142\033\022\372\026\115\045\113\143\275\036\067\331$

END

CKA_NSS_MOZILLA_CA_POLICY

CK_BBOOL CK_TRUE

 ${\tt CKA_NSS_SERVER_DISTRUST_AFTER\ CK_BBOOL\ CK_FALSE}$

 ${\tt CKA_NSS_EMAIL_DISTRUST_AFTER\ CK_BBOOL\ CK_FALSE}$

Trust

for "Security Communication ECC RootCA1"

Issuer: CN=Security Communication ECC RootCA1,O="SECOM Trust Systems CO.,LTD.",C=JP

Serial Number:00:d6:5d:9b:b3:78:81:2e:eb

Subject: CN=Security Communication ECC RootCA1,O="SECOM Trust Systems CO.,LTD.",C=JP

Not Valid Before: Thu Jun 16 05:15:28 2016

Not Valid After: Mon Jan 18 05:15:28 2038

Fingerprint (SHA-256):

E7:4F:BD:A5:5B:D5:64:C4:73:A3:6B:44:1A:A7:99:C8:A6:8E:07:74:40:E8:28:8B:9F:A1:E5:0E:4B:BA:CA:11

Fingerprint (SHA1): B8:0E:26:A9:BF:D2:B2:3B:C0:EF:46:C9:BA:C7:BB:F6:1D:0D:41:41

CKA_CLASS CK_OBJECT_CLASS 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 ECC RootCA1"

 $CKA_CERT_SHA1_HASH\ MULTILINE_OCTAL$

 $\label{eq:condition} $$\270\016\046\251\277\322\262\073\300\357\106\311\272\307\273\366$$

 $035\015\101\101$

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL

\176\103\260\222\150\354\005\103\114\230\253\135\065\056\176\206

END

CKA_ISSUER MULTILINE_OCTAL

 $\label{eq:condition} $$ \060\141\061\013\060\011\006\003\125\004\006\023\002\112\120\061 $$$

 $\label{eq:condition} $$ \056\054\14\124\104\056\061\053\060\051\006\003\125\004\003\023$$

 $\\ \langle 042 \rangle 123 \rangle 145 \rangle 143 \rangle 165 \rangle 162 \rangle 151 \rangle 164 \rangle 171 \rangle 040 \rangle 103 \rangle 157 \rangle 155 \rangle 165 \rangle 156$

\151\143\141\164\151\157\156\040\105\103\103\040\122\157\157\164

\103\101\061

END

 CKA_SERIAL_NUMBER

```
MULTILINE OCTAL
\002\011\000\326\135\233\263\170\201\056\353
END
CKA TRUST SERVER AUTH CK TRUST CKT 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 "BJCA Global Root CA1"
# Issuer: CN=BJCA Global Root CA1,O=BEIJING CERTIFICATE AUTHORITY,C=CN
# Serial Number:55:6f:65:e3:b4:d9:90:6a:1b:09:d1:6c:3e:c0:6c:20
# Subject: CN=BJCA Global Root CA1,O=BEIJING CERTIFICATE AUTHORITY,C=CN
# Not Valid Before: Thu Dec 19 03:16:17 2019
# Not Valid
After: Mon Dec 12 03:16:17 2044
# Fingerprint (SHA-256):
F3:89:6F:88:FE:7C:0A:88:27:66:A7:FA:6A:D2:74:9F:B5:7A:7F:3E:98:FB:76:9C:1F:A7:B0:9C:2C:44:D5:AE
# Fingerprint (SHA1): D5:EC:8D:7B:4C:BA:79:F4:E7:E8:CB:9D:6B:AE:77:83:10:03:21:6A
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 "BJCA Global Root CA1"
CKA CERTIFICATE TYPE CK CERTIFICATE TYPE CKC X 509
CKA SUBJECT MULTILINE OCTAL
\label{eq:condition} $$ \060\124\061\013\060\011\006\003\125\004\006\023\002\103\116\061 $$
\046\060\044\006\003\125\004\012\014\035\102\105\111\112\111\116
\107\040\103\105\122\124\111\106\111\103\101\124\105\040\101\125
\124\110\117\122\111\124\131\061\035\060\033\006\003\125\004\003
\014\024\102\112\103\101\040\107\154\157\142\141\154\040\122\157
\157\164\040\103\101\061
END
CKA ID UTF8 "0"
CKA ISSUER MULTILINE OCTAL
\060\124\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\\ \\046\\060\\044\\006\\003\\125\\004\\012\\014\\035\\102\\105\\111\\112\\111\\116
\124\110\117\122\111\124\131\061\035\060\033\006\003\125\004\003
\014\024\102\112\103\101\040\107\154\157\142\141\154\040\122\157
\157\164\040\103\101\061
END
CKA_SERIAL_NUMBER
MULTILINE OCTAL
\002\020\125\157\145\343\264\331\220\152\033\011\321\154\076\300
\154\040
END
```

CKA VALUE MULTILINE OCTAL

\060\202\005\164\060\202\003\134\240\003\002\001\002\002\020\125 \157\145\343\264\331\220\152\033\011\321\154\076\300\154\040\060 $\label{eq:condition} $$ \0.015\0.06\0.01\0.05\0.00\0.060\1.04 $$$ \061\013\060\011\006\003\125\004\006\023\002\103\116\061\046\060 $\\ \\004\\006\\003\\125\\004\\012\\014\\035\\102\\105\\111\\112\\111\\112\\111\\116\\107\\040$ \103\105\122\124\111\106\111\103\101\124\105\040\101\125\124\110 \117\122\111\124\131\061\035\060\033\006\003\125\004\003\014\024 \040\103\101\061\060\036\027\015\061\071\061\062\061\071\060\063 \061\066\061\067\132\027\015\064\064\061\062\061\062\060\063\061 $\label{eq:condition} $$ \066\061\067\132\060\124\061\013\060\011\006\003\125\004\006\023 $$$ \002\103\116\061\046\060\044\006\003\125\004\012\014\035\102\105 \003\125\004\003\014\024\102\112\103\101\040\107\154\157\142\141 $\label{eq:condition} $$ \frac{154}040\\122\\157\\157\\164\\040\\103\\101\\061\\060\\202\\002\\002\\042\\060\\015$ \006\011\052\206\110\206\367\015\001\001\001\005\000\003\202\002 \017\000\060\202\002\012\002\202\002\001\000\361\146\010\275\331 $\label{eq:condition} $$ 305 \times 141 \times 1313 \times 04 \times 101 \times 45 \times 151 \times 67 \times 167 \times 35 \times 301 \times 260 \times 173 \times 372$ \303\167\110\220\023\162\144\321\270\174\220\065\235\030\171\210 \343\227\001\074\107\201\362\016\242\230\015\236\077\067\340\031 $\label{eq:condition} $$ \262\220\362\106\034\222\261\072\141\316\372\267\106\236\003\206$ \327\063\156\355\367\105\214\166\067\336\156\226\221\367\327\176 $\label{eq:condition} $$ \053\207\027\325\213\065\356\204\221\162\127\334\140\303\303\271 $$$ \347\307\147\044\043\117\143\012\143\366\146\175\113\125\247\077 \170\144\111\151\022\227\340\114\015\323\011\240\062\060\072\372 \237\300\362\234\305\022\052\056\034\265\004\063\332\244\070\021 \152\336\306\030\366\107\072\042\101\207\042\374\304\211\050\124 \330\214\245\060\012\370\027\026\312\254\067\375\171\247\221\027 $\label{eq:condition} $$ 170\070\231\255\130\355\262\336\314\211\175\003\234\263\211\145$ \347\343\073\261\042\206\217\006\155\170\007\375\221\022\177\260 \153\034\211\015\371\270\313\164\133\007\302\310\364\065\321\144 \143\172\351\156\232\050\326\060\275\346\033\335\025\257\204\352 \234\307\312\365\016\352\362\135\051\207\217\151\163\071\276\056 \044\157\105\041\254\305\324\151\045\006\203\255\172\110\205\023 \054\015\006\270\154\171\126\374\243\147\062\201\365\127\245\312 $\label{eq:local_$ $\label{eq:condition} $$ \frac{330}{330}\frac{330}{331}\frac{266}{336}\frac{174}{107}\frac{212}{021}\frac{116}{111}\frac{333}{050} $$$ \224\002\013\224\112\054\371\022\320\117\350\061\176\154\172\277 \246\077\233\071\075\002\026\243\030\263\147\254\133\077\054\203 \053\147\071\201\134\271\176\224\325\144\335\236\217\156\256\350 \174\133\264\327\152\107\110\327\176\263\324\055\216\126\166\116 \317\151\361\156\104\154\324\044\352\215\044\241\030\277\275\127 \376\251\231\065\265\333\020\167\270\075\110\272\326\301\347\361 \043\076\327\337\205\235\047\074\324\100\275\012\014\275\365\347 \215\045\326\201\164\207\106\324\051\165\242\102\154\367\163\211 \347\175\277\172\112\037\323\042\311\025\125\317\337\157\174\125

\320\244\213\007\021\067\137\203\246\046\127\246\001\133\176\376 \130\150\007\251\351\172\331\271\350\377\120\037\253\302\264\300 \316\350\352\375\017\275\215\115\270\274\161\002\003\001\000\001 \243\102\060\100\060\035\006\003\125\035\016\004\026\004\024\305 \357\355\314\330\215\041\306\110\344\343\327\024\056\247\026\223 \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 \242\330\371\270\257\067\066\040\211\321\067\003\326\151\237\270 $\label{eq:condition} $$ 141\020\272\242\061\230\131\107\350\321\015\045\036\025\101\014$ \340\052\125\325\127\122\313\370\344\307\151\243\035\115\161\002 \136\137\041\105\140\110\134\011\216\111\020\301\004\334\251\142 \153\002\360\103\310\116\235\070\111\164\311\062\160\124\155\301 \107\374\216\264\066\236\324\234\275\335\040\326\123\311\030\251 \265\126\271\166\213\225\147\146\356\275\230\376\256\357\276\156 \373\140\366\375\131\306\052\033\077\043\112\224\044\060\047\310 \211\274\353\104\044\232\313\075\276\117\325\172\316\216\027\313 \142\301\331\336\036\016\172\377\103\206\064\122\274\141\077\074 \137\273\331\166\264\123\274\227\263\376\212\114\022\056\053\363 \327\316\341\242\377\335\173\160\373\073\241\115\244\143\002\375 \070\227\225\077\005\160\240\153\337\142\201\103\213\264\131\015 \040\333\034\374\037\230\147\002\012\324\163\104\023\333\121\204 $\label{eq:condition} $$ \032\125\003\126\340\000\176\164\006\377\070\304\162\035\323\250 $$$ \077\150\061\135\323\011\307\056\214\133\143\340\350\334\036\322 \354\141\036\362\336\345\357\366\231\166\140\055\036\224\162\161 $\label{eq:condition} $$ \306\013\052\062\307\222\116\325\106\327\035\371\251\031\012\310 $$$ \372\225\316\155\043\230\252\013\070\255\232\126\015\157\215\361 \061\000\210\301\027\234\315\031\066\065\376\125\123\240\340\074 $\label{eq:condition} $$ \063\137\226\136\342\062\351\337\063\273\006\112\251\330\204\163$ \316\167\322\306\254\161\341\134\243\035\014\273\012\337\137\342 \243\161\330\332\067\132\240\170\053\364\324\175\353\166\355\362 \141\160\245\145\232\323\211\064\030\253\373\162\076\327\264\075 $\label{eq:condition} $$ \frac{171}134\30\037\241\063\173\331\202\120\014\223\027\252\154\334}{202} $$$ \302\202\273\002\127\066\257\230\047\052\071\120\341\260\211\365 \045\227\176\107\150\020\264\354\163\312\263\227\321\044\334\366 $\\ 142 \\ 240 \\ 050 \\ 323 \\ 265 \\ 243 \\ 270 \\ 144 \\ 267 \\ 210 \\ 142 \\ 102 \\ 317 \\ 235 \\ 123 \\ 315 \\$ \231\276\144\150\217\117\036\022\110\367\322\051\303\230\050\312 \362\062\013\223\214\051\117\074\140\062\315\005\226\141\354\362 \257\376\263\160\054\056\246\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 "BJCA Global Root CA1"

```
# Issuer: CN=BJCA Global Root CA1,O=BEIJING CERTIFICATE AUTHORITY,C=CN
# Serial Number:55:6f:65:e3:b4:d9:90:6a:1b:09:d1:6c:3e:c0:6c:20
# Subject: CN=BJCA Global Root CA1,O=BEIJING CERTIFICATE AUTHORITY,C=CN
# Not Valid Before: Thu Dec 19 03:16:17 2019
# Not Valid After: Mon Dec 12 03:16:17 2044
# Fingerprint (SHA-256):
F3:89:6F:88:FE:7C:0A:88:27:66:A7:FA:6A:D2:74:9F:B5:7A:7F:3E:98:FB:76:9C:1F:A7:B0:9C:2C:44:D5:AE
# Fingerprint (SHA1): D5:EC:8D:7B:4C:BA:79:F4:E7:E8:CB:9D:6B:AE:77:83:10:03:21:6A
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 "BJCA Global Root CA1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\325\354\215\173\114\272\171\364\347\350\313\235\153\256\167\203
\020\003\041\152
END
CKA CERT MD5 HASH
MULTILINE OCTAL
\102\062\231\166\103\063\066\044\065\007\202\233\050\371\320\220
END
CKA ISSUER MULTILINE OCTAL
\label{eq:condition} $$ \060\124\061\013\060\011\006\003\125\004\006\023\002\103\116\061 $$
\046\060\044\006\003\125\004\012\014\035\102\105\111\112\111\116
\124\110\117\122\111\124\131\061\035\060\033\006\003\125\004\003
\014\024\102\112\103\101\040\107\154\157\142\141\154\040\122\157
\157\164\040\103\101\061
END
CKA SERIAL NUMBER MULTILINE OCTAL
\label{eq:condition} $$ \002\020\125\157\145\343\264\331\220\152\033\011\321\154\076\300 $$
\154\040
END
CKA TRUST SERVER AUTH CK TRUST CKT 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 "BJCA Global Root CA2"
# Issuer: CN=BJCA Global Root CA2,O=BEIJING CERTIFICATE AUTHORITY,C=CN
# Serial Number:2c:17:08:7d:64:2a:c0:fe:85:18:59:06:cf:b4:4a:eb
Subject: CN=BJCA Global Root CA2,O=BEIJING CERTIFICATE AUTHORITY,C=CN
# Not Valid Before: Thu Dec 19 03:18:21 2019
# Not Valid After: Mon Dec 12 03:18:21 2044
# Fingerprint (SHA-256):
```

57:4D:F6:93:1E:27:80:39:66:7B:72:0A:FD:C1:60:0F:C2:7E:B6:6D:D3:09:29:79:FB:73:85:64:87:21:28:82

Fingerprint (SHA1): F4:27:86:EB:6E:B8:6D:88:31:67:02:FB:BA:66:A4:53:00:AA:7A: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 "BJCA Global Root CA2"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA SUBJECT MULTILINE OCTAL

END

CKA ID

UTF8 "0"

CKA ISSUER MULTILINE OCTAL

END

CKA SERIAL NUMBER MULTILINE OCTAL

\002\020\054\027\010\175\144\052\300\376\205\030\131\006\317\264 \112\353

END

CKA_VALUE MULTILINE_OCTAL

\060\202\002\045\060\202\001\253\240\003\002\001\002\002\002\020\054 \027\010\175\144\052\300\376\205\030\131\006\317\264\112\353\060 \012\006\010\052\206\110\316\075\004\003\003\060\124\061\013\060 \011\006\003\125\004\006\023\002\103\116\061\046\060\044\006\003 \125\004\012\014\035\102\105\111\112\111\116\107\040\103\105\122 \124\111\106\111\103\101\124\105\040\101\125\124\110\117\122\111 $\label{eq:condition} $$ 101\040\107\154\157\142\141\154\040\122\157\157\164\040\103\101 $$$ \061\132\027\015\064\064\061\062\061\062\060\063\061\070\062\061 \132\060\124\061\013\060\011\006\003\125\004\006\023\002\103\116 \061\046\060\044\006\003\125\004\012\014\035\102\105\111\112\111 \116\107\040\103\105\122\124\111\106\111\103\101\124\105\040\101 \125\124\110\117\122\111\124\131\061\035\060\033\006\003\125\004 \003\014\024\102\112\103\101\040\107\154\157\142\141\154\040\122 \157\157\164\040\103\101\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\235

\313\200\221\215\123\147\265\271\120\261\003\370\345\111\037\101 \042\011\260\121\122\130\326\053\064\217\305\022\106\024\305\213 $\begin{tabular}{l} $$ \begin{tabular}{l} $0.57 \begin{tabular}{l} $0.57 \begin{tabular}{l} $0.57 \begin{tabular}{l} $0.54 \begin{tabular}{l} $0.53 \begin{tabular}{l} $0.$ $\label{eq:condition} $$ \075\174\301\054\304\113\152\112\315\351\207\340\175\366\042\276$ \372\112\121\270\060\212\375\341\336\030\022\012\366\107\267\347 $\\027\\277\\047\\212\\324\\101\\114\\226\\074\\140\\226\\301\\375\\025\\034\\243$ \102\060\100\060\035\006\003\125\035\016\004\026\004\024\322\112 \261\121\177\006\360\321\202\037\116\156\137\253\203\374\110\324 \260\221\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 $\label{eq:condition} $$ \002\001\006\00012\006\010\052\206\110\316\075\004\003\003\003$ \150\000\060\145\002\060\032\274\133\327\376\251\322\124\016\112 \135\322\155\261\100\334\364\103\325\322\112\231\031\022\126\200 \367\203\064\341\065\116\110\155\004\017\127\061\060\060\055\261 \252\235\003\070\333\006\002\061\000\313\314\207\123\313\172\337 \040\121\163\220\300\250\133\141\320\305\120\071\375\205\376\301 $\label{eq:condition} $$ 343\170\370\246\326\113\275\233\207\217\017\345\326\123\226\253$ \074\310\100\332\141\367\123\243\367

END

CKA_NSS_MOZILLA_CA_POLICY

CK BBOOL CK TRUE

CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "BJCA Global Root CA2"

Issuer: CN=BJCA Global Root CA2,O=BEIJING CERTIFICATE

AUTHORITY,C=CN

Serial Number:2c:17:08:7d:64:2a:c0:fe:85:18:59:06:cf:b4:4a:eb

Subject: CN=BJCA Global Root CA2,O=BEIJING CERTIFICATE AUTHORITY,C=CN

Not Valid Before: Thu Dec 19 03:18:21 2019

Not Valid After: Mon Dec 12 03:18:21 2044

Fingerprint (SHA-256):

Fingerprint (SHA1): F4:27:86:EB:6E:B8:6D:88:31:67:02:FB:BA:66:A4:53:00:AA:7A:A6

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "BJCA Global Root CA2"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL

\364\047\206\353\156\270\155\210\061\147\002\373\272\146\244\123

 $\langle 000 \rangle 252 \rangle 172 \rangle 246$

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL

\136\012\366\107\137\246\024\350\021\001\225\077\115\001\353\074

END

CKA_ISSUER MULTILINE_OCTAL

 $\label{eq:condition} $$ \060\124\061\013\060\011\006\003\125\004\006\023\002\103\116\061 $$$

\046\060\044\006\003\125\004\012\014\035\102\105\111\112\111\116 \107\040\103\105\122\124\111\106\111\103\101\124\105\040\101\125 \124\110\117\122\111\124\131\061\035\060\033\006\003\125\004\003 $\\ \\014\\\\024\\\\102\\\\112\\\\103\\\\101\\\\040\\\\107\\\\154\\\\157\\\\142\\\\141\\\\154\\\\040\\\\122\\\\157$ \157\164\040\103\101\062 **END** CKA SERIAL NUMBER MULTILINE OCTAL \002\020\054\027\010\175\144\052\300\376\205\030\131\006\317\264 \112\353 **END** CKA_TRUST_SERVER_AUTH CK_TRUST CKT_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 "LAWtrust Root CA2 (4096)" # Issuer: CN=LAWtrust Root CA2 (4096),O=LAWtrust,C=ZA # Serial Number: 1427795633 (0x551a6eb1) # Subject: CN=LAWtrust Root CA2 (4096),O=LAWtrust,C=ZA # Not Valid Before: Tue Feb 14 09:19:38 2023 # Not Valid After: Fri Feb 14 09:49:38 2053 # Fingerprint (SHA-256): 48:E1:CF:9E:43:B6:88:A5:10:44:16:0F:46:D7:73:B8:27:7F:E4:5B:EA:AD:0E:4D:F9:0D:19:74:38:2F:EA:99 # Fingerprint (SHA1): EC:A2:D5:30:A9:AB:2C:7D:0E:75:61:64:4E:0A:E0:16:A1:54:38:7D CKA_CLASS CK OBJECT CLASS CKO CERTIFICATE CKA TOKEN CK BBOOL CK TRUE CKA_PRIVATE CK_BBOOL CK_FALSE CKA MODIFIABLE CK BBOOL CK FALSE CKA LABEL UTF8 "LAWtrust Root CA2 (4096)" CKA CERTIFICATE TYPE CK CERTIFICATE TYPE CKC X 509 CKA SUBJECT MULTILINE OCTAL \060\103\061\013\060\011\006\003\125\004\006\023\002\132\101\061 \021\060\017\006\003\125\004\012\023\010\114\101\127\164\162\165 \163\164\061\041\060\037\006\003\125\004\003\023\030\114\101\127 $\label{eq:condition} $$ 164\162\165\163\164\040\122\157\157\164\040\103\101\062\040\050$$ \064\060\071\066\051 **END** CKA ID UTF8 "0" CKA_ISSUER MULTILINE_OCTAL \060\103\061\013\060\011\006\003\125\004\006\023\002\132\101\061 $\label{eq:condition} $$ \021\060\017\006\003\125\004\012\023\010\114\101\127\164\162\165$ \163\164\061\041\060\037\006\003\125\004\003\023\030\114\101\127 \164\162\165\163\164\040\122\157\157\164\040\103\101\062\040\050 \064\060\071\066\051

END

CKA SERIAL NUMBER MULTILINE OCTAL

\002\004\125\032\156\261

END

CKA_VALUE MULTILINE_OCTAL

 $\label{eq:condition} $$ \0.000\200\0.000\200\0.0000\0.000\0.000\0.000\0.0000\0.000\0.000\0.0000\0.0000\0.0000\0.0000\0.0000\0.0000\0.0000\0.00$ \032\156\261\060\015\006\011\052\206\110\206\367\015\001\001\013 \005\000\060\103\061\013\060\011\006\003\125\004\006\023\002\132 $\label{eq:condition} $$ 101\061\021\060\017\006\003\125\004\012\023\010\114\101\127\164$$ \162\165\163\164\061\041\060\037\006\003\125\004\003\023\030\114 $\label{eq:condition} $$ 101\127\164\162\165\163\164\040\122\157\157\164\040\103\101\062$ $\label{eq:condition} $$ \040\050\064\060\071\066\051\060\040\027\015\062\063\060\062\061 $$$ \064\060\071\061\071\063\070\132\030\017\062\060\065\063\060\062 $\label{eq:condition} $$ \061\064\060\071\064\071\063\070\132\060\103\061\013\060\011\006$ \012\023\010\114\101\127\164\162\165\163\164\061\041\060\037\006 $\label{eq:condition} $$ \003\125\004\003\023\030\114\101\127\164\162\165\163\164\040\122$$ \157\157\164\040\103\101\062\040\050\064\060\071\066\051\060\202 \002\042\060\015\006\011\052\206\110\206\367\015\001\001\001\005 $\label{eq:condition} $$ \000\003\202\002\017\000\060\202\002\012\002\202\002\001\000\314$$ \027\313\053\103\272\154\371\311\223\212\145\015\022\114\354\047 \024\267\023\171\340\324\325\055\030\126\361\371\352\052\020\026 $\label{eq:condition} $$ \frac{116\\154\\104\\307\\152\\145\\106\\363\\232\\211\\065\\321\\207\\370\\063\\211$ \057\210\011\032\222\020\221\220\301\153\237\016\156\177\046\212 \023\135\030\254\150\001\015\020\170\145\160\330\216\217\204\132 \227\060\030\320\021\016\112\215\122\020\245\201\053\121\050\365 \143\304\266\354\100\263\001\345\255\167\275\345\070\357\274\215 \263\335\031\240\173\015\215\264\333\152\373\045\063\132\372\221 \257\304\161\105\060\370\210\051\173\313\277\325\272\047\004\216 \335\262\000\367\312\134\231\065\024\352\375\165\006\025\010\273 $\label{eq:condition} $$ \frac{312}127\150\373\077\373\264\064\163\143\321\325\343\310\070\132}$ \151\175\152\172\104\014\015\212\116\355\222\035\020\217\073\042 \054\266\337\355\305\306\360\211\171\124\145\136\137\033\275\217 \175\337\271\267\355\353\344\305\007\321\147\074\225\073\221\376 \102\172\122\100\200\004\322\071\127\113\364\222\175\377\233\357 \345\235\311\011\262\221\022\070\246\051\010\073\256\353\312\314 \355\115\347\116\041\001\007\374\157\062\316\151\214\204\122\306 \167\352\047\060\012\336\245\257\060\053\150\037\254\324\354\041 \255\042\111\166\316\017\302\362\007\052\371\152\022\203\232\073 \004\256\031\172\376\241\206\044\372\101\136\045\174\100\254\047 \266\343\051\066\157\065\342\127\320\031\130\337\377\144\366\303 \001\111\166\333\053\276\274\271\117\024\012\325\033\130\041\366 \034\056\000\174\370\224\265\313\067\032\024\344\062\271\026\324 \140\354\005\252\137\062\372\152\043\022\254\324\020\273\322\242 \202\264\113\016\213\160\047\252\326\007\301\147\210\372\204\303 \010\311\212\204\310\322\067\162\201\017\215\026\112\344\327\065 \121\245\070\017\214\204\113\225\066\300\365\327\235\340\135\217 $\label{eq:condition} $$ \253\221\356\000\010\271\235\122\037\354\370\231\273\171\126\261 $$$

\111\332\322\345\330\141\213\133\257\360\253\067\305\173\032\216 \206\276\176\305\173\025\036\141\150\350\013\207\213\163\111\241 \027\163\176\051\170\216\312\340\101\057\165\163\164\242\227\072 \177\367\056\164\011\270\114\140\213\106\066\031\020\055\235\002 \003\001\000\001\243\201\221\060\201\216\060\017\006\003\125\035 $\label{eq:condition} $$ \023\001\001\377\004\005\060\003\001\001\377\060\016\006\003\125$$ \035\017\001\001\377\004\004\003\002\001\006\060\053\006\003\125 \035\020\004\044\060\042\200\017\062\060\062\063\060\062\061\064 $\label{eq:condition} $$ \0.060\0.071\0.63\0.070\1.32\2.01\0.017\0.62\0.60\0.65\0.63\0.60\0.62\0.61$$ \064\060\071\064\071\063\070\132\060\037\006\003\125\035\043\004 $\label{eq:condition} $$ \030\060\026\200\024\327\326\126\142\134\077\027\201\346\163\104$$$ $\label{eq:condition} $$ \051\365\121\005\357\013\140\067\254\060\035\006\003\125\035\016$ \004\026\004\024\327\326\126\142\134\077\027\201\346\163\104\051 $\label{eq:condition} $$ \365\121\005\357\013\140\067\254\060\015\006\011\052\206\110\206$ $\label{eq:condition} $$ \367\015\001\001\013\005\000\003\202\002\001\000\111\234\051\376$ \075\354\236\105\177\253\076\074\376\043\157\067\076\167\247\123 $\label{eq:condition} $$ \frac{377}170\237\374\111\104\200\127\146\234\156\332\171\377\315\105$$ \255\114\223\277\265\131\306\351\020\267\345\370\214\373\207\305 \036\213\330\263\077\002\226\012\273\212\216\357\327\264\300\203 $\\ \\ \langle 040 \rangle 070 \rangle 227 \rangle 131 \rangle 105 \rangle 144 \rangle 374 \rangle 366 \rangle 167 \rangle 023 \rangle 362 \rangle 011 \rangle 327 \rangle 241 \rangle 310 \rangle 070$ \164\010\352\371\110\114\372\037\004\234\264\377\354\156\126\066 \162\223\154\225\076\054\137\336\017\013\253\311\314\025\076\026 $\label{eq:condition} $$ \frac{374}{262}020\\270\\241\\321\\264\\336\\300\\143\\031\\314\\357\\123$ \252\165\066\042\213\045\037\277\233\310\327\301\137\354\246\067 \011\252\173\142\274\366\042\055\361\326\130\335\214\273\122\364 \013\247\166\251\172\173\032\215\334\255\232\201\142\056\206\005 \220\162\107\057\241\311\147\204\260\015\154\260\270\233\026\267 \320\231\024\057\234\022\233\043\250\215\246\103\036\351\345\055 \345\170\247\037\144\224\144\266\167\262\250\134\373\011\253\051 \353\036\155\165\321\366\320\305\245\303\035\237\036\363\032\055 $\label{eq:condition} $$ \262\310\037\345\050\012\156\363\137\375\332\346\043\241\166\220 $$$ \134\113\230\001\202\054\356\107\055\002\032\137\177\064\305\151 \265\162\255\076\363\317\236\155\370\051\350\021\047\053\340\131 \013\033\141\353\112\312\151\245\244\325\315\121\033\224\216\171 \315\337\366\256\164\135\261\054\033\206\123\376\321\060\006\101 \064\007\142\202\114\364\176\307\207\164\016\260\041\036\011\040 \200\301\263\025\075\106\155\323\361\006\222\077\357\240\225\212 $\label{eq:condition} $$ \034\156\167\061\266\353\170\051\014\173\356\202\245\117\176\244 $$$ $\label{eq:condition} $$ \051\136\236\252\055\370\216\300\363\374\015\006\205\233\116\334$ $\label{eq:condition} $$ 367\342\011\174\320\024\121\036\172\263\043\257\372\321\141\052$ \145\265\001\331\270\343\007\312\044\166\322\360\112\276\357\206 \004\200\102\025\160\021\150\176\327\307\273\376\347\116\233\234 \225\245\034\112\244\311\320\011\214\252\316\110\322\036\222\227 \327\021\351\355\146\314\067\334\365\327\033\164\233\246\352\102 \254\135\062\340\130\364\201\107\377\322\022\342\176\034\334\111 \166\226\303\035\237\113\312\134\052\067\133\075\212\321\070\233 \041\332\343\277\105\103\323\340\130\167\037\050 **END**

CKA_NSS_MOZILLA_CA_POLICY CK BBOOL CK TRUE CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE # Trust for "LAWtrust Root CA2 (4096)" # Issuer: CN=LAWtrust Root CA2 (4096),O=LAWtrust,C=ZA # Serial Number: 1427795633 (0x551a6eb1) # Subject: CN=LAWtrust Root CA2 (4096),O=LAWtrust,C=ZA # Not Valid Before: Tue Feb 14 09:19:38 2023 # Not Valid After: Fri Feb 14 09:49:38 2053 # Fingerprint (SHA-256): 48:E1:CF:9E:43:B6:88:A5:10:44:16:0F:46:D7:73:B8:27:7F:E4:5B:EA:AD:0E:4D:F9:0D:19:74:38:2F:EA:99 # Fingerprint (SHA1): EC:A2:D5:30:A9:AB:2C:7D:0E:75:61:64:4E:0A:E0:16:A1:54:38:7D 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 "LAWtrust Root CA2 (4096)" CKA CERT SHA1 HASH MULTILINE OCTAL $\label{eq:condition} $$354\242\325\060\251\253\054\175\016\165\141\144\116\012\340\026$ \241\124\070\175 **END** CKA_CERT_MD5_HASH MULTILINE_OCTAL \257\035\306\323\105\305\353\365\246\141\043\060\075\056\021\261 **END** CKA_ISSUER MULTILINE_OCTAL \060\103\061\013\060\011\006\003\125\004\006\023\002\132\101\061 \021\060\017\006\003\125\004\012\023\010\114\101\127\164\162\165 \163\164\061\041\060\037\006\003\125\004\003\023\030\114\101\127 \164\162\165\163\164\040\122\157\157\164\040\103\101\062\040\050 \064\060\071\066\051 **END** CKA_SERIAL_NUMBER MULTILINE OCTAL \002\004\125\032\156\261 **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 "Sectigo Public Email Protection Root E46" # Issuer: CN=Sectigo Public Email Protection Root E46,O=Sectigo Limited,C=GB # Serial Number:6e:f5:d3:a7:41:8e:a0:59:40:a7:30:6b:d2:40:65:56

- # Subject: CN=Sectigo Public Email Protection Root E46,O=Sectigo Limited,C=GB
- # Not Valid Before: Mon Mar 22 00:00:00 2021
- # Not Valid After: Wed Mar 21 23:59:59 2046
- # Fingerprint (SHA-256):
- 22:D9:59:92:34:D6:0F:1D:4B:C7:C7:E9:6F:43:FA:55:5B:07:30:1F:D4:75:17:50:89:DA:FB:8C:25:E4:77:B3
- # Fingerprint (SHA1): 3A:C5:C3:78:34:5B:E1:82:92:46:ED:17:86:B3:93:91:7B:51:F2:14

CKA CLASS

CK_OBJECT_CLASS CKO_CERTIFICATE

CKA_TOKEN CK_BBOOL CK_TRUE

CKA PRIVATE CK BBOOL CK FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "Sectigo Public Email Protection Root E46"

CKA CERTIFICATE TYPE CK CERTIFICATE TYPE CKC X 509

CKA_SUBJECT MULTILINE_OCTAL

 $\label{eq:condition} $$ \060\132\061\013\060\011\006\003\125\004\006\023\002\107\102\061 $$$

 $\label{eq:condition} $$ \000\0026\006\003\125\004\012\023\017\123\145\143\164\151\147 $$$

\157\040\114\151\155\151\164\145\144\061\061\060\057\006\003\125

 $\\ \\004\\ \\003\\ \\023\\ \\050\\ \\123\\ \\145\\ \\143\\ \\164\\ \\151\\ \\147\\ \\157\\ \\040\\ \\120\\ \\165\\ \\142\\ \\154$

\151\143\040\105\155\141\151\154\040\120\162\157\164\145\143\164

\151\157\156\040\122\157\157\164\040\105\064\066

END

CKA ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

END

CKA_SERIAL_NUMBER

MULTILINE_OCTAL

 $\label{eq:condition} $$ \002\020\156\365\323\247\101\216\240\131\100\247\060\153\322\100\145\126$

END

CKA VALUE MULTILINE OCTAL

\017\123\145\143\164\151\147\157\040\114\151\155\151\164\145\144 \061\061\060\057\006\003\125\004\003\023\050\123\145\143\164\151 $\\ 147\\ 157\\ 040\\ 120\\ 165\\ 142\\ 154\\ 151\\ 143\\ 040\\ 105\\ 155\\ 141\\ 151\\ 154\\ 040$ $\label{eq:local_$ \105\064\066\060\166\060\020\006\007\052\206\110\316\075\002\001 $\label{eq:condition} $$ \006\005\053\201\004\000\042\003\142\000\004\270\247\122\224\365 $$$ \076\005\260\033\366\037\261\323\176\271\344\005\146\124\200\316 \154\245\150\175\344\123\122\333\202\372\304\206\337\103\170\367 \310\255\026\274\077\170\062\313\153\323\111\326\104\345\263\176 \237\173\246\306\054\362\342\266\323\211\260\232\074\113\316\211 \113\306\306\313\072\111\140\017\106\274\155\116\172\234\311\233 \205\173\012\266\260\107\302\210\343\324\321\243\102\060\100\060 \035\006\003\125\035\016\004\026\004\024\055\116\214\247\302\043 \262\127\251\006\153\076\153\053\211\363\303\136\107\316\060\016 $\label{eq:condition} $$ \006\003\125\035\017\001\001\377\004\004\003\002\001\206\060\017 $$$ \006\003\125\035\023\001\001\377\004\005\060\003\001\001\377\060 $\label{eq:condition} $$ \012\006\010\052\206\110\316\075\004\003\003\003\150\000\060\145$$ \002\061\000\222\235\032\131\143\105\130\216\033\026\344\175\172 \154\066\110\060\037\053\162\347\220\063\064\375\044\242\306\006 \214\157\073\062\127\132\370\376\306\111\022\123\232\331\020\262 \231\121\162\002\060\005\045\052\063\041\374\223\346\042\242\314 $\label{eq:condition} $$ 126\242\007\304\041\204\043\032\114\114\231\120 $$$ \231\222\024\313\112\334\126\373\365\323\217\152\054\365\161\072 \370\213\073\003\236

END

 $CKA_NSS_MOZILLA_CA_POLICY$

CK BBOOL CK TRUE

CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

- # Trust for "Sectigo Public Email Protection Root E46"
- # Issuer: CN=Sectigo Public Email Protection Root E46,O=Sectigo Limited,C=GB
- # Serial Number:6e:f5:d3:a7:41:8e:a0:59:40:a7:30:6b:d2:40:65:56
- # Subject: CN=Sectigo Public Email Protection Root E46,O=Sectigo Limited,C=GB
- # Not Valid Before: Mon Mar 22 00:00:00 2021

Not

Valid After: Wed Mar 21 23:59:59 2046

Fingerprint (SHA-256):

22:D9:59:92:34:D6:0F:1D:4B:C7:C7:E9:6F:43:FA:55:5B:07:30:1F:D4:75:17:50:89:DA:FB:8C:25:E4:77:B3

Fingerprint (SHA1): 3A:C5:C3:78:34:5B:E1:82:92:46:ED:17:86:B3:93:91:7B:51:F2:14

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "Sectigo Public Email Protection Root E46"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL

 $\label{eq:condition} $$ \072\305\303\170\064\133\341\202\222\106\355\027\206\263\223\221 $$$

\173\121\362\024

```
END
CKA CERT MD5 HASH MULTILINE OCTAL
\label{eq:condition} $$ \271\032\257\054\211\226\100\140\047\006\073\241\177\335\211\323
END
CKA ISSUER MULTILINE OCTAL
\060\132\061\013\060\011\006\003\125\004\006\023\002\107\102\061
\030\060\026\006\003\125\004\012\023\017\123\145\143\164\151\147
\004\003\023\050\123\145\143\164\151\147\157\040\120\165\142\154
\151\143\040\105\155\141\151\154\040\120\162\157\164\145\143\164
\151\157\156\040\122\157\157\164\040\105\064\066
END
CKA SERIAL NUMBER
MULTILINE_OCTAL
\label{eq:condition} $$ \002\020\156\365\323\247\101\216\240\131\100\247\060\153\322\100 $$
\145\126
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 "Sectigo Public Email Protection Root R46"
# Issuer: CN=Sectigo Public Email Protection Root R46,O=Sectigo Limited,C=GB
# Serial Number:1d:44:9e:b9:0d:83:91:74:ae:dd:f2:eb:88:b7:a6:a3
# Subject: CN=Sectigo Public Email Protection Root R46,O=Sectigo Limited,C=GB
# Not Valid Before: Mon Mar 22 00:00:00 2021
# Not Valid After: Wed Mar 21 23:59:59 2046
# Fingerprint (SHA-256):
D5:91:7A:77:91:EB:7C:F2:0A:2E:57:EB:98:28:4A:67:B2:8A:57:E8:91:82:DA:53:D5:46:67:8C:9F:DE:2B:4F
# Fingerprint (SHA1): D3:7B:8B:0A:E8:42:44:FB:6B:80:38:EE:AE:91:80:26:1A:48:70:66
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 "Sectigo Public Email Protection Root R46"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
```

\060\132\061\013\060\011\006\003\125\004\006\023\002\107\102\061 \030\060\026\006\003\125\004\012\023\017\123\145\143\164\151\147

\157\040\114\151\155\151\164\145\144\061\061\060\057\006\003\125

\004\003\023\050\123\145\143\164\151\147\157\040\120\165\142\154

\151\143\040\105\155\141\151\154\040\120\162\157\164\145\143\164

\151\157\156\040\122\157\157\164\040\122\064\066

END

CKA ID UTF8 "0"

CKA ISSUER MULTILINE OCTAL

END

CKA SERIAL NUMBER

MULTILINE_OCTAL

\002\020\035\104\236\271\015\203\221\164\256\335\362\353\210\267 \246\243

END

CKA_VALUE MULTILINE_OCTAL

\060\202\005\200\060\202\003\150\240\003\002\001\002\002\020\035 \104\236\271\015\203\221\164\256\335\362\353\210\267\246\243\060 \015\006\011\052\206\110\206\367\015\001\001\014\005\000\060\132 \061\013\060\011\006\003\125\004\006\023\002\107\102\061\030\060 $\label{eq:condition} $$ \006\003\125\004\012\023\017\123\145\143\164\151\147\157\040 $$$ \114\151\155\151\164\145\144\061\061\060\057\006\003\125\004\003 \023\050\123\145\143\164\151\147\157\040\120\165\142\154\151\143 $\\ \\ \langle 040 \rangle 105 \rangle 155 \rangle 141 \rangle 151 \rangle 154 \rangle 040 \rangle 120 \rangle 162 \rangle 157 \rangle 164 \rangle 143 \rangle 164 \rangle 151 \rangle 157$ \156\040\122\157\157\164\040\122\064\066\060\036\027\015\062\061 \060\063\062\062\060\060\060\060\060\060\132\027\015\064\066\060 \063\062\061\062\063\065\071\065\071\132\060\132\061\013\060\011 \006\003\125\004\006\023\002\107\102\061\030\060\026\006\003\125 $\\ \\004\\ \\012\\ \\023\\ \\017\\ \\123\\ \\145\\ \\143\\ \\164\\ \\151\\ \\147\\ \\157\\ \\040\\ \\114\\ \\151\\ \\155\\ \\151$ \164\145\144\061\061\060\057\006\003\125\004\003\023\050\123\145 \143\164\151\147\157\040\120\165\142\154\151\143\040\105\155\141 \151\154\040\120\162\157\164\145\143\164\151\157\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\221\345\033\372\252\155\067\053\165 \307\056\137\024\245\333\054\227\266\054\106\217\151\331\354\226 \055\363\035\132\276\323\035\043\346\150\011\377\112\021\163\032 \256\147\237\166\232\322\347\354\270\331\137\053\371\046\126\121 $\verb|\257|166|235|251|374|027|357|062|012|320|043|074|272|054|117|107|$ \203\354\235\005\150\102\136\006\340\325\350\053\150\110\227\262 \372\363\244\161\065\175\064\233\027\213\177\115\015\333\334\117 \005\114\224\142\277\065\372\057\310\247\034\146\331\161\137\345 \346\132\125\312\253\364\270\167\031\105\120\105\116\112\253\333 \236\146\301\031\267\067\102\310\126\245\100\022\371\063\350\070 \105\072\306\204\243\002\216\057\044\260\303\101\205\007\111\234 \317\334\321\362\046\157\355\063\034\063\147\052\105\067\331\205 \145\042\032\261\265\020\122\011\153\003\306\037\160\075\221\304 \175\220\075\355\146\370\220\377\045\340\355\222\242\213\061\051 \255\234\022\146\170\143\235\127\354\373\013\336\216\334\213\313

\072\251\167\364\272\345\354\070\214\213\346\023\146\247\151\130 \303\202\032\032\315\361\237\330\123\222\116\111\175\251\105\347 $\label{eq:condition} $$ \361\103\041\132\267\076\100\315\143\211\317\331\277\307\120\013$ $\label{eq:condition} $\341\274\347\210\226\255\236\324\027\332\135\317\340\221\375\246$$ \020\324\271\003\201\233\151\254\373\204\250\201\065\353\033\353 \150\154\174\140\076\303\337\311\264\256\164\035\110\255\335\156 \021\206\341\052\152\066\026\256\310\316\274\333\130\374\100\223 \100\330\216\123\227\302\254\042\070\345\210\061\263\056\241\357 $\label{eq:condition} $$ \frac{354}340\\102\\015\\352\\377\\223\\126\\112\\006\\244\\233\\114\\002\\150\\144$ \217\126\120\301\201\005\375\313\333\305\327\025\362\153\265\166 $\label{eq:condition} $$ 303\243\371\062\316\312\265\112\251\033\175\031\334\177\307\152$ \176\225\354\266\270\215\375\225\112\234\243\053\155\213\361\160 \345\107\053\000\134\344\271\236\324\370\331\130\051\320\313\340 $\label{eq:condition} $$ \050\142\154\256\234\142\342\314\274\066\223\101\365\357\376\106 $$$ $\\ 142\\225\\260\\127\\112\\164\\054\\107\\122\\051\\235\\335\\242\\241\\117\\102$ \302\222\316\055\120\122\136\214\012\241\367\330\235\305\370\375 $\label{eq:condition} $$ \066\207\116\127\375\150\241\137\231\203\034\360\265\335\350\222 $$$ \323\145\100\125\312\226\205\002\003\001\000\001\243\102\060\100 \060\035\006\003\125\035\016\004\026\004\024\247\327\225\167\353 \112\303\047\315\223\276\067\114\046\204\041\024\175\135\230\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 $\label{eq:condition} $$ \060\015\006\011\052\206\110\206\367\015\001\001\001\014\005\000\003$$ \202\002\001\000\064\322\361\025\363\223\001\324\162\213\360\253 $\label{eq:condition} $$ \010\037\023\074\163\264\260\253\350\170\331\154\272\232\257\046 $$$ \354\020\200\345\015\123\061\335\343\372\214\121\042\044\063\067 \270\030\176\072\372\130\350\064\345\214\340\241\037\011\101\322 $\label{eq:condition} $$ \067\077\314\313\011\065\102\210\351\374\021\327\317\102\252\244$$ \160\266\161\301\123\275\305\164\257\304\042\044\143\317\142\202 \175\311\313\121\301\210\220\155\133\134\276\373\231\250\272\266 $\label{eq:condition} $$ \206\260\351\146\013\345\033\153\257\352\053\206\247\337\250\043$ \114\226\077\117\127\102\030\025\203\103\361\206\046\267\052\003 \316\013\235\350\245\150\036\214\157\275\205\343\033\121\217\347 \027\057\053\320\326\170\302\055\335\162\210\324\145\236\372\231 \324\176\347\227\012\222\001\232\245\251\204\072\014\052\164\075 \063\030\310\207\367\350\244\365\206\102\071\375\153\165\051\374 \000\006\254\242\245\032\124\216\351\120\111\027\146\257\113\004 $\label{eq:condition} $$ \05\233\224\200\245\124\253\214\127\027\104\237\017\326\150\144$$$ \162\264\113\036\001\307\331\233\224\331\203\231\257\022\005\021 \243\230\042\322\362\127\312\044\371\272\070\025\022\110\272\143 \073\374\213\225\170\326\162\007\126\314\315\374\235\034\320\305 \144\073\143\064\317\004\231\212\267\060\171\172\266\362\306\325 \331\124\172\207\013\176\116\367\204\354\024\363\210\026\022\361 \325\256\012\032\011\356\206\255\345\253\375\256\303\051\171\164 \303\001\137\021\233\337\165\231\306\112\367\233\217\154\111\354 \041\057\264\002\131\263\055\320\162\220\272\013\024\164\170\113 \317\301\137\125\162\216\124\053\023\316\372\130\014\323\273\054 \331\251\221\141\370\370\361\266\173\336\274\251\314\222\004\314 $\label{eq:condition} $$ \frac{113\\153\\137\\163\\200\\266\\041\\355\\120\\117\\327\\166\\207\\156\\316\\337\\322\\266\\077\\336\\022\\333\\355\\004\\151\\236\\166\\210\\252\\001\\155\\332\\206\\307\\140\\0033\\303\\122\\254\\067\\354\\120\\161\\200\\162\\052\\041\\105\\012\\123\\107\\074\\031\\353\\215\\322\\131\\004\\336\\045\\260\\353\\037\\065\\157\\140\\175\\327\\265\\306\\273\\013\\047\\215\\340\\115\\124\\345\\317\\035\\046\\001\\156\\073\\065\\310\\040\\022\\211\\203\\360\\322\\355\\130\\073\\064\\235\\273\\061\\365\\062\\375\\061\\363\\126\\032$

END

CKA NSS MOZILLA CA POLICY

CK_BBOOL CK_TRUE

CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE

CKA NSS EMAIL DISTRUST AFTER

CK_BBOOL CK_FALSE

- # Trust for "Sectigo Public Email Protection Root R46"
- # Issuer: CN=Sectigo Public Email Protection Root R46,O=Sectigo Limited,C=GB
- # Serial Number:1d:44:9e:b9:0d:83:91:74:ae:dd:f2:eb:88:b7:a6:a3
- # Subject: CN=Sectigo Public Email Protection Root R46,O=Sectigo Limited,C=GB
- # Not Valid Before: Mon Mar 22 00:00:00 2021
- # Not Valid After: Wed Mar 21 23:59:59 2046
- # Fingerprint (SHA-256):

D5:91:7A:77:91:EB:7C:F2:0A:2E:57:EB:98:28:4A:67:B2:8A:57:E8:91:82:DA:53:D5:46:67:8C:9F:DE:2B:4F

Fingerprint (SHA1): D3:7B:8B:0A:E8:42:44:FB:6B:80:38:EE:AE:91:80:26:1A:48:70:66

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 "Sectigo Public Email Protection Root R46"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL

\323\173\213\012\350\102\104\373\153\200\070\356\256\221\200\046 \032\110\160\146

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL

 $\label{eq:condition} $$ 102\047\005\220\034\246\300\373\242\015\375\337\142\211\335\133 $$$

END

CKA_ISSUER

MULTILINE OCTAL

 $\label{eq:condition} $$ \060\132\061\013\060\011\006\003\125\004\006\023\002\107\102\061 $$$

 $\label{eq:condition} $$ \000\006\003\125\004\012\023\017\123\145\143\164\151\147$$$

\157\040\114\151\155\151\164\145\144\061\061\060\057\006\003\125

 $\\ \\004\\ \\003\\ \\023\\ \\050\\ \\123\\ \\145\\ \\143\\ \\164\\ \\151\\ \\147\\ \\157\\ \\040\\ \\120\\ \\165\\ \\142\\ \\154$

\151\143\040\105\155\141\151\154\040\120\162\157\164\145\143\164

\151\157\156\040\122\157\157\164\040\122\064\066

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

 $\label{eq:condition} $$ \020\035\104\236\271\015\203\221\164\256\335\362\353\210\267 $$$

\246\243

```
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 "Sectigo Public Server Authentication Root E46"

#

Issuer: CN=Sectigo Public Server Authentication Root E46,O=Sectigo Limited,C=GB

Serial Number:42:f2:cc:da:1b:69:37:44:5f:15:fe:75:28:10:b8:f4

Subject: CN=Sectigo

Public Server Authentication Root E46,O=Sectigo Limited,C=GB

Not Valid Before: Mon Mar 22 00:00:00 2021

Not Valid After: Wed Mar 21 23:59:59 2046

Fingerprint (SHA-256):

C9:0F:26:F0:FB:1B:40:18:B2:22:27:51:9B:5C:A2:B5:3E:2C:A5:B3:BE:5C:F1:8E:FE:1B:EF:47:38:0C:53:83

Fingerprint (SHA1): EC:8A:39:6C:40:F0:2E:BC:42:75:D4:9F:AB:1C:1A:5B:67:BE:D2:9A

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 "Sectigo Public Server Authentication Root E46"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL

 $\label{eq:condition} $$ \060\137\061\013\060\011\006\003\125\004\006\023\002\107\102\061 $$$

\030\060\026\006\003\125\004\012\023\017\123\145\143\164\151\147

 $\label{eq:condition} $$ \frac{157}040\\114\\151\\155\\151\\164\\145\\144\\061\\066\\060\\060\\064\\006\\003\\125$

 $\\ \\ 004 \\ 003 \\ 023 \\ 055 \\ 123 \\ 145 \\ 143 \\ 164 \\ 151 \\ 147 \\ 157 \\ 040 \\ 120 \\ 165 \\ 142 \\ 154$

\151\143\040\123\145\162\166\145\162\040\101\165\164\150\145\156

\066

END

CKA_ID

UTF8 "0"

CKA ISSUER MULTILINE OCTAL

 $\label{eq:condition} $$ \000137061\013\060\011\006\003\125\004\006\023\002\107\102\061 $$ \030\060\026\006\003\125\004\012\023\017\123\145\143\164\151\147 $$ \157\040\120\165\142\155 $$ \004\003\023\055\123\145\143\164\151\147\157\040\120\165\142\154 $$ \151\143\040\123\145\162\166\145\162\040\101\165\164\150\145\156 $$ \164\151\143\141\164\151\157\156\040\122\157\157\164\040\105\064 $$ \066$$

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

\002\020\102\362\314\332\033\151\067\104\137\025\376\165\050\020 \270\364

END

CKA VALUE MULTILINE OCTAL

\060\202\002\072\060\202\001\301\240\003\002\001\002\002\020\102 \362\314\332\033\151\067\104\137\025\376\165\050\020\270\364\060 \012\006\010\052\206\110\316\075\004\003\003\060\137\061\013\060 \011\006\003\125\004\006\023\002\107\102\061\030\060\026\006\003 \151\164\145\144\061\066\060\064\006\003\125\004\003\023\055\123 \145\143\164\151\147\157\040\120\165\142\154\151\143\040\123\145 \162\166\145\162\040\101\165\164\150\145\156\164\151\143\141\164 \151\157\156\040\122\157\157\164\040\105\064\066\060\036\027\015 \062\061\060\063\062\062\060\060\060\060\060\060\060\132\027\015\064 $\label{eq:condition} $$ \060\063\062\061\062\063\065\071\065\071\132\060\137\061\013 $$$ \060\011\006\003\125\004\006\023\002\107\102\061\030\060\026\006 $\label{eq:condition} $$ \003\125\004\012\023\017\123\145\143\164\151\147\157\040\114\151$ \155\151\164\145\144\061\066\060\064\006\003\125\004\003\023\055 \123\145\143\164\151\147\157\040\120\165\142\154\151\143\040\123 \145\162\166\145\162\040\101\165\164\150\145\156\164\151\143\141 \164\151\157\156\040\122\157\157\164\040\105\064\066\060\166\060 \020\006\007\052\206\110\316\075\002\001\006\005\053\201\004\000 $\label{eq:condition} $$ \042\003\142\000\004\166\372\231\251\156\040\355\371\327\167\343 $$$ \007\073\250\333\075\137\070\350\253\125\246\126\117\326\110\352 \354\177\055\252\303\262\305\171\354\231\141\177\020\171\307\002 $\label{eq:condition} $$ 132\371\004\067\365\064\065\053\167\316\177\040\217\122\243\000$$ \211\354\325\247\242\155\133\343\113\222\223\240\200\365\001\224 \334\360\150\007\036\315\356\376\045\122\265\040\103\034\033\376 \353\031\316\103\243\243\102\060\100\060\035\006\003\125\035\016 \004\026\004\024\321\042\332\114\131\361\113\137\046\070\252\235 \326\356\353\015\303\373\251\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\012\006\010\052\206\110 \316\075\004\003\003\003\147\000\060\144\002\060\047\356\244\132 \250\041\273\351\107\227\224\211\245\164\040\155\171\117\310\275 \223\136\130\030\373\055\032\000\152\311\270\075\320\244\117\104 \107\224\001\126\242\370\063\045\014\102\337\252\002\060\035\352 \341\056\210\056\341\371\247\035\002\062\116\362\237\154\125\164 \343\256\256\373\245\032\356\355\322\374\302\003\021\353\105\134 \140\020\075\134\177\231\003\133\155\124\110\001\212\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 "Sectigo Public Server Authentication Root E46"
- # Issuer: CN=Sectigo Public Server Authentication Root E46,O=Sectigo Limited,C=GB
- # Serial Number:42:f2:cc:da:1b:69:37:44:5f:15:fe:75:28:10:b8:f4
- # Subject: CN=Sectigo Public Server Authentication Root E46,O=Sectigo Limited,C=GB

```
# Not Valid After: Wed Mar 21 23:59:59 2046
# Fingerprint (SHA-256):
C9:0F:26:F0:FB:1B:40:18:B2:22:27:51:9B:5C:A2:B5:3E:2C:A5:B3:BE:5C:F1:8E:FE:1B:EF:47:38:0C:53:83
# Fingerprint (SHA1): EC:8A:39:6C:40:F0:2E:BC:42:75:D4:9F:AB:1C:1A:5B:67:BE:D2:9A
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 "Sectigo Public Server Authentication Root E46"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\354\212\071\154\100\360\056\274\102\165\324\237\253\034\032\133
\147\276\322\232
END
CKA_CERT_MD5_HASH
MULTILINE OCTAL
\050\043\370\262\230\134\067\026\073\076\106\023\116\260\263\001
END
CKA ISSUER MULTILINE OCTAL
\label{eq:condition} $$ \060\137\061\013\060\011\006\003\125\004\006\023\002\107\102\061 $$
\030\060\026\006\003\125\004\012\023\017\123\145\143\164\151\147
\157\040\114\151\155\151\164\145\144\061\066\060\064\006\003\125
\\ \\004\\ \\003\\ \\023\\ \\055\\ \\123\\ \\145\\ \\143\\ \\164\\ \\151\\ \\147\\ \\157\\ \\040\\ \\120\\ \\165\\ \\142\\ \\154
\151\143\040\123\145\162\166\145\162\040\101\165\164\150\145\156
\164\151\143\141\164\151\157\156\040\122\157\157\164\040\105\064
\066
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\102\362\314\332\033\151\067\104\137\025\376\165\050\020
\270\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 "Sectigo Public Server Authentication Root R46"
# Issuer: CN=Sectigo Public Server Authentication Root R46,O=Sectigo Limited,C=GB
# Serial
Number:75:8d:fd:8b:ae:7c:07:00:fa:a9:25:a7:e1:c7:ad:14
# Subject: CN=Sectigo Public Server Authentication Root R46,O=Sectigo Limited,C=GB
# Not Valid Before: Mon Mar 22 00:00:00 2021
# Not Valid After: Wed Mar 21 23:59:59 2046
# Fingerprint (SHA-256):
7B:B6:47:A6:2A:EE:AC:88:BF:25:7A:A5:22:D0:1F:FE:A3:95:E0:AB:45:C7:3F:93:F6:56:54:EC:38:F2:5A:06
# Fingerprint (SHA1): AD:98:F9:F3:E4:7D:75:3B:65:D4:82:B3:A4:52:17:BB:6E:F5:E4:38
```

Not Valid Before: Mon Mar 22 00:00:00 2021

CKA CLASS CK OBJECT CLASS CKO CERTIFICATE

CKA TOKEN CK BBOOL CK TRUE

CKA PRIVATE CK BBOOL CK FALSE

CKA MODIFIABLE CK BBOOL CK FALSE

CKA LABEL UTF8 "Sectigo Public Server Authentication Root R46"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA SUBJECT MULTILINE OCTAL

 $\label{eq:condition} $$ \000137061\013\060\011\006\003\125\004\006\023\002\107\102\061 $$ \030\060\026\006\003\125\004\012\023\017\123\145\143\164\151\147 $$ \157\040\120\165\142\155 $$ \004\003\023\055\123\145\143\164\151\147\157\040\120\165\142\154 $$ \151\143\040\123\145\162\166\145\162\040\101\165\164\150\145\156 $$ \164\151\143\141\164\151\157\156\040\122\157\157\164\040\122\064 $$ \066$$

END

CKA ID

UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

 $\label{eq:condition} $$ \000\13\006\003\125\004\006\023\002\107\102\061\030\060\026\006\003\125\004\012\023\017\123\145\143\164\151\147\157\040\120\165\142\151\143\145\143\164\151\143\164\151\143\164\151\143\164\151\143\164\151\157\156\040\122\157\157\164\040\122\064\066$

END

CKA SERIAL NUMBER MULTILINE OCTAL

\002\020\165\215\375\213\256\174\007\000\372\251\045\247\341\307\255\024

END

CKA_VALUE MULTILINE_OCTAL

\060\202\005\212\060\202\003\162\240\003\002\001\002\002\020\165 \215\375\213\256\174\007\000\372\251\045\247\341\307\255\024\060 \015\006\011\052\206\110\206\367\015\001\001\001\014\005\000\060\137 \061\013\060\011\006\003\125\004\006\023\002\107\102\061\030\060 \026\006\003\125\004\012\023\017\123\145\143\164\151\147\157\040 \114\151\155\151\164\145\144\061\066\060\064\006\003\125\004\003 \023\055\123\145\143\164\151\147\157\040\120\165\142\154\151\143 $\label{eq:condition} $$ \040\123\145\162\166\145\162\040\101\165\164\150\145\156\164\151$ \143\141\164\151\157\156\040\122\157\157\164\040\122\064\066\060 \036\027\015\062\061\060\063\062\062\060\060\060\060\060\060\060\132 \027\015\064\066\060\063\062\061\062\063\065\071\065\071\132\060 \137\061\013\060\011\006\003\125\004\006\023\002\107\102\061\030 \060\026\006\003\125\004\012\023\017\123\145\143\164\151\147\157 \040\114\151\155\151\164\145\144\061\066\060\064\006\003\125\004 \003\023\055\123\145\143\164\151\147\157\040\120\165\142\154\151 \143\040\123\145\162\166\145\162\040\101\165\164\150\145\156\164 \151\143\141\164\151\157\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\223\276\325\066\122\165\330\001\043\240\034\107\102\111\356 \143\266\267\041\375\304\225\325\110\053\046\174\024\123\020\332 \171\375\053\267\055\244\324\054\372\352\062\335\111\302\271\275 $\label{eq:condition} $$ \017\110\075\173\132\230\124\257\236\135\061\164\117\007\374\120 $$$ \041\335\244\317\150\117\033\022\143\155\045\231\114\052\231\363 \110\060\141\372\201\174\036\247\010\112\334\076\053\034\037\030 \114\161\252\065\214\255\370\156\350\073\112\331\345\224\002\326 \211\204\023\252\155\310\117\063\314\120\226\067\222\063\334\137 \210\347\237\124\331\110\360\230\103\326\146\375\237\027\070\103 \305\001\121\013\327\343\043\017\024\135\133\024\347\113\276\335 \364\310\332\003\067\321\326\071\241\041\121\060\203\260\155\327 $\label{eq:condition} $$ \060\116\226\133\221\360\160\044\253\277\105\201\144\103\015\275$$ $\\ \\041\\072\\057\\074\\351\\236\\015\\313\\040\\265\\102\\047\\314\\332\\157\\233$ \356\144\060\220\071\315\223\145\201\041\061\265\043\120\063\067 $\\ \langle 042 \rangle 343 \rangle 070 \rangle 355 \rangle 370 \rangle 061 \rangle 060 \rangle 314 \rangle 105 \rangle 376 \rangle 142 \rangle 371 \rangle 321 \rangle 135 \rangle 062 \rangle 171 \rangle 126 \rangle 136 \rangle 137 \rangle$ \102\207\337\152\314\126\031\100\115\316\252\273\371\265\166\111 \224\361\047\370\221\245\203\345\006\263\143\016\200\334\340\022 \125\200\246\073\146\264\071\207\055\310\360\320\321\024\351\344 \015\115\016\366\135\127\162\305\073\034\107\126\235\342\325\373 \201\141\214\314\115\200\220\064\133\267\327\024\165\334\330\004 $\label{eq:condition} $$ \frac{110}237\\300\\301\\050\\210\\264\\351\\034\\312\\247\\261\\361\\126\\267\\173$ \111\114\131\345\040\025\250\204\002\051\372\070\224\151\232\111 \006\217\315\037\171\024\027\022\014\203\172\336\037\261\227\356 \371\227\170\050\244\310\104\222\351\175\046\005\246\130\162\233 \171\023\330\021\137\256\305\070\142\064\150\262\206\060\216\370 $\verb|\|220|141|236|062|154|365|007|066|315|242|114|156|354|212|066|355|$ \362\346\231\025\104\160\303\174\274\234\071\300\264\341\153\367 \203\045\043\127\331\022\200\345\111\360\165\017\357\215\353\034 $\verb|233|124|050|264|041|074|374|174|012|377|357|173|153|165|377|213|$ $\label{eq:condition} $$ \035\240\031\005\253\372\370\053\201\102\350\070\272\273\373\252$ \375\075\340\363\312\337\116\227\227\051\355\363\030\126\351\245 \226\254\275\303\220\230\262\340\371\242\324\246\107\103\174\155 \317\002\003\001\000\001\243\102\060\100\060\035\006\003\125\035 \016\004\026\004\024\126\163\130\144\225\371\222\032\260\022\052 \004\142\171\241\100\025\210\041\111\060\016\006\003\125\035\017 \001\001\377\004\004\003\002\001\206\060\017\006\003\125\035\023 $\label{eq:condition} $$ \001\001\377\004\005\060\003\001\001\377\060\015\006\011\052\206 $$$ \110\206\367\015\001\001\014\005\000\003\202\002\001\000\057\134 \231\074\374\006\136\214\224\056\160\352\322\062\061\215\264\360 \121\325\274\012\363\144\237\007\136\325\301\163\150\144\172\242 \271\016\350\371\135\205\055\250\067\105\252\050\364\226\005\120 \140\251\111\176\237\342\231\066\051\023\104\107\152\235\125\040 \074\330\233\361\003\062\272\332\100\241\163\352\203\241\267\104 \246\016\231\001\233\344\274\177\276\023\224\176\312\246\036\166 \200\066\075\204\006\213\063\046\145\155\312\176\236\376\037\214 $\label{eq:condition} $$ 130\070\173\032\203\261\017\274\027\021\273\346\006\314\143\372$

\201\362\201\114\332\013\020\153\241\372\325\050\245\317\006\100 \026\377\173\175\030\136\071\022\244\123\236\176\062\102\020\246 $\\ \\041\\221\\251\\034\\116\\027\\174\\204\\274\\237\\214\\321\\350\\337\\346\\121$ $\label{eq:condition} $$ \271\066\107\077\220\271\307\274\002\334\133\034\117\016\110\301 $$$ \045\203\234\012\077\236\261\003\063\022\032\047\254\367\042\154 $\\ \\ 044\\321\\001\\101\\370\\130\\003\\376\\045\\150\\042\\037\\232\\132\\074\\174$ \154\236\165\110\363\201\361\146\147\156\114\202\300\356\272\127 $\label{eq:condition} $$ \016\030\357\056\232\367\022\330\240\153\351\005\245\241\351\150 $$$ \370\274\114\077\022\036\105\350\122\300\243\277\022\047\171\271 \314\061\074\303\366\072\042\026\003\240\311\217\146\244\133\242 \115\326\201\045\006\351\166\244\000\012\076\313\315\065\233\340 $\label{eq:condition} $$ \341\070\313\140\123\206\050\102\101\034\104\127\350\250\255\253$ \105\343\045\020\274\333\076\145\101\373\033\246\227\017\353\271 $\label{eq:condition} $$ 164\171\371\036\274\035\127\015\107\257\303\057\237\207\106\247 $$$ \353\046\132\017\126\143\265\142\140\156\000\373\343\047\021\042 \347\376\231\217\064\365\271\350\303\221\162\275\330\303\036\271 $\begin{tabular}{ll} $$ \begin{tabular}{ll} $$ \begin{tabular}{ll}$ \361\146\045\103\122\322\160\042\066\315\237\304\034\165\040\255 \143\162\143\006\017\016\047\316\322\152\015\274\265\071\032\351 \321\166\172\321\134\344\347\111\111\055\125\067\150\360\032\072 \230\076\124\027\207\124\351\246\047\120\211\173\040\057\077\377 $\label{eq:condition} $$ \277\241\213\112\107\230\377\053\173\111\076\303\051\106\140\030 $$$ $\label{eq:condition} $$ 102\253\063\051\272\300\051\271\023\211\323\210\212\071\101\073$ \311\375\246\355\037\364\140\143\337\322\055\125\001\213 **END**

CKA NSS MOZILLA CA POLICY

CK BBOOL CK TRUE

CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA NSS EMAIL DISTRUST AFTER CK BBOOL CK FALSE

```
# Trust for "Sectigo Public Server Authentication Root R46"
```

- # Issuer: CN=Sectigo Public Server Authentication Root R46,O=Sectigo Limited,C=GB
- # Serial Number:75:8d:fd:8b:ae:7c:07:00:fa:a9:25:a7:e1:c7:ad:14
- # Subject: CN=Sectigo Public Server Authentication Root R46,O=Sectigo Limited,C=GB
- # Not Valid Before: Mon Mar 22 00:00:00 2021
- # Not Valid After: Wed Mar 21 23:59:59 2046
- # Fingerprint

(SHA-256):

7B:B6:47:A6:2A:EE:AC:88:BF:25:7A:A5:22:D0:1F:FE:A3:95:E0:AB:45:C7:3F:93:F6:56:54:EC:38:F2:5A:06

Fingerprint (SHA1): AD:98:F9:F3:E4:7D:75:3B:65:D4:82:B3:A4:52:17:BB:6E:F5:E4:38

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "Sectigo Public Server Authentication Root R46"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL

\156\365\344\070

```
END
CKA CERT MD5 HASH MULTILINE OCTAL
\label{eq:condition} $$ \062\020\011\122\000\325\176\154\103\337\025\300\261\026\223\345 $$
END
CKA ISSUER MULTILINE OCTAL
\060\137\061\013\060\011\006\003\125\004\006\023\002\107\102\061
\030\060\026\006\003\125\004\012\023\017\123\145\143\164\151\147
\157\040\114\151\155\151\164\145\144\061\066\060\064\006\003\125
\004\003\023\055\123\145\143\164\151\147\157\040\120\165\142\154
\151\143\040\123\145\162\166\145\162\040\101\165\164\150\145\156
\164\151\143\141\164\151\157\156\040\122\157\157\164\040\122\064
\066
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\020\165\215\375\213\256\174\007\000\372\251\045\247\341\307
\255\024
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
{\tt CKA\_TRUST\_STEP\_UP\_APPROVED\ CK\_BBOOL\ CK\_FALSE}
# Certificate "SSL.com TLS RSA Root CA 2022"
# Issuer: CN=SSL.com TLS RSA Root CA 2022,O=SSL Corporation,C=US
# Serial Number:6f:be:da:ad:73:bd:08:40:e2:8b:4d:be:d4:f7:5b:91
# Subject: CN=SSL.com TLS RSA Root CA 2022,O=SSL Corporation,C=US
# Not Valid Before: Thu Aug 25 16:34:22 2022
# Not Valid After: Sun Aug 19 16:34:21 2046
# Fingerprint (SHA-256):
8F:AF:7D:2E:2C:B4:70:9B:B8:E0:B3:36:66:BF:75:A5:DD:45:B5:DE:48:0F:8E:A8:D4:BF:E6:BE:BC:17:F2:ED
# Fingerprint (SHA1): EC:2C:83:40:72:AF:26:95:10:FF:0E:F2:03:EE:31:70:F6:78:9D: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 "SSL.com TLS RSA Root CA 2022"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\116\061\013\060\011\006\003\125\004\006\023\002\125\123\061
```

\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\045\060\043\006\003\125 \004\003\014\034\123\123\114\056\143\157\155\040\124\114\123\040 \122\123\101\040\122\157\157\164\040\103\101\040\062\060\062\062

END

CKA ID UTF8 "0"

CKA ISSUER MULTILINE OCTAL

 $\label{eq:condition} $$ \000116\061\013\060\011\006\003\125\004\006\023\002\125\123\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\045\060\043\006\003\125\004\003\014\034\123\123\114\056\143\157\155\040\124\114\123\040\122\123\101\040\122\157\157\164\040\103\101\040\062\060\062\062\ END$

CKA_SERIAL_NUMBER MULTILINE_OCTAL

\002\020\157\276\332\255\163\275\010\100\342\213\115\276\324\367 \133\221

END

CKA VALUE MULTILINE OCTAL

 $\label{eq:condition} $$ \060\202\005\211\060\202\003\161\240\003\002\001\002\002\002\157$$ \276\332\255\163\275\010\100\342\213\115\276\324\367\133\221\060 \015\006\011\052\206\110\206\367\015\001\001\013\005\000\060\116 \026\006\003\125\004\012\014\017\123\123\114\040\103\157\162\160 \157\162\141\164\151\157\156\061\045\060\043\006\003\125\004\003 $\\ \\014\\\\034\\\\123\\\\1123\\\\114\\\\056\\\\143\\\\157\\\\155\\\\040\\\\124\\\\114\\\\123\\\\040\\\\122\\\\123$ \101\040\122\157\157\164\040\103\101\040\062\060\062\060\036 \027\015\062\062\060\070\062\065\061\066\063\064\062\062\132\027 \061\013\060\011\006\003\125\004\006\023\002\125\123\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\045\060\043\006\003\125\004\003 \014\034\123\123\114\056\143\157\155\040\124\114\123\040\122\123 \101\040\122\157\157\164\040\103\101\040\062\060\062\060\062\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\320 \244\011\162\117\100\210\022\141\076\065\043\236\356\366\164\317 \057\173\130\075\316\074\015\020\050\220\057\227\367\214\110\330 \240\330\045\261\114\260\021\114\027\163\120\320\042\112\143\273 \201\323\051\156\325\265\011\076\046\030\177\262\022\177\223\230 \267\257\360\066\277\362\356\030\236\234\073\122\305\107\031\135 \164\363\144\146\325\135\307\150\264\277\033\034\006\243\274\217 \100\043\266\036\306\204\275\121\304\033\071\301\225\322\051\354 \113\256\173\055\277\071\375\264\142\336\226\173\101\306\234\240 $\label{eq:condition} $$ 340\006\162\373\360\007\227\011\071\201\164\257\367\064\131\021 $$$ \127\012\302\133\301\044\364\061\163\060\202\306\235\272\002\367 \076\174\104\137\203\015\363\361\335\040\151\026\011\120\342\324 \125\266\340\200\162\166\156\114\107\267\165\125\131\264\123\164 \331\224\306\101\255\130\212\061\146\017\036\242\033\051\100\116 \057\337\173\346\026\054\055\374\277\354\363\264\372\276\030\366 \233\111\324\356\005\156\331\064\363\234\361\354\001\213\321\040 \306\017\240\265\274\027\116\110\173\121\302\374\351\134\151\067 \107\146\263\150\370\025\050\360\271\323\244\025\314\132\117\272 \122\160\243\022\105\335\306\272\116\373\302\320\367\250\122\047

\155\156\171\265\214\374\173\214\301\026\114\356\200\177\276\360 \166\276\101\123\022\063\256\132\070\102\253\327\017\076\101\215 $\label{eq:condition} $$ 166\007\062\325\253\211\366\116\147\331\261\102\165\043\156\363$ \315\102\262\374\125\365\123\207\027\073\300\063\130\361\122\322 \371\200\244\360\350\360\073\213\070\314\244\306\220\177\017\234 $\label{eq:condition} $$ 375 \times 213 \times 243 \times 17 \times 32 \times 203 \times 47 \times 151 \times 11 \times 20 \times 66 \times 325 \times 134 \times 005 \times 322 \times 1243 \times 1243$ \012\101\164\333\143\021\067\301\245\240\226\113\036\214\026\022 \167\256\224\064\173\036\177\302\146\000\344\252\203\352\212\220 \255\316\066\104\115\321\121\351\274\037\363\152\005\375\300\164 \037\045\031\100\121\156\352\202\121\100\337\233\271\010\052\006 \002\325\043\034\023\326\351\333\336\260\172\313\173\047\233 $\label{eq:condition} $$ 373\340\325\106\044\355\020\113\143\113\245\005\217\272\270\035$ \053\246\372\221\342\222\122\275\354\353\147\227\155\232\055\237 $\label{eq:condition} $$ \201 \062 \005 \147 \062 \373 \110 \010 \077 \331 \045 \270 \004 \045 \057 \002 \$ $\label{eq:condition} $$ \003\001\000\001\243\143\060\141\060\017\006\003\125\035\023\001 $$$ \001\377\004\005\060\003\001\001\377\060\037\006\003\125\035\043 $\label{eq:condition} $$ \004\030\060\026\200\024\373\056\067\356\343\204\172\047\056\315$$ \031\065\261\063\174\377\324\104\102\271\060\035\006\003\125\035 \016\004\026\004\024\373\056\067\356\343\204\172\047\056\315\031 $\label{eq:condition} $$ \065\261\063\174\377\324\104\102\271\060\016\006\003\125\035\017 $$$ \001\001\377\004\004\003\002\001\206\060\015\006\011\052\206\110 \206\367\015\001\001\013\005\000\003\202\002\001\000\215\211\155 \204\105\030\361\117\263\240\357\150\244\300\035\254\060\274\147 \146\260\232\315\266\253\042\031\146\323\073\101\265\020\235\020 \272\162\156\051\044\040\034\001\231\142\323\226\340\342\373\014 \102\327\341\132\304\226\115\124\315\217\312\103\123\375\052\270 \352\370\145\312\001\302\255\140\150\006\237\071\032\121\331\340 \215\046\371\013\116\245\123\045\172\043\244\034\316\010\033\337 \107\210\262\255\076\340\047\207\213\111\214\037\251\107\130\173 \226\362\210\035\030\256\263\321\246\012\224\372\333\323\345\070 $\label{eq:condition} $$ \012\153\171\022\063\373\112\131\067\026\100\016\273\336\365\211 $$$ \014\361\154\323\367\121\153\136\065\365\333\300\046\352\022\163 \116\251\221\220\246\027\303\154\057\070\324\243\162\224\103\054 \142\341\116\134\062\075\275\114\175\031\107\242\303\111\347\226 \077\217\232\323\073\344\021\330\213\003\334\366\266\140\125\030 \246\201\121\363\341\250\025\152\353\340\013\360\024\061\326\271 \214\105\072\250\020\330\360\271\047\353\367\313\172\357\005\162 $\label{eq:condition} $$ \226\265\304\217\226\163\304\350\126\163\234\274\151\121\143\274$$ $\label{eq:condition} $$ \frac{357}{147} 034 103 032 137 167 031 037 030 370 034 045 051 371 111$ \231\051\266\222\075\242\203\067\261\040\221\250\233\060\351\152 \154\264\043\223\145\004\253\021\363\016\035\123\044\111\123\035 \241\077\235\110\222\021\342\175\015\117\365\327\275\242\130\076 \170\235\036\037\053\376\041\273\032\023\266\261\050\144\375\260 $\label{eq:condition} $$ \002\000\307\154\200\242\275\026\120\040\017\162\201\137\314\224 $$$ \377\273\231\346\272\220\313\352\371\306\014\302\256\305\031\316 \063\241\153\134\273\176\174\064\127\027\255\360\077\256\315\352 \257\231\354\054\124\176\214\316\056\022\126\110\357\027\073\077 \112\136\140\322\334\164\066\274\245\103\143\313\017\133\243\002 $\label{eq:condition} $$ \126\01\236\044\054\341\206\201\214\376\253\027\054\372\310\342\062\032\072\377\205\010\311\203\237\362\112\110\020\124\167\067\355\242\274\100\276\344\020\164\367\344\133\273\271\363\211\371\217\101\330\307\344\120\220\065\200\076\034\270\115\220\323\324\367\303\260\241\176\204\312\167\222\061\054\270\220\261\202\172\164\116\233\023\046\264\325\120\146\124\170\256\140$

END

CKA_NSS_MOZILLA_CA_POLICY

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 TLS RSA Root CA 2022"

Issuer: CN=SSL.com TLS RSA Root CA 2022,O=SSL

Corporation, C=US

Serial Number:6f;be;da;ad;73;bd;08;40;e2;8b;4d;be;d4;f7;5b;91

Subject: CN=SSL.com TLS RSA Root CA 2022,O=SSL Corporation,C=US

Not Valid Before: Thu Aug 25 16:34:22 2022

Not Valid After: Sun Aug 19 16:34:21 2046

Fingerprint (SHA-256):

8F:AF:7D:2E:2C:B4:70:9B:B8:E0:B3:36:66:BF:75:A5:DD:45:B5:DE:48:0F:8E:A8:D4:BF:E6:BE:BC:17:F2:ED

Fingerprint (SHA1): EC:2C:83:40:72:AF:26:95:10:FF:0E:F2:03:EE:31:70:F6:78:9D: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 "SSL.com TLS RSA Root CA 2022"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL

\354\054\203\100\162\257\046\225\020\377\016\362\003\356\061\160 \366\170\235\312

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL

\330\116\306\131\060\330\376\240\326\172\132\054\054\151\170\332

END

CKA_ISSUER MULTILINE_OCTAL

\060\116\061\013\060\011\006\003\125\004\006\023\002\125\123\061

 $\label{eq:condition} $$ \000\0026\006\003\125\004\012\014\017\123\123\114\040\103\157 $$$

 $\label{eq:condition} $$ 162\160\157\162\141\164\151\157\156\061\045\060\043\006\003\125$$

 $\\ \\004\\ \\003\\ \\014\\ \\034\\ \\123\\ \\123\\ \\114\\ \\056\\ \\143\\ \\157\\ \\155\\ \\040\\ \\124\\ \\114\\ \\123\\ \\040$

 $\label{eq:local_$

END

CKA_SERIAL_NUMBER

MULTILINE_OCTAL

\002\020\157\276\332\255\163\275\010\100\342\213\115\276\324\367 \133\221

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 TLS ECC Root CA 2022"

#

- # Issuer: CN=SSL.com TLS ECC Root CA 2022,O=SSL Corporation,C=US
- # Serial Number:14:03:f5:ab:fb:37:8b:17:40:5b:e2:43:b2:a5:d1:c4
- # Subject: CN=SSL.com TLS ECC Root CA 2022,O=SSL Corporation,C=US
- # Not Valid Before: Thu Aug 25 16:33:48 2022
- # Not Valid After: Sun Aug 19 16:33:47 2046
- # Fingerprint (SHA-256):

C3;2F;FD;9F;46;F9;36;D1;6C;36;73;99;09;59;43;4B;9A;D6;0A;AF;BB;9E;7C;F3;36;54;F1;44;CC;1B;A1;43

Fingerprint

(SHA1): 9F:5F:D9:1A:54:6D:F5:0C:71:F0:EE:7A:BD:17:49:98:84:73:E2:39

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 "SSL.com TLS ECC Root CA 2022"

CKA CERTIFICATE TYPE CK CERTIFICATE TYPE CKC X 509

CKA_SUBJECT MULTILINE_OCTAL

 $\label{eq:condition} $$ \060\116\061\013\060\011\006\003\125\004\006\023\002\125\123\061 $$$

\030\060\026\006\003\125\004\012\014\017\123\123\114\040\103\157

\004\003\014\034\123\123\114\056\143\157\155\040\124\114\123\040

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

END

CKA ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

CKA SERIAL NUMBER

MULTILINE OCTAL

\002\020\024\003\365\253\373\067\213\027\100\133\342\103\262\245 \321\304

END

CKA_VALUE MULTILINE_OCTAL

\123\114\056\143\157\155\040\124\114\123\040\105\103\103\040\122 \157\157\164\040\103\101\040\062\060\062\060\036\027\015\062 \062\060\070\062\065\061\066\063\063\064\070\132\027\015\064\066 \060\070\061\071\061\066\063\063\064\067\132\060\116\061\013\060 \011\006\003\125\004\006\023\002\125\123\061\030\060\026\006\003 \164\151\157\156\061\045\060\043\006\003\125\004\003\014\034\123 \157\157\164\040\103\101\040\062\060\062\060\062\060\166\060\020\006 \007\052\206\110\316\075\002\001\006\005\053\201\004\000\042\003 $\label{eq:condition} $$ \frac{142\\000\\004\\105\\051\\065\\163\\372\\302\\270\\043\\316\\024\\175\\250\\261$ \115\240\133\066\356\052\054\123\303\140\011\065\262\044\146\046 \151\300\263\225\326\135\222\100\031\016\306\245\023\160\364\357 $\label{eq:condition} $$ \022\121\050\135\347\314\275\371\074\205\301\317\224\220\311\053$ $\label{eq:condition} $$ \frac{316}{222}102\\130\\131\\147\\375\\224\\047\\020\\144\\214\\117\\004\\261\\115$ \111\344\173\117\233\365\347\010\370\003\210\367\247\303\222\113 $\label{eq:condition} $$ \031\124\201\243\143\060\141\060\017\006\003\125\035\023\001\001 $$$ \377\004\005\060\003\001\001\377\060\037\006\003\125\035\043\004 \030\060\026\200\024\211\217\057\243\350\053\240\024\124\173\363 $\label{eq:condition} $$ \frac{270}046\\137\\147\\070\\013\\234\\320\\060\\035\\006\\003\\125\\035\\016$ \004\026\004\024\211\217\057\243\350\053\240\024\124\173\363\126 \270\046\137\147\070\013\234\320\060\016\006\003\125\035\017\001 $\label{eq:condition} $$ \001\377\004\004\003\002\001\206\060\012\006\010\052\206\110\316$$ \075\004\003\003\003\150\000\060\145\002\060\125\343\042\126\351 \327\222\044\130\117\036\224\062\017\014\002\066\302\375\254\164 \062\116\341\373\034\200\210\243\314\373\327\353\053\377\067\175 \360\355\327\236\165\152\065\166\122\105\340\002\061\000\307\215 \157\102\040\217\276\266\115\131\355\167\115\051\304\040\040\105 \144\206\072\120\306\304\255\055\223\365\030\175\162\355\251\317 \304\254\127\066\050\010\145\337\074\171\146\176\240\352

END

CKA_NSS_MOZILLA_CA_POLICY

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 TLS ECC Root CA 2022"
```

C3:2F:FD:9F:46:F9:36:D1:6C:36:73:99:09:59:43:4B:9A:D6:0A:AF:BB:9E:7C:F3:36:54:F1:44:CC:1B:A1:43

Fingerprint (SHA1): 9F:5F:D9:1A:54:6D:F5:0C:71:F0:EE:7A:BD:17:49:98:84:73:E2:39

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

[#] Issuer: CN=SSL.com TLS ECC Root CA 2022,O=SSL Corporation,C=US

[#] Serial Number:14:03:f5:ab:fb:37:8b:17:40:5b:e2:43:b2:a5:d1:c4

[#] Subject: CN=SSL.com TLS ECC Root CA 2022,O=SSL Corporation,C=US

[#] Not Valid Before: Thu Aug 25 16:33:48 2022

[#] Not Valid After: Sun Aug 19 16:33:47 2046

[#] Fingerprint (SHA-256):

```
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA LABEL UTF8 "SSL.com TLS ECC Root CA 2022"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\237\137\331\032\124\155\365\014\161\360\356\172\275\027\111\230
\204\163\342\071
END
CKA CERT MD5 HASH MULTILINE OCTAL
\231\327\134\361\121\066\314\351\316\331\031\056\167\161\126\305
END
CKA ISSUER MULTILINE OCTAL
\label{eq:condition} $$ \060\116\061\013\060\011\006\003\125\004\006\023\002\125\123\061\
\162\160\157\162\141\164\151\157\156\061\045\060\043\006\003\125
\\ \\004\\ \\003\\ \\014\\ \\034\\ \\123\\ \\123\\ \\114\\ \\056\\ \\143\\ \\157\\ \\155\\ \\040\\ \\124\\ \\114\\ \\123\\ \\040
\105\103\103\040\122\157\157\164\040\103\101\040\062\060\062\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\024\003\365\253\373\067\213\027\100\133\342\103\262\245
\321\304
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 Client ECC Root CA 2022"
# Issuer: CN=SSL.com Client ECC Root CA 2022,O=SSL Corporation,C=US
# Serial Number:76:f8:48:1e:ae:f0:3c:70:1f:e0:3f:25:54:01:83:d5
# Subject: CN=SSL.com Client ECC Root CA 2022,O=SSL Corporation,C=US
# Not Valid Before: Thu Aug 25 16:30:32 2022
# Not Valid After: Sun Aug 19 16:30:31 2046
# Fingerprint (SHA-256):
AD:7D:D5:8D:03:AE:DB:22:A3:0B:50:84:39:49:20:CE:12:23:0C:2D:80:17:AD:9B:81:AB:04:07:9B:DD:02:6B
# Fingerprint (SHA1): 80:7B:1D:9D:65:72:3D:C7:56:F9:EC:C5:00:83:49:F6:F2:AC:F4:86
CKA_CLASS CK_OBJECT_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 Client ECC Root CA 2022"
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\125\123\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\050\060\046\006\003\125
```

\004\003\014\037\123\123\114\056\143\157\155\040\103\154\151\145 \156\164\040\105\103\103\040\122\157\157\164\040\103\101\040\062 \060\062\062

END

CKA ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

 $\label{eq:condition} $$ \020\166\370\110\036\256\360\074\160\037\340\077\045\124\001\203\325$$

END

CKA_VALUE MULTILINE_OCTAL

\060\202\002\100\060\202\001\306\240\003\002\001\002\002\020\166 \370\110\036\256\360\074\160\037\340\077\045\124\001\203\325\060 \012\006\010\052\206\110\316\075\004\003\003\060\121\061\013\060 \011\006\003\125\004\006\023\002\125\123\061\030\060\026\006\003 \164\151\157\156\061\050\060\046\006\003\125\004\003\014\037\123 $\verb| 123| 114| 056| 143| 157| 155| 040| 103| 154| 151| 145| 156| 164| 040| 105| 103|$ \103\040\122\157\157\164\040\103\101\040\062\060\062\060\036 \027\015\062\062\060\070\062\065\061\066\063\060\063\062\132\027 $\label{eq:condition} $$ \0.015\0.064\0.060\0.070\0.061\0.071\0.060\0.063\0.060\0.063\0.061\1.32\0.060\1.21 $$$ \061\013\060\011\006\003\125\004\006\023\002\125\123\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\050\060\046\006\003\125\004\003 \014\037\123\123\114\056\143\157\155\040\103\154\151\145\156\164 \040\105\103\103\040\122\157\157\164\040\103\101\040\062\060\062 \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\055\123\176\237\213\076\263 \066\272\120\342\314\353\334\272\046\212\323\214\006\077\147\017 \357\365\027\345\324\256\232\106\052\101\001\007\151\347\147\161 \361\302\003\066\306\360\053\122\216\317\024\222\150\244\076\160 \121\022\151\215\170\242\202\312\051\024\300\344\224\042\262\104 \222\140\157\310\004\244\147\325\242\320\363\320\327\352\216\074 \017\272\322\100\107\220\064\356\175\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\267\376\055\142\305 \201\123\315\122\032\057\135\140\240\303\135\373\262\034\034\060 $\label{eq:condition} $$ \035\006\003\125\035\016\004\026\004\024\267\376\055\142\305\201 $$$ \123\315\122\032\057\135\140\240\303\135\373\262\034\034\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\150\000\060\145\002 $\label{eq:condition} $$ \00115\007\021\055\021\373\271\046\303\041\335\162\341\027\374\301\317\024\352\111\316\161\207\216\326\123\334\021\315\135\124\212\257\331\055\364\214\121\352\274\146\107\342\177\225\203\140\145\002\061\000\214\041\114\117\273\345\260\120\337\220\142\111\346\314\221\333\370\077\135\161\221\010\216\117\222\311\177\246\134\352\023\176\355\155\304\350\303\052\157\134\021\341\245\363\152\132\232\115$

END

CKA_NSS_MOZILLA_CA_POLICY

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 Client ECC Root CA 2022"

Issuer: CN=SSL.com Client ECC Root CA 2022,O=SSL Corporation,C=US

Serial Number:76:f8:48:1e:ae:f0:3c:70:1f:e0:3f:25:54:01:83:d5

Subject: CN=SSL.com Client ECC Root CA 2022,O=SSL Corporation,C=US

Not Valid Before: Thu Aug 25 16:30:32 2022

Not Valid After: Sun Aug 19 16:30:31 2046

Fingerprint (SHA-256):

AD:7D:D5:8D:03:AE:DB:22:A3:0B:50:84:39:49:20:CE:12:23:0C:2D:80:17:AD:9B:81:AB:04:07:9B:DD:02:6B

Fingerprint (SHA1): 80:7B:1D:9D:65:72:3D:C7:56:F9:EC:C5:00:83:49:F6:F2:AC:F4:86

CKA_CLASS CK_OBJECT_CLASS

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 Client ECC Root CA 2022"

CKA CERT SHA1 HASH MULTILINE OCTAL

\200\173\035\235\145\162\075\307\126\371\354\305\000\203\111\366

\362\254\364\206

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL

\063\271\151\231\022\166\125\274\337\257\101\334\042\213\167\200

END

CKA ISSUER MULTILINE OCTAL

 $\label{eq:condition} $$ \000121\0013\006\0011\006\003\125\004\0006\023\002\125\123\061\030\060\026\006\003\125\004\012\014\017\123\123\114\040\103\157\162\160\165\162\141\164\151\157\156\061\050\060\046\006\003\125\004\003\014\037\123\123\114\056\143\157\155\040\103\154\151\145\156\164\040\105\103\103\040\122\157\157\164\040\103\101\040\062$

 $\verb|060|062|062|$

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

 $\label{eq:condition} $$ \020\166\370\110\036\256\360\074\160\037\340\077\045\124\001 $$$

\203\325

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 "SSL.com Client RSA Root CA 2022" # Issuer: CN=SSL.com Client RSA Root CA 2022,O=SSL Corporation,C=US # Serial Number:76:af:ee:88:93:15:45:b6:50:53:9b:80:9c:a4:df:9a # Subject: CN=SSL.com Client RSA Root CA 2022,O=SSL Corporation,C=US # Not Valid Before: Thu Aug 25 16:31:07 2022 # Not Valid After: Sun Aug 19 16:31:06 2046 # Fingerprint (SHA-256): 1D:4C:A4:A2:AB:21:D0:09:36:59:80:4F:C0:EB:21:75:A6:17:27:9B:56:A2:47:52:45:C9:51:7A:FE:B5:91:53 # Fingerprint (SHA1): AA:59:70:E5:20:32:9F:CB:D0:D5:79:9F:FB:1B:82:1D:FD:1F:79:65 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 "SSL.com Client RSA Root CA 2022" CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509 CKA_SUBJECT MULTILINE_OCTAL

 $\label{eq:condition} $$ \000\121\061\013\060\011\006\003\125\004\006\023\002\125\123\061 $$ \030\060\026\006\003\125\004\012\014\017\123\123\114\040\103\157 $$ \162\160\157\162\141\164\151\157\156\061\050\060\046\006\003\125 $$ \004\003\014\037\123\123\114\056\143\157\155\040\103\154\151\145 $$ \156\164\040\122\123\101\040\122\157\157\164\040\103\101\040\062\062\062$$$

END

CKA_ID

UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

 $\label{eq:condition} $$ \001106\001106\003\125\004\006\023\002\125\123\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\050\060\046\006\003\125\004\003\014\037\123\123\114\056\143\157\155\040\103\154\151\145\156\164\040\122\123\101\040\122\157\157\164\040\103\101\040\062\062\062$

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

\002\020\166\257\356\210\223\025\105\266\120\123\233\200\234\244 \337\232

END

CKA_VALUE MULTILINE_OCTAL

\060\202\005\217\060\202\003\167\240\003\002\001\002\002\020\166 \257\356\210\223\025\105\266\120\123\233\200\234\244\337\232\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\125\123\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\050\060\046\006\003\125\004\003 \014\037\123\123\114\056\143\157\155\040\103\154\151\145\156\164 \040\122\123\101\040\122\157\157\164\040\103\101\040\062\060\062 $\label{eq:condition} $$ \062\060\036\027\015\062\062\060\070\062\065\061\066\063\061\060$ \067\132\027\015\064\066\060\070\061\071\061\066\063\061\060\066 \132\060\121\061\013\060\011\006\003\125\004\006\023\002\125\123 $\label{eq:condition} $$ \0061\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\050\060\046\006\003 $\label{eq:condition} $$ \frac{145\\156\\164\\040\\122\\123\\101\\040\\122\\157\\157\\164\\040\\103\\101\\040$ \062\060\062\060\062\060\202\002\042\060\015\006\011\052\206\110\206 $\label{eq:condition} $$ \367\015\001\001\001\005\000\003\202\002\017\000\060\202\002\012$ $\label{eq:condition} $$ \002\202\001\000\270\130\333\106\060\373\311\077\343\310\360 $$$ \001\063\064\342\332\110\250\030\351\040\156\232\327\001\341\325 \051\217\060\264\043\152\344\313\142\260\276\342\237\040\275\076 \124\240\071\150\307\206\067\146\164\006\006\357\164\053\332\334 \237\204\251\122\057\220\322\356\176\174\373\245\042\255\157\160 $\label{eq:condition} $$ 106\147\226\075\051\324\243\273\126\173\024\004\131\301\041\143$ \104\036\262\037\022\134\220\207\145\015\210\366\036\210\042\342 \143\124\273\363\066\370\326\177\334\332\377\051\065\251\306\156 $\label{eq:condition} $$ \016\151\133\077\330\276\202\207\025\160\135\260\307\134\022\017 $$$ \143\246\070\315\317\163\271\303\016\211\046\067\033\077\142\034 \062\151\321\233\331\377\125\220\061\336\261\143\335\317\305\164 \167\374\357\210\041\123\277\000\061\032\046\054\000\060\245\137 \154\343\344\366\000\212\312\230\207\234\164\003\172\213\146\354 \176\375\243\217\065\045\134\170\245\263\244\373\075\155\251\212 \360\154\210\202\213\375\112\320\157\344\327\243\264\216\064\111 \070\276\316\105\345\322\034\312\136\302\067\024\213\315\146\126 $\\ \begin{tabular}{l} $$ \063\067\235\345\153\354\103\222\144\240\102\332\165\157\300\025\end{tabular}$ \354\371\151\275\064\271\212\173\372\026\373\125\376\122\040\350 \004\004\126\126\145\365\067\104\230\310\212\106\351\267\254\270 \350\276\142\216\124\066\133\367\073\160\277\135\356\055\272\137 \336\102\031\206\360\177\213\353\010\313\330\276\352\016\102\102 \240\066\163\127\027\355\062\352\320\215\350\007\033\233\231\350 \304\232\142\004\016\110\367\074\022\272\367\130\301\232\214\351 $\label{eq:condition} $$ 307 \times 60 \times 306 \times 126 \times 64 \times 35 \times 154 \times 32 \times 272 \times 007 \times 204 \times 35 \times 375 \times 321 \times 154 \times 156 \times 156$ \254\237\346\302\211\357\303\271\154\030\263\151\207\127\137\265 $\label{eq:condition} $$ \014\070\133\247\044\052\073\247\064\221\236\264\124\352\050 $$$ \117\323\301\243\213\344\346\053\325\362\235\277\233\141\000\042 \335\326\113\104\037\077\135\126\376\336\234\170\314\231\133\252 \344\275\272\333\103\113\255\114\046\114\243\115\064\212\154\164 \066\023\333\142\374\233\262\005\201\377\256\077\014\315\366\033 \242\364\071\347\312\365\114\134\373\124\167\065\200\132\300\022 \241\023\001\063\147\075\235\201\241\251\365\205\044\130\210\170 \347\364\343\150\125\002\003\001\000\001\243\143\060\141\060\017 $\label{eq:condition} $$ \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\360\070\102\224 \064\251\074\000\177\122\356\071\245\367\113\015\274\152\175\043 $\label{eq:condition} $$ \000\03125\035\016\004\026\004\024\360\070\102\224\064$ $\verb|251|074|000|177|122|356|071|245|367|113|015|274|152|175|043|060|$ \016\006\003\125\035\017\001\001\377\004\004\003\002\001\206\060 $\label{eq:condition} $$ \0.015\0.06\0.01\0.05\0.00\0.003\0.001\0.01\0.01\0.005\0.000\0.003\0.000 $$$ \002\001\000\231\117\333\360\352\326\021\372\052\375\310\253\155 $\label{eq:condition} $\344\016\163\142\322\102\237\025\376\174\160\122\077\144\207\202$ $\label{eq:condition} $$ \061\077\105\100\056\341\042\237\006\146\051\374\226\323\055\215$$ \266\070\307\331\363\047\301\131\051\240\214\366\163\044\017\050 $\\ \langle 042 \rangle 327 \rangle 116 \rangle 141 \rangle 335 \rangle 023 \rangle 335 \rangle 333 \rangle 237 \rangle 062 \rangle 122 \rangle 223 \rangle 373 \rangle 117 \rangle 314 \rangle 352 \rangle 327 \rangle 127 \rangle$ $\label{eq:condition} $$ \070\074\230\152\003\253\026\257\041\321\102\256\175\105\053\352$ \304\317\212\131\237\202\160\166\072\370\142\046\311\020\227\130 $\label{eq:condition} $$ 100\044\244\055\271\057\051\200\047\341\211\153\162\312\111\010 $$$ \161\067\123\005\361\200\316\323\102\002\322\374\302\321\224\006 \356\007\342\366\203\342\177\237\347\273\126\303\133\277\335\225 \223\011\036\044\301\317\046\315\255\244\256\302\264\151\347\252 \265\355\067\224\351\335\321\143\205\153\232\172\112\126\166\334 \031\205\050\324\344\306\244\330\270\226\101\167\320\264\131\361 \106\005\207\207\002\037\151\271\202\030\320\103\331\046\332\032 \147\250\326\165\166\352\362\155\016\102\377\210\046\242\156\204 \376\176\142\033\360\306\075\355\300\034\152\307\221\326\270\000 $\label{eq:condition} $$ \067\111\233\271\204\005\241\315\156\061\326\104\352\123\213\272$ \123\230\035\241\220\212\351\205\370\033\362\223\130\303\310\334 $\label{eq:condition} $$ \232\046\117\076\040\317\117\103\363\020\214\177\020\141\172\066$$ \312\252\013\175\314\237\107\104\131\256\245\225\306\231\123\343 \007\153\075\111\020\260\030\377\135\016\205\103\024\113\347\153 \323\112\265\262\140\141\334\151\111\002\043\135\350\222\161\303 \234\237\105\147\171\036\334\062\206\272\252\125\074\144\157\062 \265\020\100\025\336\162\100\170\340\156\160\273\156\353\011\350 $\label{eq:condition} $$ \071\331\254\272\222\165\335\103\312\272\001\225\255\032\201\053$ \072\360\343\305\057\014\030\115\020\306\256\300\355\376\005\122 \076\277\344\326\263\331\010\303\075\325\063\062\201\044\305\251 \341\145\021\270\062\063\060\161\030\111\035\032\105\306\232\024 \212\130\071\050\156\363\313\121\271\111\046\144\170\003\307\221 \021\203\251\271\220\064\266\157\252\005\236\205\050\127\231\276 $\label{eq:condition} $$ \frac{177}047\\006\\111\\142\\115\\241\\374\\011\\341\\053\\106\\011\\114\\024\\233$ \126\217\105

END

CKA_NSS_MOZILLA_CA_POLICY
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 Client RSA Root CA 2022"

[#] Issuer: CN=SSL.com Client RSA Root CA 2022,O=SSL Corporation,C=US

[#] Serial Number:76:af:ee:88:93:15:45:b6:50:53:9b:80:9c:a4:df:9a

```
# Subject: CN=SSL.com Client RSA Root CA 2022,O=SSL Corporation,C=US
# Not Valid Before: Thu Aug 25 16:31:07 2022
# Not Valid
After: Sun Aug 19 16:31:06 2046
# Fingerprint (SHA-256):
1D:4C:A4:A2:AB:21:D0:09:36:59:80:4F:C0:EB:21:75:A6:17:27:9B:56:A2:47:52:45:C9:51:7A:FE:B5:91:53
# Fingerprint (SHA1): AA:59:70:E5:20:32:9F:CB:D0:D5:79:9F:FB:1B:82:1D:FD:1F:79:65
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 "SSL.com Client RSA Root CA 2022"
CKA CERT SHA1 HASH MULTILINE OCTAL
\252\131\160\345\040\062\237\313\320\325\171\237\373\033\202\035
\375\037\171\145
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\011\215\322\312\256\154\024\276\276\014\224\157\067\027\040\316
END
CKA_ISSUER MULTILINE_OCTAL
\060\121\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\004\003\014\037\123\123\114\056\143\157\155\040\103\154\151\145
\156\164\040\122\123\101\040\122\157\157\164\040\103\101\040\062
\060\062\062
END
CKA_SERIAL_NUMBER
MULTILINE OCTAL
\002\020\166\257\356\210\223\025\105\266\120\123\233\200\234\244
\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 "Atos TrustedRoot Root CA ECC G2 2020"
#
# Issuer: CN=Atos TrustedRoot Root CA ECC G2 2020,O=Atos,C=DE
# Serial Number:0b:73:28:11:18:74:30:1c:ef:6f:08:84
# Subject: CN=Atos TrustedRoot Root CA ECC G2 2020,O=Atos,C=DE
# Not Valid Before: Tue Dec 15 08:39:10 2020
# Not Valid After: Mon Dec 10 08:39:09 2040
# Fingerprint (SHA-256):
E3:86:55:F4:B0:19:0C:84:D3:B3:89:3D:84:0A:68:7E:19:0A:25:6D:98:05:2F:15:9E:6D:4A:39:F5:89:A6:EB
# Fingerprint (SHA1): 61:25:56:DA:62:94:E5:AE:B3:3C:F8:11:BD:B1:DC:F8:A5:D8:B3: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 "Atos TrustedRoot Root CA ECC G2 2020"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509 CKA SUBJECT MULTILINE OCTAL

 $\label{eq:continuous} $$ \000\13\006\003\125\004\0003\125\004\0003\125\004\0003\125\004\001\101\164\157\163\061\055\006\0053\006\003\125\0004\003\014\0044\101\164\157\163\040\124\162\165\163\164\145\144\122\157\157\164\0040\122\157\157\164\0040\103\103\0040\107\062\0040\062\060\062\060\END$

CKA ID UTF8 "0"

CKA ISSUER MULTILINE OCTAL

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL \002\014\013\163\050\021\030\164\060\034\357\157\010\204 END

CKA VALUE MULTILINE OCTAL

\060\202\002\061\060\202\001\266\240\003\002\001\002\002\014\013 $\label{eq:condition} $$ 163\050\021\030\164\060\034\357\157\010\204\060\012\006\010\052$$ \206\110\316\075\004\003\003\060\113\061\013\060\011\006\003\125 \004\006\023\002\104\105\061\015\060\013\006\003\125\004\012\014 $\\ \\004\\101\\164\\157\\163\\061\\055\\060\\053\\006\\003\\125\\004\\003\\014\\044$ \101\164\157\163\040\124\162\165\163\164\145\144\122\157\157\164 \040\122\157\157\164\040\103\101\040\105\103\103\040\107\062\040 \062\060\062\060\060\036\027\015\062\060\061\062\061\065\060\070 \063\071\061\060\132\027\015\064\060\061\062\061\060\060\070\063 \071\060\071\132\060\113\061\013\060\011\006\003\125\004\006\023 \002\104\105\061\015\060\013\006\003\125\004\012\014\004\101\164 \157\163\061\055\060\053\006\003\125\004\003\014\044\101\164\157 $\label{eq:condition} $$ 163\040\124\162\165\163\164\145\144\122\157\157\164\040\122\157$ \157\164\040\103\101\040\105\103\103\040\107\062\040\062\060\062 \060\060\166\060\020\006\007\052\206\110\316\075\002\001\006\005 $\label{eq:condition} $$ \053\201\004\000\042\003\142\000\004\310\134\200\312\116\302\050 $$$ \037\127\277\070\346\141\043\374\320\251\133\226\026\026\303\014 \136\025\245\220\011\377\070\050\264\172\036\012\326\123\052\301 \273\220\100\164\067\351\201\350\215\057\150\001\065\174\122\056 \330\364\130\263\021\034\133\331\207\030\223\221\055\354\235\332 \154\236\155\204\110\374\302\211\005\353\230\023\002\001\154\123 \036\016\111\143\130\107\261\257\302\243\143\060\141\060\017\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 "Atos TrustedRoot Root CA ECC G2 2020"
- # Issuer: CN=Atos TrustedRoot Root CA ECC G2 2020,O=Atos,C=DE
- # Serial Number:0b:73:28:11:18:74:30:1c:ef:6f:08:84
- # Subject: CN=Atos TrustedRoot Root CA ECC G2 2020,O=Atos,C=DE
- # Not Valid Before: Tue Dec 15 08:39:10 2020
- # Not Valid After: Mon Dec 10 08:39:09 2040
- # Fingerprint (SHA-256):

E3:86:55:F4:B0:19:0C:84:D3:B3:89:3D:84:0A:68:7E:19:0A:25:6D:98:05:2F:15:9E:6D:4A:39:F5:89:A6:EB

Fingerprint (SHA1): 61:25:56:DA:62:94:E5:AE:B3:3C:F8:11:BD:B1:DC:F8:A5:D8:B3: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 "Atos TrustedRoot Root CA ECC G2 2020"

CKA CERT SHA1 HASH MULTILINE OCTAL

\141\045\126\332\142\224\345\256\263\074\370\021\275\261\334\370\245\330\263\344

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL

\225\320\233\116\332\275\252\035\225\265\242\302\135\337\210\214

END

CKA_ISSUER MULTILINE_OCTAL

```
CKA SERIAL NUMBER MULTILINE OCTAL
\002\014\013\163\050\021\030\164\060\034\357\157\010\204
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 "Atos TrustedRoot
Root CA RSA G2 2020"
# Issuer: CN=Atos TrustedRoot Root CA RSA G2 2020,O=Atos,C=DE
# Serial Number:47:ba:29:46:55:3e:16:92:97:b0:ab:40
# Subject: CN=Atos TrustedRoot Root CA RSA G2 2020,O=Atos,C=DE
# Not Valid Before: Tue Dec 15 08:41:23 2020
# Not Valid After: Mon Dec 10 08:41:22 2040
# Fingerprint (SHA-256):
78:83:3A:78:3B:B2:98:6C:25:4B:93:70:D3:C2:0E:5E:BA:8F:A7:84:0C:BF:63:FE:17:29:7A:0B:01:19:68:5E
# Fingerprint (SHA1): 32:D1:27:FA:93:B1:C1:4C:99:E2:4A:40:BC:7F:94:41:1B:5A:AC: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 "Atos TrustedRoot Root CA RSA G2 2020"
CKA CERTIFICATE TYPE CK CERTIFICATE TYPE CKC X 509
CKA_SUBJECT MULTILINE_OCTAL
\060\113\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\015\060\013\006\003\125\004\012\014\004\101\164\157\163\061\055
\label{eq:condition} $$ \006\003\125\004\003\014\044\101\164\157\163\040\124\162 $$
\165\163\164\145\144\122\157\157\164\040\122\157\157\164\040\103
\101\040\122\123\101\040\107\062\040\062\060\062\060
END
CKA ID
UTF8 "0"
CKA ISSUER MULTILINE OCTAL
\060\113\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\060\053\006\003\125\004\003\014\044\101\164\157\163\040\124\162
\165\163\164\145\144\122\157\157\164\040\122\157\157\164\040\103
\101\040\122\123\101\040\107\062\040\062\060\062\060
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\014\107\272\051\106\125\076\026\222\227\260\253\100
END
CKA_VALUE MULTILINE_OCTAL
```

END

\060\202\005\177\060\202\003\147\240\003\002\001\002\002\014\107

\272\051\106\125\076\026\222\227\260\253\100\060\015\006\011\052 \206\110\206\367\015\001\001\014\005\000\060\113\061\013\060\011 \006\003\125\004\006\023\002\104\105\061\015\060\013\006\003\125 \004\012\014\004\101\164\157\163\061\055\060\053\006\003\125\004 \003\014\044\101\164\157\163\040\124\162\165\163\164\145\144\122 $\label{eq:local_$ \107\062\040\062\060\062\060\060\036\027\015\062\060\061\062\061 \065\060\070\064\061\062\063\132\027\015\064\060\061\062\061\060 $\label{eq:condition} $$ \060\070\064\061\062\062\132\060\113\061\013\060\011\006\003\125$$ \004\006\023\002\104\105\061\015\060\013\006\003\125\004\012\014 \004\101\164\157\163\061\055\060\053\006\003\125\004\003\014\044 \040\122\157\157\164\040\103\101\040\122\123\101\040\107\062\040 $\label{eq:condition} $$ \062\060\062\060\0202\002\042\060\015\006\011\052\206\110\206$ $\label{eq:condition} $$ 367 \times 0.001 \times 0.001 \times 0.000 \times 0.003 \times 0.000 \times 0.000$ \002\202\002\001\000\226\061\205\112\252\017\062\376\171\341\103 $\label{eq:condition} $$ \207\234\373\043\267\216\177\015\124\275\307\142\223\167\344\034$$ \065\004\166\243\003\213\042\356\304\204\335\245\223\156\156\262 \216\011\003\353\121\026\061\027\252\151\025\030\016\147\164\043 $\label{eq:condition} $$ \frac{352}232\frac{175}265\sqrt{071}\sqrt{076}\sqrt{075}202\frac{251}{153}\sqrt{341}\sqrt{376}251\sqrt{034}260$$ \255\132\115\114\170\203\101\213\317\362\035\142\232\230\004\234 \143\351\253\145\376\110\035\044\145\007\107\076\271\221\056\351 \235\233\177\032\065\251\064\260\267\345\160\063\357\112\162\121 \266\007\277\140\077\052\237\235\124\337\363\327\224\111\121\003 \132\100\251\150\335\021\131\134\370\166\246\274\120\122\020\355 \254\354\225\340\324\203\153\111\332\012\117\231\203\336\062\203 \110\203\147\225\262\176\347\201\205\075\315\202\367\312\002\355 $\label{eq:condition} $$ \frac{155}{210}135 \frac{010}{215}\frac{270}{065}\frac{277}{052}\frac{151}{060}\frac{231}{273}\frac{113}{321}\frac{101}{101} $$$ \333\105\240\223\231\121\201\220\066\010\252\212\266\350\217\263 \313\356\345\106\015\162\165\365\111\154\341\242\177\057\274\355 \204\246\067\356\336\302\117\071\116\366\236\360\311\321\233\060 \235\111\155\341\332\377\022\020\214\326\345\231\173\005\266\175 \260\011\307\244\370\262\034\071\225\071\063\364\065\316\045\142 \173\260\137\040\363\313\155\370\154\122\024\144\104\217\323\310 \251\166\007\345\257\161\231\055\055\004\045\110\166\257\303\347 \314\103\362\007\274\112\044\044\067\335\372\156\224\011\157\114 \136\001\264\376\124\354\043\226\245\136\335\206\377\351\106\052 \361\350\334\354\245\075\257\157\252\016\017\264\165\372\076\010 \271\046\105\117\146\206\114\274\031\270\341\325\065\356\202\204 \310\323\253\022\347\315\163\063\142\167\364\027\313\275\064\166 \052\005\316\225\345\170\171\113\236\260\215\371\074\130\070\221 \352\136\207\070\300\267\102\375\252\114\207\043\255\004\040\261 \176\166\102\332\273\266\026\272\127\310\216\023\372\165\325\010 \114\257\070\221\252\357\217\372\237\111\056\124\174\012\126\261 \172\372\304\116\057\324\243\372\026\212\320\225\345\227\246\377 \303\374\174\016\107\130\363\177\007\173\022\334\127\077\055\343 \241\115\133\122\114\063\207\231\250\011\173\154\176\016\362\317 $\label{eq:condition} $$ 126\102\236\353\005\002\003\001\000\001\243\143\060\141\060\017 $$$

\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\040\045\363\007 \375\247\157\361\226\356\221\020\151\314\232\357\175\310\150\170 $\label{eq:condition} $$ \000\003\125\003\016\004\026\004\024\040\045\363\007\375$$ \247\157\361\226\356\221\020\151\314\232\357\175\310\150\170\060 \015\006\011\052\206\110\206\367\015\001\001\014\005\000\003\202 $\label{eq:condition} $$ \002\001\000\044\053\116\230\362\035\027\355\331\166\046\266\060 $$$ $\label{eq:condition} $$ \063\350\151\105\241\121\113\122\330\172\072\060\266\344\022\352$ \277\237\114\340\004\244\366\065\306\376\241\060\367\123\205\222 \255\124\005\127\137\222\345\052\336\066\047\236\173\023\107\311 $\label{eq:condition} $$ \frac{152}{165}\frac{257}{374}\frac{363}{067}\frac{347}{014}\frac{365}{075}\frac{163}{265}\frac{151}{121}\frac{370}{370} $$$ \275\131\321\272\013\370\272\272\144\047\103\263\174\203\225\212 \347\236\023\226\327\157\112\226\101\111\213\016\040\255\026\306 $\label{eq:condition} $$ 367 \times 46 \times 07 \times 3210 \times 2211 \times 1312 \times 211 \times 1212 \times 2120 \times 257 \times 2011 \times 1212 \times 1212$ \041\106\351\253\230\077\247\210\336\344\313\052\232\165\031\372 $\label{eq:condition} $$ \071\136\011\005\327\003\062\032\270\027\121\010\307\000\100\175$ \364\276\370\014\131\364\151\166\156\323\244\130\133\136\046\163 \344\102\125\006\136\170\100\017\323\070\237\357\046\121\160\164 \221\361\167\142\001\350\331\313\353\241\337\071\062\035\273\153 \375\161\376\353\317\245\346\024\375\000\200\023\306\232\000\110 \260\231\005\351\256\200\110\373\011\077\121\024\265\271\347\140 \060\222\064\130\200\062\131\261\015\377\044\141\017\347\012\102 $\label{eq:condition} $$ 320\173\274\370\216\047\107\077\160\235\047\331\266\006\075\245$$ \273\313\136\217\256\016\123\307\234\152\157\073\114\017\243\100 \160\250\232\007\316\324\156\133\007\242\322\342\124\266\275\157 $\label{eq:condition} $$ \063\162\143\255\121\230\341\217\166\361\152\007\070\045\376\366$$ \142\316\137\333\143\302\156\231\357\006\334\271\336\031\032\350 \124\075\175\322\166\165\331\136\076\062\110\247\214\362\236\162 $\label{eq:condition} $$ \014\370\270\130\270\027\043\245\024\207\165\130\172\000\201\007 $$$ \042\071\152\114\224\240\265\242\333\247\054\301\260\361\243\233 \300\114\367\155\160\352\061\237\361\256\175\076\163\050\331\241 \337\372\223\360\233\260\360\342\315\045\040\165\357\342\175\062 $\label{eq:condition} $$ \005\311\233\166\356\313\275\061\036\371\224\230\113\044\130\126$ \110\300\336\006\114\275\246\064\135\355\026\141\143\163\373\031 \342\372\133\330\227\165\324\155\236\140\071\136\224\213\002\054 \353\231\316\140\052\156\033\214\247\113\274\375\066\346\230\037 $\label{eq:condition} $$ 145\362\177\361\343\217\114\200\106\066\130\266\241\145\313\316$ \034\104\165

END

CKA_NSS_MOZILLA_CA_POLICY

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 Root CA RSA G2 2020"

Issuer: CN=Atos TrustedRoot Root CA RSA G2 2020,O=Atos,C=DE

```
# Subject: CN=Atos TrustedRoot Root CA RSA G2 2020,O=Atos,C=DE
# Not Valid Before: Tue Dec 15 08:41:23 2020
# Not Valid After: Mon Dec 10 08:41:22 2040
# Fingerprint (SHA-256):
78:83:3A:78:3B:B2:98:6C:25:4B:93:70:D3:C2:0E:5E:BA:8F:A7:84:0C:BF:63:FE:17:29:7A:0B:01:19:68:5E
# Fingerprint (SHA1): 32:D1:27:FA:93:B1:C1:4C:99:E2:4A:40:BC:7F:94:41:1B:5A:AC: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 "Atos TrustedRoot Root CA RSA G2 2020"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\label{eq:condition} $$ \062\321\047\372\223\261\301\114\231\342\112\100\274\177\224\101 $$
\033\132\254\244
END
CKA CERT MD5 HASH MULTILINE OCTAL
\333\077\351\043\365\264\214\335\350\263\076\250\265\137\146\066
END
CKA ISSUER MULTILINE OCTAL
\060\113\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\015\060\013\006\003\125\004\012\014\004\101\164\157\163\061\055
\060\053\006\003\125\004\003\014\044\101\164\157\163\040\124\162
\165\163\164\145\144\122\157\157\164\040\122\157\157\164\040\103
\101\040\122\123\101\040\107\062\040\062\060\062\060
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\014\107\272\051\106\125\076\026\222\227\260\253\100
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 "Atos TrustedRoot Root CA ECC TLS 2021"
# Issuer: C=DE,O=Atos,CN=Atos TrustedRoot Root CA ECC TLS 2021
# Serial Number:3d:98:3b:a6:66:3d:90:63:f7:7e:26:57:38:04:ef:00
# Subject: C=DE,O=Atos,CN=Atos TrustedRoot Root CA ECC TLS 2021
# Not Valid Before: Thu Apr 22 09:26:23 2021
# Not Valid After: Wed Apr 17 09:26:22 2041
# Fingerprint (SHA-256):
B2:FA:E5:3E:14:CC:D7:AB:92:12:06:47:01:AE:27:9C:1D:89:88:FA:CB:77:5F:A8:A0:08:91:4E:66:39:88:A8
# Fingerprint (SHA1): 9E:BC:75:10:42:B3:02:F3:81:F4:F7:30:62:D4:8F:C3:A7:51:B2:DD
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
```

Serial Number:47:ba:29:46:55:3e:16:92:97:b0:ab:40

CKA_TOKEN CK_BBOOL CK_TRUE

CKA PRIVATE CK BBOOL CK FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA LABEL UTF8 "Atos TrustedRoot Root CA ECC TLS 2021"

 ${\tt CKA_CERTIFICATE_TYPE\ CK_CERTIFICATE_TYPE\ CKC_X_509}$

CKA SUBJECT MULTILINE OCTAL

END

CKA ID

UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

 $\label{lem:condition} $$ \000\114\061\056\060\054\006\003\125\004\003\014\045\101\164\157\163\040\124\165\163\164\145\144\122\157\157\164\040\122\157\157\164\040\103\101\006\003\103\103\040\124\114\123\040\062\060\062\061\061\015\060\013\006\003\125\004\0012\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\020\075\230\073\246\146\075\220\143\367\176\046\127\070\004 \357\000

END

CKA_VALUE MULTILINE_OCTAL

\060\202\002\025\060\202\001\233\240\003\002\001\002\002\020\075 \230\073\246\146\075\220\143\367\176\046\127\070\004\357\000\060 \012\006\010\052\206\110\316\075\004\003\003\060\114\061\056\060 \054\006\003\125\004\003\014\045\101\164\157\163\040\124\162\165 \040\105\103\103\040\124\114\123\040\062\060\062\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\062\061\060 \064\062\062\060\071\062\066\062\063\132\027\015\064\061\060\064 \061\067\060\071\062\066\062\062\132\060\114\061\056\060\054\006 \003\125\004\003\014\045\101\164\157\163\040\124\162\165\163\164 \145\144\122\157\157\164\040\122\157\157\164\040\103\101\040\105 \003\125\004\012\014\004\101\164\157\163\061\013\060\011\006\003 \125\004\006\023\002\104\105\060\166\060\020\006\007\052\206\110 \316\075\002\001\006\005\053\201\004\000\042\003\142\000\004\226 \206\130\050\067\012\147\320\240\336\044\031\031\341\344\005\007 \037\227\355\350\144\202\271\366\304\161\120\316\212\014\377\327 \265\166\273\241\154\223\154\203\242\150\156\245\331\276\054\210 \225\101\315\135\335\261\312\203\143\203\314\300\276\164\331\340 \235\244\356\112\116\126\340\230\051\101\223\122\020\325\044\070 \002\062\147\361\224\022\157\357\327\305\336\056\375\031\200\243

 $\label{eq:control} $$ 102\060\100\060\017\006\003\125\035\002\001\001\377\060\035\006\003\125\035\016\004\026\004\024\166\050\045\326\175\340\146\232\172\011\262\152\073\216\063\327\066\323\117\242\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\003\150\000\060\145\002\060\133\231\051\363\234\061\266\211\153\154\326\275\167\341\174\347\121\176\270\072\315\243\066\137\174\367\074\167\076\344\120\255\250\347\322\131\014\046\216\060\073\156\010\052\302\247\132\310\002\061\000\231\343\014\347\243\303\257\323\111\056\106\202\043\146\135\311\000\024\022\375\070\364\341\230\153\167\051\172\333\044\317\145\100\277\322\334\214\021\350\364\175\177\040\204\251\102\344\050$

END

CKA_NSS_MOZILLA_CA_POLICY

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

Root CA ECC TLS 2021"

Issuer: C=DE,O=Atos,CN=Atos TrustedRoot Root CA ECC TLS 2021

Serial Number:3d:98:3b:a6:66:3d:90:63:f7:7e:26:57:38:04:ef:00

Subject: C=DE,O=Atos,CN=Atos TrustedRoot Root CA ECC TLS 2021

Not Valid Before: Thu Apr 22 09:26:23 2021

Not Valid After: Wed Apr 17 09:26:22 2041

Fingerprint (SHA-256):

B2:FA:E5:3E:14:CC:D7:AB:92:12:06:47:01:AE:27:9C:1D:89:88:FA:CB:77:5F:A8:A0:08:91:4E:66:39:88:A8

Fingerprint (SHA1): 9E:BC:75:10:42:B3:02:F3:81:F4:F7:30:62:D4:8F:C3:A7:51:B2:DD

CKA CLASS CK OBJECT CLASS 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 Root CA ECC TLS 2021"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL

 $\label{eq:condition} $$\236\274\165\020\102\263\002\363\201\364\367\060\142\324\217\303\247\121\262\335$

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL

 $\label{eq:condition} $$ \026\237\255\361\160\255\171\326\355\051\264\321\305\171\160\250$$

END

CKA_ISSUER MULTILINE_OCTAL

END

CKA_SERIAL_NUMBER

```
\002\020\075\230\073\246\146\075\220\143\367\176\046\127\070\004
\357\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 "Atos TrustedRoot Root CA RSA TLS 2021"
# Issuer: C=DE.O=Atos.CN=Atos TrustedRoot Root CA RSA TLS 2021
# Serial Number:53:d5:cf:e6:19:93:0b:fb:2b:05:12:d8:c2:2a:a2:a4
# Subject: C=DE,O=Atos,CN=Atos TrustedRoot Root CA RSA TLS 2021
# Not Valid Before: Thu Apr 22 09:21:10 2021
# Not Valid After: Wed Apr 17 09:21:09 2041
# Fingerprint (SHA-256):
81:A9:08:8E;A5:9F:B3:64:C5:48:A6:F8:55:59:09:9B:6F:04:05:EF:BF:18:E5:32:4E:C9:F4:57:BA:00:11:2F
Fingerprint (SHA1): 18:52:3B:0D:06:37:E4:D6:3A:DF:23:E4:98:FB:5B:16:FB:86:74:48
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 "Atos TrustedRoot Root CA RSA TLS 2021"
CKA CERTIFICATE TYPE CK CERTIFICATE TYPE CKC X 509
CKA_SUBJECT MULTILINE_OCTAL
\060\114\061\056\060\054\006\003\125\004\003\014\045\101\164\157
\163\040\124\162\165\163\164\145\144\122\157\157\164\040\122\157
\label{eq:condition} $$ \frac{157}{164}040\\103\\101\\040\\122\\123\\101\\040\\124\\114\\123\\040\\062\\060
\062\061\061\015\060\013\006\003\125\004\012\014\004\101\164\157
\163\061\013\060\011\006\003\125\004\006\023\002\104\105
END
CKA ID UTF8 "0"
CKA ISSUER MULTILINE OCTAL
\060\114\061\056\060\054\006\003\125\004\003\014\045\101\164\157
\163\040\124\162\165\163\164\145\144\122\157\157\164\040\122\157
\label{eq:condition} $$ \frac{157}{164}040\\103\\101\\040\\122\\123\\101\\040\\124\\114\\123\\040\\062\\060
\163\061\013\060\011\006\003\125\004\006\023\002\104\105
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\020\123\325\317\346\031\223\013\373\053\005\022\330\302\052
\242\244
END
CKA_VALUE MULTILINE_OCTAL
```

MULTILINE OCTAL

\060\202\005\144\060\202\003\114\240\003\002\001\002\002\020\123 \325\317\346\031\223\013\373\053\005\022\330\302\052\242\244\060 \015\006\011\052\206\110\206\367\015\001\001\014\005\000\060\114 \061\056\060\054\006\003\125\004\003\014\045\101\164\157\163\040 \124\162\165\163\164\145\144\122\157\157\164\040\122\157\157\164 \040\103\101\040\122\123\101\040\124\114\123\040\062\060\062\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\060\064\061\067\060\071\062\061\060\071\132\060\114\061\056 \060\054\006\003\125\004\003\014\045\101\164\157\163\040\124\162 \101\040\122\123\101\040\124\114\123\040\062\060\062\061\061\015 \006\011\052\206\110\206\367\015\001\001\001\005\000\003\202\002 $\label{eq:condition} $$ \0.017\0.00\0.60\2.02\0.012\0.02\2.002\0.01\0.00\2.66\2.00\0.16\3.04\1.71 $$$ \275\005\214\175\260\243\235\115\042\115\313\360\101\227\115\131 \340\321\376\126\214\227\362\327\275\217\154\267\043\217\137\325 \304\330\101\313\362\002\036\161\345\351\366\136\313\010\052\136 \060\362\055\146\307\204\033\144\127\070\235\165\055\126\306\057 \141\357\226\374\040\106\275\353\324\173\077\077\174\107\070\004 $\verb|251|033|252|122|337|023|067|323|025|025|116|275|137|174|257|255|$ \143\307\171\334\010\173\325\240\345\367\133\165\254\200\125\231 \222\141\233\315\052\027\175\333\217\364\265\152\352\027\112\144 \050\146\025\051\154\002\361\153\325\272\243\063\334\132\147\247 \005\342\277\145\266\026\260\020\355\315\120\063\311\160\120\354 $\label{eq:condition} $$ \031\216\260\307\362\164\133\153\104\306\175\226\271\230\010\131 $$$ \146\336\051\001\233\364\052\155\323\025\072\220\152\147\361\264 \153\146\331\041\353\312\331\142\174\106\020\134\336\165\111\147 \236\102\371\376\165\251\243\255\377\166\012\147\100\343\305\367 \215\307\205\232\131\236\142\232\152\355\105\207\230\147\262\325 \112\074\327\264\073\000\015\300\217\037\341\100\304\256\154\041 \334\111\176\176\312\262\215\155\266\277\223\057\241\134\076\217 \312\355\200\216\130\341\333\127\317\205\066\070\262\161\244\011 \214\222\211\010\210\110\361\100\143\030\262\133\214\132\343\303 \323\027\252\253\031\243\054\033\344\325\306\342\146\172\327\202 $\label{eq:condition} $$ \031\246\073\026\054\057\161\207\137\105\236\225\163\223\302\102$ \201\041\023\226\327\235\273\223\150\025\372\235\244\035\214\362 \201\340\130\006\275\311\266\343\366\211\135\211\371\254\104\241 \313\153\372\026\361\307\120\075\044\332\367\303\344\207\325\126 \361\117\220\060\372\105\011\131\332\064\316\340\023\034\004\174 \000\324\233\206\244\100\274\331\334\114\127\176\256\267\063\266 \136\166\341\145\213\146\337\215\312\327\230\257\316\066\230\214 \234\203\231\003\160\363\257\164\355\306\016\066\347\275\354\301 \163\247\224\132\313\222\144\202\246\000\301\160\241\156\054\051 \341\130\127\354\132\174\231\153\045\244\220\072\200\364\040\235 \232\316\307\055\371\262\113\051\225\203\351\065\215\247\111\110

\247\017\114\031\221\320\365\277\020\340\161\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 \164\111\231\321\377\264\172\150\105\165\303\176\264\334\314\316 \071\063\332\010\060\016\006\003\125\035\017\001\001\377\004\004 $\label{eq:condition} $$ \003\002\001\206\060\015\006\011\052\206\110\206\367\015\001\001$ \014\005\000\003\202\002\001\000\043\103\123\044\142\134\155\375 $\label{eq:condition} $$ \076\302\317\125\000\154\305\126\210\271\016\335\072\342\045\015 $$$ \225\112\227\312\200\211\356\052\315\145\370\333\026\340\011\222 \340\030\307\170\230\273\363\354\102\122\373\251\244\202\327\115 $\label{eq:condition} $$ 30\212\374\344\116\375\253\220\304\070\165\062\204\237\377\263$ $\label{eq:condition} $$ \260\053\002\063\066\300\020\220\157\035\234\257\341\151\223\354$$ \243\105\057\024\237\365\114\052\145\103\162\014\367\303\370\225 \213\024\363\205\040\142\335\124\123\335\054\334\030\225\151\117 \203\107\160\100\063\130\167\022\014\242\353\122\061\036\114\311 \250\316\305\357\303\321\255\340\153\003\000\064\046\264\124\041 $\label{eq:condition} $$ \065\227\001\334\137\033\361\174\347\125\372\055\150\167\173\323$ \151\314\323\016\153\272\115\166\104\326\302\025\232\046\354\260 \305\365\273\321\172\164\302\154\315\305\265\136\366\114\346\133 $\label{eq:condition} $$ \05\201\333\263\267\072\227\236\355\317\106\262\120\075\204\140 $$$ \231\161\265\063\265\127\105\346\102\107\165\152\016\260\010\014 \256\275\336\367\273\017\130\075\217\003\061\350\075\202\120\312 $\label{eq:condition} $$ \057\136\014\135\264\227\276\040\064\007\364\304\022\341\356\327 $$$ \260\331\131\055\151\367\061\004\364\362\371\253\371\023\061\370 $\label{eq:condition} $$ \01\167\016\075\102\043\046\314\232\162\147\121\041\172\314\074$$$ \205\250\352\041\152\073\333\132\074\245\064\236\232\300\054\337 \200\234\051\340\337\167\224\321\242\200\102\377\152\114\133\021 $\label{eq:condition} $$ 320\365\315\242\276\256\314\121\134\303\325\124\173\014\256\326$ \271\006\167\200\342\357\007\032\150\314\131\121\255\176\134\147 \153\271\333\342\007\102\133\270\001\005\130\071\115\344\273\230 \243\261\062\354\331\243\326\157\224\043\377\073\267\051\145\346 \007\351\357\266\031\352\347\302\070\035\062\210\220\074\023\053 \156\314\357\253\167\006\064\167\204\117\162\344\201\204\371\271 \164\064\336\166\117\222\052\123\261\045\071\333\074\377\345\076 \246\016\345\153\236\377\333\354\057\164\203\337\216\264\263\251 \336\024\115\377\061\243\105\163\044\372\225\051\314\022\227\004 \242\070\266\215\260\360\067\374\310\041\177\077\263\044\033\075 \213\156\314\115\260\026\015\226\035\203\037\106\300\233\275\103 \231\347\304\226\056\316\137\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 "Atos TrustedRoot Root CA RSA TLS 2021"

Issuer: C=DE,O=Atos,CN=Atos TrustedRoot Root CA RSA TLS 2021

```
# Subject: C=DE,O=Atos,CN=Atos TrustedRoot Root CA RSA TLS 2021
# Not Valid Before: Thu Apr 22 09:21:10 2021
# Not Valid After: Wed Apr 17 09:21:09 2041
# Fingerprint (SHA-256):
81:A9:08:8E:A5:9F:B3:64:C5:48:A6:F8:55:59:09:9B:6F:04:05:EF:BF:18:E5:32:4E:C9:F4:57:BA:00:11:2F
# Fingerprint (SHA1): 18:52:3B:0D:06:37:E4:D6:3A:DF:23:E4:98:FB:5B:16:FB:86:74:48
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 "Atos TrustedRoot Root CA RSA TLS 2021"
CKA CERT SHA1 HASH MULTILINE OCTAL
\label{eq:condition} $$ \000122\073\015\006\067\344\326\072\337\043\344\230\373\133\026$
\373\206\164\110
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\324\323\106\270\232\300\234\166\135\236\072\303\271\231\061\322
END
CKA_ISSUER MULTILINE_OCTAL
\060\114\061\056\060\054\006\003\125\004\003\014\045\101\164\157
\163\040\124\162\165\163\164\145\144\122\157\157\164\040\122\157
\label{eq:condition} $$ \frac{157}{164}040\\103\\101\\040\\122\\123\\101\\040\\124\\114\\123\\040\\062\\060
\062\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\020\123\325\317\346\031\223\013\373\053\005\022\330\302\052
\242\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 "TrustAsia Global Root CA G3"
# Issuer: CN=TrustAsia Global Root CA G3,O="TrustAsia Technologies, Inc.",C=CN
# Serial Number:64:f6:0e:65:77:61:6a:ab:3b:b4:ea:85:84:bb:b1:89:b8:71:93:0f
# Subject: CN=TrustAsia Global Root CA G3,O="TrustAsia Technologies, Inc.",C=CN
# Not Valid Before: Thu May 20 02:10:19 2021
# Not Valid After: Sat May 19 02:10:19
2046
# Fingerprint (SHA-256):
E0:D3:22:6A:EB:11:63:C2:E4:8F:F9:BE:3B:50:B4:C6:43:1B:E7:BB:1E:AC:C5:C3:6B:5D:5E:C5:09:03:9A:08
# Fingerprint (SHA1): 63:CF:B6:C1:27:2B:56:E4:88:8E:1C:23:9A:B6:2E:81:47:24:C3:C7
```

Serial Number:53:d5:cf:e6:19:93:0b:fb:2b:05:12:d8:c2:2a:a2: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 "TrustAsia Global Root CA G3"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA SUBJECT MULTILINE OCTAL

END

CKA ID UTF8 "0"

CKA ISSUER MULTILINE OCTAL

 $\label{eq:condition} $$ \000132\001\006\003\125\004\0006\023\002\103\116\061\045\060\043\006\003\125\004\012\014\034\124\162\165\163\164\101\156\157\154\157\147\151\145\163\054\040\111\156\143\056\061\044\060\042\006\003\125\004\003\014\033\124\162\165\163\164\101\163\151\141\040\107\154\157\142\141\154\040\122\157\157\164\040\103\101\040\107\063$

END

CKA SERIAL NUMBER

MULTILINE_OCTAL

 $\label{eq:condition} $$ \002\024\144\366\016\145\167\141\152\253\073\264\352\205\204\273\261\211\270\161\223\017$

END

CKA VALUE MULTILINE OCTAL

\060\202\005\245\060\202\003\215\240\003\002\001\002\002\002\144 $\label{eq:condition} $$ \366\016\145\167\141\152\253\073\264\352\205\204\273\261\211\270 $$$ \161\223\017\060\015\006\011\052\206\110\206\367\015\001\001\014 \005\000\060\132\061\013\060\011\006\003\125\004\006\023\002\103 \116\061\045\060\043\006\003\125\004\012\014\034\124\162\165\163 \164\101\163\151\141\040\124\145\143\150\156\157\154\157\147\151 \145\163\054\040\111\156\143\056\061\044\060\042\006\003\125\004 \003\014\033\124\162\165\163\164\101\163\151\141\040\107\154\157 \142\141\154\040\122\157\157\164\040\103\101\040\107\063\060\036 $\label{eq:condition} $$ \027\015\062\061\060\065\062\060\060\062\061\060\061\071\132\027 $$$ $\label{eq:condition} $$ \0.015\0.064\0.060\0.065\0.061\0.071\0.060\0.062\0.061\0.061\0.071\1.32\0.060\1.32$ \061\013\060\011\006\003\125\004\006\023\002\103\116\061\045\060 \141\040\124\145\143\150\156\157\154\157\147\151\145\163\054\040 \111\156\143\056\061\044\060\042\006\003\125\004\003\014\033\124 \122\157\157\164\040\103\101\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\300\061\202\141\222

\344\224\033\012\052\145\320\276\006\251\207\073\121\022\352\160 \101\256\342\373\164\352\012\215\271\263\114\334\217\267\023\122 \117\124\030\341\054\163\225\221\305\146\073\152\317\254\143\155 \207\123\360\367\361\071\267\240\103\143\260\304\003\135\127\251 \347\104\316\304\241\203\145\366\120\076\261\176\026\270\072\212 $\label{eq:condition} $$ \002\320\226\037\000\315\005\041\357\006\155\335\041\234\031\103$ \105\241\305\350\200\312\302\255\100\142\027\006\306\252\274\363 \326\346\374\120\176\146\102\037\074\213\246\171\171\206\100\065 \237\040\357\077\353\213\107\037\217\216\305\324\216\266\054\311 \104\004\343\324\103\165\077\325\077\257\034\314\176\106\137\254 \337\144\020\212\357\106\360\220\360\017\055\364\210\013\261\051 \252\257\205\252\111\130\250\277\143\240\070\221\346\263\346\167 \150\304\371\052\031\204\273\016\341\365\257\211\354\245\057\120 $\label{eq:condition} $$ \040\164\036\022\101\163\036\044\331\312\316\054\241\131\065\300 $$$ $\label{eq:condition} $$ \frac{310}{035}\frac{106}{047}\frac{141}{132}\frac{217}{371}\frac{323}{162}\frac{171}{146}\frac{036}{237}\frac{25}{025} $$$ \220\041\055\375\355\213\126\160\003\112\111\076\177\151\061\022 \151\307\036\134\312\172\023\213\350\346\365\140\017\314\223\054 \204\177\361\374\152\374\233\107\235\333\255\210\075\363\166\165 \063\327\113\244\310\213\371\365\103\130\117\313\310\003\124\217 \245\205\170\004\032\363\163\362\327\207\035\101\237\347\330\027 \316\032\234\017\112\374\334\104\150\124\150\342\101\074\376\054 \204\206\067\074\315\077\057\242\333\347\367\124\003\137\131\323 $\label{eq:condition} $$ 367 \ 221 \ 170 \ 307 \ 213 \ 167 \ 152 \ 026 \ 345 \ 111 \ 205 \ 220 \ 105 \ 162 \ 160 \ 057 \ 162 \ 160 \ 162$ \221\135\370\076\145\100\013\031\231\311\046\040\132\150\301\065 \277\117\247\121\361\330\021\053\133\340\232\236\050\073\012\072 \012\037\301\201\345\056\360\246\271\151\245\210\224\346\153\023 \177\321\144\077\075\234\160\106\345\242\205\173\130\204\047\334 \304\200\076\147\232\232\307\232\061\016\060\354\346\027\100\225 \331\105\355\001\226\252\277\014\363\113\321\143\367\023\130\300 \270\363\372\147\335\233\175\155\112\377\062\114\265\045\073\377 $\label{eq:condition} $$ \034\147\017\205\042\131\005\221\221\101\167\201\320\205\114\207 $$$ \020\161\377\236\103\033\256\225\165\055\201\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\100\344\344\362\043\357\070\312\260\256\127\177\362\041 \060\026\064\333\274\222\060\035\006\003\125\035\016\004\026\004 \024\100\344\344\362\043\357\070\312\260\256\127\177\362\041\060 $\label{eq:condition} $$ \026\064\333\274\222\060\016\006\003\125\035\017\001\001\377\004$ $\label{eq:condition} $$ \004\003\002\001\006\060\015\006\011\052\206\110\206\367\015\001 $$$ $\label{eq:condition} $$ \001\014\005\000\003\202\002\001\000\046\073\121\341\115\070\363$ \062\030\264\264\136\341\145\136\304\224\117\324\247\141\243\370 \300\317\063\001\002\351\303\252\065\017\361\224\023\167\167\065 \236\055\126\121\104\156\341\306\056\050\036\377\332\354\107\315 \227\104\027\367\340\114\302\341\174\174\062\172\146\310\132\266 \134\123\105\127\132\105\324\005\231\057\056\043\125\356\143\150 \337\323\033\170\247\022\224\006\000\165\015\162\204\351\056\274 \132\152\325\336\057\131\307\243\354\322\207\146\333\267\124\265 $\\ \\ 044\\ 253\\ 364\\ 103\\ 170\\ 333\\ 113\\ 004\\ 304\\ 157\\ 335\\ 346\\ 076\\ 146\\ 076\\ 051$

\362\113\150\161\042\207\240\370\261\063\143\166\343\015\205\162 \104\042\125\077\034\174\351\374\270\025\350\122\372\252\076\243 $\label{eq:condition} $$ \041\071\065\164\211\246\152\302\071\372\170\317\266\254\347\347 $$$ \326\126\377\043\222\056\120\013\251\265\007\063\364\070\137\244 \111\246\313\145\160\166\350\012\205\200\113\066\075\063\367\225 $\label{eq:condition} $$ 124\165\045\332\254\304\163\202\145\351\122\365\134\375\070\225$ \002\152\151\060\305\034\012\127\007\256\042\244\054\371\305\101 \267\270\354\237\117\110\000\371\001\004\125\314\254\371\062\061 \304\165\225\006\240\177\321\215\047\335\263\251\244\162\207\376 \131\213\232\172\164\026\335\026\245\142\051\353\072\226\334\213 \247\150\131\323\353\167\221\071\370\327\313\331\217\137\132\047 $\label{eq:condition} $$ \001\175\135\150\031\142\330\310\315\364\267\162\107\276\133\227 $$$ \316\362\255\242\231\223\255\224\313\223\366\022\011\225\266\253 $\label{eq:condition} $$ 327\073\320\077\021\313\060\026\056\171\200\344\147\201\055\135$$ \355\160\170\266\140\131\254\341\135\105\143\217\310\337\162\150 \133\352\035\270\001\361\176\373\347\212\263\343\124\240\070\011 \340\074\336\102\362\302\355\056\233\363\037\065\266\066\330\343 \200\241\213\315\231\144\017\302\252\253\261\312\365\157\236\103 \215\204\124\231\263\156\300\022\146\330\160\020\361\006\065\063 $\label{eq:condition} $$ 103\250\234\056\272\024\061\316\020\177\034\206\343\217\322\325 $$$ \370\167\354\233\253\361\057\143\331\102\137\340\147\201\144\221 \361\227\057\374\156\046\366\063\370\323\265\370\304\142\253\061 \121\045\002\172\370\335\153\145\325\155\115\060\310\145\272\150 \024\145\254\047\013\164\212\362\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 "TrustAsia Global Root CA G3"
```

- # Issuer: CN=TrustAsia Global Root CA G3,O="TrustAsia Technologies, Inc.",C=CN
- # Serial Number:64:f6:0e:65:77:61:6a:ab:3b:b4:ea:85:84:bb:b1:89:b8:71:93:0f
- # Subject: CN=TrustAsia Global Root CA G3,O="TrustAsia Technologies, Inc.",C=CN
- # Not Valid Before: Thu May 20 02:10:19 2021
- # Not Valid After: Sat May 19 02:10:19 2046
- # Fingerprint (SHA-256):

E0:D3:22:6A:EB:11:63:C2:E4:8F:F9:BE:3B:50:B4:C6:43:1B:E7:BB:1E:AC:C5:C3:6B:5D:5E:C5:09:03:9A:08

Fingerprint (SHA1): 63:CF:B6:C1:27:2B:56:E4:88:8E:1C:23:9A:B6:2E:81:47:24:C3:C7

 CKA_CLASS

CK_OBJECT_CLASS CKO_NSS_TRUST

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "TrustAsia Global Root CA G3"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL

 $\label{eq:condition} $$ 143\317\266\301\047\053\126\344\210\216\034\043\232\266\056\201 $$$

\107\044\303\307

```
END
CKA CERT MD5 HASH MULTILINE OCTAL
\060\102\033\267\273\201\165\065\344\026\117\123\322\224\336\004
END
CKA ISSUER MULTILINE OCTAL
\060\132\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\045\060\043\006\003\125\004\012\014\034\124\162\165\163\164\101
\label{eq:local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_
\054\040\111\156\143\056\061\044\060\042\006\003\125\004\003\014
\033\124\162\165\163\164\101\163\151\141\040\107\154\157\142\141
\154\040\122\157\157\164\040\103\101\040\107\063
END
CKA SERIAL NUMBER MULTILINE OCTAL
\002\024\144\366\016\145\167\141\152\253\073\264\352\205\204\273
\261\211\270\161\223\017
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_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 "TrustAsia Global Root CA G4"
# Issuer: CN=TrustAsia Global Root CA G4,O="TrustAsia Technologies, Inc.",C=CN
# Serial Number:4f:23:64:b8:8e:97:63:9e:c6:53:81:c1:76:4e:cb:2a:74:15:d6:d7
# Subject: CN=TrustAsia Global Root CA G4,O="TrustAsia Technologies, Inc.",C=CN
# Not Valid Before: Thu May 20 02:10:22 2021
# Not Valid After: Sat May 19 02:10:22 2046
# Fingerprint (SHA-256):
BE:4B:56:CB:50:56:C0:13:6A:52:6D:F4:44:50:8D:AA:36:A0:B5:4F:42:E4:AC:38:F7:2A:F4:70:E4:79:65:4C
# Fingerprint (SHA1): 57:73:A5:61:5D:80:B2:E6:AC:38:82:FC:68:07:31:AC:9F:B5:92:5A
CKA CLASS CK OBJECT CLASS CKO CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA MODIFIABLE CK BBOOL CK FALSE
CKA_LABEL UTF8 "TrustAsia Global Root CA G4"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\132\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\\ \\045\\ \\060\\ \\043\\ \\006\\ \\003\\ \\125\\ \\004\\ \\012\\ \\014\\ \\034\\ \\124\\ \\162\\ \\165\\ \\163\\ \\164\\ \\101
\163\151\141\040\124\145\143\150\156\157\154\157\147\151\145\163
\054\040\111\156\143\056\061\044\060\042\006\003\125\004\003\014
\033\124\162\165\163\164\101\163\151\141\040\107\154\157\142\141
```

 $\label{eq:condition} $$ 154\040\122\157\157\164\040\103\101\040\107\064$$

END CKA_ID

UTF8 "0"

CKA ISSUER MULTILINE OCTAL

 $\label{lem:condition} $$ \000132\001\006\003\125\004\0006\023\002\103\116\061\045\000\043\0006\003\125\004\012\014\034\124\162\165\163\164\101\156\157\154\157\147\151\145\163\054\040\111\156\143\056\061\044\060\042\006\003\125\004\003\014\033\124\162\165\163\164\101\163\151\141\040\107\154\157\142\141\154\040\122\157\157\164\040\103\101\040\107\064$

END

CKA SERIAL NUMBER MULTILINE OCTAL

\002\024\117\043\144\270\216\227\143\236\306\123\201\301\166\116 \313\052\164\025\326\327

END

CKA VALUE MULTILINE OCTAL

\060\202\002\125\060\202\001\334\240\003\002\001\002\002\024\117 \043\144\270\216\227\143\236\306\123\201\301\166\116\313\052\164 $\label{eq:condition} $$ \025\326\327\060\012\006\010\052\206\110\316\075\004\003\000\006\000$ \132\061\013\060\011\006\003\125\004\006\023\002\103\116\061\045 \060\043\006\003\125\004\012\014\034\124\162\165\163\164\101\163 $\label{eq:linear_condition} $$ \frac{151}{141}040\\124\\145\\143\\150\\156\\157\\154\\157\\147\\151\\145\\163\\054$ \040\111\156\143\056\061\044\060\042\006\003\125\004\003\014\033 \124\162\165\163\164\101\163\151\141\040\107\154\157\142\141\154 $\\ \\ \langle 040 \rangle 122 \rangle 157 \rangle 157 \rangle 164 \rangle 040 \rangle 103 \rangle 101 \rangle 040 \rangle 107 \rangle 064 \rangle 060 \rangle 036 \rangle 027 \rangle 015 \rangle 062$ \061\060\065\062\060\060\062\061\060\062\062\132\027\015\064\066 \060\065\061\071\060\062\061\060\062\062\132\060\132\061\013\060 \011\006\003\125\004\006\023\002\103\116\061\045\060\043\006\003 \125\004\012\014\034\124\162\165\163\164\101\163\151\141\040\124 \145\143\150\156\157\154\157\147\151\145\163\054\040\111\156\143 \056\061\044\060\042\006\003\125\004\003\014\033\124\162\165\163 \164\101\163\151\141\040\107\154\157\142\141\154\040\122\157\157 $\label{eq:condition} $$ 164\040\103\101\040\107\064\060\166\060\020\006\007\052\206\110 $$$ \316\075\002\001\006\005\053\201\004\000\042\003\142\000\004\361 \263\315\070\344\045\103\345\336\031\011\273\201\171\242\025\137 \025\143\001\336\302\253\335\263\246\033\147\113\200\203\257\231 \313\254\027\333\053\226\312\174\122\125\342\032\341\075\126\360 \057\026\010\372\025\274\233\273\107\346\077\356\250\341\114\214 \365\323\066\371\070\135\253\160\232\107\015\342\201\101\006\353 $\label{eq:condition} $$ \frac{111\371\260\051\335\063\354\120\245\177\171\051\270\040\230\243}{120\245\177\171\051\270\040\230\243} $$$ $\label{eq:condition} $$ 143\060\141\060\017\006\003\125\035\023\001\001\377\004\005\060 $$$ $\label{eq:condition} $$ \003\001\001\377\060\037\006\003\125\035\043\004\030\060\026\200 $$$ \024\245\273\112\227\316\263\053\177\244\061\336\227\203\131\203 \246\157\161\313\336\060\035\006\003\125\035\016\004\026\004\024 \245\273\112\227\316\263\053\177\244\061\336\227\203\131\203\246 \157\161\313\336\060\016\006\003\125\035\017\001\001\377\004\004 $\label{eq:condition} $$ \003\002\001\006\060\012\006\010\052\206\110\316\075\004\003\003$ \003\147\000\060\144\002\060\136\362\353\006\314\111\061\237\100 \000\155\267\176\066\360\115\021\117\363\313\211\072\054\170\221 \120\243\133\300\312\165\046\362\277\220\135\013\202\214\140\050

END

CKA_NSS_MOZILLA_CA_POLICY

CK BBOOL CK TRUE

 ${\tt CKA_NSS_SERVER_DISTRUST_AFTER\ CK_BBOOL\ CK_FALSE}$

CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

- # Trust for "TrustAsia Global Root CA G4"
- # Issuer: CN=TrustAsia Global Root CA G4,O="TrustAsia Technologies, Inc.",C=CN
- # Serial Number:4f:23:64:b8:8e:97:63:9e:c6:53:81:c1:76:4e:cb:2a:74:15:d6:d7
- # Subject: CN=TrustAsia Global Root CA G4,O="TrustAsia Technologies, Inc.",C=CN
- # Not Valid Before: Thu May 20 02:10:22 2021
- # Not Valid After: Sat May 19 02:10:22 2046
- # Fingerprint (SHA-256):

BE:4B:56:CB:50:56:C0:13:6A:52:6D:F4:44:50:8D:AA:36:A0:B5:4F:42:E4:AC:38:F7:2A:F4:70:E4:79:65:4C

Fingerprint (SHA1): 57:73:A5:61:5D:80:B2:E6:AC:38:82:FC:68:07:31:AC:9F:B5:92:5A

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA MODIFIABLE CK BBOOL CK FALSE

CKA_LABEL UTF8 "TrustAsia Global Root CA G4"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL

\127\163\245\141\135\200\262\346\254\070\202\374\150\007\061\254\237\265\222\132

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL

\124\335\262\327\137\330\076\355\174\340\013\056\314\355\353\353

END

CKA_ISSUER MULTILINE_OCTAL

\060\132\061\013\060\011\006\003\125\004\006\023\002\103\116\061

\045\060\043\006\003\125\004\012\014\034\124\162\165\163\164\101

\163\151\141\040\124\145\143\150\156\157\154\157\147\151\145\163

\054\040\111\156\143\056\061\044\060\042\006\003\125\004\003\014

\033\124\162\165\163\164\101\163\151\141\040\107\154\157\142\141

\154\040\122\157\157\164\040\103\101\040\107\064

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

\002\024\117\043\144\270\216\227\143\236\306\123\201\301\166\116

 $313\052\164\025\326\327$

END

CKA_TRUST_SERVER_AUTH

CK_TRUST CKT_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 "CommScope Public Trust ECC Root-01"

#

- # Issuer: CN=CommScope Public Trust ECC Root-01,O=CommScope,C=US
- # Serial Number:43:70:82:77:cf:4d:5d:34:f1:ca:ae:32:2f:37:f7:f4:7f:75:a0:9e
- # Subject: CN=CommScope Public Trust ECC Root-01,O=CommScope,C=US
- # Not Valid Before: Wed Apr 28 17:35:43 2021
- # Not Valid After: Sat Apr 28 17:35:42 2046
- # Fingerprint (SHA-256):
- 11:43:7C:DA:7B:B4:5E:41:36:5F:45:B3:9A:38:98:6B:0D:E0:0D:EF:34:8E:0C:7B:B0:87:36:33:80:0B:C3:8B
- # Fingerprint (SHA1): 07:86:C0:D8:DD:8E:C0:80:98:06:98:D0:58:7A:EF:DE:A6:CC:A2:5D

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "CommScope Public Trust ECC Root-01"

CKA CERTIFICATE TYPE

CK_CERTIFICATE_TYPE CKC_X_509

CKA SUBJECT MULTILINE OCTAL

 $\label{eq:condition} $$ \060\116\061\013\060\011\006\003\125\004\006\023\002\125\123\061 $$$

 $\label{eq:condition} $$ \022\060\020\006\003\125\004\012\014\011\103\157\155\155\123\143$

\157\160\145\061\053\060\051\006\003\125\004\003\014\042\103\157

 $\label{eq:local_$

 $\label{eq:condition} $$ 162\165\163\164\040\105\103\103\040\122\157\157\164\055\060\061 $$$

END

CKA_ID UTF8 "0"

CKA ISSUER MULTILINE OCTAL

 $\label{eq:condition} $$ \000116\061\013\060\011\006\003\125\004\006\023\002\125\123\061 $$ \022\060\020\006\003\125\004\012\014\011\103\157\155\123\143 $$ \157\160\145\061\053\060\051\006\003\125\004\003\014\042\103\157 $$ \155\123\143\157\160\145\040\120\165\142\154\151\143\040\124 $$ \162\165\163\164\040\105\103\103\040\122\157\157\164\055\060\061 $$ END$

CKA SERIAL NUMBER MULTILINE OCTAL

\002\024\103\160\202\167\317\115\135\064\361\312\256\062\057\067\367\364\177\165\240\236

END

CKA_VALUE MULTILINE_OCTAL

\036\027\015\062\061\060\064\062\070\061\067\063\065\064\063\132 \027\015\064\066\060\064\062\070\061\067\063\065\064\062\132\060 $\label{eq:condition} $$ \000\000\000\12\004\012\014\011\103\157\155\123\143\157 $$$ \160\145\061\053\060\051\006\003\125\004\003\014\042\103\157\155 $\label{eq:local_$ \165\163\164\040\105\103\103\040\122\157\157\164\055\060\061\060 \004\000\042\003\142\000\004\113\066\351\256\127\136\250\160\327 \320\217\164\142\167\303\136\172\252\345\266\242\361\170\375\002 $\label{eq:condition} $$ \frac{176}127\sqrt{335}\sqrt{221}171\sqrt{234}154\sqrt{271}122\sqrt{210}124\sqrt{274}\sqrt{057}\sqrt{004}\sqrt{276}\sqrt{270}$ \315\366\020\321\051\354\265\320\240\303\360\211\160\031\273\121 \145\305\103\234\303\233\143\235\040\203\076\006\013\246\102\104 \205\021\247\112\072\055\351\326\150\057\110\116\123\053\007\077 $\label{eq:condition} $$ \frac{115}{275}\frac{271}{254}\frac{167}{071}\frac{127}{243}\frac{102}{060}\frac{100}{060}\frac{017}{006}\frac{003}{125} $$$ \035\023\001\001\377\004\005\060\003\001\001\377\060\016\006\003 \125\035\017\001\001\377\004\004\003\002\001\006\060\035\006\003 \125\035\016\004\026\004\024\216\007\142\300\120\335\306\031\006 \000\106\164\004\367\363\256\175\165\115\060\060\012\006\010\052 \206\110\316\075\004\003\003\003\150\000\060\145\002\061\000\234 \063\337\101\343\043\250\102\066\046\227\065\134\173\353\333\113 $\label{eq:condition} $$ 370\252\213\163\125\025\134\254\170\051\017\272\041\330\304\240 $$$ \330\321\003\335\155\321\071\075\304\223\140\322\343\162\262\002 \060\174\305\176\210\323\120\365\036\045\350\372\116\165\346\130 \226\244\065\137\033\145\352\141\232\160\043\265\015\243\233\222 \122\157\151\240\214\215\112\320\356\213\016\313\107\216\320\215 \021

END

CKA NSS MOZILLA CA POLICY

CK_BBOOL CK_TRUE

CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

```
# Trust for "CommScope Public Trust ECC Root-01"
```

11:43:7C:DA:7B:B4:5E:41:36:5F:45:B3:9A:38:98:6B:0D:E0:0D:EF:34:8E:0C:7B:B0:87:36:33:80:0B:C3:8B

Fingerprint (SHA1): 07:86:C0:D8:DD:8E:C0:80:98:06:98:D0:58:7A:EF:DE:A6:CC:A2:5D

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "CommScope

[#] Issuer: CN=CommScope Public Trust ECC Root-01,O=CommScope,C=US

[#] Serial Number:43:70:82:77:cf:4d:5d:34:f1:ca:ae:32:2f:37:f7:f4:7f:75:a0:9e

[#] Subject: CN=CommScope Public Trust ECC Root-01,O=CommScope,C=US

[#] Not Valid Before: Wed Apr 28 17:35:43 2021

[#] Not Valid After: Sat Apr 28 17:35:42 2046

[#] Fingerprint (SHA-256):

Public Trust ECC Root-01" CKA CERT SHA1 HASH MULTILINE OCTAL \007\206\300\330\335\216\300\200\230\006\230\320\130\172\357\336 \246\314\242\135 **END** CKA_CERT_MD5_HASH MULTILINE_OCTAL \072\100\247\374\003\214\234\070\171\057\072\242\154\266\012\026 **END** CKA_ISSUER MULTILINE_OCTAL \060\116\061\013\060\011\006\003\125\004\006\023\002\125\123\061 $\label{eq:condition} $$ \022\060\020\006\003\125\004\012\014\011\103\157\155\155\123\143$ \157\160\145\061\053\060\051\006\003\125\004\003\014\042\103\157 \155\155\123\143\157\160\145\040\120\165\142\154\151\143\040\124 $\label{eq:condition} $$ \frac{162\\165\\163\\164\\040\\105\\103\\103\\040\\122\\157\\157\\164\\055\\060\\061$ **END** CKA SERIAL NUMBER MULTILINE OCTAL \002\024\103\160\202\167\317\115\135\064\361\312\256\062\057\067 \367\364\177\165\240\236 **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 "CommScope Public Trust ECC Root-02" # Issuer: CN=CommScope Public Trust ECC Root-02,O=CommScope,C=US # Serial Number: 28:fd:99:60:41:47:a6:01:3a:ca:14:7b:1f:ef:f9:68:08:83:5d:7d # Subject: CN=CommScope Public Trust ECC Root-02,O=CommScope,C=US # Not Valid Before: Wed Apr 28 17:44:54 2021 # Not Valid After: Sat Apr 28 17:44:53 2046 # Fingerprint (SHA-256): 2F:FB:7F:81:3B:BB:B3:C8:9A:B4:E8:16:2D:0F:16:D7:15:09:A8:30:CC:9D:73:C2:62:E5:14:08:75:D1:AD:4A # Fingerprint (SHA1): 3C:3F:EF:57:0F:FE:65:93:86:9E:A0:FE:B0:F6:ED:8E:D1:13:C7: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 "CommScope Public Trust ECC Root-02" CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509 CKA_SUBJECT MULTILINE_OCTAL \060\116\061\013\060\011\006\003\125\004\006\023\002\125\123\061 \022\060\020\006\003\125\004\012\014\011\103\157\155\155\123\143 \157\160\145\061\053\060\051\006\003\125\004\003\014\042\103\157 \155\155\123\143\157\160\145\040\120\165\142\154\151\143\040\124 \162\165\163\164\040\105\103\103\040\122\157\157\164\055\060\062

END

CKA ID

UTF8 "0"

CKA ISSUER MULTILINE OCTAL

 $\label{eq:condition} $$ \000116\061\013\060\011\006\003\125\004\006\023\002\125\123\061\022\060\020\006\003\125\004\012\014\011\103\157\155\123\143\157\160\145\006\005\1\006\003\125\0004\0003\014\042\103\157\155\123\143\157\160\145\040\120\165\142\154\151\143\040\124\162\165\163\164\040\105\103\103\040\122\157\157\164\055\060\062\ END$

CKA SERIAL NUMBER MULTILINE OCTAL

 $\label{eq:condition} $$ \002\024\050\375\231\140\101\107\246\001\072\312\024\173\037\357\371\150\010\203\135\175$

END

CKA_VALUE MULTILINE_OCTAL

\060\202\002\034\060\202\001\243\240\003\002\001\002\002\024\050 $\label{eq:condition} $$ 375 \times 140 \times 101 \times 107 \times 46 \times 1072 \times 12024 \times 173 \times 377 \times 150 \times 10010$ \203\135\175\060\012\006\010\052\206\110\316\075\004\003\003\060 \116\061\013\060\011\006\003\125\004\006\023\002\125\123\061\022 $\label{eq:condition} $$ \000\000\000\12\004\012\014\011\103\157\155\123\143\157 $$$ \160\145\061\053\060\051\006\003\125\004\003\014\042\103\157\155 \155\123\143\157\160\145\040\120\165\142\154\151\143\040\124\162 \165\163\164\040\105\103\103\040\122\157\157\164\055\060\062\060 \036\027\015\062\061\060\064\062\070\061\067\064\065\064\132 \027\015\064\066\060\064\062\070\061\067\064\065\063\132\060 \116\061\013\060\011\006\003\125\004\006\023\002\125\123\061\022 \060\020\006\003\125\004\012\014\011\103\157\155\155\123\143\157 \155\123\143\157\160\145\040\120\165\142\154\151\143\040\124\162 \165\163\164\040\105\103\103\040\122\157\157\164\055\060\062\060 \004\000\042\003\142\000\004\170\060\201\350\143\036\345\353\161 \121\017\367\007\007\312\071\231\174\116\325\017\314\060\060\013 \217\146\223\076\317\275\305\206\275\371\261\267\264\076\264\007 \310\363\226\061\363\355\244\117\370\243\116\215\051\025\130\270 \325\157\177\356\154\042\265\260\257\110\105\012\275\250\111\224 \277\204\103\260\333\204\112\003\043\031\147\152\157\301\156\274 \006\071\067\321\210\042\367\243\102\060\100\060\017\006\003\125 $\label{eq:condition} $$ \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\346\030\165\377\357\140\336\204\244 \365\106\307\336\112\125\343\062\066\171\365\060\012\006\010\052 \206\110\316\075\004\003\003\003\147\000\060\144\002\060\046\163 \111\172\266\253\346\111\364\175\122\077\324\101\004\256\200\103 \203\145\165\271\205\200\070\073\326\157\344\223\206\253\217\347 \211\310\177\233\176\153\012\022\125\141\252\021\340\171\002\060 \167\350\061\161\254\074\161\003\326\204\046\036\024\270\363\073 \073\336\355\131\374\153\114\060\177\131\316\105\351\163\140\025

 $\verb|232|114|360|346|136|045|042|025|155|302|207|131|320|262|216|152|$

END

CKA_NSS_MOZILLA_CA_POLICY

CK BBOOL CK TRUE

CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE

CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for

"CommScope Public Trust ECC Root-02"

Issuer: CN=CommScope Public Trust ECC Root-02,O=CommScope,C=US

Serial Number:28:fd:99:60:41:47:a6:01:3a:ca:14:7b:1f:ef:f9:68:08:83:5d:7d

Subject: CN=CommScope Public Trust ECC Root-02,O=CommScope,C=US

Not Valid Before: Wed Apr 28 17:44:54 2021

Not Valid After: Sat Apr 28 17:44:53 2046

Fingerprint (SHA-256):

2F:FB:7F:81:3B:BB:B3:C8:9A:B4:E8:16:2D:0F:16:D7:15:09:A8:30:CC:9D:73:C2:62:E5:14:08:75:D1:AD:4A

Fingerprint (SHA1): 3C:3F:EF:57:0F:FE:65:93:86:9E:A0:FE:B0:F6:ED:8E:D1:13:C7: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 "CommScope Public Trust ECC Root-02"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL

 $\label{eq:condition} $$ \sqrt{074} \sqrt{357} 127 \sqrt{017} \sqrt{376} 145 \sqrt{223} 206 \sqrt{236} 240 \sqrt{376} 260 \sqrt{366} \sqrt{355} \sqrt{216}$

\321\023\307\345

END

CKA CERT MD5 HASH MULTILINE OCTAL

 $\label{eq:condition} $$ 131\260\104\325\145\115\270\134\125\031\222\002\266\321\224\262$

END

CKA_ISSUER MULTILINE_OCTAL

 $\label{eq:condition} $$ \060\116\061\013\060\011\006\003\125\004\006\023\002\125\123\061 $$$

 $\label{eq:condition} $$ \022\060\020\006\003\125\004\012\014\011\103\157\155\155\123\143$

\157\160\145\061\053\060\051\006\003\125\004\003\014\042\103\157

\155\155\123\143\157\160\145\040\120\165\142\154\151\143\040\124

 $\label{eq:condition} $$ 162\165\163\164\040\105\103\103\040\122\157\157\164\055\060\062$

END

CKA_SERIAL_NUMBER

MULTILINE OCTAL

 $\label{eq:condition} $$ \002\024\050\375\231\140\101\107\246\001\072\312\024\173\037\357 $$$

END

 ${\tt CKA_TRUST_SERVER_AUTH\ CK_TRUST\ CKT_NSS_TRUSTED_DELEGATOR}$

CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST

CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST

 ${\tt CKA_TRUST_STEP_UP_APPROVED\ CK_BBOOL\ CK_FALSE}$

#

Certificate "CommScope Public Trust RSA Root-01"

Issuer: CN=CommScope Public Trust RSA Root-01,O=CommScope,C=US

Serial Number:3e:03:49:81:75:16:74:31:8e:4c:ab:d5:c5:90:29:96:c5:39:10:dd

Subject: CN=CommScope Public Trust RSA Root-01,O=CommScope,C=US

Not Valid Before: Wed Apr 28 16:45:54 2021

Not Valid After: Sat Apr 28 16:45:53 2046

#

Fingerprint (SHA-256):

Fingerprint (SHA1): 6D:0A:5F:F7:B4:23:06:B4:85:B3:B7:97:64:FC:AC:75:F5:33:F2:93

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

CKA_TOKEN CK_BBOOL CK_TRUE

CKA PRIVATE CK BBOOL CK FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "CommScope Public Trust RSA Root-01"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL

 $\label{eq:condition} $$ \060\116\061\013\060\011\006\003\125\004\006\023\002\125\123\061 $$$

\022\060\020\006\003\125\004\012\014\011\103\157\155\155\123\143

 $\label{eq:condition} $$ \frac{157}{160}\frac{145}{061}\frac{053}{060}\frac{003}{125}\frac{125}{004}\frac{003}{124}\frac{103}{157} $$$

\155\155\123\143\157\160\145\040\120\165\142\154\151\143\040\124

\162\165\163\164\040\122\123\101\040\122\157\157\164\055\060\061

END

CKA ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

 $\label{eq:condition} $$ \060\116\061\013\060\011\006\003\125\004\006\023\002\125\123\061 $$$

\022\060\020\006\003\125\004\012\014\011\103\157\155\155\123\143

 $\label{eq:condition} $$ \frac{157}{160}\frac{001}{053}\frac{000}{051}\frac{000}{003}\frac{125}{004}\frac{003}{014}\frac{103}{157} $$$

\155\155\123\143\157\160\145\040\120\165\142\154\151\143\040\124

\162\165\163\164\040\122\123\101\040\122\157\157\164\055\060\061

END

CKA_SERIAL_NUMBER

MULTILINE OCTAL

\051\226\305\071\020\335

END

CKA VALUE MULTILINE OCTAL

 $\label{eq:constant} $$ \060\202\005\154\060\202\003\124\240\003\002\001\002\002\024\076\003\111\201\165\026\164\061\216\114\253\325\305\220\051\226\305\071\020\335\060\015\006\011\052\206\110\206\367\015\001\001\001\1013\060\011\006\003\125\004\006\023\002\125\123\061\022\060\020\006\003\125\004\0012\014\011\103\157\155\155\123\143\157\160\145\061\053\060\051\006\003\125\004\003\125\1004\003\014\042\157\157\164\055\060\061\060\036\027\015\062\061\060\064\062\070\061\066\064\065\065\064\132\027\015\064\066\060\064\062\070\061\066\064\065\065\063\132\060\116\061\013\060\011\006\003\125\004\006\023\002\125\004\006\023\002\125$

\123\061\022\060\020\006\003\125\004\012\014\011\103\157\155\155 \123\143\157\160\145\061\053\060\051\006\003\125\004\003\014\042 \103\157\155\123\143\157\160\145\040\120\165\142\154\151\143 \040\124\162\165\163\164\040\122\123\101\040\122\157\157\164\055 \060\061\060\202\002\042\060\015\006\011\052\206\110\206\367\015 $\label{eq:condition} $$ \001\001\005\000\003\202\002\017\000\060\202\002\012\002\202$ \002\001\000\260\110\145\243\015\035\102\343\221\155\235\204\244 \141\226\022\302\355\303\332\043\064\031\166\366\352\375\125\132 $\label{eq:condition} $$ \366\125\001\123\017\362\314\214\227\117\271\120\313\263\001\104$ \126\226\375\233\050\354\173\164\013\347\102\153\125\316\311\141 $\label{eq:condition} $$ \262\350\255\100\074\272\271\101\012\005\117\033\046\205\217\103$ \265\100\265\205\321\324\161\334\203\101\363\366\105\307\200\242 \204\120\227\106\316\240\014\304\140\126\004\035\007\133\106\245 $\label{eq:condition} $$ \016\262\113\244\016\245\174\356\370\324\142\003\271\223\152\212 $$$ $\label{eq:condition} $$ \024\270\160\370\056\202\106\070\043\016\164\307\153\101\267\320 $$$ \051\243\235\200\260\176\167\223\143\102\373\064\203\073\163\243 \132\041\066\353\107\372\030\027\331\272\146\302\223\244\217\374 \135\244\255\374\120\152\225\254\274\044\063\321\275\210\177\206 \365\365\262\163\052\217\174\257\010\362\032\230\077\251\201\145 $\label{eq:condition} $$ \077\301\214\211\305\226\060\232\012\317\364\324\310\064\355\235 $$$ \057\274\215\070\206\123\356\227\237\251\262\143\224\027\215\017 \334\146\052\174\122\121\165\313\231\216\350\075\134\277\236\073 $\label{eq:condition} $$ \050\215\203\002\017\251\237\162\342\054\053\263\334\146\227\000 $$$ \100\320\244\124\216\233\135\173\105\066\046\326\162\103\353\317 $\label{eq:condition} $$ 300\352\015\334\316\022\346\175\070\237\005\047\250\227\076\351 $$$ \121\306\154\005\050\301\002\017\351\030\155\354\275\234\006\324 \247\111\364\124\005\153\154\060\361\353\003\325\352\075\152\166 \302\313\032\050\111\115\177\144\340\372\053\332\163\203\201\377 \221\003\275\224\273\344\270\216\234\062\143\315\237\273\150\201 \261\204\133\257\066\277\167\356\035\177\367\111\233\122\354\322 $\label{eq:condition} $$ 167\132\175\221\235\115\302\071\055\344\272\202\370\157\362\116 $$$ \036\017\116\346\077\131\245\043\334\075\207\250\050\130\050\321 \361\033\066\333\117\304\377\341\214\133\162\214\307\046\003\047 \243\071\012\001\252\300\262\061\140\203\042\241\117\022\011\001 \021\257\064\324\317\327\256\142\323\005\007\264\061\165\340\015 $\label{eq:linear_condition} $$ \frac{155}{127}\frac{117}{151}\frac{207}{371}\frac{127}{251}\frac{272}{025}\frac{366}{310}\frac{122}{155}\frac{241}{313} $$$ \234\037\345\374\170\250\065\232\237\101\024\316\245\264\316\224 $\label{eq:condition} $$ \010\034\011\255\126\345\332\266\111\232\112\352\143\030\123\234$ $\label{eq:condition} $$ \054\056\303\002\003\001\000\001\243\102\060\100\060\017\006\003$ \125\035\023\001\001\377\004\005\060\003\001\001\377\060\016\006 \003\125\035\017\001\001\377\004\004\003\002\001\006\060\035\006 \003\125\035\016\004\026\004\024\067\135\246\232\164\062\302\302 \371\307\246\025\020\131\270\344\375\345\270\155\060\015\006\011 \052\206\110\206\367\015\001\001\013\005\000\003\202\002\001\000 \257\247\317\336\377\340\275\102\215\115\345\042\226\337\150\352 \175\115\052\175\320\255\075\026\134\103\347\175\300\206\350\172 $\label{eq:condition} $$ \065\143\361\314\201\310\306\013\350\056\122\065\244\246\111\220 $$$

\124\276\034\020\221\234\262\155\376\131\375\171\367\352\126\320 \236\150\124\102\217\046\122\342\114\337\057\227\246\057\322\007 \230\250\363\140\135\113\232\130\127\210\357\202\345\372\257\154 $\verb|\201|113|222|217|100|232|223|106|131|313|137|170|026|261|147|076|$ \102\013\337\050\331\260\255\230\040\276\103\174\321\136\032\011 $\label{eq:condition} $$ \027\044\215\173\135\225\351\253\301\140\253\133\030\144\200\373$ \255\340\006\175\035\312\131\270\363\170\051\147\306\126\035\257 \266\265\164\052\166\241\077\373\165\060\237\224\136\073\245\140 \363\313\134\014\342\016\311\140\370\311\037\026\212\046\335\347 \047\177\353\045\246\212\275\270\055\066\020\232\261\130\115\232 $\label{eq:condition} $$ \frac{150}{117}\frac{40}{124}\frac{345}{366}\frac{106}{023}\frac{216}{210}\frac{254}{274}\frac{1102}{022}\frac{255}{256} $$$ \306\112\211\175\233\301\330\055\351\226\003\364\242\164\014\274 \000\035\277\326\067\045\147\264\162\213\257\205\275\352\052\003 \217\314\373\074\104\044\202\342\001\245\013\131\266\064\215\062 $\label{eq:condition} $$ \013\022\015\353\047\302\375\101\327\100\074\162\106\051\300\214 $$$ \352\272\017\361\006\223\056\367\234\250\364\140\076\243\361\070 $\label{eq:condition} $$ \frac{136}{216}\frac{301}{263}\frac{227}{207}\frac{27}{207}\frac{222}{312}\frac{170}{251}\frac{34}{257}\frac{320}{320} $$$ \260\033\046\036\276\160\354\172\365\063\230\352\134\377\053\013 \004\116\103\335\143\176\016\247\116\170\003\225\076\324\055\060 $\label{eq:condition} $$ \225\021\020\050\056\277\240\002\076\377\136\131\323\005\016\225$$ \137\123\105\357\153\207\325\110\315\026\246\226\203\341\337\263 $\label{eq:condition} $$ \006\363\301\024\333\247\354\034\213\135\220\220\015\162\121\347 $$$ $\\ 141 \\ 371 \\ 024 \\ 312 \\ 257 \\ 203 \\ 217 \\ 277 \\ 257 \\ 261 \\ 012 \\ 131 \\ 135 \\ 334 \\ 134 \\ 327 \\$ \344\226\255\133\140\035\332\256\227\262\071\331\006\365\166\000 $\label{eq:condition} $$ \023\370\150\114\041\260\065\304\334\125\262\311\301\101\132\034$$$ \211\300\214\157\164\240\153\063\115\265\001\050\375\255\255\211 \027\073\246\232\204\274\353\214\352\304\161\044\250\272\051\371 $\label{eq:condition} $$ \010\262\047\126\065\062\137\352\071\373\061\232\325\031\314\360 $$$ **END**

CKA_NSS_MOZILLA_CA_POLICY

CK_BBOOL CK_TRUE

CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

```
# Trust for "CommScope Public Trust RSA Root-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 "CommScope Public Trust RSA Root-01"

[#] Issuer: CN=CommScope Public Trust RSA Root-01,O=CommScope,C=US

[#] Serial Number:3e:03:49:81:75:16:74:31:8e:4c:ab:d5:c5:90:29:96:c5:39:10:dd

[#] Subject: CN=CommScope Public Trust RSA Root-01,O=CommScope,C=US

[#] Not Valid Before: Wed Apr 28 16:45:54 2021

[#] Not Valid After: Sat Apr 28 16:45:53 2046

[#] Fingerprint (SHA-256):

^{02:}BD:F9:6E:2A:45:DD:9B:F1:8F:C7:E1:DB:DF:21:A0:37:9B:A3:C9:C2:61:03:44:CF:D8:D6:06:FE:C1:ED:81

[#] Fingerprint (SHA1): 6D:0A:5F:F7:B4:23:06:B4:85:B3:B7:97:64:FC:AC:75:F5:33:F2:93

```
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\155\012\137\367\264\043\006\264\205\263\267\227\144\374\254\165
\365\063\362\223
END
CKA CERT MD5 HASH MULTILINE OCTAL
\016\264\025\274\207\143\135\135\002\163\324\046\070\150\163\330
END
CKA ISSUER
MULTILINE_OCTAL
\060\116\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\label{eq:condition} $$ \022\060\020\006\003\125\004\012\014\011\103\157\155\155\123\143
\157\160\145\061\053\060\051\006\003\125\004\003\014\042\103\157
\155\155\123\143\157\160\145\040\120\165\142\154\151\143\040\124
END
CKA SERIAL NUMBER MULTILINE OCTAL
\002\024\076\003\111\201\165\026\164\061\216\114\253\325\305\220
\051\226\305\071\020\335
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 "CommScope Public Trust RSA Root-02"
# Issuer: CN=CommScope Public Trust RSA Root-02,O=CommScope,C=US
# Serial Number:54:16:bf:3b:7e:39:95:71:8d:d1:aa:00:a5:86:0d:2b:8f:7a:05:4e
# Subject: CN=CommScope
Public Trust RSA Root-02,O=CommScope,C=US
# Not Valid Before: Wed Apr 28 17:16:43 2021
# Not Valid After: Sat Apr 28 17:16:42 2046
# Fingerprint (SHA-256):
FF:E9:43:D7:93:42:4B:4F:7C:44:0C:1C:3D:64:8D:53:63:F3:4B:82:DC:87:AA:7A:9F:11:8F:C5:DE:E1:01:F1
# Fingerprint (SHA1): EA:B0:E2:52:1B:89:93:4C:11:68:F2:D8:9A:AC:22:4C:A3:8A:57:AE
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "CommScope Public Trust RSA Root-02"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\116\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\022\060\020\006\003\125\004\012\014\011\103\157\155\155\123\143
\157\160\145\061\053\060\051\006\003\125\004\003\014\042\103\157
\155\155\123\143\157\160\145\040\120\165\142\154\151\143\040\124
\162\165\163\164\040\122\123\101\040\122\157\157\164\055\060\062
```

END

CKA ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

CKA SERIAL NUMBER

MULTILINE OCTAL

 $\label{eq:condition} $$ \002\024\124\026\277\073\176\071\225\161\215\321\252\000\245\206\015\053\217\172\005\116$

END

CKA_VALUE MULTILINE_OCTAL

\060\202\005\154\060\202\003\124\240\003\002\001\002\002\024\124 $\label{eq:condition} $$ \026\277\073\176\071\225\161\215\321\252\000\245\206\015\053\217 $$$ \172\005\116\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\125 \123\143\157\160\145\061\053\060\051\006\003\125\004\003\014\042 \103\157\155\123\143\157\160\145\040\120\165\142\154\151\143 $\\ \\ \langle 040 \rangle 124 \rangle 162 \rangle 165 \rangle 163 \rangle 164 \rangle 040 \rangle 122 \rangle 123 \rangle 101 \rangle 040 \rangle 122 \rangle 157 \rangle 164 \rangle 055$ \060\062\060\036\027\015\062\061\060\064\062\070\061\066 \064\063\132\027\015\064\066\060\064\062\070\061\067\061\066\064 \062\132\060\116\061\013\060\011\006\003\125\004\006\023\002\125 \123\061\022\060\020\006\003\125\004\012\014\011\103\157\155\155 \103\157\155\123\143\157\160\145\040\120\165\142\154\151\143 \040\124\162\165\163\164\040\122\123\101\040\122\157\157\164\055 $\label{eq:condition} $$ \060\062\060\202\002\042\060\015\006\011\052\206\110\206\367\015$$$ \001\001\001\005\000\003\202\002\017\000\060\202\002\012\002\202 \002\001\000\341\372\016\373\150\000\022\310\115\325\254\042\304 \065\001\073\305\124\345\131\166\143\245\177\353\301\304\152\230 \275\062\215\027\200\353\135\272\321\142\075\045\043\031\065\024 \351\177\211\247\033\142\074\326\120\347\064\225\003\062\261\264 \223\042\075\247\342\261\355\346\173\116\056\207\233\015\063\165 \012\336\252\065\347\176\345\066\230\242\256\045\236\225\263\062 $\label{eq:condition} $$ \226\244\053\130\036\357\077\376\142\064\110\121\321\264\215\102$ \255\140\332\111\152\225\160\335\322\000\342\314\127\143\002\173 \226\335\111\227\133\222\116\225\323\371\313\051\037\030\112\370 \001\052\322\143\011\156\044\351\211\322\345\307\042\114\334\163 \206\107\000\252\015\210\216\256\205\175\112\351\273\063\117\016 \122\160\235\225\343\174\155\226\133\055\075\137\241\203\106\135 \266\343\045\270\174\247\031\200\034\352\145\103\334\221\171\066 \054\164\174\362\147\006\311\211\311\333\277\332\150\277\043\355 \334\153\255\050\203\171\057\354\070\245\015\067\001\147\047\232 \351\063\331\063\137\067\241\305\360\253\075\372\170\260\347\054

\237\366\076\237\140\340\357\110\351\220\105\036\005\121\170\032 \054\022\054\134\050\254\015\242\043\236\064\217\005\346\242\063 \316\021\167\023\324\016\244\036\102\037\206\315\160\376\331\056 \025\075\035\273\270\362\123\127\333\314\306\164\051\234\030\263 \066\165\070\056\017\124\241\370\222\037\211\226\117\273\324\356 \235\351\073\066\102\265\012\073\052\324\144\171\066\020\341\371 \221\003\053\173\040\124\315\015\031\032\310\101\062\064\321\260 \231\341\220\036\001\100\066\265\267\372\251\345\167\165\244\042 \201\135\260\213\344\047\022\017\124\210\306\333\205\164\346\267 \300\327\246\051\372\333\336\363\223\227\047\004\125\057\012\157 $\label{eq:condition} $$ \067\305\075\023\257\012\000\251\054\213\034\201\050\327\357\206 $$$ $\label{eq:condition} $$ \061\251\256\362\156\270\312\152\054\124\107\330\052\210\056\257 $$$ \301\007\020\170\254\021\242\057\102\360\067\305\362\270\126\335 \016\142\055\316\055\126\176\125\362\247\104\366\053\062\364\043 \250\107\350\324\052\001\170\317\152\303\067\250\236\145\322\054 \345\372\272\063\301\006\104\366\346\317\245\015\247\146\010\064 \212\054\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 $\label{eq:condition} $$ \03125\035\016\004\026\004\024\107\320\347\261\042\377\235\054$$$ \365\331\127\140\263\261\261\160\225\357\141\172\060\015\006\011 \052\206\110\206\367\015\001\001\013\005\000\003\202\002\001\000 $\label{eq:condition} $$ \206\151\261\115\057\351\237\117\042\223\150\216\344\041\231\243$ \316\105\123\033\163\104\123\000\201\141\315\061\343\010\272\201 $\label{eq:condition} $$ \050\050\172\222\271\266\250\310\103\236\307\023\046\115\302\330 $$$ \345\125\234\222\135\120\330\302\053\333\376\346\250\227\317\122 \072\044\303\145\144\134\107\061\243\145\065\023\303\223\271\367 $\label{eq:condition} $$ \frac{371}{121} 227 \frac{273}{244} \frac{360}{142} \frac{207}{305} \frac{326}{006} \frac{323}{227} \frac{203}{040} \frac{251}{251}$ \176\273\266\041\302\245\015\204\000\341\362\047\020\203\272\335 \003\201\325\335\150\303\146\020\310\321\166\264\263\157\051\236 $\label{eq:condition} $$ 000\371\302\051\365\261\223\031\122\151\032\054\114\240\213\340 $$$ \025\232\061\057\323\210\225\131\156\345\304\263\120\310\024\010 \112\233\213\023\203\261\244\162\262\073\166\063\101\334\334\252 \246\007\157\035\044\022\237\310\166\275\057\331\216\364\054\356 \267\322\070\020\044\066\121\057\343\134\135\201\041\247\332\273 \116\377\346\007\250\376\271\015\047\154\273\160\132\125\172\023 \351\361\052\111\151\307\137\207\127\114\103\171\155\072\145\351 \060\134\101\356\353\167\245\163\022\210\350\277\175\256\345\304 \250\037\015\216\034\155\120\002\117\046\030\103\336\217\125\205 \261\013\067\005\140\311\125\071\022\004\241\052\317\161\026\237 \066\121\111\277\160\073\236\147\234\373\173\171\311\071\034\170 \254\167\221\124\232\270\165\012\201\122\227\343\146\141\153\355 $\label{eq:condition} $$ \076\070\036\226\141\125\341\221\124\214\355\214\044\037\201\311 $$$ \020\232\163\231\053\026\116\162\000\077\124\033\370\215\272\213 \347\024\326\266\105\117\140\354\226\256\303\057\002\116\135\235 \226\111\162\000\262\253\165\134\017\150\133\035\145\302\137\063 \017\036\017\360\073\206\365\260\116\273\234\367\352\045\005\334 \255\242\233\113\027\001\276\102\337\065\041\035\255\253\256\364

 $\label{eq:control} $$ \277\256\037\033\323\342\073\374\263\162\163\034\233\050\220\211 \023\075\035\301\000\107\011\226\232\070\033\335\261\317\015\302 \264\104\363\226\225\316\062\072\217\064\234\340\027\307\136\316 \256\015\333\207\070\345\077\133\375\233\031\341\061\101\172\160 \252\043\153\001\341\105\114\315\224\316\073\236\055\347\210\002 \042\364\156\350\310\354\326\074\363\271\262\327\167\172\254\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 "CommScope Public Trust RSA Root-02"
- # Issuer: CN=CommScope Public Trust RSA Root-02,O=CommScope,C=US
- # Serial Number:54:16:bf:3b:7e:39:95:71:8d:d1:aa:00:a5:86:0d:2b:8f:7a:05:4e
- # Subject: CN=CommScope Public Trust RSA Root-02,O=CommScope,C=US
- # Not Valid Before: Wed Apr 28 17:16:43 2021
- # Not Valid After: Sat Apr 28 17:16:42 2046
- # Fingerprint (SHA-256):

FF:E9:43:D7:93:42:4B:4F:7C:44:0C:1C:3D:64:8D:53:63:F3:4B:82:DC:87:AA:7A:9F:11:8F:C5:DE:E1:01:F1

Fingerprint (SHA1): EA:B0:E2:52:1B:89:93:4C:11:68:F2:D8:9A:AC:22:4C:A3:8A:57:AE

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

CKA_TOKEN CK_BBOOL CK_TRUE

CKA PRIVATE CK BBOOL CK FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA LABEL UTF8 "CommScope Public Trust RSA Root-02"

CKA CERT SHA1 HASH

MULTILINE_OCTAL

\352\260\342\122\033\211\223\114\021\150\362\330\232\254\042\114\243\212\127\256

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL

 $\label{eq:condition} $$ \frac{341 \cdot 051 \cdot 371 \cdot 142 \cdot 173 \cdot 166 \cdot 342 \cdot 226 \cdot 155 \cdot 363 \cdot 324 \cdot 327 \cdot 017 \cdot 256 \cdot 037 \cdot 252}{341 \cdot 051 \cdot 371 \cdot 142 \cdot 173 \cdot 166 \cdot 342 \cdot 226 \cdot 155 \cdot 363 \cdot 324 \cdot 327 \cdot 017 \cdot 256 \cdot 037 \cdot 252}$

END

CKA_ISSUER MULTILINE_OCTAL

 $\label{eq:condition} $$ \000116\061\013\060\011\006\003\125\004\006\023\002\125\123\061 $$ \022\060\020\006\003\125\004\012\014\011\103\157\155\125\123\143 $$ \157\160\145\061\053\060\051\006\003\125\004\003\014\042\103\157 $$ \155\123\143\157\160\145\040\120\165\142\154\151\143\040\124 $$ \162\165\163\164\040\122\123\101\040\122\157\157\164\055\060\062 $$$

CKA SERIAL NUMBER MULTILINE OCTAL

\002\024\124\026\277\073\176\071\225\161\215\321\252\000\245\206

\015\053\217\172\005\116

END

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 "D-Trust SBR Root CA 1 2022"
# Issuer: CN=D-Trust SBR Root CA 1 2022,O=D-Trust
GmbH,C=DE
# Serial Number:52:cf:e4:8c:6d:a0:4a:f7:3f:82:97:0c:80:09:8c:95
# Subject: CN=D-Trust SBR Root CA 1 2022,O=D-Trust GmbH,C=DE
# Not Valid Before: Wed Jul 06 11:30:00 2022
# Not Valid After: Mon Jul 06 11:29:59 2037
# Fingerprint (SHA-256):
D9:2C:17:1F:5C:F8:90:BA:42:80:19:29:29:27:FE:22:F3:20:7F:D2:B5:44:49:CB:6F:67:5A:F4:92:21:46:E2
# Fingerprint (SHA1): 0F:52:3A:6B:4E:7D:1D:18:05:A5:48:F9:4D:CD:E4:C3:1E:1B:E9:E6
CKA_CLASS CK_OBJECT_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 SBR Root CA 1 2022"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA SUBJECT MULTILINE OCTAL
\060\111\061\013\060\011\006\003\125\004\006\023\002\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\043\060\041\006\003\125\004\003\023
\032\104\055\124\162\165\163\164\040\123\102\122\040\122\157\157
\164\040\103\101\040\061\040\062\060\062\062
END
CKA_ID
UTF8 "0"
CKA ISSUER MULTILINE OCTAL
\label{eq:condition} $$ \060\11\061\013\060\011\006\003\125\004\006\023\002\104\105\061 $$
\025\060\023\006\003\125\004\012\023\014\104\055\124\162\165\163
\164\040\107\155\142\110\061\043\060\041\006\003\125\004\003\023
\032\104\055\124\162\165\163\164\040\123\102\122\040\122\157\157
\164\040\103\101\040\061\040\062\060\062\062
END
CKA SERIAL NUMBER MULTILINE OCTAL
\002\020\122\317\344\214\155\240\112\367\077\202\227\014\200\011
\214\225
END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\136\060\202\001\343\240\003\002\001\002\002\020\122
\317\344\214\155\240\112\367\077\202\227\014\200\011\214\225\060
\012\006\010\052\206\110\316\075\004\003\003\060\111\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\043\060\041\006\003\125\004\003\023\032\104\055\124\162 \165\163\164\040\123\102\122\040\122\157\157\164\040\103\101\040

\061\040\062\060\062\060\036\027\015\062\060\067\060\066 \061\061\063\060\060\060\132\027\015\063\067\060\067\060\066\061 \061\062\071\065\071\132\060\111\061\013\060\011\006\003\125\004 $\label{eq:condition} $$ \006\023\002\104\105\061\025\060\023\006\003\125\004\012\023\014$ $\label{eq:condition} $$ 104\05\124\162\165\163\164\040\107\155\142\110\061\043\060\041 $$$ \006\003\125\004\003\023\032\104\055\124\162\165\163\164\040\123 \102\122\040\122\157\157\164\040\103\101\040\061\040\062\060\062 $\label{eq:condition} $$ \062\060\166\060\020\006\007\052\206\110\316\075\002\001\006\005$ $\label{eq:condition} $$ \053\201\004\000\042\003\142\000\004\131\223\071\366\214\111\146$$ \050\327\141\014\310\253\177\014\243\055\337\242\244\174\222\053 $\label{eq:condition} $$ \frac{325}{056}\frac{176}{036}\frac{100}{313}\frac{264}{150}\frac{111}{177}\frac{22}{241}\frac{253}{177}\frac{127}{127}$ \237\031\056\143\056\133\376\146\161\014\063\017\271\336\153\304 \210\303\261\357\354\071\100\343\226\253\333\345\173\256\037\334 $\label{eq:condition} $$ \frac{371}257\\106\\232\\152\\106\\006\\057\\307\\067\\144\\213\\027\\142\\376\\226$ $\label{eq:condition} $$ 303\242\356\204\340\260\227\071\274\243\201\217\060\201\214\060$$ \017\006\003\125\035\023\001\001\377\004\005\060\003\001\001\377 $\label{eq:condition} $$ \000\03\125\035\016\004\026\004\024\361\051\243\036\001 $$$ \022\035\075\165\126\115\307\120\174\305\031\252\017\030\267\060 \016\006\003\125\035\017\001\001\377\004\004\003\002\001\006\060 \206\071\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 \137\061\137\062\060\062\062\056\143\162\154\060\012\006\010\052 \206\110\316\075\004\003\003\003\151\000\060\146\002\061\000\227 \371\336\256\113\217\230\265\036\100\177\062\175\115\124\103\332 \211\315\302\252\222\074\321\202\036\163\317\372\114\222\040\373 \143\047\305\365\163\075\011\075\367\247\141\206\214\363\152\002 \061\000\347\057\174\270\365\045\214\073\071\037\066\253\215\365 \206\242\056\341\172\144\332\147\071\002\376\376\063\077\331\163 \266\130\133\072\374\262\244\331\140\170\167\314\171\247\246\256 \125\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 "D-Trust SBR Root CA 1 2022"
```

D9:2C:17:1F:5C:F8:90:BA:42:80:19:29:29:27:FE:22:F3:20:7F:D2:B5:44:49:CB:6F:67:5A:F4:92:21:46:E2

Fingerprint (SHA1): 0F:52:3A:6B:4E:7D:1D:18:05:A5:48:F9:4D:CD:E4:C3:1E:1B:E9:E6

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

[#] Issuer: CN=D-Trust SBR Root CA 1 2022,O=D-Trust GmbH,C=DE

[#] Serial Number:52:cf:e4:8c:6d:a0:4a:f7:3f:82:97:0c:80:09:8c:95

[#] Subject: CN=D-Trust SBR Root CA 1 2022,O=D-Trust GmbH,C=DE

[#] Not Valid Before: Wed Jul 06 11:30:00 2022

[#] Not Valid After: Mon Jul 06 11:29:59 2037

[#] Fingerprint (SHA-256):

```
CKA PRIVATE CK BBOOL CK FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA LABEL UTF8 "D-Trust SBR Root CA 1 2022"
CKA CERT SHA1 HASH MULTILINE OCTAL
\017\122\072\153\116\175\035\030\005\245\110\371\115\315\344\303
\036\033\351\346
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\023\074\033\202\352\156\352\355\144\142\351\132\171\005\151\004
END
CKA_ISSUER
MULTILINE OCTAL
\060\111\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\164\040\107\155\142\110\061\043\060\041\006\003\125\004\003\023
\032\104\055\124\162\165\163\164\040\123\102\122\040\122\157\157
\164\040\103\101\040\061\040\062\060\062\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\122\317\344\214\155\240\112\367\077\202\227\014\200\011
\214\225
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 SBR Root CA 2 2022"
# Issuer: CN=D-Trust SBR Root CA 2 2022,O=D-Trust GmbH,C=DE
# Serial Number:54:d5:a3:95:1e:3d:95:ba:72:1b:9a:d0:31:21:4a:ba
# Subject: CN=D-Trust SBR Root CA 2 2022,O=D-Trust GmbH,C=DE
# Not Valid Before: Thu Jul 07 07:30:00 2022
# Not Valid After
: Tue Jul 07 07:29:59 2037
# Fingerprint (SHA-256):
DB:A8:4D:D7:EF:62:2D:48:54:63:A9:01:37:EA:4D:57:4D:F8:55:09:28:F6:AF:A0:3B:4D:8B:11:41:E6:36:CC
# Fingerprint (SHA1): 27:FF:63:B9:EF:34:29:31:03:38:1A:D8:60:60:DA:CC:60:28:35: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 "D-Trust SBR Root CA 2 2022"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\label{eq:condition} $$ \060\11\061\013\060\011\006\003\125\004\006\023\002\104\105\061 $$
```

CKA TOKEN CK BBOOL CK TRUE

\025\060\023\006\003\125\004\012\023\014\104\055\124\162\165\163 \164\040\107\155\142\110\061\043\060\041\006\003\125\004\003\023 \032\104\055\124\162\165\163\164\040\123\102\122\040\122\157\157 \164\040\103\101\040\062\040\062\060\062\062

END

CKA ID UTF8 "0"

CKA ISSUER MULTILINE OCTAL

 $\label{eq:condition} $$ \000111061\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\103\102\122\040\122\157\157\164\040\103\101\040\062\040\062\060\062\062$

END

CKA_SERIAL_NUMBER

MULTILINE_OCTAL

\002\020\124\325\243\225\036\075\225\272\162\033\232\320\061\041 \112\272

END

CKA VALUE MULTILINE OCTAL

 $\label{eq:condition} $$ \060\202\005\254\060\202\003\224\240\003\002\001\002\002\020\124 $$$ \325\243\225\036\075\225\272\162\033\232\320\061\041\112\272\060 \015\006\011\052\206\110\206\367\015\001\001\015\005\000\060\111 \023\006\003\125\004\012\023\014\104\055\124\162\165\163\164\040 \107\155\142\110\061\043\060\041\006\003\125\004\003\023\032\104 \055\124\162\165\163\164\040\123\102\122\040\122\157\157\164\040 \103\101\040\062\040\062\060\062\060\036\027\015\062\060\060 \067\060\067\060\067\063\060\060\060\132\027\015\063\067\060\067 \060\067\060\067\062\071\065\071\132\060\111\061\013\060\011\006 \003\125\004\006\023\002\104\105\061\025\060\023\006\003\125\004 $\label{eq:condition} $$ \012\023\014\104\055\124\162\165\163\164\040\107\155\142\110\061 $$$ \043\060\041\006\003\125\004\003\023\032\104\055\124\162\165\163 \164\040\123\102\122\040\122\157\157\164\040\103\101\040\062\040 \062\060\062\060\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\054\274\216\066\214\353\144\257\121\152 \326\156\074\136\221\072\352\232\303\312\154\373\252\047\236\144 \042\251\100\337\271\050\105\132\354\123\141\026\050\230\302\212 $\label{eq:condition} $$ 244\165\170\120\204\335\372\040\110\222\007\145\101\065\146\121 $$$ $\label{eq:condition} $$ \022\164\141\235\007\006\205\071\061\127\173\050\077\325\234\245$ \354\132\351\034\113\047\237\316\047\006\363\067\365\122\330\021 \063\026\101\072\037\365\143\170\145\143\206\311\277\310\001\004 \037\156\356\342\354\254\014\356\202\222\342\366\032\015\077\071 \371\235\145\223\255\370\271\005\301\075\370\067\201\126\303\240 \376\005\354\340\224\026\072\043\026\004\332\246\012\223\205\162 \155\141\073\241\215\105\326\343\177\276\025\275\066\204\010\366 \013\203\153\046\252\242\275\340\260\347\252\340\256\147\304\323 \202\245\014\251\244\360\063\171\015\120\077\360\357\220\075\044

\271\177\322\040\154\352\227\363\277\234\334\107\336\011\141\275 \224\171\225\132\002\166\065\140\304\107\042\015\367\166\143\003 \323\306\373\203\306\135\253\255\355\151\045\053\003\133\115\045 $\label{eq:condition} $$ \000\101\343\214\207\027\122\250\340\005\053\103\115\024\023\312$ \347\077\103\042\274\067\244\165\361\366\277\072\357\062\036\256 $\label{eq:condition} $$ \356\130\206\220\162\272\004\254\100\110\357\134\304\170\247\251 $$$ \217\047\132\313\172\354\130\362\302\010\130\220\155\115\003\205 \171\161\025\005\016\116\076\371\337\017\005\367\137\024\110\126 $\label{eq:condition} $$ \041\015\063\222\261\254\214\345\030\376\277\017\356\340\004\252$ \275\041\362\130\266\134\211\012\213\030\011\042\032\263\065\306 \146\302\365\063\025\231\200\340\010\371\226\057\023\214\356\332 $\label{eq:condition} $$ \267\210\304\351\067\265\327\152\327\072\204\115\253\160\214\323$ \116\024\125\240\242\020\374\144\332\147\350\361\313\063\335\311 \232\212\217\226\057\130\201\331\370\232\000\103\314\220\373\125 $\label{eq:condition} $$ 166\373\206\343\067\001\050\014\157\364\351\131\115\025\167\121 $$$ \102\112\314\064\270\200\103\120\201\357\127\245\023\333\247\224 $\label{eq:condition} $$ \frac{171}017\frac{312}176\sqrt{027}\frac{257}243\sqrt{041}\frac{350}{161}\frac{125}{126}\frac{217}{126} $$ \006\260\107\354\131\017\135\160\133\054\026\102\360\206\236\165 \336\153\115\110\230\204\342\127\030\266\234\202\231\145\072\213 $\label{eq:condition} $$ \200\170\127\014\111\002\003\001\000\001\243\201\217\060\201\214 $$ \060\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001 \377\060\035\006\003\125\035\016\004\026\004\024\135\263\200\224 $\label{eq:condition} $$ \033\345\206\277\150\272\024\064\244\366\356\155\362\335\337\347 $$$ \060\016\006\003\125\035\017\001\001\377\004\004\003\002\001\006 \060\112\006\003\125\035\037\004\103\060\101\060\077\240\075\240 $\label{eq:condition} $$ \073\206\071\150\164\164\160\072\057\057\143\162\154\056\144\055$$$ \164\162\165\163\164\056\156\145\164\057\143\162\154\057\144\055 $\label{eq:loss} $$ 164\162\165\163\164\137\163\142\162\137\162\157\157\164\137\143$$ \141\137\062\137\062\060\062\062\056\143\162\154\060\015\006\011 \052\206\110\206\367\015\001\001\015\005\000\003\202\002\001\000 $\\ \\064\\124\\056\\130\\030\\126\\315\\112\\275\\227\\323\\365\\175\\053\\334\\257$ \017\121\341\115\274\041\113\223\364\000\104\023\007\020\013\045 \030\076\110\131\226\367\241\341\223\220\170\146\032\075\043\353 \042\253\001\246\216\014\121\063\346\155\214\061\356\254\244\001 \160\071\110\336\307\146\054\153\015\313\163\237\207\222\351\076 \107\037\270\357\057\356\267\126\214\110\211\360\070\247\025\071 \262\356\300\077\027\244\163\002\010\234\274\006\212\244\302\267 \141\141\371\303\333\304\320\172\174\141\336\261\130\221\365\335 \145\114\057\013\370\353\075\265\355\212\276\167\034\272\131\002 $\label{eq:condition} $$ \022\146\161\345\230\047\316\016\075\257\121\242\105\371\202\373$ \132\245\224\160\367\213\204\303\114\145\045\233\173\342\037\060 \160\263\100\216\072\356\275\364\347\150\305\235\311\051\107\161 $\label{eq:condition} $$ \016\223\310\265\110\116\365\146\273\007\210\161\151\153\173\110 $$$ \216\157\360\021\304\264\311\160\024\230\040\275\355\247\352\001 \332\156\245\233\022\376\076\104\060\263\360\353\165\122\300\364 \303\372\167\046\244\167\202\055\157\363\050\036\116\225\360\060 \367\211\370\054\242\120\133\362\276\062\176\154\124\333\162\311 \052\132\340\034\266\013\330\122\232\131\241\343\260\001\047\305

 $\label{eq:control} $$ \additing $$ \additi$

CKA NSS MOZILLA CA POLICY

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 SBR Root CA 2 2022"
- # Issuer: CN=D-Trust SBR Root CA 2 2022,O=D-Trust GmbH,C=DE
- # Serial Number:54:d5:a3:95:1e:3d:95:ba:72:1b:9a:d0:31:21:4a:ba
- # Subject: CN=D-Trust SBR Root CA 2 2022,O=D-Trust GmbH,C=DE
- # Not Valid Before: Thu Jul 07 07:30:00 2022
- # Not Valid After: Tue Jul 07 07:29:59 2037
- # Fingerprint (SHA-256):

DB:A8:4D:D7:EF:62:2D:48:54:63:A9:01:37:EA:4D:57:4D:F8:55:09:28:F6:AF:A0:3B:4D:8B:11:41:E6:36:CC

Fingerprint (SHA1): 27:FF:63:B9:EF:34:29:31:03:38:1A:D8:60:60:DA:CC:60:28:35: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 "D-Trust SBR Root CA 2 2022"

CKA CERT SHA1 HASH MULTILINE OCTAL

 $\label{eq:condition} $$ \047\377\143\271\357\064\051\061\003\070\032\330\140\140\332\314\140\050\065\341$

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL

\220\361\364\053\074\247\312\112\210\073\005\053\010\124\205\336 END

CKA_ISSUER MULTILINE_OCTAL

 $\label{eq:condition} $$ \00011\006\003\125\004\006\023\002\104\105\061\025\060\023\006\003\125\0004\012\023\014\104\055\124\162\165\163\164\040\103\125\0004\003\125\0004\003\023\032\1004\055\124\162\165\163\164\040\123\102\122\040\122\157\157\164\040\103\101\040\062\040\062\060\062\062$

```
END
CKA SERIAL NUMBER MULTILINE OCTAL
\002\020\124\325\243\225\036\075\225\272\162\033\232\320\061\041
\112\272
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 "Telekom Security SMIME ECC Root 2021"
# Issuer: CN=Telekom
Security SMIME ECC Root 2021,O=Deutsche Telekom Security GmbH,C=DE
# Serial Number:15:2a:dd:14:c9:18:d1:a4:56:40:86:a6:25:af:07:5f
# Subject: CN=Telekom Security SMIME ECC Root 2021,O=Deutsche Telekom Security GmbH,C=DE
# Not Valid Before: Thu Mar 18 11:08:30 2021
# Not Valid After: Sat Mar 17 23:59:59 2046
# Fingerprint (SHA-256):
3A:E6:DF:7E:0D:63:7A:65:A8:C8:16:12:EC:6F:9A:14:2F:85:A1:68:34:C1:02:80:D8:8E:70:70:28:51:87:55
# Fingerprint (SHA1): B7:F9:1D:98:EC:25:93:F3:50:14:84:9A:A8:7E:22:10:3C:C4:39:27
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA TOKEN CK BBOOL CK TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA MODIFIABLE CK BBOOL CK FALSE
CKA LABEL UTF8 "Telekom Security SMIME ECC Root 2021"
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\104\105\061
\\ \\047\\060\\045\\006\\003\\125\\004\\012\\014\\036\\104\\145\\165\\164\\163\\143
\150\145\040\124\145\154\145\153\157\155\040\123\145\143\165\162
\151\164\171\040\107\155\142\110\061\055\060\053\006\003\125\004
\003\014\044\124\145\154\145\153\157\155\040\123\145\143\165\162
\151\164\171\040\123\115\111\115\105\040\105\103\103\040\122\157
\157\164\040\062\060\062\061
END
CKA ID
UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\145\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\047\060\045\006\003\125\004\012\014\036\104\145\165\164\163\143
\150\145\040\124\145\154\145\153\157\155\040\123\145\143\165\162
\151\164\171\040\107\155\142\110\061\055\060\053\006\003\125\004
\003\014\044\124\145\154\145\153\157\155\040\123\145\143\165\162
```

\151\164\171\040\123\115\111\115\105\040\105\103\103\040\122\157

\157\164\040\062\060\062\061

END

CKA SERIAL NUMBER MULTILINE OCTAL

\002\020\025\052\335\024\311\030\321\244\126\100\206\246\045\257\007\137

END

CKA VALUE MULTILINE OCTAL

 $\label{eq:condition} $$ \060\202\002\107\060\202\001\315\240\003\002\001\002\002\002\0025$ \052\335\024\311\030\321\244\126\100\206\246\045\257\007\137\060 \012\006\010\052\206\110\316\075\004\003\003\060\145\061\013\060 $\label{eq:condition} $$ \004\003\125\004\006\023\002\104\105\061\047\060\045\006\003$ \125\004\012\014\036\104\145\165\164\163\143\150\145\040\124\145 \154\145\153\157\155\040\123\145\143\165\162\151\164\171\040\107 \154\145\153\157\155\040\123\145\143\165\162\151\164\171\040\123 \115\111\115\105\040\105\103\103\040\122\157\157\164\040\062\060 $\label{eq:condition} $$ \062\061\060\036\061\070\061\060\070$$$ \063\060\132\027\015\064\066\060\063\061\067\062\063\065\071\065 \105\061\047\060\045\006\003\125\004\012\014\036\104\145\165\164 \163\143\150\145\040\124\145\154\145\153\157\155\040\123\145\143 \165\162\151\164\171\040\107\155\142\110\061\055\060\053\006\003 \125\004\003\014\044\124\145\154\145\153\157\155\040\123\145\143 \165\162\151\164\171\040\123\115\111\115\105\040\105\103\103\040 $\label{eq:local_$ \206\110\316\075\002\001\006\005\053\201\004\000\042\003\142\000 \004\260\031\217\242\153\265\307\315\017\060\231\067\014\303\140 \133\361\361\047\040\125\075\300\222\213\253\127\241\157\163\203 \041\302\103\023\014\136\211\252\307\005\065\171\223\142\220\326 $\label{eq:condition} $$ 135\023\037\321\172\240\274\236\020\247\146\174\106\012\260\127$ \154\277\346\124\071\070\041\154\022\134\161\314\323\132\137\155 \267\247\206\337\263\337\356\302\347\211\101\226\065\366\057\112 $\label{eq:condition} $$ \265\243\102\060\100\060\035\006\003\125\035\016\004\026\004\024$ \053\313\001\014\143\303\123\022\245\250\127\257\320\234\203\373 \275\220\072\113\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\061\000\326\274\110\222\207\107\003 \307\160\073\045\266\037\256\106\147\163\164\000\047\113\344\245 \004\242\003\337\136\050\255\156\136\003\310\335\150\234\266\277 \224\020\110\225\057\017\377\030\213\002\060\001\100\063\236\227 \227\115\005\362\164\124\014\315\071\375\152\153\011\301\044\077 \141\216\070\241\267\350\327\104\025\021\142\377\016\141\067\107 \113\100\177\112\137\262\147\132\163\165\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

```
# Issuer: CN=Telekom Security SMIME ECC Root 2021,O=Deutsche Telekom Security GmbH,C=DE
# Serial Number:15:2a:dd:14:c9:18:d1:a4:56:40:86:a6:25:af:07:5f
# Subject: CN=Telekom Security SMIME ECC Root 2021,O=Deutsche Telekom Security GmbH,C=DE
# Not Valid Before: Thu Mar 18 11:08:30 2021
# Not Valid After: Sat Mar 17 23:59:59 2046
# Fingerprint (SHA-256):
3A:E6:DF:7E:0D:63:7A:65:A8:C8:16:12:EC:6F:9A:14:2F:85:A1:68:34:C1:02:80:D8:8E:70:70:28:51:87:55
# Fingerprint (SHA1): B7:F9:1D:98:EC:25:93:F3:50:14:84:9A:A8:7E:22:10:3C:C4:39:27
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 "Telekom Security SMIME ECC Root 2021"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\267\371\035\230\354\045\223\363\120\024\204\232\250\176\042\020
\074\304\071\047
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\165\275\136\355\174\015\146\076\007\244\233\274\002\007\330\264
END
CKA_ISSUER MULTILINE_OCTAL
\060\145\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\047\060\045\006\003\125\004\012\014\036\104\145\165\164\163\143
\150\145\040\124\145\154\145\153\157\155\040\123\145\143\165\162
\151\164\171\040\107\155\142\110\061\055\060\053\006\003\125\004
\151\164\171\040\123\115\111\115\105\040\105\103\103\040\122\157
\157\164\040\062\060\062\061
END
CKA SERIAL NUMBER MULTILINE OCTAL
\002\020\025\052\335\024\311\030\321\244\126\100\206\246\045\257
\007\137
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 "Telekom Security TLS ECC Root 2020"
# Issuer: CN=Telekom Security TLS ECC Root 2020,O=Deutsche Telekom Security GmbH,C=DE
# Serial Number:36:3a:96:8c:c9:5c:b2:58:cd:d0:01:5d:c5:e5:57:00
# Subject: CN=Telekom Security TLS ECC Root 2020,O=Deutsche Telekom Security GmbH,C=DE
# Not Valid Before: Tue Aug 25 07:48:20 2020
```

Trust for "Telekom Security SMIME ECC Root 2021"

Not Valid After: Fri Aug 25 23:59:59 2045

Fingerprint (SHA-256):

57:8A:F4:DE:D0:85:3F:4E:59:98:DB:4A:EA:F9:CB:EA:8D:94:5F:60:B6:20:A3:8D:1A:3C:13:B2:BC:7B:A8:E1

Fingerprint (SHA1): C0:F8:96:C5:A9:3B:01:06:21:07:DA:18:42:48:BC:E9:9D:88:D5:EC

CKA CLASS CK OBJECT CLASS CKO CERTIFICATE

CKA_TOKEN CK_BBOOL CK_TRUE

CKA PRIVATE CK BBOOL CK FALSE

CKA MODIFIABLE CK BBOOL CK FALSE

CKA_LABEL UTF8 "Telekom Security TLS ECC Root 2020"

CKA CERTIFICATE TYPE CK CERTIFICATE TYPE CKC X 509

CKA_SUBJECT MULTILINE_OCTAL

 $\label{eq:condition} $$ \000143\061\013\060\011\006\003\125\004\006\023\002\104\105\061\047\060\045\006\003\125\004\012\014\036\104\145\165\164\163\143\150\145\040\124\145\154\145\153\157\155\040\123\145\143\165\162\151\164\171\040\124\145\153\157\155\040\123\145\143\165\162\151\164\171\040\124\114\123\040\105\103\103\040\122\157\157\164\040\062\060\062\060$

END

CKA_ID

UTF8 "0"

CKA ISSUER MULTILINE OCTAL

 $\label{eq:condition} $$ \000143\061\013\060\011\006\003\125\004\006\023\002\104\105\061\047\060\045\006\003\125\004\012\014\036\104\145\165\164\163\143\150\145\040\124\145\154\145\153\157\155\040\123\145\143\165\162\151\164\171\040\124\145\153\157\155\040\123\145\143\165\162\151\164\171\040\124\114\123\040\105\103\103\040\122\157\157\164\040\062\060\062\060$

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

\002\020\066\072\226\214\311\134\262\130\315\320\001\135\305\345 \127\000

END

CKA_VALUE MULTILINE_OCTAL

 $\label{eq:condition} $$ \000\200\100\100\200\100\200\006\000\100\200\200\100\100\315\320\001\135\305\345\127\000\060\012\006\010\052\206\110\316\0075\004\0003\000\3060\143\061\013\060\003\125\0004\0006\023\0002\1004\105\061\0047\060\0045\0006\003\125\1006\1006\1003\125\1004\1006\1003\125\1004\1006\1003\125\1004\1006\1003\125\1004\1006\1003\125\1004\1003\1014\1004\124\145\153\157\155\1040\123\145\143\165\162\151\164\171\0040\124\145\153\157\155\004\123\145\143\165\162\151\164\171\004\124\145\153\157\155\004\123\145\143\165\162\151\164\171\004\124\145\114\123\004\105\103\103\004\0122\157\157\164\004\0062\060\062\066\0062\066\0062\066\0062\066\0067\064\0070\062\066\0060\132\002\103\103\060\011\006\003\125\0004\006\023\002\104\105\061\004\1060\0045\006\003\125\0004\006\023\002\104\105\061\004\1060\0045\006\003\125\0004\006\104\145\165\164\163\143$

\150\145\040\124\145\154\145\153\157\155\040\123\145\143\165\162 \151\164\171\040\107\155\142\110\061\053\060\051\006\003\125\004 $\label{eq:condition} $$ \frac{151}{164}\frac{040}{124}\frac{114}{123}\frac{040}{105}\frac{103}{103}\frac{040}{122}\frac{157}{157}\frac{164}{164} $$$ \040\062\060\062\060\060\166\060\020\006\007\052\206\110\316\075 $\label{eq:condition} $$ \002\001\006\005\053\201\004\000\042\003\142\000\004\316\277\376 $$$ \127\250\277\325\252\367\020\232\315\274\321\021\242\275\147\102 \314\220\353\025\030\220\331\242\315\014\052\045\353\076\117\316 \265\322\217\017\363\065\332\103\213\002\200\276\157\121\044\035 \017\153\053\312\237\302\157\120\062\345\067\040\266\040\377\210 \015\017\155\111\273\333\006\244\207\220\222\224\364\011\320\317 \177\\310\\200\\013\\301\\227\\263\\273\\065\\047\\311\\302\\033\\243\\102\\060 \100\060\035\006\003\125\035\016\004\026\004\024\343\162\314\156 \225\231\107\261\346\263\141\114\321\313\253\343\272\315\336\237 $\label{eq:condition} $$ \000\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001 $$$ \377\060\016\006\003\125\035\017\001\001\377\004\004\003\002\001 $\label{eq:condition} $$ \006\0012\006\010\052\206\110\316\075\004\003\003\003\147\000 $$$ \060\144\002\060\165\122\213\267\244\020\117\256\112\020\213\262 $\label{eq:condition} $$ \204\133\102\341\346\052\066\002\332\240\156\031\077\045\277\332 $$$ \131\062\216\344\373\220\334\223\144\316\255\264\101\107\140\342 \317\247\313\036\002\060\067\101\214\146\337\101\153\326\203\000 $\label{eq:condition} $$ 101\375\057\132\367\120\264\147\321\054\250\161\327\103\312\234$$ $\\ \\ 047\\ \\ 044\\ \\ 221\\ \\ 203\\ \\ 110\\ \\ 015\\ \\ 317\\ \\ 315\\ \\ 367\\ \\ 124\\ \\ 201\\ \\ 257\\ \\ 354\\ \\ 177\\ \\ 344\\ \\ 147$ \333\270\220\356\335\045

END

CKA NSS MOZILLA CA POLICY

CK BBOOL CK TRUE

CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA NSS EMAIL DISTRUST AFTER CK BBOOL CK FALSE

- # Trust for "Telekom Security TLS ECC Root 2020"
- # Issuer: CN=Telekom Security TLS ECC Root 2020,O=Deutsche Telekom Security GmbH,C=DE
- # Serial Number:36:3a:96:8c:c9:5c:b2:58:cd:d0:01:5d:c5:e5:57:00
- # Subject: CN=Telekom Security TLS ECC Root 2020,O=Deutsche Telekom Security GmbH,C=DE
- # Not Valid Before: Tue Aug 25 07:48:20 2020
- # Not Valid After: Fri Aug 25 23:59:59 2045
- # Fingerprint (SHA-256):
- 57:8A:F4:DE:D0:85:3F:4E:59:98:DB:4A:EA:F9:CB:EA:8D:94:5F:60:B6:20:A3:8D:1A:3C:13:B2:BC:7B:A8:E1
- # Fingerprint (SHA1):

C0:F8:96:C5:A9:3B:01:06:21:07:DA:18:42:48:BC:E9:9D:88:D5:EC

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "Telekom Security TLS ECC Root 2020"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL

 $\label{eq:condition} $$ 300\370\226\305\251\073\001\006\041\007\332\030\102\110\274\351 $$$

\235\210\325\354

```
END
CKA CERT MD5 HASH MULTILINE OCTAL
\301\253\376\152\020\054\003\215\274\034\042\062\300\205\247\375
END
CKA ISSUER MULTILINE OCTAL
\060\143\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\047\060\045\006\003\125\004\012\014\036\104\145\165\164\163\143
\150\145\040\124\145\154\145\153\157\155\040\123\145\143\165\162
\151\164\171\040\107\155\142\110\061\053\060\051\006\003\125\004
\003\014\042\124\145\154\145\153\157\155\040\123\145\143\165\162
\label{eq:condition} $$ \frac{151}{164}\frac{040}{124}\frac{114}{123}\frac{040}{105}\frac{103}{103}\frac{040}{122}\frac{157}{157}\frac{164}{164} $$
\040\062\060\062\060
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\label{eq:condition} $$ \002\020\066\072\226\214\311\134\262\130\315\320\001\135\305\345 $$
\127\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 "Telekom Security SMIME RSA Root 2023"
# Issuer: CN=Telekom Security SMIME RSA Root 2023,O=Deutsche Telekom Security GmbH,C=DE
# Serial Number:0c:7e:62:f5:79:73:3b:9d:43:8e:8b:63:ed:91:95:b8
# Subject: CN=Telekom Security SMIME RSA Root 2023,O=Deutsche Telekom Security GmbH,C=DE
# Not Valid Before: Tue Mar 28 12:09:22 2023
# Not Valid After: Fri Mar 27 23:59:59 2048
# Fingerprint (SHA-256):
78:A6:56:34:4F:94:7E:9C:C0:F7:34:D9:05:3D:32:F6:74:20:86:B6:B9:CD:2C:AE:4F:AE:1A:2E:4E:FD:E0:48
# Fingerprint (SHA1): 89:3F:6F:1C:E2:4D:7F:FB:C3:D3:14:7A:05:80:A7:DE:E1:0A:5E:4D
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Telekom Security
SMIME RSA Root 2023"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
```

\060\145\061\013\060\011\006\003\125\004\006\023\002\104\105\061 \047\060\045\006\003\125\004\012\014\036\104\145\165\164\163\143 \150\145\040\124\145\154\145\153\157\155\040\123\145\143\165\162 \151\164\171\040\107\155\142\110\061\055\060\053\006\003\125\004

CKA_SUBJECT MULTILINE_OCTAL

\157\164\040\062\060\062\063

END

CKA ID UTF8 "0"

CKA ISSUER MULTILINE OCTAL

 $\label{eq:condition} $$ \060\145\061\013\060\011\006\003\125\004\006\023\002\104\105\061\\ \047\060\045\006\003\125\004\012\014\036\104\145\165\164\163\143\\ \150\145\040\124\145\154\145\153\157\155\040\123\145\143\165\162\\ \151\164\171\040\123\115\111\115\105\040\122\123\101\040\122\157\\ \157\164\040\062\060\062\063 $$$

END

CKA SERIAL NUMBER

MULTILINE OCTAL

\002\020\014\176\142\365\171\163\073\235\103\216\213\143\355\221 \225\270

END

CKA_VALUE MULTILINE_OCTAL

\060\202\005\267\060\202\003\237\240\003\002\001\002\002\002\001\4 \176\142\365\171\163\073\235\103\216\213\143\355\221\225\270\060 \015\006\011\052\206\110\206\367\015\001\001\001\014\005\000\060\145 \061\013\060\011\006\003\125\004\006\023\002\104\105\061\047\060 $\\ \\045\\ \\006\\ \\003\\ \\125\\ \\004\\ \\012\\ \\014\\ \\036\\ \\104\\ \\145\\ \\165\\ \\164\\ \\163\\ \\143\\ \\150\\ \\145$ \040\124\145\154\145\153\157\155\040\123\145\143\165\162\151\164 \171\040\107\155\142\110\061\055\060\053\006\003\125\004\003\014 \044\124\145\154\145\153\157\155\040\123\145\143\165\162\151\164 \171\040\123\115\111\115\105\040\122\123\101\040\122\157\157\164 \040\062\060\062\063\060\036\027\015\062\063\060\063\062\070\061 \062\060\071\062\062\132\027\015\064\070\060\063\062\067\062\063 \065\071\065\071\132\060\145\061\013\060\011\006\003\125\004\006 \023\002\104\105\061\047\060\045\006\003\125\004\012\014\036\104 \145\165\164\163\143\150\145\040\124\145\154\145\153\157\155\040 \123\145\143\165\162\151\164\171\040\107\155\142\110\061\055\060 \053\006\003\125\004\003\014\044\124\145\154\145\153\157\155\040 \123\145\143\165\162\151\164\171\040\123\115\111\115\105\040\122 \123\101\040\122\157\157\164\040\062\060\062\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\357\305\016 \213\276\062\322\147\107\377\012\114\147\263\052\277\310\303\305 \221\353\265\307\036\221\341\146\250\210\213\125\040\200\037\121 \136\167\227\236\031\012\134\307\153\067\041\174\003\066\001\364 \210\045\331\250\056\101\252\374\330\046\340\226\100\142\171\256 \127\236\003\070\032\034\262\167\024\076\351\241\162\320\344\340 \067\321\027\106\355\120\134\172\130\305\370\053\367\165\057\317 \201\236\132\054\267\072\254\240\131\230\004\121\014\377\111\305 \120\375\036\323\107\205\113\063\117\242\067\265\257\004\232\047 \062\235\126\325\077\125\141\343\213\157\256\121\376\227\376\151 \007\372\142\133\046\346\024\171\025\245\023\070\256\137\067\276

\224\112\326\015\200\026\151\244\221\262\072\111\230\165\235\106 \020\212\134\172\177\204\245\350\257\036\307\253\263\132\106\265 \243\113\365\246\043\066\000\106\261\333\005\266\033\316\236\172 \062\134\232\325\162\303\235\206\115\053\204\323\036\265\210\332 \020\170\234\042\303\073\043\265\353\023\007\275\157\123\354\233 $\label{eq:condition} $$ \frac{354}233\frac{323}{145}\frac{365}{007}\frac{343}{135}\frac{247}{231}\frac{265}{176}\frac{206}{216}\frac{325}{325} $$$ \002\377\267\205\011\343\107\024\335\226\146\030\064\336\010\325 \337\313\030\231\142\013\053\354\000\135\122\104\323\306\226\374 $\label{eq:condition} $$ \062\126\045\221\317\315\031\073\225\071\076\002\207\231\143\266 $$$ \325\076\064\172\017\021\165\201\274\175\004\312\140\264\050\165 \327\002\121\335\122\000\056\307\375\211\361\134\363\313\244\047 $\label{eq:condition} $$ \022\070\217\273\373\211\360\344\304\070\054\276\202\240\161\141 $$$ \142\221\217\110\014\057\053\251\260\361\313\020\004\347\164\277 $\label{eq:condition} $$ \067\220\357\117\052\103\065\227\022\306\052\160\015\336\054\125$$$ \107\171\143\051\365\312\037\152\006\122\034\256\055\044\042\203 \042\257\320\252\060\267\052\037\377\145\043\130\145\223\310\216 \175\100\020\061\206\170\331\125\313\074\060\360\336\121\052\000 \066\322\047\105\137\330\350\241\041\075\176\106\126\073\051\105 \361\035\005\011\316\266\103\060\334\105\220\020\060\114\244\153 \206\213\077\075\057\061\221\161\357\046\271\366\276\235\260\154 \337\021\356\130\077\103\171\206\071\200\361\046\027\007\230\360 \231\252\060\054\103\131\024\316\355\342\100\023\205\002\003\001 $\label{eq:condition} $$ \000\01\243\143\060\141\060\016\006\003\125\035\017\001\001\377 $$$ \004\004\003\002\001\006\060\035\006\003\125\035\016\004\026\004 \024\232\316\254\052\354\001\372\145\160\336\227\235\361\322\000 \214\245\243\144\273\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\232\316\254\052\354\001\372\145\160\336\227\235\361 \322\000\214\245\243\144\273\060\015\006\011\052\206\110\206\367 \015\001\001\001\014\005\000\003\202\002\001\000\343\120\375\365\100 $\label{eq:condition} $$ \026\042\011\226\072\015\251\357\201\347\056\062\360\241\361\111 $$$ \136\173\210\015\004\162\327\276\147\250\272\035\356\120\273\162 \156\172\321\273\014\162\060\106\310\325\327\002\022\026\231\116 \036\337\132\226\356\217\221\276\256\206\370\020\167\245\304\156 \107\141\300\362\046\331\117\141\150\005\110\165\010\025\245\241 \173\325\270\263\211\171\346\355\361\363\141\000\206\173\056\061 \376\243\134\370\171\075\264\133\210\173\340\043\273\015\241\027 \372\313\150\015\230\167\161\010\342\155\103\164\153\304\066\305 \224\101\244\000\326\127\055\231\212\213\040\022\025\002\062\016 \322\111\354\201\110\305\152\047\122\327\262\163\125\123\226\074 \236\117\114\265\240\320\117\127\320\147\050\110\144\276\306\270 \272\354\144\317\310\173\305\152\347\052\346\131\127\266\326\324 \326\300\147\134\331\236\050\011\100\277\363\251\065\061\145\140 \003\313\031\154\202\225\003\036\137\077\341\275\352\111\161\345 \133\267\013\107\026\033\040\211\155\224\231\014\176\210\154\035 \015\364\267\041\032\131\227\254\313\350\276\027\037\225\174\123 \233\257\120\122\252\215\013\056\257\132\327\140\362\052\151\052 \271\356\124\160\030\252\275\365\241\077\322\335\241\143\031\000 $\label{eq:constraints} $$ 370\247\014\353\243\171\362\160\131\243\370\242\022\003\354\023\377\344\002\206\066\327\301\303\244\265\324\244\302\067\105\266\224\160\075\305\275\353\243\0025\035\343\066\172\025\151\052\126\064\071\317\245\232\066\252\310\355\171\274\317\366\316\004\123\1013\332\262\120\043\174\274\076\046\255\360\016\103\273\046\313\256\302\100\336\067\037\012\240\121\315\143\235\266\117\330\306\107\174\274\330\264\355\236\213\363\021\342\250\265\076\354\256\160\076\176\042\273\065\110\027\140\142\024\221\060\243\166\075\246\121\066\213\037\015\335\152\061\034\245\355\335\226\243\156\162\017\023\115\252\247\251\134\170\371\003\022\030\223\067\105\022\211\075\370\276\312\275\331\276\014\331\030\144\247\310\101\076\165\202\041\070\175\145\364\240\324\023\113\007\170\051\371\235\176\314\207\077\304\332\056\210\335\343\013\334\132\121\132\351\331\022\117\236\002\333\367\005\045\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 "Telekom Security SMIME RSA Root 2023"
- # Issuer: CN=Telekom Security SMIME RSA Root 2023,O=Deutsche Telekom Security GmbH,C=DE
- # Serial Number:0c:7e:62:f5:79:73:3b:9d:43:8e:8b:63:ed:91:95:b8
- # Subject: CN=Telekom Security SMIME RSA Root 2023,O=Deutsche Telekom Security GmbH,C=DE
- # Not Valid Before: Tue Mar 28 12:09:22 2023
- # Not Valid After: Fri Mar 27 23:59:59 2048
- # Fingerprint (SHA-256):
- # Fingerprint (SHA1): 89:3F:6F:1C:E2:4D:7F:FB:C3:D3:14:7A:05:80:A7:DE:E1:0A:5E:4D

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "Telekom Security SMIME RSA Root 2023"

CKA_CERT_SHA1_HASH

MULTILINE OCTAL

\211\077\157\034\342\115\177\373\303\323\024\172\005\200\247\336 \341\012\136\115

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL

\353\335\044\371\050\017\243\302\303\156\012\077\320\303\015\033

END

CKA_ISSUER MULTILINE_OCTAL

 $\label{eq:condition} $$ \000145\001\006\003\125\004\006\023\002\104\105\061\047\060\045\006\003\125\004\012\014\036\104\145\165\164\163\143\150\145\040\124\145\154\145\153\157\155\040\123\145\143\165\162\151\164\171\040\107\155\142\110\061\055\060\053\006\003\125\004\003\014\044\124\145\154\145\153\157\155\040\123\145\143\165\162$

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\151\164\171\040\123\115\111\115\105\040\122\123\101\040\122\157
\157\164\040\062\060\062\063
END
CKA SERIAL NUMBER MULTILINE OCTAL
\label{eq:condition} $$ \002\020\014\176\142\365\171\163\073\235\103\216\213\143\355\221 $$
\225\270
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 "Telekom Security TLS RSA Root 2023"
# Issuer: CN=Telekom Security TLS RSA Root 2023,O=Deutsche Telekom Security GmbH,C=DE
# Serial Number:21:9c:54:2d:e8:f6:ec:71:77:fa:4e:e8:c3:70:57:97
# Subject: CN=Telekom Security TLS RSA Root 2023,O=Deutsche Telekom Security GmbH,C=DE
# Not Valid Before: Tue Mar 28 12:16:45 2023
# Not Valid After: Fri Mar 27 23:59:59 2048
# Fingerprint (SHA-256):
EF:C6:5C:AD:BB:59:AD:B6:EF:E8:4D:A2:23:11:B3:56:24:B7:1B:3B:1E:A0:DA:8B:66:55:17:4E:C8:97:86:46
# Fingerprint (SHA1): 54:D3:AC:B3:BD:57:56:F6:85:9D:CE:E5:C3:21:E2:D4:AD:83:D0:93
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA TOKEN CK BBOOL CK TRUE
CKA PRIVATE CK BBOOL CK FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA LABEL UTF8 "Telekom Security TLS RSA Root 2023"
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\104\105\061
\047\060\045\006\003\125\004\012\014\036\104\145\165\164\163\143
\150\145\040\124\145\154\145\153\157\155\040\123\145\143\165\162
\151\164\171\040\107\155\142\110\061\053\060\051\006\003\125\004
\003\014\042\124\145\154\145\153\157\155\040\123\145\143\165\162
\151\164\171\040\124\114\123\040\122\123\101\040\122\157\157\164
\040\062\060\062\063
END
CKA_ID
UTF8 "0"
CKA ISSUER MULTILINE OCTAL
\060\143\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\047\060\045\006\003\125\004\012\014\036\104\145\165\164\163\143
\150\145\040\124\145\154\145\153\157\155\040\123\145\143\165\162
\151\164\171\040\107\155\142\110\061\053\060\051\006\003\125\004
\003\014\042\124\145\154\145\153\157\155\040\123\145\143\165\162
\151\164\171\040\124\114\123\040\122\123\101\040\122\157\157\164
```

\040\062\060\062\063

END

CKA SERIAL NUMBER MULTILINE OCTAL

\002\020\041\234\124\055\350\366\354\161\167\372\116\350\303\160 \127\227

END

CKA VALUE MULTILINE OCTAL

\060\202\005\263\060\202\003\233\240\003\002\001\002\002\020\041 \234\124\055\350\366\354\161\167\372\116\350\303\160\127\227\060 \015\006\011\052\206\110\206\367\015\001\001\014\005\000\060\143 \061\013\060\011\006\003\125\004\006\023\002\104\105\061\047\060 $\\ \\045\\ \\006\\ \\003\\ \\125\\ \\004\\ \\012\\ \\014\\ \\036\\ \\104\\ \\145\\ \\165\\ \\164\\ \\163\\ \\143\\ \\150\\ \\145$ \040\124\145\154\145\153\157\155\040\123\145\143\165\162\151\164 \171\040\107\155\142\110\061\053\060\051\006\003\125\004\003\014 $\\ \\ 042\\124\\145\\154\\145\\153\\157\\155\\040\\123\\145\\143\\165\\162\\151\\164$ \171\040\124\114\123\040\122\123\101\040\122\157\157\164\040\062 $\label{eq:condition} $$ \060\062\063\060\036\027\015\062\063\060\063\062\070\061\062\061$ \066\064\065\132\027\015\064\070\060\063\062\067\062\063\065\071 \065\071\132\060\143\061\013\060\011\006\003\125\004\006\023\002 \164\163\143\150\145\040\124\145\154\145\153\157\155\040\123\145 \143\165\162\151\164\171\040\107\155\142\110\061\053\060\051\006 $\\ \\003\\125\\004\\003\\014\\042\\124\\145\\154\\145\\153\\157\\155\\040\\123\\145$ \143\165\162\151\164\171\040\124\114\123\040\122\123\101\040\122 \157\157\164\040\062\060\062\063\060\202\002\042\060\015\006\011 \052\206\110\206\367\015\001\001\001\005\000\003\202\002\017\000 \060\202\002\012\002\202\002\001\000\355\065\241\201\200\363\313 \112\151\133\302\373\121\203\256\046\375\341\156\363\201\022\175 \161\100\377\207\165\102\051\041\355\201\122\054\337\022\301\031 \204\211\301\275\305\050\325\325\113\154\104\326\114\333\007\226 $\label{eq:condition} $$ \frac{112\\125\\172\\312\\066\\202\\004\\066\\250\\245\\374\\047\\366\\111\\361\\325$ \162\236\221\371\043\326\160\173\273\365\233\301\354\223\317\031 \352\145\176\210\160\240\163\374\366\377\265\126\142\341\163\152 \064\230\076\202\270\254\225\123\364\001\240\047\007\162\243\000 \123\240\344\262\253\203\070\127\063\045\224\237\276\110\035\230 \341\243\272\236\134\315\004\161\121\175\165\170\253\363\131\252 \304\340\140\276\217\203\122\270\165\032\101\065\355\274\363\072 \143\351\251\024\105\327\346\122\321\156\322\336\274\343\365\013 \073\346\340\304\275\103\144\023\246\316\364\230\067\154\212\225 \250\227\310\107\017\360\136\020\213\347\035\034\376\261\073\240 \005\063\150\005\101\202\301\003\053\001\310\347\217\115\253\350 \265\366\315\153\104\265\347\335\213\354\352\045\264\000\042\127 \115\260\261\262\061\301\026\316\377\375\024\204\267\107\372\262 \361\160\336\333\213\154\066\130\244\174\263\021\321\303\167\177 \137\266\045\340\015\305\322\263\371\270\270\167\333\067\161\161 \107\343\140\030\117\044\266\165\067\170\271\243\142\257\275\311 \162\216\057\314\273\256\333\344\025\122\031\007\063\373\152\267 \055\113\220\050\202\163\376\030\213\065\215\333\247\004\152\276

\352\301\115\066\073\026\066\221\062\357\266\100\211\221\103\340 \362\242\253\004\056\346\362\114\016\026\064\040\254\207\301\055 \176\311\146\107\027\024\021\244\363\367\241\044\211\253\330\032 $\label{eq:condition} $$ \frac{310}{241}134 \frac{261}{243}\frac{367}{214}155\frac{310}{001}\frac{311}{117}\frac{311}{354}\frac{304}{374} $$$ \254\121\063\321\310\203\321\311\237\035\324\107\064\051\076\313 \260\016\372\203\013\050\130\345\051\334\077\174\250\237\311\266 \012\273\246\350\106\026\017\226\345\173\344\152\172\110\155\166 \230\005\245\334\155\036\102\036\102\332\032\340\122\367\265\203 $\label{eq:condition} $$ \300\032\173\170\065\054\070\365\037\375\111\243\056\322\131\143$ \277\200\260\214\223\163\313\065\246\231\225\042\141\145\003\140 \373\057\223\113\372\232\234\200\073\002\003\001\000\001\243\143 $\label{eq:condition} $$ \000\141\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\266\247\227 $\label{eq:condition} $$ \202\075\164\205\233\367\074\237\223\232\225\171\165\122\214\155$$ $\label{eq:condition} $$ 107 \cdot 060 \cdot 017 \cdot 006 \cdot 003 \cdot 125 \cdot 035 \cdot 023 \cdot 001 \cdot 001 \cdot 377 \cdot 004 \cdot 005 \cdot 060 \cdot 003 \cdot 001$ \001\377\060\037\006\003\125\035\043\004\030\060\026\200\024\266 $\label{eq:condition} $$ \247\227\202\075\164\205\233\367\074\237\223\232\225\171\165\122 $$$ \214\155\107\060\015\006\011\052\206\110\206\367\015\001\001\014 \005\000\003\202\002\001\000\250\314\141\246\276\165\236\025\120 \244\153\373\250\160\105\174\272\176\261\132\374\133\043\372\012 \167\370\230\161\202\014\155\340\136\106\252\223\364\036\240\303 \341\223\333\113\255\262\246\135\253\260\324\142\313\136\273\146 $\label{eq:condition} $$ \365\05356\227\100\074\142\353\136\326\024\326\214\342\226\213$ \101\151\223\065\346\271\231\153\142\264\241\027\146\064\246\153 \143\306\271\116\362\042\351\130\015\126\101\321\372\014\112\360 \063\315\073\273\155\041\072\256\216\162\265\303\112\373\351\175 \345\261\233\206\356\342\340\175\264\367\062\375\042\204\361\205 $\label{eq:condition} $$ \frac{311}067\\171\\351\\265\\077\\277\\134\\344\\164\\262\\217\\021\\142\\000\\335$ \030\146\241\331\173\043\137\361\216\325\147\350\124\332\133\072 \153\066\157\371\201\261\063\107\063\167\100\371\122\252\335\324 $\label{eq:condition} $$ \203\317\205\170\231\232\223\271\163\147\102\106\021\041\352\376$$ \012\251\033\032\145\151\263\217\256\026\266\366\113\126\262\055 \371\245\310\354\073\142\243\355\153\320\116\325\100\011\244\037 \230\327\072\245\222\131\040\344\260\175\315\133\163\150\275\155 \304\242\023\016\147\031\270\215\102\176\154\014\232\156\240\044 \055\325\105\033\334\304\002\024\376\205\133\145\227\312\116\220 \120\010\172\102\065\371\352\302\146\324\370\001\256\036\264\276 \303\250\357\376\166\232\242\246\037\106\366\204\355\374\333\316 \304\002\316\167\110\054\214\262\354\303\000\243\354\054\125\030 \301\176\031\356\341\057\362\255\203\233\236\253\031\337\306\212 \057\214\167\345\267\005\354\073\301\354\276\206\263\206\274\300 \367\334\347\352\133\256\262\314\265\065\206\113\320\342\077\266 \330\370\016\000\356\135\343\367\215\130\377\317\213\067\351\143 \137\156\367\011\161\066\302\022\135\127\362\310\264\315\363\356 $\label{eq:condition} $$ \002\337\021\334\152\271\127\204\035\131\115\214\316\310\016\043$ \302\267\046\232\020\024\161\376\223\262\212\270\200\360\016\020 \236\323\250\120\014\067\202\057\352\340\212\235\341\054\071\377 \265\264\163\000\344\367\110\246\163\254\277\262\336\167\004\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 "Telekom Security TLS RSA Root

2023"

- # Issuer: CN=Telekom Security TLS RSA Root 2023,O=Deutsche Telekom Security GmbH,C=DE
- # Serial Number:21:9c:54:2d:e8:f6:ec:71:77:fa:4e:e8:c3:70:57:97
- # Subject: CN=Telekom Security TLS RSA Root 2023,O=Deutsche Telekom Security GmbH,C=DE
- # Not Valid Before: Tue Mar 28 12:16:45 2023
- # Not Valid After: Fri Mar 27 23:59:59 2048
- # Fingerprint (SHA-256):

EF:C6:5C:AD:BB:59:AD:B6:EF:E8:4D:A2:23:11:B3:56:24:B7:1B:3B:1E:A0:DA:8B:66:55:17:4E:C8:97:86:46

Fingerprint (SHA1): 54:D3:AC:B3:BD:57:56:F6:85:9D:CE:E5:C3:21:E2:D4:AD:83:D0:93

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

CKA TOKEN CK BBOOL CK TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA LABEL UTF8 "Telekom Security TLS RSA Root 2023"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL

\124\323\254\263\275\127\126\366\205\235\316\345\303\041\342\324

\255\203\320\223

END

CKA CERT MD5 HASH MULTILINE OCTAL

\277\133\353\124\100\315\110\161\304\040\215\175\336\012\102\362

END

CKA_ISSUER MULTILINE_OCTAL

 $\label{eq:condition} $$ \060\143\061\013\060\011\006\003\125\004\006\023\002\104\105\061 $$$

 $\\ \\047\\060\\045\\006\\003\\125\\004\\012\\014\\036\\104\\145\\165\\164\\163\\143$

\150\145\040\124\145\154\145\153\157\155\040\123\145\143\165\162

\151\164\171\040\107\155\142\110\061\053\060\051\006\003\125\004

 $\\ \\003\\014\\042\\124\\145\\154\\145\\153\\157\\155\\040\\123\\145\\143\\165\\162$

\151\164\171\040\124\114\123\040\122\123\101\040\122\157\157\164

 $040\062\060\062\063$

END

CKA_SERIAL_NUMBER

MULTILINE OCTAL

\002\020\041\234\124\055\350\366\354\161\167\372\116\350\303\160

\127\227

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 "FIRMAPROFESIONAL CA ROOT-A WEB"
# Issuer: CN=FIRMAPROFESIONAL CA ROOT-A WEB,OID.2.5.4.97=VATES-A62634068,O=Firmaprofesional
SA,C=ES
# Serial Number:31:97:21:ed:af:89:42:7f:35:41:87:a1:67:56:4c:6d
# Subject: CN=FIRMAPROFESIONAL CA ROOT-A WEB,OID.2.5.4.97=VATES-
A62634068,O=Firmaprofesional
SA,C=ES
# Not Valid Before: Wed Apr 06 09:01:36 2022
# Not Valid After: Sun Mar 31 09:01:36 2047
# Fingerprint (SHA-256):
BE:F2:56:DA:F2:6E:9C:69:BD:EC:16:02:35:97:98:F3:CA:F7:18:21:A0:3E:01:82:57:C5:3C:65:61:7F:3D:4A
# Fingerprint (SHA1): A8:31:11:74:A6:14:15:0D:CA:77:DD:0E:E4:0C:5D:58:FC:A0:72: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 "FIRMAPROFESIONAL CA ROOT-A WEB"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\156\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\label{eq:condition} $$ \034\060\032\006\003\125\004\012\014\023\106\151\162\155\141\160 $$
\162\157\146\145\163\151\157\156\141\154\040\123\101\061\030\060
\026\006\003\125\004\141\014\017\126\101\124\105\123\055\101\066
\label{eq:condition} $$ \062\066\063\064\060\066\070\061\047\060\045\006\003\125\004\003
\014\036\106\111\122\115\101\120\122\117\106\105\123\111\117\116
\101\114\040\103\101\040\122\117\117\124\055\101\040\127\105\102
END
CKA ID
UTF8 "0"
CKA ISSUER MULTILINE OCTAL
\060\156\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\034\060\032\006\003\125\004\012\014\023\106\151\162\155\141\160
\162\157\146\145\163\151\157\156\141\154\040\123\101\061\030\060
\\ \begin{tabular}{l} $$ \006\003\125\004\141\014\017\126\101\124\105\123\055\101\066 \end{tabular}
\label{eq:condition} $$ \062\066\063\064\060\066\070\061\047\060\045\006\003\125\004\003
```

 $\\ \\014\\\\036\\\\106\\\\111\\\\122\\\\115\\\\101\\\\120\\\\122\\\\117\\\\106\\\\105\\\\123\\\\111\\\\117\\\\116$ \101\114\040\103\101\040\122\117\117\124\055\101\040\127\105\102 **END**

CKA_SERIAL_NUMBER MULTILINE_OCTAL

\002\020\061\227\041\355\257\211\102\177\065\101\207\241\147\126 \114\155

END

CKA_VALUE MULTILINE_OCTAL

\060\202\002\172\060\202\002\000\240\003\002\001\002\002\020\061

\227\041\355\257\211\102\177\065\101\207\241\147\126\114\155\060 \012\006\010\052\206\110\316\075\004\003\003\060\156\061\013\060 \011\006\003\125\004\006\023\002\105\123\061\034\060\032\006\003 \125\004\012\014\023\106\151\162\155\141\160\162\157\146\145\163 \151\157\156\141\154\040\123\101\061\030\060\026\006\003\125\004 \141\014\017\126\101\124\105\123\055\101\066\062\066\063\064\060 \066\070\061\047\060\045\006\003\125\004\003\014\036\106\111\122 \040\122\117\117\124\055\101\040\127\105\102\060\036\027\015\062 \062\060\064\060\066\060\071\060\061\063\066\132\027\015\064\067 $\label{eq:condition} $$ \060\063\066\063\066\132\060\156\061\013\060 $$$ $\label{eq:condition} $$ \004\003\125\004\006\023\002\105\123\061\034\060\032\006\003$ \125\004\012\014\023\106\151\162\155\141\160\162\157\146\145\163 \151\157\156\141\154\040\123\101\061\030\060\026\006\003\125\004 \141\014\017\126\101\124\105\123\055\101\066\062\066\063\064\060 \066\070\061\047\060\045\006\003\125\004\003\014\036\106\111\122 \040\122\117\117\124\055\101\040\127\105\102\060\166\060\020\006 \007\052\206\110\316\075\002\001\006\005\053\201\004\000\042\003 \142\000\004\107\123\352\054\021\244\167\307\052\352\363\326\137 \173\323\004\221\134\372\210\306\042\271\203\020\142\167\204\063 \055\351\003\210\324\340\063\367\355\167\054\112\140\352\344\157 $\label{eq:condition} $$ \frac{35}{155} 264 370 114 212 244 344 037 312 352 117 070 112 056 202$ \163\053\307\146\233\012\214\100\234\174\212\366\362\071\140\262 \336\313\354\270\344\157\352\233\135\267\123\220\030\062\125\305 \040\267\224\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 $\label{eq:condition} $$ \030\060\026\200\024\223\341\103\143\134\074\235\326\047\363\122 $$$ \354\027\262\251\257\054\367\166\370\060\035\006\003\125\035\016 \004\026\004\024\223\341\103\143\134\074\235\326\047\363\122\354 $\label{eq:condition} $$ \027\262\251\257\054\367\166\370\060\016\006\003\125\035\017\001 $$$ \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\035\174\244\173\303 \211\165\063\341\073\251\105\277\106\351\351\241\335\311\042\026 \267\107\021\013\330\232\272\361\310\013\160\120\123\002\221\160 \205\131\251\036\244\346\352\043\061\240\000\002\061\000\375\342 \370\263\257\026\271\036\163\304\226\343\301\060\031\330\176\346 \303\227\336\034\117\270\211\057\063\353\110\017\031\367\207\106 \135\046\220\245\205\305\271\172\224\076\207\250\275\000

END

CKA_NSS_MOZILLA_CA_POLICY

CK BBOOL CK TRUE

CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

[#] Trust for "FIRMAPROFESIONAL CA ROOT-A WEB"

 $[\]hbox{\# Issuer: CN=FIRMAPROFESIONAL CA ROOT-A WEB,OID.2.5.4.97=VATES-A62634068,O=Firmaprofesional SA.C=ES } \\$

```
A62634068,O=Firmaprofesional SA,C=ES
# Not Valid Before: Wed Apr 06 09:01:36 2022
# Not Valid After: Sun Mar 31 09:01:36 2047
# Fingerprint (SHA-256):
BE:F2:56:DA:F2:6E:9C:69:BD:EC:16:02:35:97:98:F3:CA:F7:18:21:A0:3E:01:82:57:C5:3C:65:61:7F:3D:4A
# Fingerprint (SHA1): A8:31:11:74:A6:14:15:0D:CA:77:DD:0E:E4:0C:5D:58:FC:A0:72: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 "FIRMAPROFESIONAL CA ROOT-A WEB"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\250\061\021\164\246\024\025\015\312\167\335\016\344\014\135\130
\374\240\162\245
END
CKA CERT MD5 HASH MULTILINE OCTAL
\202\262\255\105\000\202\260\146\143\370\137\303\147\116\316\243
END
CKA ISSUER MULTILINE OCTAL
\label{eq:condition} $$ \060\156\061\013\060\011\006\003\125\004\006\023\002\105\123\061 $$
\034\060\032\006\003\125\004\012\014\023\106\151\162\155\141\160
\162\157\146\145\163\151\157\156\141\154\040\123\101\061\030\060
\026\006\003\125\004\141\014\017\126\101\124\105\123\055\101\066
\062\066\063\064\060\066\070\061\047\060\045\006\003\125\004\003
\101\114\040\103\101\040\122\117\117\124\055\101\040\127\105\102
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\label{eq:condition} $$ \002\020\061\227\041\355\257\211\102\177\065\101\207\241\147\126 $$
\114\155
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 "TWCA CYBER Root CA"
# Issuer: CN=TWCA CYBER Root CA,OU=Root CA,O=TAIWAN-CA,C=TW
# Serial Number:40:01:34:8c:c2:00:00:00:00:00:00:00:01:3c:f2:c6
# Subject: CN=TWCA CYBER Root CA,OU=Root CA,O=TAIWAN-CA,C=TW
# Not Valid Before: Tue Nov 22 06:54:29 2022
# Not Valid After: Fri Nov 22 15:59:59 2047
```

Serial Number:31:97:21:ed:af:89:42:7f:35:41:87:a1:67:56:4c:6d

Subject: CN=FIRMAPROFESIONAL CA ROOT-A WEB,OID.2.5.4.97=VATES-

Fingerprint (SHA-256):

3F:63:BB:28:14:BE:17:4E:C8:B6:43:9C:F0:8D:6D:56:F0:B7:C4:05:88:3A:56:48:A3:34:42:4D:6B:3E:C5:58

Fingerprint (SHA1): F6:B1:1C:1A:83:38:E9:7B:DB:B3:A8:C8:33:24:E0:2D:9C:7F:26:66

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 "TWCA CYBER Root CA"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA SUBJECT MULTILINE OCTAL

 $\label{eq:condition} $$ \000120\061\013\060\011\006\003\125\004\006\023\002\124\127\061\022\060\020\060\03\125\004\012\123\011\124\101\111\127\101\116\055\103\101\061\020\060\016\0006\003\125\0004\013\023\007\122\157\157\164\040\103\101\061\033\060\031\006\003\125\0004\003\023\022\124\127\103\101\040\103\131\102\105\122\040\122\157\157\164\040\103\101$

END

CKA ID

UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

 $\label{eq:condition} $$ \000120\001\006\003\125\004\0006\023\002\124\127\006\002\0006\003\125\004\012\023\011\124\101\111\127\101\116\0055\103\101\006\003\125\0004\013\0023\007\122\157\157\164\004\013\101\006\003\125\0004\003\125\0004\003\023\022\124\127\103\101\004\103\131\102\105\122\004\122\157\157\164\040\103\101$

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

END

CKA_VALUE MULTILINE_OCTAL

\060\202\005\215\060\202\003\165\240\003\002\001\002\002\002\100 \001\064\214\302\000\000\000\000\000\000\000\000\001\074\362\306\060 \015\006\011\052\206\110\206\367\015\001\001\014\005\000\060\120 \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 $\label{eq:condition} $$ \040\103\101\061\033\060\031\006\003\125\004\003\023\022\124\127 $$$ \060\036\027\015\062\062\061\061\062\062\060\066\065\064\062\071 \060\120\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\033\060\031\006\003\125\004\003\023\022 \124\127\103\101\040\103\131\102\105\122\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\306\370\312\036\331\011\040\176\035\154\116\316\217 \343\107\063\104\234\307\311\151\252\072\133\170\356\160\322\222 \370\004\263\122\122\035\147\162\050\241\337\213\135\225\012\376 \352\315\355\367\051\316\360\157\177\254\315\075\357\263\034\105 \152\367\050\220\361\141\127\305\014\304\243\120\135\336\324\265 \313\031\312\200\271\165\316\051\316\322\205\042\354\002\143\314 \104\060\040\332\352\221\133\126\346\035\034\325\235\146\307\077 \337\206\312\113\123\304\331\215\262\035\352\370\334\047\123\243 \107\341\141\314\175\265\260\370\356\163\221\305\316\163\157\316 \356\020\037\032\006\317\351\047\140\305\117\031\344\353\316\042 $\\ \langle 046 \rangle 105 \rangle 327 \rangle 140 \rangle 231 \rangle 335 \rangle 316 \rangle 117 \rangle 067 \rangle 340 \rangle 177 \rangle 347 \rangle 143 \rangle 255 \rangle 260 \rangle 270$ \131\270\320\006\150\065\140\323\066\256\161\103\004\361\151\145 \170\174\363\037\363\312\050\237\132\040\225\146\264\315\267\356 \217\170\244\105\030\351\046\057\215\233\051\050\261\244\267\072 \155\271\324\034\070\162\105\130\261\136\353\360\050\233\267\202 \312\375\317\326\063\017\237\373\227\236\261\034\234\236\352\137 \136\333\252\335\124\351\060\041\050\155\216\171\363\165\222\214 \046\376\334\305\366\303\260\337\104\131\103\243\266\003\050\366 $\label{eq:condition} $$ \010\060\252\015\063\341\357\234\251\007\042\343\131\133\100\217 $$$ \332\210\267\151\010\250\267\043\056\104\011\131\067\133\307\343 \027\362\042\353\156\071\122\305\336\124\247\230\311\113\040\225 $\label{eq:condition} $$ 34\106\211\137\264\022\371\205\051\216\353\310\047\025\040\300$$ \113\324\314\174\014\154\064\014\046\233\046\061\246\074\247\366 \331\320\113\242\144\377\073\231\101\162\301\340\160\227\361\044 \273\053\304\164\042\261\254\153\042\062\044\323\170\052\300\300 \241\057\361\122\005\311\077\357\166\146\342\105\330\015\075\255 \225\310\307\211\046\310\017\256\247\003\056\373\301\137\372\040 \341\160\255\260\145\040\067\063\140\260\325\257\327\014\034\302 \220\160\327\112\030\274\176\001\260\260\353\025\036\104\006\315 $\verb|244|117|350|014|321|303|040|020|341|124|145|236|266|121|320|032|$ \166\153\102\132\130\166\064\352\267\067\031\256\056\165\371\226 \345\301\131\367\224\127\051\045\215\072\114\253\115\232\101\320 \137\046\003\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\037\006 \003\125\035\043\004\030\060\026\200\024\235\205\141\024\174\301 \142\157\227\150\344\117\067\100\341\255\340\015\126\067\060\035 $\label{eq:condition} $$ \006\003\125\035\016\004\026\004\024\235\205\141\024\174\301\142 $$$ \157\227\150\344\117\067\100\341\255\340\015\126\067\060\015\006 \011\052\206\110\206\367\015\001\001\014\005\000\003\202\002\001 $\label{eq:condition} $$ \000\144\217\172\304\142\016\265\210\314\270\307\206\016\241\112 $$$ $\label{eq:condition} $$ \026\315\160\013\267\247\205\013\263\166\266\017\247\377\010\213$ \013\045\317\250\324\203\165\052\270\226\210\266\373\337\055\055 \264\151\123\041\065\127\326\211\115\163\277\151\217\160\243\141 \314\232\333\036\232\340\040\370\154\273\233\042\235\135\204\061 \232\054\212\335\152\241\327\050\151\312\376\166\125\172\106\147 \353\314\103\210\026\242\003\326\271\027\370\031\154\155\043\002

\177\361\137\320\012\051\043\073\321\252\012\355\251\027\046\124 \012\115\302\245\115\370\305\375\270\201\317\053\054\170\243\147 \114\251\007\232\363\337\136\373\174\365\211\315\164\227\141\020 \152\007\053\201\132\322\216\267\347\040\321\040\156\044\250\204 $\\ \\ \langle 047 \rangle 241 \rangle 127 \rangle 254 \rangle 252 \rangle 125 \rangle 130 \rangle 057 \rangle 334 \rangle 331 \rangle 312 \rangle 372 \rangle 150 \rangle 004 \rangle 236 \rangle 355$ $\label{eq:condition} $$ 104\044\371\164\100\073\043\063\253\203\132\030\046\102\266\155$$ \124\265\026\140\060\154\261\240\370\270\101\240\135\111\111\322 \145\005\072\352\376\235\141\274\206\331\277\336\323\272\072\261 \177\176\222\064\216\311\000\156\334\230\275\334\354\200\005\255 \002\075\337\145\355\013\003\367\367\026\204\004\061\272\223\224 \330\362\022\370\212\343\277\102\257\247\324\315\021\027\026\310 $\label{eq:condition} $$ 102\035\024\250\102\366\322\100\206\240\117\043\312\226\105\126$ \140\006\315\267\125\001\246\001\224\145\376\156\005\011\272\264 \244\252\342\357\130\276\275\047\126\330\357\163\161\133\104\063 \362\232\162\352\260\136\076\156\251\122\133\354\160\155\265\207 \217\067\136\074\214\234\316\344\360\316\014\147\101\314\316\366 \200\253\116\314\114\126\365\301\141\131\223\264\076\246\332\270 \067\022\237\052\062\343\213\270\041\354\303\053\145\014\357\042 $\label{eq:condition} $$ \36\210\051\073\114\327\372\376\267\341\107\276\234\076\076\203$ \373\121\135\365\150\367\056\041\205\334\277\361\132\342\174\327 \305\344\203\301\152\353\272\200\132\336\134\055\160\166\370\310 \345\207\207\312\240\235\241\345\042\022\047\017\104\075\035\154 $\label{eq:condition} $$32\324\302\213\057\157\171\253\177\120\246\304\031\247\241\172$ \267\226\371\301\037\142\132\242\103\007\100\136\046\306\254\355 $\verb|256|160|026|305|252|312|162|212|115|260|317|001|213|003|077|156|$ \327

END

CKA_NSS_MOZILLA_CA_POLICY

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 CYBER Root CA"
```

Issuer: CN=TWCA CYBER Root CA,OU=Root CA,O=TAIWAN-CA,C=TW

Serial Number:40:01:34:8c:c2:00:00:00:00:00:00:00:01:3c:f2:c6

Subject: CN=TWCA CYBER Root CA,OU=Root

CA,O=TAIWAN-CA,C=TW

Not Valid Before: Tue Nov 22 06:54:29 2022 # Not Valid After : Fri Nov 22 15:59:59 2047

Fingerprint (SHA-256):

3F:63:BB:28:14:BE:17:4E:C8:B6:43:9C:F0:8D:6D:56:F0:B7:C4:05:88:3A:56:48:A3:34:42:4D:6B:3E:C5:58

Fingerprint (SHA1): F6:B1:1C:1A:83:38:E9:7B:DB:B3:A8:C8:33:24:E0:2D:9C:7F:26:66

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 "TWCA CYBER Root CA"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL

```
\366\261\034\032\203\070\351\173\333\263\250\310\063\044\340\055
\234\177\046\146
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\label{eq:condition} $$ \013\063\240\227\122\225\324\251\375\273\333\156\243\125\133\121 $$
END
CKA ISSUER MULTILINE OCTAL
\060\120\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\033\060\031\006\003\125\004\003\023\022
\103\101
END
CKA_SERIAL_NUMBER
MULTILINE OCTAL
\362\306
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA TRUST EMAIL PROTECTION CK TRUST CKT NSS MUST VERIFY TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
# Certificate "TWCA Global Root CA G2"
# Issuer: CN=TWCA Global Root CA G2,OU=Root CA,O=TAIWAN-CA,C=TW
# Serial Number:40:01:34:8c:c2:00:00:00:00:00:00:00:01:97:58:f4
# Subject: CN=TWCA Global Root CA G2,OU=Root CA,O=TAIWAN-CA,C=TW
# Not Valid Before: Tue Nov 22 06:42:21 2022
# Not Valid After: Fri Nov 22 15:59:59 2047
# Fingerprint (SHA-256):
3A:00:72:D4:9F:FC:04:E9:96:C5:9A:EB:75:99:1D:3C:34:0F:36:15:D6:FD:4D:CE:90:AC:0B:3D:88:EA:D4:F4
# Fingerprint (SHA1): 73:FE:92:2F:83:63:91:FF:C8:C6:C4:DA:D6:20:2F:6B:07:2E:7F: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 "TWCA Global Root CA G2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\124\061\013\060\011\006\003\125\004\006\023\002\124\127\061
\label{eq:condition} $$ \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\037\060\035\006\003\125\004\003\023\026
\124\127\103\101\040\107\154\157\142\141\154\040\122\157\157\164
```

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

END

CKA ID UTF8 "0"

CKA ISSUER MULTILINE OCTAL

 $\label{eq:condition} $$ \000\124\001\006\003\125\004\0006\023\002\124\127\006\002\0006\003\125\004\012\023\011\124\101\111\127\101\116\0055\103\101\006\0006\0003\125\0004\013\0023\007\122\157\157\164\040\103\101\006\003\1006\003\125\0004\003\0023\0026\0124\127\103\101\040\107\154\157\142\141\154\040\122\157\157\164\040\103\101\0040\107\062$

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

END

CKA VALUE

MULTILINE OCTAL

\060\202\005\225\060\202\003\175\240\003\002\001\002\002\002\100 \001\064\214\302\000\000\000\000\000\000\000\000\001\227\130\364\060 $\label{eq:condition} $$ \0.015\0.06\0.01\0.05\2.206\1.10\2.06\3.67\0.05\0.01\0.01\0.01\0.01\0.05\0.00\0.060\1.24$ \061\013\060\011\006\003\125\004\006\023\002\124\127\061\022\060 \020\006\003\125\004\012\023\011\124\101\111\127\101\116\055\103 $\label{eq:condition} $$ 101\061\020\060\016\006\003\125\004\013\023\007\122\157\157\164 $$$ \040\103\101\061\037\060\035\006\003\125\004\003\023\026\124\127 \103\101\040\107\154\157\142\141\154\040\122\157\157\164\040\103 \101\040\107\062\060\036\027\015\062\062\061\061\062\062\060\066 \064\062\062\061\132\027\015\064\067\061\061\062\062\061\065\065 \071\065\071\132\060\124\061\013\060\011\006\003\125\004\006\023 \002\124\127\061\022\060\020\006\003\125\004\012\023\011\124\101 \111\127\101\116\055\103\101\061\020\060\016\006\003\125\004\013 $\label{eq:condition} $$ \023\007\122\157\157\164\040\103\101\061\037\060\035\006\003\125$ \004\003\023\026\124\127\103\101\040\107\154\157\142\141\154\040 \122\157\157\164\040\103\101\040\107\062\060\202\002\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\252\016\325\040\222 \001\255\202\371\014\010\221\064\153\212\026\320\106\026\377\003 \270\330\215\352\223\064\373\377\053\275\375\156\252\334\233\362 \206\201\125\365\211\034\304\215\165\152\130\170\221\023\036\002 $\label{eq:condition} $$ \023\160\075\357\276\012\347\000\217\270\061\345\164\305\060\276$ \377\175\326\231\345\302\102\243\317\041\326\263\010\177\221\325 \141\346\242\225\020\015\357\136\227\013\111\070\325\042\260\327 \213\131\157\237\065\233\177\322\221\314\172\177\273\240\237\336 \125\063\366\113\215\012\352\175\011\300\171\334\275\104\342\376 \034\347\144\041\050\317\004\112\342\264\277\206\171\052\273\016 \223\311\217\136\254\060\071\122\220\007\271\352\234\046\102\024 \304\147\106\376\321\032\150\241\076\120\031\243\046\012\047\051 \220\302\366\264\353\163\232\170\036\341\230\364\145\014\065\041 \006\370\013\336\142\345\115\301\263\135\331\271\372\141\227\052

\343\352\307\104\125\044\222\376\022\247\077\304\167\340\055\002 \201\007\325\373\175\346\020\236\072\264\250\357\354\373\120\352 \065\317\314\176\273\102\271\104\154\122\351\277\052\162\037\077 \336\233\160\351\334\132\305\073\277\360\131\205\257\057\301 \260\024\171\005\254\165\237\045\365\021\047\006\140\041\307\155 \145\276\250\211\234\345\254\106\337\370\135\104\003\215\140\275 \367\261\015\314\057\357\101\124\057\356\153\225\271\116\174\064 \337\073\371\167\235\175\315\007\075\034\006\063\022\200\354\162 \234\362\055\202\332\325\073\304\307\371\004\303\144\002\174\365 \065\140\247\264\106\051\056\033\357\245\130\200\056\172\211\121 \070\066\074\375\241\167\270\200\060\320\212\336\215\247\064\046 \354\043\273\030\125\030\066\105\356\355\001\006\252\115\277\144 \014\312\230\227\032\061\002\146\370\170\150\133\210\337\011\250 \347\233\372\064\155\160\034\041\255\010\213\362\241\266\254\166 $\label{eq:condition} $$ \frac{152}277\361\200\045\000\276\074\036\115\256\271\074\266\225\143}{256}$$ \275\153\176\107\022\220\125\105\021\215\354\027\037\301\276\047 $\label{eq:condition} $$ \201\223\127\143\151\000\046\167\213\303\131\345\173\321\015\104$ \362\250\360\367\205\232\005\367\302\056\160\232\223\205\330\225 \220\061\220\124\246\354\013\237\067\105\017\002\003\001\000\001 $\label{eq:condition} $$ 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\037\006\003\125\035\043\004\030\060\026 $\label{eq:condition} $$ \200\024\222\214\324\066\321\133\107\123\304\161\015\204\335\144$$ \052\365\066\144\100\347\060\035\006\003\125\035\016\004\026\004 \024\222\214\324\066\321\133\107\123\304\161\015\204\335\144\052 \365\066\144\100\347\060\015\006\011\052\206\110\206\367\015\001 \001\014\005\000\003\202\002\001\000\045\374\113\332\220\264\332 $\label{eq:condition} $$ 165\347\101\072\201\321\246\376\240\152\363\030\161\142\152\044 $$$ \010\213\251\172\115\311\125\316\317\020\050\056\004\031\226\005 \317\135\002\040\052\073\263\125\077\001\315\102\315\262\167\355 $\label{eq:condition} $$ 377\165\363\174\167\333\226\245\317\214\147\006\364\244\233\162 $$$ \366\041\111\011\230\243\062\136\167\132\143\011\357\142\103\227 \002\070\265\352\074\030\120\150\374\131\133\331\171\324\361\344 \126\110\023\126\330\323\161\013\136\170\224\070\021\105\372\005 \027\365\016\165\036\142\122\141\106\272\056\031\255\206\264\210 \017\261\120\346\100\000\064\032\225\235\223\340\121\371\324\125 \106\351\225\074\045\206\056\227\327\001\061\030\104\354\034\140 \351\175\151\257\062\370\227\100\045\044\266\215\032\125\074\305 $\label{eq:condition} $$ \267\367\274\006\122\073\161\060\160\076\161\027\176\361\146\004$ \136\135\274\212\061\103\246\222\035\173\124\322\245\066\213\157 \215\326\136\332\324\303\056\035\337\071\125\140\202\060\236\047 \377\216\200\335\143\114\246\125\065\330\320\063\251\200\155\076 \136\235\314\250\147\200\146\372\231\127\014\122\312\031\165\260 \070\065\125\052\201\305\214\036\126\327\137\220\362\040\330\332 \340\146\161\351\262\170\253\147\271\044\156\153\066\162\374\157 \215\375\177\162\071\050\147\122\221\005\037\127\145\322\243\247 \015\141\372\241\347\325\065\106\225\311\006\207\366\060\354\062 $\label{eq:condition} $$ 121\254\126\300\041\116\243\024\164\005\072\274\343\277\155$$

 $\label{eq:condition} $$ \365\121\160\052\015\034\116\100\341\375\243\343\245\053\147\220\222\307\154\256\205\277\072\233\027\025\312\234\052\223\324\115\071\015\274\040\010\243\215\210\154\011\015\214\256\104\041\115\311\161\354\330\046\327\027\236\055\021\030\074\243\042\175\270\047\124\277\150\310\073\102\314\217\136\116\347\334\302\305\372\152\104\017\215\126\210\172\337\211\204\154\240\263\076\075\361\145\000\011\210\352\052\353\100\316\263\135\254\062\027\256\301\233\351\320\301\365\111\224\335\247\316\174\132\007\353\256\040\234\027\060\222\151\223\162\363\232\133\161\233\376\152\337\172\060\151\216\263\056\333\017\054\335$

END

CKA NSS MOZILLA CA POLICY

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 G2"
- # Issuer: CN=TWCA Global Root CA G2,OU=Root CA,O=TAIWAN-CA,C=TW
- # Serial Number:40:01:34:8c:c2:00:00:00:00:00:00:00:01:97:58:f4
- # Subject: CN=TWCA Global Root CA G2,OU=Root CA,O=TAIWAN-CA,C=TW
- # Not Valid Before: Tue Nov 22 06:42:21 2022
- # Not Valid After: Fri Nov 22 15:59:59 2047
- # Fingerprint (SHA-256):
- 3A:00:72:D4:9F:FC:04:E9:96:C5:9A:EB:75:99:1D:3C:34:0F:36:15:D6:FD:4D:CE:90:AC:0B:3D:88:EA:D4:F4
- # Fingerprint (SHA1): 73:FE:92:2F:83:63:91:FF:C8:C6:C4:DA:D6:20:2F:6B:07:2E:7F: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 "TWCA Global Root CA G2"
- CKA_CERT_SHA1_HASH MULTILINE_OCTAL

 $\label{eq:condition} $$ 163\376\222\057\203\143\221\377\310\306\304\332\326\040\057\153$$

 $\ \ \, \backslash 007\backslash 056\backslash 177\backslash 033$

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL

\023\215\135\372\031\265\346\253\144\173\020\164\160\032\043\056

END

CKA_ISSUER MULTILINE_OCTAL

\060\124\061\013\060\011\006\003\125\004\006\023\002\124\127\061

 $\\ \backslash 022 \backslash 060 \backslash 020 \backslash 006 \backslash 003 \backslash 125 \backslash 004 \backslash 012 \backslash 023 \backslash 011 \backslash 124 \backslash 101 \backslash 111 \backslash 127 \backslash 101 \backslash 116$

 $\label{eq:condition} $$ \055\103\101\061\020\060\016\006\003\125\004\013\023\007\122\157$$

\157\164\040\103\101\061\037\060\035\006\003\125\004\003\023\026

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

END

CKA_SERIAL_NUMBER

```
\002\020\100\001\064\214\302\000\000\000\000\000\000\000\000\001\227
\130\364
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 "SecureSign Root CA12"
# Issuer: CN=SecureSign Root CA12,O="Cybertrust Japan Co., Ltd.",C=JP
# Serial Number:66:f9:c7:c1:af:ec:c2:51:b4:ed:53:97:e6:e6:82:c3:2b:1c:90:16
# Subject: CN=SecureSign Root CA12,O="Cybertrust Japan Co., Ltd.",C=JP
# Not Valid Before: Wed Apr 08 05:36:46 2020
# Not Valid After: Sun Apr
08 05:36:46 2040
# Fingerprint (SHA-256):
3F:03:4B:B5:70:4D:44:B2:D0:85:45:A0:20:57:DE:93:EB:F3:90:5F:CE:72:1A:CB:C7:30:C0:6D:DA:EE:90:4E
# Fingerprint (SHA1): 7A:22:1E:3D:DE:1B:06:AC:9E:C8:47:70:16:8E:3C:E5:F7:6B:06:F4
CKA_CLASS CK_OBJECT_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 Root CA12"
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\112\120\061
\043\060\041\006\003\125\004\012\023\032\103\171\142\145\162\164
\114\164\144\056\061\035\060\033\006\003\125\004\003\023\024\123
\145\143\165\162\145\123\151\147\156\040\122\157\157\164\040\103
\101\061\062
END
CKA ID UTF8 "0"
CKA ISSUER MULTILINE OCTAL
\060\121\061\013\060\011\006\003\125\004\006\023\002\112\120\061
\label{eq:condition} $$ \043\060\041\006\003\125\004\012\023\032\103\171\142\145\162\164 $$
\162\165\163\164\040\112\141\160\141\156\040\103\157\056\054\040
\114\164\144\056\061\035\060\033\006\003\125\004\003\023\024\123
\145\143\165\162\145\123\151\147\156\040\122\157\157\164\040\103
\101\061\062
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\024\146\371\307\301\257\354\302\121\264\355\123\227\346\346
\202\303\053\034\220\026
```

MULTILINE OCTAL

END

CKA VALUE MULTILINE OCTAL

\060\202\003\162\060\202\002\132\240\003\002\001\002\002\024\146 \371\307\301\257\354\302\121\264\355\123\227\346\346\202\303\053 \034\220\026\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\112 \120\061\043\060\041\006\003\125\004\012\023\032\103\171\142\145 \162\164\162\165\163\164\040\112\141\160\141\156\040\103\157\056 \054\040\114\164\144\056\061\035\060\033\006\003\125\004\003\023 \024\123\145\143\165\162\145\123\151\147\156\040\122\157\157\164 \040\103\101\061\062\060\036\027\015\062\060\060\064\060\070\060 \065\063\066\064\066\132\027\015\064\060\060\064\060\070\060\065 \063\066\064\066\132\060\121\061\013\060\011\006\003\125\004\006 \023\002\112\120\061\043\060\041\006\003\125\004\012\023\032\103 $\label{eq:condition} $$ \frac{171}142\\145\\162\\164\\162\\165\\163\\164\\040\\112\\141\\160\\141\\156\\040$ \103\157\056\054\040\114\164\144\056\061\035\060\033\006\003\125 $\\ \\004\\ \\003\\ \\023\\ \\024\\ \\123\\ \\145\\ \\143\\ \\165\\ \\162\\ \\145\\ \\123\\ \\151\\ \\147\\ \\156\\ \\040\\ \\122$ \157\157\164\040\103\101\061\062\060\202\001\042\060\015\006\011 \052\206\110\206\367\015\001\001\001\005\000\003\202\001\017\000 $\label{eq:condition} $$ \000\202\001\001\000\272\071\301\067\172\150\105 $$$ \053\024\264\353\344\023\353\127\165\043\115\217\044\055\026\350 \256\216\311\175\244\127\073\052\166\045\063\203\154\352\062\212 $\verb|224|233|116|074|226|344|375|121|277|231|311|223|176|277|371|255|$ \247\262\110\053\007\034\047\365\114\274\160\022\167\244\205\124 \265\375\220\172\344\243\344\121\130\003\315\020\171\171\356\153 \223\037\144\216\153\144\253\243\023\343\161\376\175\253\234\335 \047\123\067\263\252\030\302\131\046\354\133\037\322\346\145\174 \357\223\275\330\130\134\013\300\343\145\157\074\307\312\131\343 \376\156\137\254\203\276\375\135\045\116\052\051\073\326\013\253 \027\062\170\244\341\076\224\106\276\142\156\233\336\106\250\261 $\label{eq:condition} $$ \026\347\205\156\364\010\100\105\021\240\236\124\104\204\367\330$$ \066\316\365\120\107\334\054\060\233\356\300\365\226\322\376\011 \206\307\006\131\256\117\256\216\021\230\173\363\013\122\252\142 \046\252\041\337\216\045\063\171\227\026\111\215\365\076\325\107 \237\067\061\111\063\162\005\115\014\266\125\214\361\127\217\212 \207\321\255\305\021\022\071\240\255\002\003\001\000\001\243\102 \060\100\060\017\006\003\125\035\023\001\001\377\004\005\060\003 $\label{eq:condition} $$ \001\001\377\060\016\006\003\125\035\017\001\001\377\004\004\003\$ $\label{eq:condition} $$ \002\001\006\060\035\006\003\125\035\016\004\026\004\024\127\064$$$ \363\164\317\004\113\325\045\346\361\100\266\054\114\331\055\351 \240\255\060\015\006\011\052\206\110\206\367\015\001\001\013\005 \000\003\202\001\001\000\076\273\333\027\026\322\362\024\001\040 \054\070\203\113\255\276\312\205\172\232\266\233\153\246\341\374 \245\072\254\255\264\050\072\257\327\001\203\111\053\143\242\335 \232\144\016\230\134\157\335\216\273\212\124\042\055\112\023\363 \256\100\103\333\117\221\267\206\032\354\000\264\101\201\244\117 \372\152\213\210\263\166\010\162\052\111\100\303\323\303\205\211 \230\020\245\235\157\031\267\273\317\172\145\125\333\067\353\074 $\label{eq:control} $$ \212\162\062\227\036\232\051\076\255\215\346\243\033\155\365\165\032\346\260\150\271\133\242\356\151\107\047\065\241\206\231\200\363\063\113\341\153\244\046\303\357\164\113\154\172\242\144\266\036\104\303\120\340\017\077\075\251\063\361\245\363\322\275\142\204\254\216\034\251\315\132\275\067\073\156\012\042\264\364\025\347\221\130\305\072\104\323\225\050\331\300\145\351\162\312\320\017\275\037\263\025\331\251\343\244\107\011\236\340\313\067\373\375\275\227\325\276\030\032\151\242\071\201\331\032\365\253\177\310\343\342\147\013\235\364\014\352\124\337\322\262\257\261\042\361\040\337\274\104\034$

END

CKA_NSS_MOZILLA_CA_POLICY

CK BBOOL CK TRUE

CKA_NSS_SERVER_DISTRUST_AFTER

CK_BBOOL CK_FALSE

CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "SecureSign Root CA12"

Issuer: CN=SecureSign Root CA12,O="Cybertrust Japan Co., Ltd.",C=JP

Serial Number:66:f9:c7:c1:af:ec:c2:51:b4:ed:53:97:e6:e6:82:c3:2b:1c:90:16

Subject: CN=SecureSign Root CA12,O="Cybertrust Japan Co., Ltd.",C=JP

Not Valid Before: Wed Apr 08 05:36:46 2020

Not Valid After: Sun Apr 08 05:36:46 2040

Fingerprint (SHA-256):

3F:03:4B:B5:70:4D:44:B2:D0:85:45:A0:20:57:DE:93:EB:F3:90:5F:CE:72:1A:CB:C7:30:C0:6D:DA:EE:90:4E

Fingerprint (SHA1): 7A:22:1E:3D:DE:1B:06:AC:9E:C8:47:70:16:8E:3C:E5:F7:6B:06:F4

CKA CLASS CK OBJECT CLASS 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 Root CA12"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL

\172\042\036\075\336\033\006\254\236\310\107\160\026\216\074\345

\367\153\006\364

END

CKA CERT MD5 HASH MULTILINE OCTAL

\306\211\312\144\102\233\142\010\111\013\036\177\351\007\075\350

END

CKA_ISSUER

MULTILINE_OCTAL

 $\label{eq:condition} $$ \000\121\061\013\060\011\006\003\125\004\0006\023\002\112\120\061 $$ \043\060\041\006\003\125\004\012\023\032\103\171\142\145\162\164 $$ \162\165\163\164\040\112\141\160\141\156\040\103\157\056\054\040 $$ \114\164\144\056\061\035\060\033\006\003\125\004\003\023\024\123 $$ \145\143\165\162\145\123\151\147\156\040\122\157\157\164\040\103 $$ \101\061\062$$

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

```
\202\303\053\034\220\026
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 Root CA14"
# Issuer: CN=SecureSign Root CA14,O="Cybertrust Japan Co., Ltd.",C=JP
# Serial Number:64:db:5a:0c:20:4e:e8:d7:29:77:c8:50:27:a2:5a:27:dd:2d:f2:cb
# Subject: CN=SecureSign Root CA14,O="Cybertrust Japan Co., Ltd.",C=JP
Not Valid Before: Wed Apr 08 07:06:19 2020
# Not Valid After: Sat Apr 08 07:06:19 2045
# Fingerprint (SHA-256):
4B:00:9C:10:34:49:4F:9A:B5:6B:BA:3B:A1:D6:27:31:FC:4D:20:D8:95:5A:DC:EC:10:A9:25:60:72:61:E3:38
# Fingerprint (SHA1): DD:50:C0:F7:79:B3:64:2E:74:A2:B8:9D:9F:D3:40:DD:BB:F0:F2:4F
CKA CLASS CK OBJECT 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 Root CA14"
CKA CERTIFICATE TYPE CK CERTIFICATE TYPE CKC X 509
CKA SUBJECT MULTILINE OCTAL
\label{eq:condition} $$ \060\121\061\013\060\011\006\003\125\004\006\023\002\112\120\061
\043\060\041\006\003\125\004\012\023\032\103\171\142\145\162\164
\162\165\163\164\040\112\141\160\141\156\040\103\157\056\054\040
\114\164\144\056\061\035\060\033\006\003\125\004\003\023\024\123
\145\143\165\162\145\123\151\147\156\040\122\157\157\164\040\103
\101\061\064
END
CKA ID UTF8 "0"
CKA ISSUER MULTILINE OCTAL
\060\121\061\013\060\011\006\003\125\004\006\023\002\112\120\061
\\ \\043\\060\\041\\006\\003\\125\\004\\012\\023\\032\\103\\171\\142\\145\\162\\164
\114\164\144\056\061\035\060\033\006\003\125\004\003\023\024\123
\145\143\165\162\145\123\151\147\156\040\122\157\157\164\040\103
\101\061\064
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\024\144\333\132\014\040\116\350\327\051\167\310\120\047\242
\132\047\335\055\362\313
END
```

\002\024\146\371\307\301\257\354\302\121\264\355\123\227\346\346

CKA VALUE MULTILINE OCTAL

\060\202\005\162\060\202\003\132\240\003\002\001\002\002\002\144 \333\132\014\040\116\350\327\051\167\310\120\047\242\132\047\335 \055\362\313\060\015\006\011\052\206\110\206\367\015\001\001\014 \005\000\060\121\061\013\060\011\006\003\125\004\006\023\002\112 $\label{eq:condition} $$ 120\061\043\060\041\006\003\125\004\012\023\032\103\171\142\145$ \162\164\162\165\163\164\040\112\141\160\141\156\040\103\157\056 \054\040\114\164\144\056\061\035\060\033\006\003\125\004\003\023 $\\ \\024\\123\\145\\143\\165\\162\\145\\123\\151\\147\\156\\040\\122\\157\\157\\164$ \040\103\101\061\064\060\036\027\015\062\060\060\064\060\070\060 \067\060\066\061\071\132\027\015\064\065\060\064\060\070\060\067 \023\002\112\120\061\043\060\041\006\003\125\004\012\023\032\103 $\label{eq:condition} $$ \frac{171}142\\145\\162\\164\\162\\165\\163\\164\\040\\112\\141\\160\\141\\156\\040$ \103\157\056\054\040\114\164\144\056\061\035\060\033\006\003\125 \004\003\023\024\123\145\143\165\162\145\123\151\147\156\040\122 \157\157\164\040\103\101\061\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\305\322\172\241\326\212\277 $\label{eq:condition} $$ \026\061\320\230\321\072\224\374\132\270\156\042\301\142\367\247 $$$ \012\047\357\120\366\056\261\236\150\022\360\154\044\143\071\361 \360\337\020\306\336\267\122\040\325\122\133\102\231\236\363\240 $\label{eq:condition} $$ \276\122\037\137\314\147\155\247\056\120\242\301\227\215\266\370 $$$ \225\365\260\272\334\235\340\276\313\337\367\070\362\107\365\246 $\label{eq:condition} $$ \232\222\225\052\142\131\120\013\242\261\065\347\145\262\141\262$ \352\222\161\151\344\051\360\117\201\201\004\074\262\245\133\324 \305\250\131\147\173\125\034\111\253\172\235\302\347\163\115\357 $\label{eq:condition} $$ \frac{315}{011}\frac{302}{304}\frac{127}{022}\frac{333}{001}\frac{016}{043}\frac{171}{011}\frac{007}{073}\frac{242}{350} $$$ \374\212\317\217\300\106\044\234\070\047\340\203\235\033\240\277 \170\025\020\353\206\116\012\132\375\337\332\054\202\176\356\312 $\label{eq:condition} $$ 366\051\341\372\161\241\367\210\150\234\234\360\215\276\017\111$ \221\330\352\072\371\375\320\150\161\333\351\265\053\116\202\222 \157\146\037\340\360\334\114\354\312\321\352\272\164\006\371\263 \204\220\224\321\137\216\163\031\020\135\002\345\160\245\300\020 \320\020\174\157\305\130\111\264\260\156\232\332\175\225\365\314 \332\002\257\270\054\175\171\217\276\103\361\371\050\050\215\011 \103\370\010\335\153\310\213\054\044\261\215\122\007\275\170\233 \313\312\150\262\244\335\014\114\171\140\306\231\321\223\361\060 $\label{eq:condition} $$ \032\07\323\256\042\302\352\316\361\204\011\314\340\024\156\177 $$$ $\label{eq:condition} $$ \077\176\322\202\205\254\334\251\026\116\205\240\140\313\366\234 $$$ \327\310\263\216\355\306\233\230\165\015\125\350\137\345\225\213 \002\244\256\103\051\050\021\244\346\022\060\001\113\165\153\036 $\label{eq:condition} $$ 146\235\171\057\245\166\057\035\100\264\155\311\175\171\010\354$$$ \321\152\266\135\052\262\245\146\275\153\205\364\164\126\303\365 \347\165\122\050\054\245\377\146\107\245\324\376\376\236\124\277 \145\176\001\326\060\217\245\066\234\242\120\034\356\070\200\001 \110\306\307\164\364\306\254\303\100\111\026\141\164\054\257\214 $\label{eq:condition} $$ \frac{355}173\\030\\000\\133\\066\\074\\234\\120\\015\\312\\222\\063\\020$

\361\046\111\155\337\165\044\067\202\042\327\350\226\375\025\113 \002\226\076\007\162\225\176\253\075\114\056\327\312\360\337\340 \130\077\055\057\004\232\070\243\001\002\003\001\000\001\243\102 \001\001\377\060\016\006\003\125\035\017\001\001\377\004\004\003 $\label{eq:condition} $$ \002\001\006\060\035\006\003\125\035\016\004\026\004\024\006\223 $$$ \243\012\136\050\151\067\252\141\035\353\353\374\055\157\043\344 \363\240\060\015\006\011\052\206\110\206\367\015\001\001\014\005 $\label{eq:condition} $$ \000\003\202\000\000\226\200\162\011\006\176\234\314\223\004$ \026\273\240\072\215\222\116\267\021\032\012\161\161\161\020\315\004 $\verb|255|177|245|105|120|020|146|116|112|101|242|003|331|021|117|172|$ $\\ \begin{tabular}{l} $\langle 067 \rangle 271 \rangle 113 \rangle 342 \rangle 306 \rangle 217 \rangle 62 \rangle 146 \rangle 165 \rangle 045 \rangle 373 \rangle 353 \rangle 316 \rangle 077 \rangle 003 \rangle 051 \rangle 126 \rangle 127 \rangle$ \046\215\270\026\035\366\037\063\156\110\346\350\370\127\262\033 $\label{eq:condition} $$ \frac{37}073\207\012\342\144\272\000\312\154\357\176\320\043\353}$$ \170\217\377\144\233\064\067\237\065\145\242\244\000\075\022\043 \226\130\135\312\143\207\306\243\007\210\115\347\151\166\212\123 \315\361\117\354\102\362\223\343\231\244\067\074\207\270\142\333 \360\354\037\067\077\067\137\103\314\121\235\265\360\227\302\267 \205\152\150\013\104\036\345\121\356\223\316\113\156\206\301\322 $\label{eq:condition} $$ \014\044\131\066\032\237\054\221\217\343\030\333\224\225\012\355 $$$ \221\252\016\231\334\226\123\343\141\203\306\026\272\043\272\334 \335\176\032\306\173\102\266\331\132\005\334\232\137\325\337\270 $\label{eq:condition} $$ \frac{332\\107\\175\\332\\070\\333\\254\\071\\325\\036\\153\\154\\052\\027\\214\\141$ \315\261\155\162\001\303\303\040\000\142\150\026\061\325\166\252 \206\273\016\252\236\306\371\360\331\370\015\041\002\344\305\050 \026\131\021\271\331\151\163\052\222\170\270\222\127\233\010\362 \072\345\057\225\260\130\267\153\040\024\155\024\357\012\274\176 $\label{eq:condition} $$ \30\125\330\210\332\057\372\031\245\373\213\340\177\071\365\162 $$$ \053\205\304\054\254\357\031\105\222\114\263\141\007\334\115\037 \156\322\201\023\134\232\363\022\147\203\317\233\077\213\237\235 \244\271\250\226\003\172\305\356\040\336\063\332\057\236\032\172 \164\036\341\356\314\132\072\004\335\263\032\004\250\024\143\254 \267\107\022\203\232\154\365\346\351\025\025\221\032\204\031\016 \224\104\347\022\216\045\133\200\147\031\334\143\223\020\013\145 \056\212\372\011\232\116\332\206\050\175\252\141\065\330\016\247 \050\032\273\122\340\170\370\154\272\154\260\156\271\207\136\351 \231\065\067\361\075\144\053\251\240\064\223\317\143\057\325\201 \337\256\143\047\245\036\116\215\334\051\170\131\370\371\241\040 \214\247\046\100\156\202\162\315\170\262\310\217\074\036\163\347 \301\037\277\317\316\245\052\233\333\104\144\062\240\273\177\134 $045\023\110\265\177\222$

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 "SecureSign Root CA14"

```
# Issuer: CN=SecureSign Root CA14,O="Cybertrust Japan Co., Ltd.",C=JP
# Serial Number:64:db:5a:0c:20:4e:e8:d7:29:77:c8:50:27:a2:5a:27:dd:2d:f2:cb
# Subject: CN=SecureSign Root CA14,O="Cybertrust Japan Co., Ltd.",C=JP
# Not Valid Before: Wed Apr 08 07:06:19 2020
# Not Valid After: Sat Apr 08 07:06:19 2045
# Fingerprint (SHA-256):
4B:00:9C:10:34:49:4F:9A:B5:6B:BA:3B:A1:D6:27:31:FC:4D:20:D8:95:5A:DC:EC:10:A9:25:60:72:61:E3:38
# Fingerprint (SHA1): DD:50:C0:F7:79:B3:64:2E:74:A2:B8:9D:9F:D3:40:DD:BB:F0:F2:4F
CKA_CLASS CK_OBJECT_CLASS 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 Root CA14"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\335\120\300\367\171\263\144\056\164\242\270\235\237\323\100\335
\273\360\362\117
END
CKA CERT MD5 HASH
MULTILINE OCTAL
\161\015\162\372\222\031\145\136\211\004\254\026\063\360\274\325
END
CKA ISSUER MULTILINE OCTAL
\label{eq:condition} $$ \060\121\061\013\060\011\006\003\125\004\006\023\002\112\120\061\
\043\060\041\006\003\125\004\012\023\032\103\171\142\145\162\164
\162\165\163\164\040\112\141\160\141\156\040\103\157\056\054\040
\114\164\144\056\061\035\060\033\006\003\125\004\003\023\024\123
\145\143\165\162\145\123\151\147\156\040\122\157\157\164\040\103
\101\061\064
END
CKA SERIAL NUMBER MULTILINE OCTAL
\label{eq:condition} $$ \002\024\144\333\132\014\040\116\350\327\051\167\310\120\047\242 $$
\132\047\335\055\362\313
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 Root CA15"
# Issuer: CN=SecureSign Root CA15,O="Cybertrust
Japan Co., Ltd.",C=JP
# Serial Number:16:15:c7:c3:d8:49:a7:be:69:0c:8a:88:ed:f0:70:f9:dd:b7:3e:87
# Subject: CN=SecureSign Root CA15,O="Cybertrust Japan Co., Ltd.",C=JP
# Not Valid Before: Wed Apr 08 08:32:56 2020
# Not Valid After: Sat Apr 08 08:32:56 2045
# Fingerprint (SHA-256):
```

E7:78:F0:F0:95:FE:84:37:29:CD:1A:00:82:17:9E:53:14:A9:C2:91:44:28:05:E1:FB:1D:8F:B6:B8:88:6C:3A # Fingerprint (SHA1): CB:BA:83:C8:C1:5A:5D:F1:F9:73:6F:CA:D7:EF:28:13:06:4A:07:7D

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

CKA TOKEN CK BBOOL CK TRUE

CKA PRIVATE CK BBOOL CK FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA LABEL UTF8 "SecureSign Root CA15"

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\024\026\025\307\303\330\111\247\276\151\014\212\210\355\360 \160\371\335\267\076\207

END

CKA_VALUE MULTILINE_OCTAL

\060\202\002\043\060\202\001\251\240\003\002\001\002\002\024\026 \025\307\303\330\111\247\276\151\014\212\210\355\360\160\371\335 \267\076\207\060\012\006\010\052\206\110\316\075\004\003\003\060 \121\061\013\060\011\006\003\125\004\006\023\002\112\120\061\043 \060\041\006\003\125\004\012\023\032\103\171\142\145\162\164\162 \165\163\164\040\112\141\160\141\156\040\103\157\056\054\040\114 $\label{eq:condition} $$ 164\144\056\061\035\060\033\006\003\125\004\003\023\024\123\145$$ $\label{eq:condition} $$ 143\backslash 165\backslash 162\backslash 145\backslash 123\backslash 151\backslash 147\backslash 156\backslash 040\backslash 122\backslash 157\backslash 157\backslash 164\backslash 040\backslash 103\backslash 101$$ \061\065\060\036\027\015\062\060\060\064\060\070\060\070\063\062 \065\066\132\027\015\064\065\060\064\060\070\060\070\063\062\065 \066\132\060\121\061\013\060\011\006\003\125\004\006\023\002\112 \120\061\043\060\041\006\003\125\004\012\023\032\103\171\142\145 \162\164\162\165\163\164\040\112\141\160\141\156\040\103\157\056 \054\040\114\164\144\056\061\035\060\033\006\003\125\004\003\023 \024\123\145\143\165\162\145\123\151\147\156\040\122\157\157\164 \040\103\101\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\013\120\164

\215\144\062\231\231\263\322\140\010\270\042\216\106\164\054\170 \300\053\104\055\155\137\035\311\256\113\122\040\203\075\270\024 $\label{eq:condition} $$ \frac{155}{123}207\frac{40}{236}\frac{137}{154}205\frac{333}{006}\frac{024}{225}\frac{340}{307}\frac{050}{377} $$$ \235\137\344\252\361\263\213\155\355\117\057\113\311\112\224\221 \144\165\376\001\354\301\330\353\172\224\170\126\030\103\137\153 \201\313\366\274\332\264\014\266\051\223\010\151\217\243\102\060 \100\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001 $\label{eq:condition} $$ \001\377\060\016\006\003\125\035\017\001\001\377\004\004\003\002$ $\label{eq:condition} $$ \001\006\003\006\003\125\035\016\004\026\004\024\353\101\310 $$$ \256\374\325\236\121\110\365\275\213\364\207\040\223\101\053\323 \364\060\012\006\010\052\206\110\316\075\004\003\003\003\150\000 $\label{eq:condition} $$ \000\145\002\061\000\331\056\211\176\136\116\244\021\007\275\131 $$$ \302\007\336\253\062\070\123\052\106\104\006\027\172\316\121\351 \340\377\146\055\011\116\340\117\364\005\321\205\366\065\140\334 \211\113\007\113\146\265\236\252\272\240\036\101\331\001\164\072 \156\105\072\211\200\031\173\062\230\125\143\253\353\143\156\223 \155\253\033\011\140\061\116

END

CKA_NSS_MOZILLA_CA_POLICY

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 Root

CA15"

Issuer: CN=SecureSign Root CA15,O="Cybertrust Japan Co., Ltd.",C=JP

Serial Number:16:15:c7:c3:d8:49:a7:be:69:0c:8a:88:ed:f0:70:f9:dd:b7:3e:87

Subject: CN=SecureSign Root CA15,O="Cybertrust Japan Co., Ltd.",C=JP

Not Valid Before: Wed Apr 08 08:32:56 2020

Not Valid After: Sat Apr 08 08:32:56 2045

Fingerprint (SHA-256):

E7:78:F0:F0:95:FE:84:37:29:CD:1A:00:82:17:9E:53:14:A9:C2:91:44:28:05:E1:FB:1D:8F:B6:B8:88:6C:3A

Fingerprint (SHA1): CB:BA:83:C8:C1:5A:5D:F1:F9:73:6F:CA:D7:EF:28:13:06:4A:07:7D

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 "SecureSign Root CA15"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL

\313\272\203\310\301\132\135\361\371\163\157\312\327\357\050\023

 $\label{eq:condition} $$ \006\112\007\175$$

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL

\023\060\374\304\142\246\251\336\265\301\150\257\265\322\061\107

END

CKA_ISSUER MULTILINE_OCTAL

 $\label{eq:condition} $$ \060\121\061\013\060\011\006\003\125\004\006\023\002\112\120\061$

 $\label{lem:condition} $$ \043\060\041\006\003\125\004\012\023\032\103\171\142\145\162\164\162\165\163\164\040\112\141\160\141\156\040\103\157\056\054\040\114\164\144\056\061\035\060\033\006\003\125\004\003\023\024\123\145\143\165\162\145\123\151\147\156\040\122\157\157\164\040\103\101\061\065$

END

CKA SERIAL NUMBER

MULTILINE OCTAL

 $\label{eq:condition} $$ \002\024\026\025\307\303\330\111\247\276\151\014\212\210\355\360\160\371\335\267\076\207$

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/2224916369_1736352461.0653906/0/ca-certificates-20241010-tar-gz/ca-certificates-20241010/certdata.txt

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

#!/usr/bin/env perl # ****************************** ___||||_|| # * Project # * /__||||_)|| |(__||_|| _<||__ # * # * # * Copyright (C) 1998 - 2022, Daniel Stenberg, <daniel@haxx.se>, et al. # * # * This software is licensed as described in the file COPYING, which # * you should have received as part of this distribution. The terms # * are also available at https://curl.se/docs/copyright.html. # * You may opt to use, copy, modify, merge, publish, distribute and/or sell # * copies of the Software, and permit persons to whom the Software is # * furnished to do so, under the terms of the COPYING file. # * This software is distributed on an "AS IS" basis, WITHOUT WARRANTY OF ANY # * KIND, either express or implied. # * # * SPDX-License-Identifier: curl # ******************************* # This Perl script creates a fresh ca-bundle.crt file for use with libcurl.

It downloads certdata.txt from Mozilla's source tree (see URL below),

```
# then parses certdata.txt and extracts CA Root Certificates into PEM format.
# These are then processed with the OpenSSL commandline tool to produce the
# final ca-bundle.crt file.
# The script is based on the parse-certs script written by Roland Krikava.
# This Perl script works on almost any platform since its only external
# dependency is the OpenSSL commandline tool for optional text listing.
# Hacked by Guenter Knauf.
use Encode;
use Getopt::Std;
use MIME::Base64;
use strict;
use warnings;
use vars qw($opt_b $opt_d $opt_f $opt_h $opt_i $opt_k $opt_l $opt_m $opt_n $opt_p $opt_q $opt_s $opt_t $opt_u
$opt_v $opt_w);
use List::Util;
use Text::Wrap;
use Time::Local;
my $MOD_SHA
= "Digest::SHA";
eval "require $MOD_SHA";
if ($@) {
$MOD_SHA = "Digest::SHA::PurePerl";
eval "require $MOD_SHA";
eval "require LWP::UserAgent";
my %urls = (
'nss' =>
 'https://hg.mozilla.org/projects/nss/raw-file/default/lib/ckfw/builtins/certdata.txt',
'central' =>
 'https://hg.mozilla.org/mozilla-central/raw-file/default/security/nss/lib/ckfw/builtins/certdata.txt',
 'https://hg.mozilla.org/releases/mozilla-beta/raw-file/default/security/nss/lib/ckfw/builtins/certdata.txt',
'release' =>
  'https://hg.mozilla.org/releases/mozilla-release/raw-file/default/security/nss/lib/ckfw/builtins/certdata.txt',
);
$opt_d = 'release';
# If the OpenSSL commandline is not in search path you can configure it here!
my $openssl = 'openssl';
my \$version = '1.29';
$opt_w = 76; # default base64 encoded lines length
# default cert types to include in the output (default is to include CAs which
```

```
# may issue SSL server certs)
my $default_mozilla_trust_purposes =
"SERVER_AUTH";
my $default_mozilla_trust_levels = "TRUSTED_DELEGATOR";
$opt_p = $default_mozilla_trust_purposes . ":" . $default_mozilla_trust_levels;
my @valid_mozilla_trust_purposes = (
"DIGITAL_SIGNATURE",
"NON_REPUDIATION",
"KEY ENCIPHERMENT",
"DATA_ENCIPHERMENT",
"KEY_AGREEMENT",
"KEY_CERT_SIGN",
"CRL_SIGN",
"SERVER_AUTH",
"CLIENT_AUTH",
"CODE_SIGNING",
"EMAIL PROTECTION",
"IPSEC_END_SYSTEM",
"IPSEC_TUNNEL",
"IPSEC_USER",
"TIME_STAMPING",
"STEP_UP_APPROVED"
);
my @valid_mozilla_trust_levels = (
"TRUSTED_DELEGATOR", #CAs
"NOT_TRUSTED",
                       # Don't trust these certs.
"MUST_VERIFY_TRUST", # This explicitly tells us that it ISN'T a CA but is
             # otherwise ok. In other words, this should tell the
             # app to ignore any other sources that claim this is
             # a CA.
"TRUSTED"
                    # This cert is trusted, but only for itself and not
# for delegates (i.e. it is not a CA).
);
my $default_signature_algorithms = $opt_s = "MD5";
my @valid_signature_algorithms = (
"MD5",
"SHA1".
"SHA256",
"SHA384",
"SHA512"
);
0 = 80.*(/|\)@@;
```

```
$Getopt::Std::STANDARD_HELP_VERSION = 1;
getopts('bd:fhiklmnp:qs:tuvw:');
if(!defined($opt_d)) {
 # to make plain "-d" use not cause warnings, and actually still work
 $opt_d = 'release';
}
# Use predefined URL or else custom URL specified on command line.
my $url;
if(defined($urls{$opt_d})) {
$url = $urls{$opt_d};
if(!$opt_k && $url !~ /^https:\/\//i) {
 die "The URL for '$opt_d' is not HTTPS. Use -k to override (insecure).\n";
}
else {
$url = $opt d;
my $curl = `curl -V`;
if ($opt_i) {
print ("=" x 78 . "\n");
print "Script Version
                               : $version\n";
print "Perl Version
                              : $]\n";
print "Operating System Name
                                    : $^O\n";
print "Getopt::Std.pm Version
                                   print "Encode::Encoding.pm
Version
          : ${Encode::Encoding::VERSION}\n";
print "MIME::Base64.pm Version
                                      : ${MIME::Base64::VERSION}\n";
print "LWP::UserAgent.pm Version
                                      : ${LWP::UserAgent::VERSION}\n" if($LWP::UserAgent::VERSION);
print "LWP.pm Version
                                  : ${LWP::VERSION}\n" if($LWP::VERSION);
print "Digest::SHA.pm Version
                                    : ${Digest::SHA::VERSION}\n" if ($Digest::SHA::VERSION);
print "Digest::SHA::PurePerl.pm Version : ${Digest::SHA::PurePerl::VERSION}\n" if
($Digest::SHA::PurePerl::VERSION);
print ("=" x 78 . "\n");
}
sub warning_message() {
if (\$ opt_d = \sim m/^r isk \% i) { # Long Form Warning and Exit
 print "Warning: Use of this script may pose some risk:\n";
 print "\n";
 print " 1) If you use HTTP URLs they are subject to a man in the middle attack\n";
 print " 2) Default to 'release', but more recent updates may be found in other trees\n";
 print " 3) certdata.txt file format may change, lag time to update this script\n";
  print " 4) Generally unwise to blindly trust CAs without manual review & verification\n";
 print " 5) Mozilla apps use additional security checks aren't represented in certdata\n";
```

```
print " 6) Use of this script will make a security engineer grind his teeth and\n";
 print "
           swear at you. ;)\n";
 exit;
} else { # Short Form Warning
 print "Warning: Use of this script may pose some risk, -d risk for more details.\n";
}
sub HELP_MESSAGE() {
print "Usage:\t${0} [-b] [-d<certdata>] [-f] [-i] [-k] [-l] [-n] [-p<purposes:levels>] [-q] [-s<algorithms>] [-t] [-u] [-
v] [-w<l>] [<outputfile>]\n";
print "\t-b\tbackup an existing version of ca-bundle.crt\n";
print "\t-d\tspecify Mozilla tree to pull certdata.txt or custom URL\n";
print "\t\t Valid names are:\n";
print "\t\t ", join( ", ", map { ( $_=~ m/$opt_d/ ) ? "$_ (default)" : "$_" } sort keys %urls ), "\n";
print "\t-f\tforce rebuild even if certdata.txt is current\n";
print "\t-i\tprint
version info about used modules\n";
print "\t-k\tallow URLs other than HTTPS, enable HTTP fallback (insecure)\n";
print "\t-l\tprint license info about certdata.txt\n";
print "\t-m\tinclude meta data in output\n";
print "\t-n\tno download of certdata.txt (to use existing)\n";
print wrap("\t","\t\t", "-p\tlist of Mozilla trust purposes and levels for certificates to include in output. Takes the
form of a comma separated list of purposes, a colon, and a comma separated list of levels. (default:
$default_mozilla_trust_purposes:$default_mozilla_trust_levels)"), "\n";
print "\t\t Valid purposes are:\n";
print wrap("\t\t ","\t\t ", join(", ", "ALL", @valid_mozilla_trust_purposes ) ), "\n";
print "\t\t Valid levels are:\n";
print \ wrap("\t\t \ ","\t\t \ ", join(", ", "ALL", @valid_mozilla_trust_levels)), "\n";
print "\t-q\tbe really quiet (no progress output at all)\n";
print wrap("\t","\t\t", "-s\tcomma separated list of certificate signatures/hashes to output
in plain text mode. (default: $default_signature_algorithms)\n");
print "\t\t Valid signature algorithms are:\n";
print wrap("\t\t ","\t\t ", join(", ", "ALL", @valid_signature_algorithms)), "\n";
print "\t-t\tinclude plain text listing of certificates\n";
print "\t-u\tunlink (remove) certdata.txt after processing\n";
print "\t-v\tbe verbose and print out processed CAs\n";
print "\t-w <l>\twrap base64 output lines after <l> chars (default: ${opt_w})\n";
exit;
}
sub VERSION_MESSAGE() {
print "\{0\} version \{version\} running Perl \{\}\} on \{^O\}\n";
}
warning_message() unless (\phi_q \parallel v_r = m/^(ht|f)tps:/i);
HELP_MESSAGE() if ($opt_h);
```

```
sub report($@) {
my $output = shift;
print STDERR $output . "\n" unless $opt_q;
}
sub is in list($@) {
my $target = shift;
return defined(List::Util::first { $target eq $_ } @_);
}
# Parses $param_string as a case insensitive comma separated list with optional
# whitespace validates that only allowed parameters
are supplied
sub parse_csv_param($$@) {
my $description = shift;
my $param_string = shift;
my @valid_values = @_;
my @values = map {
 s/^\s+//; # strip leading spaces
 s/s+$//; # strip trailing spaces
         # return the modified string as upper case
} split( ',', $param_string );
# Find all values which are not in the list of valid values or "ALL"
my @invalid = grep { !is_in_list($_,"ALL",@valid_values) } @values;
if (scalar(@invalid) > 0) {
 # Tell the user which parameters were invalid and print the standard help
 # message which will exit
 print "Error: Invalid ", $description, scalar(@invalid) == 1 ? ": ": "s: ", join( ", ", map { "\"$_\"" } @invalid ),
"\n";
 HELP_MESSAGE();
@values = @valid_values if ( is_in_list("ALL",@values) );
return @values;
}
sub sha256 {
my $result;
if ($Digest::SHA::VERSION || $Digest::SHA::PurePerl::VERSION) {
 open(FILE, $_[0]) or die "Can't open '$_[0]': $!";
 binmode(FILE);
```

```
$result = $MOD_SHA->new(256)->addfile(*FILE)->hexdigest;
 close(FILE);
} else {
 # Use OpenSSL command if Perl Digest::SHA modules not available
 $result = `"$openssl" dgst -r -sha256 "$_[0]"`;
 return $result;
sub oldhash {
my $hash = "";
open(C, "<$_[0]") || return 0;
while(<C>) {
 chomp;
 if(\$ = \sim /^\# SHA256: (.*)/) {
  hash = 1;
  last;
  }
close(C);
return $hash;
if ( $opt_p !~ m/:/ ) {
print "Error: Mozilla trust identifier list must include both purposes and levels\n";
HELP_MESSAGE();
}
(my $included_mozilla_trust_purposes_string, my $included_mozilla_trust_levels_string) = split(':', $opt_p);
my @included_mozilla_trust_purposes = parse_csv_param( "trust purpose",
$included_mozilla_trust_purposes_string, @valid_mozilla_trust_purposes );
my @included_mozilla_trust_levels = parse_csv_param( "trust level", $included_mozilla_trust_levels_string,
@valid_mozilla_trust_levels
);
my @included_signature_algorithms = parse_csv_param( "signature algorithm", $opt_s,
@valid_signature_algorithms);
sub should_output_cert(%) {
my %trust_purposes_by_level = @_;
foreach my $level (@included_mozilla_trust_levels) {
 # for each level we want to output, see if any of our desired purposes are
 # included
 return 1 if ( defined( List::Util::first { is_in_list( $_, @included_mozilla_trust_purposes ) }
@{$trust_purposes_by_level{$level}}));
```

```
}
return 0;
}
my $crt = $ARGV[0] || 'ca-bundle.crt';
(my \$txt = \$url) =  s@(.*/|?.*)@@g;
my $stdout = $crt eq '-';
my $resp;
my $fetched;
my $oldhash = oldhash($crt);
report "SHA256 of old file: $oldhash";
if(!$opt_n) {
report "Downloading $txt ...";
# If we have an HTTPS URL then use curl
if(\$url = \sim /^https: \lor \lor \lor /i)  {
 if($curl) {
   if(\$curl = \sim /^Protocols:.* https( |\$)/m) {
    report "Get certdata with curl!";
    my $proto = !$opt_k ? "--proto =https" : "";
    my $quiet = $opt_q
? "-s": "";
    my @out = `curl -w % {response_code} $proto $quiet -o "$txt" "$url"`;
    if(!$? && @out && $out[0] == 200) {
     fetched = 1;
     report "Downloaded $txt";
    }
    else {
     report "Failed downloading via HTTPS with curl";
     if(-e $txt && !unlink($txt)) {
      report "Failed to remove '$txt': $!";
     }
    }
   }
   else {
    report "curl lacks https support";
   }
  }
   report "curl not found";
  }
```

```
# If nothing was fetched then use LWP
if(!$fetched) {
 if(\$url = \sim /^https: \lor \lor //i) {
   report "Falling back to HTTP";
   url = s/^https: \/\//http: \/\//i;
 if(!$opt_k) {
   report "URLs other than HTTPS are disabled by default, to enable use -k";
  }
 report "Get certdata with LWP!";
 if(!defined(${LWP::UserAgent::VERSION})) {
   report "LWP is not available (LWP::UserAgent not found)";
  exit 1;
 my $ua = new
LWP::UserAgent(agent => "$0/$version");
 $ua->env_proxy();
 $resp = $ua->mirror($url, $txt);
 if($resp && $resp->code eq '304') {
   report "Not modified";
   exit 0 if -e $crt && !$opt_f;
  }
 else {
   fetched = 1;
   report "Downloaded $txt";
 if(!$resp || $resp->code !~ /^(?:200|304)$/) {
   report "Unable to download latest data: "
    . ($resp? $resp->code . ' - ' . $resp->message : "LWP failed");
  exit 1 if -e $crt || ! -r $txt;
  }
}
}
my $filedate = $resp ? $resp->last_modified : (stat($txt))[9];
my $datesrc = "as of";
if(!$filedate) {
 # mxr.mozilla.org gave us a time, hg.mozilla.org does not!
 $filedate = time();
 $datesrc="downloaded on";
}
# get the hash from the download file
my $newhash= sha256($txt);
if(!$opt_f && $oldhash eq $newhash) {
 report "Downloaded file identical to previous run\'s source file. Exiting";
```

```
if($opt_u && -e $txt && !unlink($txt)) {
    report "Failed to remove $txt: $!\n";
  }
 exit;
}
report "SHA256 of new file: $newhash";
my $currentdate = scalar gmtime($filedate);
my $format = $opt_t ? "plain text and " : "";
if($stdout) {
 open(CRT, '> -') or die "Couldn't open STDOUT: $!\n";
} else {
 open(CRT,">$crt.~") or die "Couldn't open $crt.~: $!\n";
print CRT <<EOT;</pre>
## Bundle of CA Root Certificates
## Certificate data from Mozilla ${datesrc}: ${currentdate} GMT
## This is a bundle of X.509 certificates of public Certificate Authorities
## (CA). These were automatically extracted from Mozilla's root certificates
## file (certdata.txt). This file can be found in the mozilla source tree:
## ${url}
##
## It contains the certificates in ${format}PEM format and therefore
## can be directly used with curl / libcurl / php_curl, or with
## an Apache+mod_ssl webserver for SSL client authentication.
## Just configure this file as the SSLCACertificateFile.
## Conversion done with mk-ca-bundle.pl version $version.
## SHA256: $newhash
##
EOT
report
"Processing '$txt' ...";
my $caname;
my $certnum = 0;
my $skipnum = 0;
my $start_of_cert = 0;
my $main_block = 0;
my $main_block_name;
my $trust_block = 0;
my $trust_block_name;
```

```
my @precert;
my $cka_value;
my valid = 0;
open(TXT,"$txt") or die "Couldn't open $txt: $!\n";
while (<TXT>) {
if (/\*\*\*\* BEGIN LICENSE BLOCK \*\*\*\*/) {
 print CRT;
 print if ($opt_l);
 while (<TXT>) {
  print CRT;
  print if ($opt_l);
  last if (\\*\*\*\*\ END LICENSE BLOCK \*\*\*\*\/);
  }
 next;
}
# The input file format consists of blocks of Mozilla objects.
# The blocks are separated by blank lines but may be related.
elsif(/^\s*\$/) {
 main_block = 0;
 to strust block = 0;
 next;
# Each certificate has a main block.
elsif(/^# Certificate "(.*)"/) {
 (!$main_block && !$trust_block) or die "Unexpected certificate block";
 main block = 1;
 $main_block_name = $1;
 # Reset all other certificate variables.
  $trust block =
0;
 $trust_block_name = "";
 valid = 0;
 $start_of_cert = 0;
 $caname = "";
 $cka_value = "";
 undef @precert;
 next;
# Each certificate's main block is followed by a trust block.
elsif(/^# Trust for (?:Certificate )?"(.*)"/) {
 (!$main_block && !$trust_block) or die "Unexpected trust block";
 $trust_block = 1;
 $trust_block_name = $1;
 if($main_block_name ne $trust_block_name) {
  die "cert name \"$main_block_name\" != trust name \"$trust_block_name\"";
  }
 next;
```

```
# Ignore other blocks.
# There is a documentation comment block, a BEGINDATA block, and a bunch of
# blocks starting with "# Explicitly Distrust <certname>".
# The latter is for certificates that have already been removed and are not
# included. Not all explicitly distrusted certificates are ignored at this
# point, just those without an actual certificate.
elsif(!$main_block && !$trust_block) {
 next;
}
elsif(/^#/) {
 # The commented lines
in a main block are plaintext metadata that describes
 # the certificate. Issuer, Subject, Fingerprint, etc.
 if($main_block) {
  push @precert, $ if not /\^#$/;
  if(/^# Not Valid After : (.*)/) {
   my stamp = 1;
   use Time::Piece;
   # Not Valid After: Thu Sep 30 14:01:15 2021
   my $t = Time::Piece->strptime($stamp, "%a %b %d %H:%M:%S %Y");
   my $delta = ($t->epoch - time()); # negative means no longer valid
   if(\$delta < 0) {
    $skipnum++;
    report "Skipping: $main_block_name is not valid anymore" if ($opt_v);
    valid = 0:
   }
   else {
    valid = 1;
   }
  }
 }
 next;
elsif(!$valid) {
 next;
}
chomp;
if($main_block) {
 if(/^CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE/) {
  !$start_of_cert or die "Duplicate CKO_CERTIFICATE object";
  $start_of_cert = 1;
  next;
 }
```

```
elsif(!$start_of_cert) {
 next;
}
elsif(/^CKA_LABEL UTF8 \"(.*)\"/)
 ($caname eq "") or die "Duplicate CKA_LABEL attribute";
 caname = $1;
 if($caname ne $main_block_name) {
  die "caname \"$caname\" != cert name \"$main_block_name\"";
 }
 next;
elsif(/^CKA_VALUE MULTILINE_OCTAL/) {
 ($cka_value eq "") or die "Duplicate CKA_VALUE attribute";
 while (<TXT>) {
  last if (/^END/);
  chomp;
  my @octets = split(\langle \rangle);
  shift @octets;
  for (@octets) {
   $cka_value .= chr(oct);
  }
 }
 next;
}
elsif (/^CKA_NSS_SERVER_DISTRUST_AFTER (CK_BBOOL CK_FALSE|MULTILINE_OCTAL)/) {
 # Example:
 \#\,CKA\_NSS\_SERVER\_DISTRUST\_AFTER\,MULTILINE\_OCTAL
 \# \062\060\060\066\061\067\060\060\060\060\060\060\132
 # END
 if($1 eq "MULTILINE_OCTAL") {
  my @timestamp;
  while (<TXT>) {
   last if (/^END/);
   chomp;
   my @octets = split(\langle \rangle);
   shift @octets;
   for (@octets) {
push @timestamp, chr(oct);
   }
  }
  scalar(@timestamp) == 13 or die "Failed parsing timestamp";
  # A trailing Z in the timestamp signifies UTC
  if($timestamp[12] ne "Z") {
   report "distrust date stamp is not using UTC";
  # Example date: 200617000000Z
```

```
# Means 2020-06-17 00:00:00 UTC
         my $distrustat =
            timegm($timestamp[10] . $timestamp[11], # second
                       $timestamp[8]. $timestamp[9], # minute
                       $timestamp[6]. $timestamp[7], # hour
                        $timestamp[4] . $timestamp[5], # day
                        ($timestamp[2] . $timestamp[3]) - 1, # month
                        "20" . $timestamp[0] . $timestamp[1]); # year
         if(time >= $distrustat) {
            # not trusted anymore
            $skipnum++;
            report "Skipping: $main_block_name is not trusted anymore" if ($opt_v);
            valid = 0:
          }
         else {
            # still trusted
         }
      }
  next;
  else {
     next;
   }
}
if(!\$trust_block || !\$start_of_cert || \$caname eq "" || \$cka_value eq "") {
  die "Certificate extraction failed";
}
my %trust_purposes_by_level;
if(/^CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST/) {
  # now scan the trust part to determine how we should trust this cert
  while (<TXT>) {
     if(/^\s*\$/) {
         trust_block = 0;
         last;
      if (/^{CKA}_{TRUST}([A-Z_]+)\backslash s+CK_{TRUST}\backslash s+CKT_{NSS}([A-Z_]+)\backslash s*\$/) \ \{ (A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(A-Z_]+(
         if ( !is_in_list($1,@valid_mozilla_trust_purposes) ) {
            report "Warning: Unrecognized trust purpose for cert: $caname. Trust purpose: $1. Trust Level: $2";
          } elsif ( !is_in_list($2,@valid_mozilla_trust_levels) ) {
            report "Warning: Unrecognized trust level for cert: $caname. Trust purpose: $1. Trust Level: $2";
            push @{$trust_purposes_by_level{$2}}, $1;
          }
      }
```

```
}
# Sanity check that an explicitly distrusted certificate only has trust
# purposes with a trust level of NOT_TRUSTED.
# Certificate objects that are explicitly distrusted are in a certificate
# block that starts # Certificate "Explicitly Distrust(ed) <certname>",
# where "Explicitly Distrust(ed)" was prepended to the original cert name.
if($caname =~ /distrust/i ||
 $main block name =~ /distrust/i ||
 $trust_block_name =~ /distrust/i) {
 my @levels = keys %trust_purposes_by_level;
 if(scalar(@levels) != 1 || $levels[0] ne "NOT_TRUSTED") {
  die "\"$caname\" must have all trust purposes at level NOT_TRUSTED.";
}
if (!should output cert(%trust purposes by level)) {
 $skipnum ++;
 report "Skipping: $caname lacks acceptable trust level" if ($opt_v);
 my $encoded = MIME::Base64::encode_base64($cka_value, ");
 =  s/(.\{1, \{opt_w\}\})/\{1/n/g;
 my $pem = "-----BEGIN CERTIFICATE-----\n"
      . $encoded
      . "-----END CERTIFICATE-----\n";
 print CRT "\n$caname\n";
 my \ \$maxStringLength = length(decode('UTF-8', \$caname, Encode::FB\_CROAK \mid Encode::LEAVE\_SRC));
 print CRT ("=" x $maxStringLength . "\n");
 if ($opt_t) {
  foreach my $key (sort keys %trust_purposes_by_level) {
    my $string = $key . ": " . join(", ", @{$trust_purposes_by_level{$key}});
    print CRT $string . "\n";
  }
 }
 if($opt_m) {
  print CRT for @precert;
 if (!$opt_t) {
  print CRT $pem;
 } else {
  my $pipe = "";
  foreach my $hash (@included_signature_algorithms) {
   $pipe = "|$openssl x509 -" . $hash . " -fingerprint -noout -inform PEM";
   if (!$stdout) {
    $pipe .= " >> $crt.~";
    close(CRT) or die "Couldn't close $crt.~: $!";
   }
```

```
open(TMP, $pipe) or die "Couldn't open openssl pipe: $!";
     print TMP $pem;
     close(TMP) or die "Couldn't close openssl pipe: $!";
 if (!$stdout) {
      open(CRT, ">>$crt.~") or die "Couldn't open $crt.~: $!";
     }
    $pipe = "|$openssl x509 -text -inform PEM";
    if (!$stdout) {
     $pipe .= " >> $crt.~";
     close(CRT) or die "Couldn't close $crt.~: $!";
    open(TMP, $pipe) or die "Couldn't open openssl pipe: $!";
    print TMP $pem;
    close(TMP) or die "Couldn't close openssl pipe: $!";
    if (!$stdout) {
     open(CRT, ">>$crt.~") or die "Couldn't open $crt.~: $!";
    }
   report "Processed: $caname" if ($opt_v);
   $certnum ++;
  }
}
close(TXT) or die "Couldn't close $txt: $!\n";
close(CRT) or die "Couldn't close $crt.~: $!\n";
unless($stdout) {
 if ($opt_b && -e $crt) {
    my \$bk = 1;
    while (-e "$crt.~${bk}~") {
      $bk++;
    rename $crt, "$crt.~${bk}~" or die "Failed to create backup $crt.~$bk}~: $!\n";
  } elsif( -e $crt ) {
    unlink($crt) or die "Failed
to remove $crt: $!\n";
 rename "$crt.~", $crt or die "Failed to rename $crt.~ to $crt: $!\n";
if($opt_u && -e $txt && !unlink($txt)) {
report "Failed to remove $txt: $!\n";
report "Done ($certnum CA certs processed, $skipnum skipped).";
Found in path(s):
*/opt/cola/permits/2224916369_1736352461.0653906/0/ca-certificates-20241010-tar-gz/ca-certificates-
20241010/mk-ca-bundle.pl
```

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

/* c_rehash.c - Create hash symlinks for certificates

* C implementation based on the original Perl and shell versions

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Found in path(s):

 $*/opt/cola/permits/2224916369_1736352461.0653906/0/ca-certificates-20241010-tar-gz/ca-certificates-20241010/c_rehash.c$

1.61 skalibs 2.14.3.0-r0

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1.62 openssl 3.3.2-r3

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1.63 utmps 0.1.2.3-r2

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jar/org/objectweb/asm/CurrentFrame.java
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jar/org/objectweb/asm/MethodVisitor.java
* /opt/cola/permits/2250523694_1730397637.7305927/0/asm-9-7-1-sources-1-
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*/opt/cola/permits/2250523694_1730397637.7305927/0/asm-9-7-1-sources-1-jar/org/objectweb/asm/Handle.java
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jar/org/objectweb/asm/ClassReader.java
* /opt/cola/permits/2250523694_1730397637.7305927/0/asm-9-7-1-sources-1-
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jar/org/objectweb/asm/SymbolTable.java
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```

jar/org/objectweb/asm/signature/package.html

* /opt/cola/permits/2250523694_1730397637.7305927/0/asm-9-7-1-sources-1-

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jar/org/objectweb/asm/FieldVisitor.java
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jar/org/objectweb/asm/TypeReference.java
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*/opt/cola/permits/2250523694 1730397637.7305927/0/asm-9-7-1-sources-1-jar/org/objectweb/asm/Opcodes.java
* /opt/cola/permits/2250523694_1730397637.7305927/0/asm-9-7-1-sources-1-jar/org/objectweb/asm/Handler.java
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1.65 jackson 2.17.3

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Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007.

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1.66 jackson-databind 2.17.3

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1.67 openssl 3.3.2-r4

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1.68 ca-certificates 20241010-r0

1.68.1 Available under license:

```
# Contributor: Patrycja Rosa <alpine@ptrcnull.me>
# Maintainer: Patrycja Rosa <alpine@ptrcnull.me>
pkgname=bsd-compat-headers
pkgver=0.7.2
pkgrel=6
pkgdesc="BSD compatibility headers (cdefs, queue, tree)"
url="https://gitlab.alpinelinux.org/alpine/aports"
arch="noarch"
license="BSD-2-Clause AND BSD-3-Clause"
source="
 cdefs.h
 queue.h
 tree.h
builddir="$srcdir"
options="!check" # just headers
package() {
 mkdir -p "$pkgdir"
 install -Dm644 -t "pkgdir"/usr/include/sys \
  cdefs.h queue.h tree.h
}
sha512sums="
37c8fc73c7aea7b490f7850927e2bb91d12137c9e59e22c084146d515696dbc7973b5de92f4c987ba080dd2502ba8312
7006442c3f019b6447a620c0cae73178 cdefs.h
2f0d5e6e4dc3350285cf17009265dddcbe12431c111868eea39bc8cb038ab7c1f2acacbb21735c4e9d4a1fd106a8fc0f86
11ea33987d4faba37dde5ce6da0750 queue.h
d9ac210d81feb8ad2655bc80fb065d3fe20ae4417b32b4a1711e6738a4870140005c13373b5d1846ef3ce5ae6da45f2daa4417b32b4a1711e6738a4870140005c13373b5d1846ef3ce5ae6da45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa45f2daa5f2daa5f2daa5f2daa5f2daa5f2daa5f2daa5f2daa5f2daa5f2daa5f2daa5f2daa5f2daa5f2daa5f2daa5f2daa5f2daa5f2d
cef2092881eded0a2e94f6a07752ef3 tree.h
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The X-Spline code was written Carole Blanc (blanc@labri.u-bordeaux.fr) and Christophe Schlick (schlick@labri.ubordeaux.fr) starting from an initial implementation done by C. Feuille, S. Grosbois, L. Maziere and L. Minihot as a student practice (Universite Bordeaux, France). For additional information about X-splines, see:

"X-Splines: A Spline Model Designed for the End User" by C. Blanc and C. Schlick, Proceedings of SIGGRAPH'95 http://dept-info.labri.u-bordeaux.fr/~schlick/DOC/sig1.html

```
# Automatically generated by apkbuild-cpan, template 4
# Contributor: Valery Kartel <valery.kartel@gmail.com>
# Maintainer: Celeste < cielesti@protonmail.com>
maintainer="Celeste <cielesti@protonmail.com>"
pkgname=perl-bsd-resource
pkgver=1.2911
pkgrel=10
#_pkgreal is used by apkbuild-cpan to find modules at MetaCpan
pkgreal=BSD-Resource
pkgdesc="Perl extension implements the BSD process resource limit functions"
url="https://metacpan.org/release/BSD-Resource/"
arch="all"
license="Artistic-2.0 OR LGPL-2.0"
depends="perl"
makedepends="perl-dev"
subpackages="$pkgname-doc"
source="https://cpan.metacpan.org/authors/id/J/JH/JHI/BSD-Resource-$pkgver.tar.gz"
builddir="$srcdir/$_pkgreal-$pkgver"
build() {
export CFLAGS=$(perl -MConfig -E 'say $Config{ccflags}')
PERL_MM_USE_DEFAULT=1 perl -I. Makefile.PL \
 INSTALLDIRS=vendor \
 NO_PACKLIST=1 \
 NO PERLLOCAL=1
make
}
check() {
export CFLAGS=$(perl -MConfig -E 'say $Config{ccflags}')
```

make test

```
}
package() {
make DESTDIR="$pkgdir" install
}
sha512sums="
8065ba65f4fea16dc9262728b3b6b85
BSD-Resource-1.2911.tar.gz
# Contributor: Fabian Affolter < fabian@affolter-engineering.ch>
# Maintainer: Fabian Affolter < fabian@affolter-engineering.ch>
pkgname=py3-flake8-copyright
_pkgname=flake8-copyright
pkgver=0.2.4
pkgrel=3
pkgdesc="Extension for flake8 which checks for copyrights"
options="!check" # No testsuite
url="https://github.com/savoirfairelinux/flake8-copyright"
arch="noarch"
license="MIT"
depends="py3-flake8 py3-setuptools"
makedepends="py3-gpep517 py3-wheel"
subpackages="$pkgname-pyc"
source="https://files.pythonhosted.org/packages/source/${_pkgname:0:1}/$_pkgname/$_pkgname-$pkgver.tar.gz"
builddir="$srcdir"/$_pkgname-$pkgver
replaces="py-flake8-copyright"
                                 # Backwards compatibility
provides="py-flake8-copyright=$pkgver-r$pkgrel" # Backwards compatibility
build() {
gpep517 build-wheel \
--wheel-dir .dist \
 --output-fd 3 3>&1 >&2
package() {
gpep517 install-wheel --destdir "$pkgdir" \
 .dist/*.whl
}
sha512sums="
b316bd503ae7dceed6ca284ccd5a74d
 flake8-copyright-0.2.4.tar.gz
```

```
# Maintainer: fossdd <fossdd@pwned.life>
pkgname=cargo-license
pkgver=0.6.1
pkgrel=1
pkgdesc="Cargo subcommand to see license of dependencies"
url="https://github.com/onur/cargo-license"
arch="all"
license="MIT"
makedepends="cargo cargo-auditable"
source="$pkgname-$pkgver.tar.gz::https://crates.io/api/v1/crates/cargo-license/$pkgver/download"
prepare() {
default_prepare
cargo fetch --target="$CTARGET" --locked
}
build() {
cargo auditable build --release --frozen
}
check() {
cargo test --frozen
package() {
install -Dm755 target/release/cargo-license -t "$pkgdir"/usr/bin
}
sha512sums="
36215145e79965be090ae2f5ce6f5eb208465eb67a94c26bed1fe70a131c46c6dc35695e30852759b7366883fbc3caf00
272d796ac634f0a5e1d49232b6b29d5 cargo-license-0.6.1.tar.gz
# Contributor: Dhruvin Gandhi <contact@dhru.vin>
# Maintainer: Patrycja Rosa <alpine@ptrcnull.me>
pkgname=py3-license-expression
_pkgname=license_expression
pkgver=30.4.0
pkgrel=0
pkgdesc="Library to parse, compare, simplify and normalize license expressions"
url="https://github.com/nexB/license-expression"
arch="noarch"
license="Apache-2.0"
depends="python3 py3-boolean.py"
makedepends="py3-setuptools py3-setuptools_scm py3-gpep517 py3-wheel"
checkdepends="py3-pytest py3-pytest-xdist"
subpackages="$pkgname-pyc"
source="https://files.pythonhosted.org/packages/source/l/$_pkgname/$_pkgname-$pkgver.tar.gz"
```

```
builddir="$srcdir/$_pkgname-$pkgver"
build() {
gpep517 build-wheel \
 --wheel-dir .dist \
 --output-fd 3 3>&1 >&2
}
check() {
python3 -m venv --clear --without-pip --system-site-packages .testenv
.testenv/bin/python3 -m installer .dist/*.whl
.testenv/bin/python3 -m pytest
}
package() {
python3 -m installer -d "$pkgdir" \
 .dist/*.whl
sha512sums="
dc2bff0a38b130d9d83c63538502db1
 license_expression-30.4.0.tar.gz
# Contributor: Maxim Karasev <begs@disroot.org>
# Maintainer: mio <miyopan@e.email>
pkgname=bsd-games
pkgver=3.3
pkgrel=2
pkgdesc="traditional text mode games from BSD"
url="https://bsd-games.sourceforge.io/"
arch="all"
license="BSD-3-Clause"
install="$pkgname.post-install"
makedepends="ncurses-dev coreutils" # configure causes busybox expr error
subpackages="$pkgname-doc"
source="https://sourceforge.net/projects/bsd-games/files/bsd-games-$pkgver.tar.gz
0001-bsd-games-scores-dir.patch
options="!check" # no tests
build() {
# some GNU autoconf options are ignored, but it works
./configure \
 --build=$CBUILD \
 --host=$CHOST \
 --prefix=/usr \
 --sysconfdir=/etc \
```

```
--mandir=/usr/share/man \
--scoredir=/usr/share/$pkgname
make

}

package() {
make DESTDIR="$pkgdir" install
install -Dm644 LICENSE "$pkgdir"/usr/share/licenses/bsd-games/LICENSE
}

sha512sums="
aaf36d09d4fe68514a5c279063d7e77a9a9a84c447037cba974b29faa07eb80c2aab2379d0699c196b5c27ffe1b2bb2c6
8d3390143e0e62d5e3d210ccfb61294
bsd-games-3.3.tar.gz
e1def0d4835a877242c4173fae862e278a7858738e0bacacbb045a42bcabec2aa7c72d000bbd2421ce35fe66cdc1f52c0
577b7e278029ca5ed50f7aab22319f6 0001-bsd-games-scores-dir.patch
"

Vintage Dreams Waves v 2.0. for Creative Labs' AWE Soundcards
(EMU Soundfont 2 Format)
```

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vintagedreamworks@hotmail.com
http://www.geocities.com/SiliconValley/Campus/8645/index.html
http://members.nbci.com/silicon39/
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```
SOFTWARE.
# Contributor: Carlo Landmeter <clandmeter@alpinelinux.org>
# Maintainer: Kevin Daudt <kdaudt@alpinelinux.org>
pkgname=spdx-licenses
pkgver=3.24.0
pkgrel=0
pkgdesc="Various data formats for the SPDX License List"
url="https://spdx.org/"
arch="noarch"
options="!check" # no test suite
license="CC-BY-3.0"
source="license-list-data-$pkgver.tar.gz":https://github.com/spdx/license-list-data/archive/v$pkgver.tar.gz"
builddir="$srcdir/license-list-data-$pkgver"
subpackages="$pkgname-list"
_types="html json rdfa rdfnt rdfturtle rdfxml template text"
for type in $_types; do
subpackages="$subpackages $pkgname-$type:_subpkg"
done
package() {
mkdir -p "$pkgdir"
}
_subpkg() {
local type=${subpkgname/$pkgname-/}
pkgdesc="$pkgdesc ($type)"
install_if="$pkgname=$pkgver-r$pkgrel"
mkdir -p "$subpkgdir"/usr/share/spdx
cp -r "$builddir"/$type "$subpkgdir"/usr/share/spdx/
}
list() {
pkgdesc="$pkgdesc (licence list)"
mkdir -p "$subpkgdir"/usr/share/spdx
local i; for i in "$builddir"/text/*.txt;
```

```
do
 local license=${i##*/}
 echo ${license%.*} >> "$subpkgdir"/usr/share/spdx/license.lst
done
}
sha512sums="
6a6ebb9463b70121e0a12b99d1307e7 license-list-data-3.24.0.tar.gz
# Maintainer: Natanael Copa <ncopa@alpinelinux.org>
pkgname=libart-lgpl
pkgver=2.3.21
pkgrel=8
pkgdesc="A library for high-performance 2D graphics"
url="https://www.levien.com/libart/"
arch="all"
options="!check" # No test suite.
license="LGPL-2.0-or-later"
subpackages="$pkgname-dev"
source="https://download.gnome.org/sources/libart_lgpl/2.3/libart_lgpl-$pkgver.tar.bz2
builddir="$srcdir"/libart_lgpl-$pkgver
prepare() {
update_config_sub
default_prepare
}
build() {
./configure \
 --build=$CBUILD \
 --host=$CHOST \
--prefix=/usr
make
}
package() {
make DESTDIR="$pkgdir" install
}
sha512sums="8a632a6a4da59e5e8c02ec2f5a57e36d182b325b46513765425e5f171ff9ae326af1b133725beba28f7e7
6654309e001aee9bace727b5b4c8589405256a3c020 libart_lgpl-2.3.21.tar.bz2"
mini_sendmail - accept email on behalf of real sendmail
Copyright 1999,2015 by Jef Poskanzer < jef@mail.acme.com>.
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```

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1.69 musl 1.2.5-r8

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1.70 apk-tools 2.14.6-r2

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Version 2, June 1991

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1.71 alpine-base 3.21.0-r0

1.71.1 Available under license:

```
# Contributor: Patrycja Rosa <alpine@ptrcnull.me>
# Maintainer: Patrycja Rosa <alpine@ptrcnull.me>
pkgname=bsd-compat-headers
pkgver=0.7.2
pkgrel=6
pkgdesc="BSD compatibility headers (cdefs, queue, tree)"
url="https://gitlab.alpinelinux.org/alpine/aports"
arch="noarch"
license="BSD-2-Clause AND BSD-3-Clause"
source="
cdefs.h
queue.h
tree.h
builddir="$srcdir"
options="!check" # just headers
package() {
mkdir -p "$pkgdir"
install -Dm644 -t "$pkgdir"/usr/include/sys \
 cdefs.h queue.h tree.h
}
sha512sums="
37c8fc73c7aea7b490f7850927e2bb91d12137c9e59e22c084146d515696dbc7973b5de92f4c987ba080dd2502ba8312
7006442c3f019b6447a620c0cae73178 cdefs.h
2f0d5e6e4dc3350285cf17009265dddcbe12431c111868eea39bc8cb038ab7c1f2acacbb21735c4e9d4a1fd106a8fc0f86
11ea33987d4faba37dde5ce6da0750 queue.h
d9ac210d81feb8ad2655bc80fb065d3fe20ae4417b32b4a1711e6738a4870140005c13373b5d1846ef3ce5ae6da45f2da
cef2092881eded0a2e94f6a07752ef3 tree.h
Original Copyright (c) 1985 by Supoj Sutanthavibul
Parts Copyright (c) 1989-2012 by Brian V. Smith
Parts Copyright (c) 1991 by Paul King
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```

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The X-Spline code was written Carole Blanc (blanc@labri.u-bordeaux.fr) and Christophe Schlick@labri.u-bordeaux.fr) starting from an initial implementation done by C. Feuille, S. Grosbois, L. Maziere and L. Minihot as a student practice (Universite Bordeaux, France). For additional information about X-splines, see:

"X-Splines: A Spline Model Designed for the End User" by C. Blanc and C. Schlick, Proceedings of SIGGRAPH'95 http://dept-info.labri.u-bordeaux.fr/~schlick/DOC/sig1.html # Automatically generated by apkbuild-cpan, template 4 # Contributor: Valery Kartel <valery.kartel@gmail.com> # Maintainer: Celeste < cielesti@protonmail.com> maintainer="Celeste <cielesti@protonmail.com>" pkgname=perl-bsd-resource pkgver=1.2911 pkgrel=10 #_pkgreal is used by apkbuild-cpan to find modules at MetaCpan _pkgreal=BSD-Resource pkgdesc="Perl extension implements the BSD process resource limit functions" url="https://metacpan.org/release/BSD-Resource/" arch="all" license="Artistic-2.0 OR LGPL-2.0" depends="perl" makedepends="perl-dev" subpackages="\$pkgname-doc" source="https://cpan.metacpan.org/authors/id/J/JH/JHI/BSD-Resource-\$pkgver.tar.gz" builddir="\$srcdir/\$_pkgreal-\$pkgver" build() { export CFLAGS=\$(perl -MConfig -E 'say \$Config{ccflags}') PERL_MM_USE_DEFAULT=1 perl -I. Makefile.PL \ INSTALLDIRS=vendor \ NO_PACKLIST=1 \ NO PERLLOCAL=1 make } export CFLAGS=\$(perl -MConfig -E 'say \$Config{ccflags}') make test } package() {

make DESTDIR="\$pkgdir" install

```
sha512sums="
8065ba65f4fea16dc9262728b3b6b85
 BSD-Resource-1.2911.tar.gz
# Contributor: Fabian Affolter < fabian@affolter-engineering.ch>
# Maintainer: Fabian Affolter < fabian@affolter-engineering.ch>
pkgname=py3-flake8-copyright
_pkgname=flake8-copyright
pkgver=0.2.4
pkgrel=3
pkgdesc="Extension for flake8 which checks for copyrights"
options="!check" # No testsuite
url="https://github.com/savoirfairelinux/flake8-copyright"
arch="noarch"
license="MIT"
depends="py3-flake8 py3-setuptools"
makedepends="py3-gpep517 py3-wheel"
subpackages="$pkgname-pyc"
source="https://files.pythonhosted.org/packages/source/${_pkgname:0:1}/$_pkgname/$_pkgname-$pkgver.tar.gz"
builddir="$srcdir"/$_pkgname-$pkgver
replaces="py-flake8-copyright"
                                     # Backwards compatibility
provides="py-flake8-copyright=$pkgver-r$pkgrel" # Backwards compatibility
build() {
gpep517 build-wheel \
--wheel-dir .dist \
 --output-fd 3 3>&1 >&2
}
package() {
gpep517 install-wheel --destdir "$pkgdir" \
 .dist/*.whl
sha512sums="
a6ab47e1bb715618f075c51f398e18180404871b3b0faf1c2d30701d5203db6bc23771bf22ffb5bafcd8ee856b9b64237
b316bd503ae7dceed6ca284ccd5a74d
 flake8-copyright-0.2.4.tar.gz
# Maintainer: fossdd <fossdd@pwned.life>
pkgname=cargo-license
pkgver=0.6.1
pkgrel=1
pkgdesc="Cargo subcommand to see license of dependencies"
url="https://github.com/onur/cargo-license"
```

```
arch="all"
license="MIT"
makedepends="cargo cargo-auditable"
source="$pkgname-$pkgver.tar.gz::https://crates.io/api/v1/crates/cargo-license/$pkgver/download"
prepare() {
default_prepare
cargo fetch --target="$CTARGET" --locked
}
build() {
cargo auditable build --release --frozen
}
check() {
cargo test --frozen
package() {
install -Dm755 target/release/cargo-license -t "$pkgdir"/usr/bin
}
sha512sums="
36215145e79965be090ae2f5ce6f5eb208465eb67a94c26bed1fe70a131c46c6dc35695e30852759b7366883fbc3caf00
272d796ac634f0a5e1d49232b6b29d5 cargo-license-0.6.1.tar.gz
# Contributor: Dhruvin Gandhi <contact@dhru.vin>
# Maintainer: Patrycja Rosa <alpine@ptrcnull.me>
pkgname=py3-license-expression
_pkgname=license_expression
pkgver=30.4.0
pkgrel=0
pkgdesc="Library to parse, compare, simplify and normalize license expressions"
url="https://github.com/nexB/license-expression"
arch="noarch"
license="Apache-2.0"
depends="python3 py3-boolean.py"
makedepends="py3-setuptools py3-setuptools_scm py3-gpep517 py3-wheel"
checkdepends="py3-pytest py3-pytest-xdist"
subpackages="$pkgname-pyc"
source="https://files.pythonhosted.org/packages/source/l/$_pkgname/$_pkgname-$pkgver.tar.gz"
builddir="$srcdir/$_pkgname-$pkgver"
build() {
gpep517 build-wheel \
 --wheel-dir .dist \
 --output-fd 3 3>&1 >&2
```

```
}
check() {
python3 -m venv --clear --without-pip --system-site-packages .testenv
.testenv/bin/python3 -m installer .dist/*.whl
.testenv/bin/python3 -m pytest
}
package() {
python3 -m installer -d "$pkgdir" \
 .dist/*.whl
sha512sums="
dc2bff0a38b130d9d83c63538502db1
 license\_expression\text{-}30.4.0.tar.gz
# Contributor: Maxim Karasev <begs@disroot.org>
# Maintainer: mio <miyopan@e.email>
pkgname=bsd-games
pkgver=3.3
pkgrel=2
pkgdesc="traditional text mode games from BSD"
url="https://bsd-games.sourceforge.io/"
arch="all"
license="BSD-3-Clause"
install="$pkgname.post-install"
makedepends="ncurses-dev coreutils" # configure causes busybox expr error
subpackages="$pkgname-doc"
source="https://sourceforge.net/projects/bsd-games/files/bsd-games-$pkgver.tar.gz
0001-bsd-games-scores-dir.patch
options="!check" # no tests
build() {
# some GNU autoconf options are ignored, but it works
./configure \
 --build=$CBUILD \
 --host=$CHOST \
 --prefix=/usr \
 --sysconfdir=/etc \
 --mandir=/usr/share/man \
 --scoredir=/usr/share/$pkgname
make
package() {
```

```
make DESTDIR="$pkgdir" install install -Dm644 LICENSE "$pkgdir"/usr/share/licenses/bsd-games/LICENSE }
sha512sums="
aaf36d09d4fe68514a5c279063d7e77a9a9a84c447037cba974b29faa07eb80c2aab2379d0699c196b5c27ffe1b2bb2c6
8d3390143e0e62d5e3d210ccfb61294
bsd-games-3.3.tar.gz
e1def0d4835a877242c4173fae862e278a7858738e0bacacbb045a42bcabec2aa7c72d000bbd2421ce35fe66cdc1f52c0
577b7e278029ca5ed50f7aab22319f6 0001-bsd-games-scores-dir.patch
"
```

Vintage Dreams Waves v 2.0. for Creative Labs' AWE Soundcards (EMU Soundfont 2 Format)

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http://www.geocities.com/SiliconValley/Campus/8645/index.html
http://members.nbci.com/silicon39/
http://www.mp3.com/silicon39
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```
# Contributor: Carlo Landmeter <clandmeter@alpinelinux.org>
# Maintainer: Kevin Daudt <kdaudt@alpinelinux.org>
pkgname=spdx-licenses
pkgver=3.24.0
pkgrel=0
pkgdesc="Various data formats for the SPDX License List"
url="https://spdx.org/"
arch="noarch"
options="!check" # no test suite
license="CC-BY-3.0"
source="license-list-data-$pkgver.tar.gz::https://github.com/spdx/license-list-data/archive/v$pkgver.tar.gz"
builddir="$srcdir/license-list-data-$pkgver"
subpackages="$pkgname-list"
_types="html json rdfa rdfnt rdfturtle rdfxml template text"
for type in $_types; do
subpackages="$subpackages $pkgname-$type:_subpkg"
done
package() {
mkdir -p "$pkgdir"
}
_subpkg() {
local type=${subpkgname/$pkgname-/}
pkgdesc="$pkgdesc ($type)"
install_if="$pkgname=$pkgver-r$pkgrel"
mkdir -p "$subpkgdir"/usr/share/spdx
cp -r "$builddir"/$type "$subpkgdir"/usr/share/spdx/
}
list() {
pkgdesc="$pkgdesc (licence list)"
mkdir -p "$subpkgdir"/usr/share/spdx
local i; for i in "$builddir"/text/*.txt;
do
 local license=${i##*/}
 echo ${license%.*} >> "$subpkgdir"/usr/share/spdx/license.lst
done
}
```

```
sha512sums="
6a6ebb9463b70121e0a12b99d1307e7 license-list-data-3.24.0.tar.gz
# Maintainer: Natanael Copa <ncopa@alpinelinux.org>
pkgname=libart-lgpl
pkgver=2.3.21
pkgrel=8
pkgdesc="A library for high-performance 2D graphics"
url="https://www.levien.com/libart/"
arch="all"
options="!check" # No test suite.
license="LGPL-2.0-or-later"
subpackages="$pkgname-dev"
source="https://download.gnome.org/sources/libart_lgpl/2.3/libart_lgpl-$pkgver.tar.bz2
builddir="$srcdir"/libart_lgpl-$pkgver
prepare() {
update_config_sub
default_prepare
}
build() {
./configure \
 --build=$CBUILD \
 --host=$CHOST \
--prefix=/usr
make
}
package() {
make DESTDIR="$pkgdir" install
}
sha512sums="8a632a6a4da59e5e8c02ec2f5a57e36d182b325b46513765425e5f171ff9ae326af1b133725beba28f7e7
6654309e001aee9bace727b5b4c8589405256a3c020 libart_lgpl-2.3.21.tar.bz2"
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1.75 musl-utils 1.2.5-r8

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1.76 libcrypto3 3.3.2-r4

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 $_pkgreal = Software - License$

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pkgdesc="packages that provide templated software licenses"

```
url="http://search.cpan.org/dist/Software-License/"
arch="noarch"
license="GPL PerlArtistic"
cpandepends="perl-text-template perl-data-section perl-sub-install"
cpanmakedepends=" "
depends="$cpandepends"
makedepends="perl-dev $cpanmakedepends"
subpackages="$pkgname-doc"
source="http://search.cpan.org/CPAN/authors/id/R/RJRJBS/$_pkgreal-$pkgver.tar.gz"
_builddir="$srcdir/$_pkgreal-$pkgver"
prepare() {
cd "$_builddir"
export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}'`
PERL_MM_USE_DEFAULT=1 perl Makefile.PL INSTALLDIRS=vendor
}
build() {
cd "$_builddir"
export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}'`
make && make test
}
package() {
cd "$ builddir"
make
DESTDIR="$pkgdir" install || return 1
find "$pkgdir" \( -name perllocal.pod -o -name .packlist \) -delete
md5sums="0c5fd53d93818566234578b27d667b35" Software-License-0.103004.tar.gz"
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pkgdesc="Extension for flake8 which checks for copyrights"
url="https://github.com/savoirfairelinux/flake8-copyright"
arch="noarch"
license="MIT"
depends="flake8"
makedepends="python3-dev"
source="https://files.pythonhosted.org/packages/source/${_pkgname:0:1}/$_pkgname/$_pkgname-$pkgver.tar.gz"
builddir="$srcdir"/$_pkgname-$pkgver
build() {
cd "$builddir"
python3 setup.py build || return 1
package() {
cd "$builddir"
python3 setup.py install --prefix=/usr --root="$pkgdir" || return 1
md5sums="c6348990c6d74933bf5d5f6a55a14bdf flake8-copyright-0.2.0.tar.gz"
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0.2.0.tar.gz"
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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"
# Automatically generated by apkbuild-cpan, template 1
# Contributor: Valery Kartel <valery.kartel@gmail.com>
# Maintainer: Valery Kartel <valery.kartel@gmail.com>
pkgname=perl-bsd-resource
_pkgreal=BSD-Resource
pkgver=1.2909
pkgrel=1
pkgdesc="Perl extension implements the BSD process resource limit functions"
url="http://search.cpan.org/dist/BSD-Resource/"
arch="all"
license="GPL PerlArtistic"
cpandepends=""
cpanmakedepends=" "
depends="$cpandepends"
makedepends="perl-dev $cpanmakedepends"
subpackages="$pkgname-doc"
source="http://search.cpan.org/CPAN/authors/id/J/JH/JHI/$_pkgreal-$pkgver.tar.gz"
_builddir="$srcdir/$_pkgreal-$pkgver"
prepare() {
cd "$_builddir"
export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}'`
PERL_MM_USE_DEFAULT=1 perl Makefile.PL INSTALLDIRS=vendor
}
build() {
cd "$ builddir"
export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}'`
make && make test || return 1
}
package() {
cd "$ builddir"
make DESTDIR="$pkgdir" install || return 1
find "$pkgdir"
\( -name perllocal.pod -o -name .packlist \) -delete
md5sums="3c6dd2fa953088aa87e263f40818d012 BSD-Resource-1.2909.tar.gz"
sha256sums="c47d460e2bd00d8d049f6ff4a0f1f61957e289e8de45af5fc79e851e2e855e06 BSD-Resource-
1.2909.tar.gz"
85743363750157943c7f7700276cce2bd40a429fa430 BSD-Resource-1.2909.tar.gz"
```

1.78 scanelf 1.3.8-r1

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1.79 libssl3 3.3.2-r4

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1.80 alpine-release 3.21.0-r0

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1.83 cracklib-words 2.10.2-r1

1.83.1 Available under license:

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[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

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To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

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Finally,

software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license. Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

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Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and

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Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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

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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a

"work that uses the

library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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

Otherwise, if the work is a derivative of the Library, you may distribute

the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2)

will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

- c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
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- e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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<one line to give the library's name and a brief idea of what it does.>

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Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990 Ty Coon, President of Vice

That's all there is to it!

EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected in released code until Nov 2009 - slow release cycle...)

Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.

[Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML

looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=

r=20

GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists

=2Dmike

Re: [Cracklib-devel] cracklib license

From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
I understand that, and you're welcome to bring it up with Alec directly and see if he wants to relicense his code as LGPL... but at this point, it was enough to just get it consistent and documented as to what it was released under. This wasn't actually a license change, just a clarification of the licensing that was already in place.=20

-- Nathan

=20

Nathan Neulinger EMail: nneul@um...

University of Missouri - Rolla Phone: (573) 341-6679 UMR Information Technology Fax: (573) 341-4216

- > -----Original Message-----
- > From: cracklib-devel-bounces@li...
- > [mailto:cracklib-devel-bounces@li...] On Behalf Of
- > Mike Frysinger
- > Sent: Monday, October 01, 2007 8:15 PM
- > To: cracklib-devel@li...
- > Subject: [Cracklib-devel] cracklib license
- >=20
- > looks like 2.8.11 is out and marked as "GPL-2" ... releasing
- > libraries under
- > GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
- > -mike

Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML

On Monday 01 October 2007, Neulinger, Nathan

wrote:

- > I understand that, and you're welcome to bring it up with Alec directly
- > and see if he wants to relicense his code as LGPL... but at this point,
- > it was enough to just get it consistent and documented as to what it was

- > released under. This wasn't actually a license change, just a
- > clarification of the licensing that was already in place.

the original license (before moving to sourceforge -- aka, 2.7) was not=20 GPL-2 ... it was a modified artistic license ... i didnt notice the license==20

change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless th= eir=20

applications are also GPL-2 which imo is just wrong. it isnt the place of = a=20

library to dictact to application writes what license they should be using.= =20

thus LGPL-2.1 enters to fill this void.

=2Dmike

Re: [Cracklib-devel]

cracklib license

From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46
Seems like the ideal thing here would be for you and the other distro maintainers to get together with Alec in a conversation and come to a decision as to what licensing scheme y'all want. I haven't really done much other than cleaning up the packaging and patches and a small bit of additional code, so whatever licensing y'all come up with is fine by me.

```
-- Nathan
=20
------
Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
```

UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----

- > From: cracklib-devel-bounces@li...
- > [mailto:cracklib-devel-bounces@li...] On Behalf Of
- > Mike Frysinger
- > Sent: Monday, October 01, 2007 8:33 PM
- > To: Neulinger, Nathan
- > Cc: cracklib-devel@li...; Alec Muffett
- > Subject: Re: [Cracklib-devel] cracklib license
- >=20
- > On Monday 01 October 2007, Neulinger, Nathan wrote:
- >> I understand that, and you're welcome to bring it up with Alec
- > directly
- >> and see if he wants to relicense his code as LGPL... but at this
- > point,

- >> it was enough to just get it consistent and documented as to what
- > it was
- >> released under. This wasn't actually a license change, just a
- >> clarification of the licensing that was already in place.
- >=20
- > the original license (before moving to sourceforge -- aka, 2.7) was
- > not
- > GPL-2 ... it was a modified artistic license ... i didnt notice the
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- > change until it was mentioned in the latest notes.
- >=20
- > unlike the old license, GPL-2 prevents people from using cracklib
- > unless their
- > applications are also GPL-2 which imo is just wrong. it isnt the
- > place of a
- > library

to dictact to application writes what license they should

- > be using.
- > thus LGPL-2.1 enters to fill this void.
- > -mike

Re: [Cracklib-devel] cracklib license

From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57

- > Seems like the ideal thing here would be for you and the other distro
- > maintainers to get together with Alec in a conversation and come to a
- > decision as to what licensing scheme y'all want. I haven't really done
- > much other than cleaning up the packaging and patches and a small
- > bit of
- > additional code, so whatever licensing y'all come up with is fine
- > by me.

I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be linked with any code, not just GPL...

-a

Re: [Cracklib-devel] cracklib license

From: Devin Reade <gdr@gn...> - 2007-10-02 15:04

I would like to see it under LGPL as well. I

think it is in everyone's

best interests to have as secure systems as possible, and I think tainting it via GPL will just make it less likely that the library gets used, and will not usually cause companies/developers to GPL the dependent code (where it is not already GPL).

license in this situation. Devin If it's sinful, it's more fun. Re: [Cracklib-devel] cracklib license From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32 On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote: >> Seems like the ideal thing here would be for you and the other distro >> maintainers to get together with Alec in a conversation and come to a >> decision as to what licensing scheme y'all want. I haven't really done >> much other than cleaning up the packaging and patches and a small >> bit of >> additional code, so whatever licensing y'all come up with is fine >> by me. > I am sympathetic. Guys, what do you reckon? > What I am hearing so far is that LGPL makes sense, since it can be > linked with any code, not just GPL... My apologies for not chiming in in anything resembling a reasonable timeframe. I'd also suggest the LGPL, for the reason you noted above. Alternately, GPLv2 with the option of using the library under a later version of the GPL would permit applications which were released under version 3 of the GPL to use the library, too, which would be sufficient for the packages which are included in Fedora. FWIW, I'd personally lean toward LGPL. In any case, I thank you both for working on sorting this out. Cheers, Nalin Re: [Cracklib-devel] cracklib license From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27 Attachments: Message as HTML

I like GPL. I use it when I can, but I don't think that it's the correct

On Monday 28 January 2008, Nalin Dahyabhai wrote:

```
> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
  >>> Seems like the ideal thing here would be for you and the other distro
  >>> maintainers to get together with Alec in a conversation and come to a
  >>> decision as to what licensing scheme y'all want. I haven't really done
  >>> much other than cleaning up the packaging and patches and a small
  >>> bit of
  >>> additional code, so whatever licensing y'all come up with is fine
  >>> by me.
  >>
  >> I am sympathetic. Guys, what do you reckon?
  >> What I am hearing so far is that LGPL makes sense, since it can be
  >> linked with any code, not just GPL...
  > My apologies for not chiming in in anything resembling a reasonable
  > timeframe.
  > I'd also suggest the LGPL, for the reason you noted above. Alternately,
  > GPLv2 with the option of using
the library under a later version of the
  > GPL would permit applications which were released under version 3 of the
  > GPL to use the library, too, which would be sufficient for the packages
  > which are included in Fedora. FWIW, I'd personally lean toward LGPL.
  > In any case, I thank you both for working on sorting this out.
  looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
  the change now?
  -mike
  Re: [Cracklib-devel] cracklib license
  From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18
  >> In any case, I thank you both for working on sorting this out.
  > looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
  > the change now?
  yes. go for it. thanks++
  -a
  Re: [Cracklib-devel] cracklib license
  From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34
  Attachments: Message as HTML
  On Sunday 05 October
```

2008, Alec Muffett wrote: >>> In any case, I thank you both for working on sorting this out. >> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we >> make the change now? > yes. go for it. thanks++ Nathan Neulinger is the only one who can actually make said change ... -mike BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic. CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2. This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett. The below email references nneul@umr.edu address, as that is the address that was used at the time. For any future emails regarding this, please use nneul@neulinger.org. From alecm@crypticide.com Mon Oct 1 12:26:03 2007 Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959); Mon, 1 Oct 2007 12:26:03 -0500 Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959); Mon, 1 Oct 2007 12:26:02 -0500 Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000 Received: from smtp1.srv.mst.edu (131.151.1.43) by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000 Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47]) by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id 191Gxtpr020623 for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500

Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142]) by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311

```
for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from
[82.68.43.14] (helo=[192.168.1.3])
by rutherford.zen.co.uk with esmtp (Exim 4.50)
id 1IcOcX-0004Qt-6L
for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFEBE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger < nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
Content-Length:
585
Lines: 21
> ----- Forwarded message -----
> From: Neulinger, Nathan < nneul@umr.edu>
> Date: Sep 27, 2007 2:58 PM
> Subject: RE: cracklib license
> To: alecm@crypto.dircon.co.uk
>
> Any chance you could write me a self-contained email stating clearly
> that the license is being changed to GPL, so I could include that
> email
> in the repository and clean up the repository/tarballs? I have all the
> original discussion, but something succinct and self contained
> would be
> ideal.
The license for my code in the Cracklib distribution is henceforth GPL.
Happy now?:-)
-a
```

1.84 skalibs-libs 2.14.3.0-r0

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1.85 annotations 13.0

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- $*/opt/cola/permits/2308610419_1736174881.429713/0/annotations-13-0-sources-6-jar/org/intellij/lang/annotations/PrintFormat.java$
- $*/opt/cola/permits/2308610419_1736174881.429713/0/annotations-13-0-sources-6-jar/org/intellij/lang/annotations/RegExp.java$

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/opt/cola/permits/2308610419 1736174881.429713/0/annotations-13-0-sources-6-
jar/org/intellij/lang/annotations/Subst.java
* /opt/cola/permits/2308610419_1736174881.429713/0/annotations-13-0-sources-6-
jar/org/intellij/lang/annotations/Identifier.java
*/opt/cola/permits/2308610419_1736174881.429713/0/annotations-13-0-sources-6-
jar/org/intellij/lang/annotations/Language.java
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*/opt/cola/permits/2308610419 1736174881.429713/0/annotations-13-0-sources-6-
jar/org/jetbrains/annotations/NotNull.java
*/opt/cola/permits/2308610419 1736174881.429713/0/annotations-13-0-sources-6-
jar/org/jetbrains/annotations/TestOnly.java
*/opt/cola/permits/2308610419_1736174881.429713/0/annotations-13-0-sources-6-
jar/org/intellij/lang/annotations/MagicConstant.java
/opt/cola/permits/2308610419_1736174881.429713/0/annotations-13-0-sources-6-
jar/org/intellij/lang/annotations/JdkConstants.java
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- * /opt/cola/permits/2308610419_1736174881.429713/0/annotations-13-0-sources-6-jar/org/jetbrains/annotations/Contract.java
- * /opt/cola/permits/2308610419_1736174881.429713/0/annotations-13-0-sources-6-jar/org/intellij/lang/annotations/Flow.java

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- * /opt/cola/permits/2308610419_1736174881.429713/0/annotations-13-0-sources-6-jar/org/jetbrains/annotations/Nls.java
- $*/opt/cola/permits/2308610419_1736174881.429713/0/annotations-13-0-sources-6-jar/org/jetbrains/annotations/PropertyKey.java$

 $/opt/cola/permits/2308610419_1736174881.429713/0/annotations-13-0-sources-6-jar/org/jetbrains/annotations/NonNls.java$

1.86 jackson-dataformat-yaml 2.17.3

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1.87 jackson-annotations 2.17.3

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1.88 error_prone_annotations 2.23.0

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Manifest-Version: 1.0

Created-By: Maven JAR Plugin 3.2.2

Build-Jdk-Spec: 17

Automatic-Module-Name: com.google.errorprone.annotations Bundle-Description: Error Prone is a static analysis tool for Java that

catches common programming mistakes at compile-time.

Bundle-DocURL: https://errorprone.info/error_prone_annotations

Bundle-License: "Apache 2.0";link="http://www.apache.org/licenses/LICENS

E-2.0.txt"

Bundle-ManifestVersion: 2

Bundle-Name: error-prone annotations

Bundle-SCM: url="https://github.com/google/error-prone/error_prone_annot ations",connection="scm:git:https://github.com/google/error-prone.git/e rror_prone_annotations",developer-connection="scm:git:git@github.com:go

ogle/error-prone.git/error_prone_annotations",tag=HEAD Bundle-SymbolicName: com.google.errorprone.annotations

Bundle-Vendor: Google LLC Bundle-Version: 2.23.0

 $\label{lem:export-Package:com.google.error prone.annotations; uses:="javax.lang.modell.element"; version="2.23.0", com.google.error prone.annotations.concurrent productions annotations. Concurrent productions and the production of the productio$

t;version="2.23.0"

Import-Package: javax.lang.model.element

Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"

Found in path(s):

 $*/opt/cola/permits/2308999310_1736194229.7328682/0/error-prone-annotations-2-23-0-4-jar/META-INF/MANIFEST.MF$

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1.89 opentelemetry-semconv 1.29.0-alpha

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* /opt/cola/permits/2309111342_1736204285.9749699/0/dagger-2-4-sources-2-
jar/dagger/multibindings/IntoMap.java
*/opt/cola/permits/2309111342_1736204285.9749699/0/dagger-2-4-sources-2-
jar/dagger/internal/DoubleCheck.java
opt/cola/permits/2309111342_1736204285.9749699/0/dagger-2-4-sources-2-jar/dagger/Reusable.java
* /opt/cola/permits/2309111342_1736204285.9749699/0/dagger-2-4-sources-2-
jar/dagger/internal/Preconditions.java
* /opt/cola/permits/2309111342_1736204285.9749699/0/dagger-2-4-sources-2-
jar/dagger/internal/ProviderOfLazy.java
* /opt/cola/permits/2309111342_1736204285.9749699/0/dagger-2-4-sources-2-jar/dagger/multibindings/package-
info.java
*/opt/cola/permits/2309111342_1736204285.9749699/0/dagger-2-4-sources-2-
jar/dagger/multibindings/IntoSet.java
*/opt/cola/permits/2309111342_1736204285.9749699/0/dagger-2-4-sources-2-
jar/dagger/multibindings/ElementsIntoSet.java
```

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*/opt/cola/permits/2309111342 1736204285.9749699/0/dagger-2-4-sources-2-jar/dagger/Multibindings.java
*/opt/cola/permits/2309111342_1736204285.9749699/0/dagger-2-4-sources-2-jar/dagger/internal/Beta.java
*/opt/cola/permits/2309111342 1736204285.9749699/0/dagger-2-4-sources-2-
jar/dagger/multibindings/StringKey.java
opt/cola/permits/2309111342 1736204285.9749699/0/dagger-2-4-sources-2-jar/dagger/package-info.java/
*/opt/cola/permits/2309111342_1736204285.9749699/0/dagger-2-4-sources-2-jar/dagger/Subcomponent.java
*/opt/cola/permits/2309111342_1736204285.9749699/0/dagger-2-4-sources-2-
jar/dagger/multibindings/ClassKey.java
*/opt/cola/permits/2309111342 1736204285.9749699/0/dagger-2-4-sources-2-
jar/dagger/multibindings/IntKey.java
*/opt/cola/permits/2309111342 1736204285.9749699/0/dagger-2-4-sources-2-
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*/opt/cola/permits/2309111342_1736204285.9749699/0/dagger-2-4-sources-2-jar/dagger/MapKey.java
*/opt/cola/permits/2309111342 1736204285.9749699/0/dagger-2-4-sources-2-jar/dagger/internal/MapFactory.java
*/opt/cola/permits/2309111342_1736204285.9749699/0/dagger-2-4-sources-2-jar/dagger/internal/SingleCheck.java
/opt/cola/permits/2309111342_1736204285.9749699/0/dagger-2-4-sources-2-
jar/dagger/internal/MapProviderFactory.java
*/opt/cola/permits/2309111342_1736204285.9749699/0/dagger-2-4-sources-2-
jar/dagger/internal/InstanceFactory.java
*/opt/cola/permits/2309111342_1736204285.9749699/0/dagger-2-4-sources-2-jar/dagger/internal/SetFactory.java
*/opt/cola/permits/2309111342_1736204285.9749699/0/dagger-2-4-sources-2-jar/dagger/internal/Collections.java
*/opt/cola/permits/2309111342_1736204285.9749699/0/dagger-2-4-sources-2-jar/dagger/Component.java
*/opt/cola/permits/2309111342_1736204285.9749699/0/dagger-2-4-sources-2-
jar/dagger/internal/DelegateFactory.java
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