



Open Source Used In Virtual Visitation System 3.0 3.0-Incremental

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Text Part Number: 78EE117C99-1612225994

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jar/org/jctools/queues/atomic/AtomicQueueFactory.java
* /opt/cola/permits/1257772382_1643010290.62/0/jctools-core-3-3-0-sources-
jar/org/jctools/queues/ConcurrentCircularArrayQueue.java
* /opt/cola/permits/1257772382_1643010290.62/0/jctools-core-3-3-0-sources-
jar/org/jctools/queues/atomic/SequencedAtomicReferenceArrayQueue.java
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jar/org/jctools/queues/LinkedQueueNode.java
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jar/org/jctools/queues/atomic/MpscAtomicArrayQueue.java
* /opt/cola/permits/1257772382_1643010290.62/0/jctools-core-3-3-0-sources-
jar/org/jctools/queues/MpscUnboundedXaddArrayQueue.java
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* /opt/cola/permits/1257772382_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/queues/MpscBlockingConsumerArrayQueue.java
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* /opt/cola/permits/1257772382_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/queues/SpSCArrayQueue.java
* /opt/cola/permits/1257772382_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/util/UnsafeRefArrayAccess.java
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* /opt/cola/permits/1257772382_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/queues/atomic/SpSCUnboundedAtomicArrayQueue.java
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- * /opt/cola/permits/1257772382_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/queues/atomic/LinkedListAtomicNode.java
- * /opt/cola/permits/1257772382_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/queues/atomic/SpSCLinkedListAtomicQueue.java
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- * /opt/cola/permits/1257772382_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/queues/MpMCUnboundedXaddArrayQueue.java
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- * /opt/cola/permits/1257772382_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/util/UnsafeLongArrayAccess.java
- * /opt/cola/permits/1257772382_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/queues/atomic/BaseSpSCLinkedListAtomicArrayQueue.java
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- * /opt/cola/permits/1257772382_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/util/InternalAPI.java
- * /opt/cola/permits/1257772382_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/maps/NonBlockingHashMap.java
- * /opt/cola/permits/1257772382_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/queues/atomic/MpSCGrowableAtomicArrayQueue.java
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1.2 poi-ooxml 5.2.3

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[1] <http://www.ecma-international.org/publications/standards/Ecma-376.htm>

[2] <http://www.ecma-international.org/memento/Ecmabylaws.htm>

[3] <http://www.microsoft.com/openspecifications/en/us/programs/osp/default.aspx>

[4] <http://www.ecma-international.org/publications/files/ECMA-ST/Ecma%20PATENT/Patent%20statements%20ok/ECMA-376%20Edition%202%20Microsoft%20Patent%20Declaration.pdf>

[5] <http://www.ecma-international.org/publications/files/ECMA-ST/Ecma%20PATENT/Patent%20statements%20ok/ECMA-376%20Adobe%20Patent%20Declaration.pdf>

Bouncy Castle library (bcprov-*.jar, bcpkg-*.jar, bcpkix-*.jar)

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1.3 jackson-databind 2.13.5

1.3.1 Available under license :

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1.4 commons-lang3 3.12.0

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1.5 bridgeutils 1.7.1

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* /opt/cola/permits/1568674843_1676616924.7168643/0/netty-transport-classes-epoll-4-1-89-final-sources-jar/io/netty/channel/epoll/EpollEventLoop.java
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* /opt/cola/permits/1568674843_1676616924.7168643/0/netty-transport-classes-epoll-4-1-89-final-sources-jar/io/netty/channel/epoll/EpollDatagramChannel.java
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* Set the {@code TCP_MD5SIG} option on the socket. See {@code linux/tcp.h} for more details.

* Keys can only be set on, not read to prevent a potential leak, as they are confidential.

* Allowing them being read would mean anyone with access to the channel could get them.

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* Keys can only be set on, not read to prevent a potential leak, as they are confidential.

* Allowing them being read would mean anyone with access to the channel could get them.

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* Set the { @code TCP_QUICKACK } option on the socket.

* See [TCP_QUICKACK](https://linux.die.net/man/7/tcp)

* for more details.

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jar/io/netty/channel/epoll/EpollMode.java
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jar/io/netty/channel/epoll/AbstractEpollServerChannel.java
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1.8 mongodb-driver-core 4.8.0

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```
* /opt/cola/permits/1612284797_1679588478.8402557/0/mongodb-driver-core-4-8-0-sources-
jar/com/mongodb/internal/authentication/SaslPrep.java
```

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* /opt/cola/permits/1612284797_1679588478.8402557/0/mongodb-driver-core-4-8-0-sources-jar/com/mongodb/client/model/densify/DateDensifyRange.java
* /opt/cola/permits/1612284797_1679588478.8402557/0/mongodb-driver-core-4-8-0-sources-jar/com/mongodb/client/model/search/NumberRangeSearchOperatorBase.java
* /opt/cola/permits/1612284797_1679588478.8402557/0/mongodb-driver-core-4-8-0-sources-jar/com/mongodb/client/model/densify/NumberDensifyRange.java
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* <https://github.com/marianobarrios/tls-channel>
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* /opt/cola/permits/1612284797_1679588478.8402557/0/mongodb-driver-core-4-8-0-sources-jar/com/mongodb/internal/connection/ExtendedAsynchronousByteChannel.java

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 * https://github.com/marianobarrios/tls-channel
 */
```

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```
* /opt/cola/permits/1612284797_1679588478.8402557/0/mongodb-driver-core-4-8-0-sources-
jar/com/mongodb/internal/connection/tlschannel/WouldBlockException.java
* /opt/cola/permits/1612284797_1679588478.8402557/0/mongodb-driver-core-4-8-0-sources-
jar/com/mongodb/internal/connection/tlschannel/async/AsynchronousTlsChannelGroup.java
* /opt/cola/permits/1612284797_1679588478.8402557/0/mongodb-driver-core-4-8-0-sources-
jar/com/mongodb/internal/connection/tlschannel/impl/ByteBufferSet.java
* /opt/cola/permits/1612284797_1679588478.8402557/0/mongodb-driver-core-4-8-0-sources-
jar/com/mongodb/internal/connection/tlschannel/TrackingAllocator.java
* /opt/cola/permits/1612284797_1679588478.8402557/0/mongodb-driver-core-4-8-0-sources-
jar/com/mongodb/internal/connection/tlschannel/ServerTlsChannel.java
* /opt/cola/permits/1612284797_1679588478.8402557/0/mongodb-driver-core-4-8-0-sources-
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* /opt/cola/permits/1612284797_1679588478.8402557/0/mongodb-driver-core-4-8-0-sources-
jar/com/mongodb/internal/connection/tlschannel/async/AsynchronousTlsChannel.java
* /opt/cola/permits/1612284797_1679588478.8402557/0/mongodb-driver-core-4-8-0-sources-
jar/com/mongodb/internal/connection/tlschannel/TlsChannelFlowControlException.java
* /opt/cola/permits/1612284797_1679588478.8402557/0/mongodb-driver-core-4-8-0-sources-
jar/com/mongodb/internal/connection/tlschannel/impl/ByteBufferUtil.java
* /opt/cola/permits/1612284797_1679588478.8402557/0/mongodb-driver-core-4-8-0-sources-
jar/com/mongodb/internal/connection/tlschannel/BufferAllocator.java
* /opt/cola/permits/1612284797_1679588478.8402557/0/mongodb-driver-core-4-8-0-sources-
jar/com/mongodb/internal/connection/tlschannel/TlsChannelBuilder.java
* /opt/cola/permits/1612284797_1679588478.8402557/0/mongodb-driver-core-4-8-0-sources-
jar/com/mongodb/internal/connection/tlschannel/impl/BufferHolder.java
* /opt/cola/permits/1612284797_1679588478.8402557/0/mongodb-driver-core-4-8-0-sources-
jar/com/mongodb/internal/connection/tlschannel/util/DirectBufferDeallocator.java
```


* /opt/cola/permits/1612284797_1679588478.8402557/0/mongodb-driver-core-4-8-0-sources-jar/com/mongodb/internal/connection/tlschannel/impl/TlsChannelImpl.java
* /opt/cola/permits/1612284797_1679588478.8402557/0/mongodb-driver-core-4-8-0-sources-jar/com/mongodb/internal/connection/tlschannel/HeapBufferAllocator.java
* /opt/cola/permits/1612284797_1679588478.8402557/0/mongodb-driver-core-4-8-0-sources-jar/com/mongodb/internal/connection/tlschannel/ClientTlsChannel.java
* /opt/cola/permits/1612284797_1679588478.8402557/0/mongodb-driver-core-4-8-0-sources-jar/com/mongodb/internal/connection/tlschannel/async/package-info.java
* /opt/cola/permits/1612284797_1679588478.8402557/0/mongodb-driver-core-4-8-0-sources-jar/com/mongodb/internal/connection/tlschannel/util/Util.java
* /opt/cola/permits/1612284797_1679588478.8402557/0/mongodb-driver-core-4-8-0-sources-jar/com/mongodb/internal/connection/tlschannel/TlsChannel.java
* /opt/cola/permits/1612284797_1679588478.8402557/0/mongodb-driver-core-4-8-0-sources-jar/com/mongodb/spi/dns/package-info.java
* /opt/cola/permits/1612284797_1679588478.8402557/0/mongodb-driver-core-4-8-0-sources-jar/com/mongodb/internal/connection/tlschannel/package-info.java
* /opt/cola/permits/1612284797_1679588478.8402557/0/mongodb-driver-core-4-8-0-sources-jar/com/mongodb/internal/connection/tlschannel/NeedsTaskException.java
* /opt/cola/permits/1612284797_1679588478.8402557/0/mongodb-driver-core-4-8-0-sources-jar/com/mongodb/internal/connection/tlschannel/NeedsWriteException.java
* /opt/cola/permits/1612284797_1679588478.8402557/0/mongodb-driver-core-4-8-0-sources-jar/com/mongodb/internal/connection/tlschannel/impl/TlsExplorer.java
* /opt/cola/permits/1612284797_1679588478.8402557/0/mongodb-driver-core-4-8-0-sources-jar/com/mongodb/internal/connection/tlschannel/DirectBufferAllocator.java
* /opt/cola/permits/1612284797_1679588478.8402557/0/mongodb-driver-core-4-8-0-sources-jar/com/mongodb/internal/connection/tlschannel/TlsChannelCallbackException.java
* /opt/cola/permits/1612284797_1679588478.8402557/0/mongodb-driver-core-4-8-0-sources-jar/com/mongodb/internal/connection/tlschannel/NeedsReadException.java
* /opt/cola/permits/1612284797_1679588478.8402557/0/mongodb-driver-core-4-8-0-sources-jar/com/mongodb/internal/connection/tlschannel/async/ExtendedAsynchronousByteChannel.java
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- * /opt/cola/permits/1612284797_1679588478.8402557/0/mongodb-driver-core-4-8-0-sources-jar/com/mongodb/internal/connection/Pool.java
- * /opt/cola/permits/1612284797_1679588478.8402557/0/mongodb-driver-core-4-8-0-sources-jar/com/mongodb/client/model/fill/ValueFillOutputField.java
- * /opt/cola/permits/1612284797_1679588478.8402557/0/mongodb-driver-core-4-8-0-sources-jar/com/mongodb/internal/connection/InternalConnectionInitializationDescription.java
- * /opt/cola/permits/1612284797_1679588478.8402557/0/mongodb-driver-core-4-8-0-sources-jar/com/mongodb/event/ServerListener.java
- * /opt/cola/permits/1612284797_1679588478.8402557/0/mongodb-driver-core-4-8-0-sources-jar/com/mongodb/client/gridfs/model/GridFSFile.java
- * /opt/cola/permits/1612284797_1679588478.8402557/0/mongodb-driver-core-4-8-0-sources-jar/com/mongodb/DDBObjectFactory.java
- * /opt/cola/permits/1612284797_1679588478.8402557/0/mongodb-driver-core-4-8-0-sources-jar/com/mongodb/internal/client/model/Util.java
- * /opt/cola/permits/1612284797_1679588478.8402557/0/mongodb-driver-core-4-8-0-sources-jar/com/mongodb/event/ClusterListener.java
- * /opt/cola/permits/1612284797_1679588478.8402557/0/mongodb-driver-core-4-8-0-sources-jar/com/mongodb/client/model/Aggregates.java
- * /opt/cola/permits/1612284797_1679588478.8402557/0/mongodb-driver-core-4-8-0-sources-jar/com/mongodb/event/ServerHeartbeatStartedEvent.java
- * /opt/cola/permits/1612284797_1679588478.8402557/0/mongodb-driver-core-4-8-0-sources-jar/com/mongodb/client/model/densify/DensifyConstructibleBson.java
- * /opt/cola/permits/1612284797_1679588478.8402557/0/mongodb-driver-core-4-8-0-sources-jar/com/mongodb/event/CommandStartedEvent.java
- * /opt/cola/permits/1612284797_1679588478.8402557/0/mongodb-driver-core-4-8-0-sources-jar/com/mongodb/connection/TlsChannelStreamFactoryFactory.java
- * /opt/cola/permits/1612284797_1679588478.8402557/0/mongodb-driver-core-4-8-0-sources-jar/com/mongodb/client/model/gejson/codecs/GeoJsonCodecProvider.java
- * /opt/cola/permits/1612284797_1679588478.8402557/0/mongodb-driver-core-4-8-0-sources-jar/com/mongodb/client/model/search/TotalSearchCount.java
- * /opt/cola/permits/1612284797_1679588478.8402557/0/mongodb-driver-core-4-8-0-sources-jar/com/mongodb/internal/client/model/ToMap.java
- * /opt/cola/permits/1612284797_1679588478.8402557/0/mongodb-driver-core-4-8-0-sources-jar/com/mongodb/internal/connection/MongoCredentialWithCache.java
- * /opt/cola/permits/1612284797_1679588478.8402557/0/mongodb-driver-core-4-8-0-sources-jar/com/mongodb/internal/operation/ReadOperation.java
- * /opt/cola/permits/1612284797_1679588478.8402557/0/mongodb-driver-core-4-8-0-sources-jar/com/mongodb/session/ServerSession.java
- * /opt/cola/permits/1612284797_1679588478.8402557/0/mongodb-driver-core-4-8-0-sources-jar/com/mongodb/event/ClusterClosedEvent.java
- * /opt/cola/permits/1612284797_1679588478.8402557/0/mongodb-driver-core-4-8-0-sources-jar/com/mongodb/client/model/gejson/PolygonCoordinates.java
- * /opt/cola/permits/1612284797_1679588478.8402557/0/mongodb-driver-core-4-8-0-sources-jar/com/mongodb/client/model/DeleteOptions.java
- * /opt/cola/permits/1612284797_1679588478.8402557/0/mongodb-driver-core-4-8-0-sources-

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* /opt/cola/permits/1612284797_1679588478.8402557/0/mongodb-driver-core-4-8-0-sources-
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* /opt/cola/permits/1612284797_1679588478.8402557/0/mongodb-driver-core-4-8-0-sources-
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* /opt/cola/permits/1612284797_1679588478.8402557/0/mongodb-driver-core-4-8-0-sources-
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* /opt/cola/permits/1612284797_1679588478.8402557/0/mongodb-driver-core-4-8-0-sources-
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* /opt/cola/permits/1612284797_1679588478.8402557/0/mongodb-driver-core-4-8-0-sources-
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* /opt/cola/permits/1612284797_1679588478.8402557/0/mongodb-driver-core-4-8-0-sources-
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* /opt/cola/permits/1612284797_1679588478.8402557/0/mongodb-driver-core-4-8-0-sources-
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* /opt/cola/permits/1612284797_1679588478.8402557/0/mongodb-driver-core-4-8-0-sources-
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jar/com/mongodb/DuplicateKeyException.java
* /opt/cola/permits/1612284797_1679588478.8402557/0/mongodb-driver-core-4-8-0-sources-
jar/com/mongodb/connection/ConnectionDescription.java
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* /opt/cola/permits/1612284797_1679588478.8402557/0/mongodb-driver-core-4-8-0-sources-
jar/com/mongodb/client/model/search/ExistsSearchOperator.java
* /opt/cola/permits/1612284797_1679588478.8402557/0/mongodb-driver-core-4-8-0-sources-
jar/com/mongodb/client/model/gejson/GeoJsonObjectType.java
* /opt/cola/permits/1612284797_1679588478.8402557/0/mongodb-driver-core-4-8-0-sources-
jar/com/mongodb/MongoSocketReadTimeoutException.java
* /opt/cola/permits/1612284797_1679588478.8402557/0/mongodb-driver-core-4-8-0-sources-

jar/com/mongodb/internal/operation/BulkWriteBatch.java
 * /opt/cola/permits/1612284797_1679588478.8402557/0/mongodb-driver-core-4-8-0-sources-
 jar/com/mongodb/client/model/ChangeStreamPreAndPostImagesOptions.java
 * /opt/cola/permits/1612284797_1679588478.8402557/0/mongodb-driver-core-4-8-0-sources-
 jar/com/mongodb/internal/connection/ServerTypeHelper.java
 * /opt/cola/permits/1612284797_1679588478.8402557/0/mongodb-driver-core-4-8-0-sources-
 jar/com/mongodb/internal/connection/AsynchronousSocketChannelStream.java
 * /opt/cola/permits/1612284797_1679588478.8402557/0/mongodb-driver-core-4-8-0-sources-
 jar/com/mongodb/internal/connection/CommandProtocolImpl.java
 * /opt/cola/permits/1612284797_1679588478.8402557/0/mongodb-driver-core-4-8-0-sources-
 jar/com/mongodb/internal/connection/SnappyCompressor.java
 * /opt/cola/permits/1612284797_1679588478.8402557/0/mongodb-driver-core-4-8-0-sources-
 jar/com/mongodb/connection/ClusterConnectionMode.java
 * /opt/cola/permits/1612284797_1679588478.8402557/0/mongodb-driver-core-4-8-0-sources-
 jar/com/mongodb/MongoClientException.java
 * /opt/cola/permits/1612284797_1679588478.8402557/0/mongodb-driver-core-4-8-0-sources-
 jar/com/mongodb/client/model/FindOneAndUpdateOptions.java
 * /opt/cola/permits/1612284797_1679588478.8402557/0/mongodb-driver-core-4-8-0-sources-
 jar/com/mongodb/internal/operation/BsonDocumentWrapperHelper.java
 * /opt/cola/permits/1612284797_1679588478.8402557/0/mongodb-driver-core-4-8-0-sources-
 jar/com/mongodb/internal/async/function/AsyncCallbackSupplier.java
 * /opt/cola/permits/1612284797_1679588478.8402557/0/mongodb-driver-core-4-8-0-sources-
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 * /opt/cola/permits/1612284797_1679588478.8402557/0/mongodb-driver-core-4-8-0-sources-
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 jar/com/mongodb/client/model/geojson/codecs/GeometryCodec.java
 * /opt/cola/permits/1612284797_1679588478.8402557/0/mongodb-driver-core-4-8-0-sources-
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 * /opt/cola/permits/1612284797_1679588478.8402557/0/mongodb-driver-core-4-8-0-sources-
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 jar/com/mongodb/session/package-info.java
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 jar/com/mongodb/bulk/BulkWriteResult.java
 * /opt/cola/permits/1612284797_1679588478.8402557/0/mongodb-driver-core-4-8-0-sources-
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 * /opt/cola/permits/1612284797_1679588478.8402557/0/mongodb-driver-core-4-8-0-sources-
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 * /opt/cola/permits/1612284797_1679588478.8402557/0/mongodb-driver-core-4-8-0-sources-
 jar/com/mongodb/internal/connection/CompositeByteBuf.java
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jar/com/mongodb/spi/dns/DnsClient.java
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jar/com/mongodb/internal/connection/GSSAPIAuthenticator.java
* /opt/cola/permits/1612284797_1679588478.8402557/0/mongodb-driver-core-4-8-0-sources-
jar/com/mongodb/client/model/GraphLookupOptions.java
* /opt/cola/permits/1612284797_1679588478.8402557/0/mongodb-driver-core-4-8-0-sources-
jar/com/mongodb/client/model/CreateCollectionOptions.java
* /opt/cola/permits/1612284797_1679588478.8402557/0/mongodb-driver-core-4-8-0-sources-
jar/com/mongodb/client/model/changestream/OperationType.java
* /opt/cola/permits/1612284797_1679588478.8402557/0/mongodb-driver-core-4-8-0-sources-
jar/com/mongodb/MongoTimeoutException.java
* /opt/cola/permits/1612284797_1679588478.8402557/0/mongodb-driver-core-4-8-0-sources-
jar/com/mongodb/client/model/densify/DensifyRange.java
* /opt/cola/permits/1612284797_1679588478.8402557/0/mongodb-driver-core-4-8-0-sources-
jar/com/mongodb/event/ConnectionPoolCreatedEvent.java
* /opt/cola/permits/1612284797_1679588478.8402557/0/mongodb-driver-core-4-8-0-sources-
jar/com/mongodb/client/model/geojson/codecs/PolygonCodec.java
* /opt/cola/permits/1612284797_1679588478.8402557/0/mongodb-driver-core-4-8-0-sources-
jar/com/mongodb/internal/binding/AsyncClusterBinding.java
* /opt/cola/permits/1612284797_1679588478.8402557/0/mongodb-driver-core-4-8-0-sources-
jar/com/mongodb/internal/operation/DistinctOperation.java
* /opt/cola/permits/1612284797_1679588478.8402557/0/mongodb-driver-core-4-8-0-sources-
jar/com/mongodb/internal/connection/InternalConnection.java
* /opt/cola/permits/1612284797_1679588478.8402557/0/mongodb-driver-core-4-8-0-sources-
jar/com/mongodb/internal/operation/FindAndDeleteOperation.java
* /opt/cola/permits/1612284797_1679588478.8402557/0/mongodb-driver-core-4-8-0-sources-
jar/com/mongodb/connection/SslSettings.java
* /opt/cola/permits/1612284797_1679588478.8402557/0/mongodb-driver-core-4-8-0-sources-
jar/com/mongodb/internal/connection/ConnectionGenerationSupplier.java
* /opt/cola/permits/1612284797_1679588478.8402557/0/mongodb-driver-core-4-8-0-sources-
jar/com/mongodb/event/ConnectionCheckOutFailedEvent.java
* /opt/cola/permits/1612284797_1679588478.8402557/0/mongodb-driver-core-4-8-0-sources-
jar/com/mongodb/internal/binding/ClusterBinding.java
* /opt/cola/permits/1612284797_1679588478.8402557/0/mongodb-driver-core-4-8-0-sources-
jar/com/mongodb/client/model/changestream/ChangeStreamDocumentCodec.java
* /opt/cola/permits/1612284797_1679588478.8402557/0/mongodb-driver-core-4-8-0-sources-
jar/com/mongodb/internal/async/AsyncBatchCursor.java
* /opt/cola/permits/1612284797_1679588478.8402557/0/mongodb-driver-core-4-8-0-sources-
jar/com/mongodb/internal/connection/SpeculativeAuthenticator.java
* /opt/cola/permits/1612284797_1679588478.8402557/0/mongodb-driver-core-4-8-0-sources-
jar/com/mongodb/spi/dns/DnsException.java
* /opt/cola/permits/1612284797_1679588478.8402557/0/mongodb-driver-core-4-8-0-sources-
jar/com/mongodb/internal/connection/SplittablePayloadBsonWriter.java
* /opt/cola/permits/1612284797_1679588478.8402557/0/mongodb-driver-core-4-8-0-sources-
jar/com/mongodb/client/model/changestream/TruncatedArray.java
* /opt/cola/permits/1612284797_1679588478.8402557/0/mongodb-driver-core-4-8-0-sources-
jar/com/mongodb/client/model/Windows.java
* /opt/cola/permits/1612284797_1679588478.8402557/0/mongodb-driver-core-4-8-0-sources-

```
jar/com/mongodb/spi/dns/DnsWithResponseCodeException.java
* /opt/cola/permits/1612284797_1679588478.8402557/0/mongodb-driver-core-4-8-0-sources-
jar/com/mongodb/client/model/CreateIndexOptions.java
* /opt/cola/permits/1612284797_1679588478.8402557/0/mongodb-driver-core-4-8-0-sources-
jar/com/mongodb/client/model/ValidationOptions.java
* /opt/cola/permits/1612284797_1679588478.8402557/0/mongodb-driver-core-4-8-0-sources-
jar/com/mongodb/internal/session/ServerSessionPool.java
```

1.9 tre 0.8.0

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1.10 giflib 1.6.20

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1.11 jersey-apache-client 1.19.1

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1.13 snake-yaml 1.30

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1.14 bson-record-codec 4.6.1

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* /opt/cola/permits/1356793478_1656997105.287569/0/bson-record-codec-4-6-1-sources-jar/org/bson/codecs/record/RecordCodecProvider.java

* /opt/cola/permits/1356793478_1656997105.287569/0/bson-record-codec-4-6-1-sources-jar/org/bson/codecs/record/annotations/BsonId.java
* /opt/cola/permits/1356793478_1656997105.287569/0/bson-record-codec-4-6-1-sources-jar/org/bson/codecs/record/annotations/package-info.java
* /opt/cola/permits/1356793478_1656997105.287569/0/bson-record-codec-4-6-1-sources-jar/org/bson/codecs/record/annotations/BsonRepresentation.java
* /opt/cola/permits/1356793478_1656997105.287569/0/bson-record-codec-4-6-1-sources-jar/org/bson/codecs/record/package-info.java
* /opt/cola/permits/1356793478_1656997105.287569/0/bson-record-codec-4-6-1-sources-jar/org/bson/codecs/record/annotations/BsonProperty.java
* /opt/cola/permits/1356793478_1656997105.287569/0/bson-record-codec-4-6-1-sources-jar/org/bson/codecs/record/RecordCodec.java

1.15 guice 4.1.0

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1.16 springdoc-openapi-common 1.6.14

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* /opt/cola/permits/1513322621_1671462914.1869235/0/springdoc-openapi-common-1-6-14-sources-
jar/org/springdoc/core/ControllerAdviceInfo.java
* /opt/cola/permits/1513322621_1671462914.1869235/0/springdoc-openapi-common-1-6-14-sources-
jar/org/springdoc/core/fn/builders/servervariable/Builder.java
* /opt/cola/permits/1513322621_1671462914.1869235/0/springdoc-openapi-common-1-6-14-sources-
jar/org/springdoc/core/converters/models/Pageable.java
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* /opt/cola/permits/1513322621_1671462914.1869235/0/springdoc-openapi-common-1-6-14-sources-
jar/org/springdoc/api/ErrorMessage.java
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* /opt/cola/permits/1513322621_1671462914.1869235/0/springdoc-openapi-common-1-6-14-sources-
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* /opt/cola/permits/1513322621_1671462914.1869235/0/springdoc-openapi-common-1-6-14-sources-
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jar/org/springdoc/core/converters/WebFluxSupportConverter.java
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* /opt/cola/permits/1513322621_1671462914.1869235/0/springdoc-openapi-common-1-6-14-sources-
jar/org/springdoc/api/mixins/SortedSchemaMixin31.java
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* /opt/cola/permits/1513322621_1671462914.1869235/0/springdoc-openapi-common-1-6-14-sources-
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* /opt/cola/permits/1513322621_1671462914.1869235/0/springdoc-openapi-common-1-6-14-sources-
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* /opt/cola/permits/1513322621_1671462914.1869235/0/springdoc-openapi-common-1-6-14-sources-
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* /opt/cola/permits/1513322621_1671462914.1869235/0/springdoc-openapi-common-1-6-14-sources-
jar/org/springdoc/core/customizers/ActuatorOperationCustomizer.java
* /opt/cola/permits/1513322621_1671462914.1869235/0/springdoc-openapi-common-1-6-14-sources-
jar/org/springdoc/core/SecuritySchemePair.java
* /opt/cola/permits/1513322621_1671462914.1869235/0/springdoc-openapi-common-1-6-14-sources-
jar/org/springdoc/core/customizers/OpenApiCustomiser.java
* /opt/cola/permits/1513322621_1671462914.1869235/0/springdoc-openapi-common-1-6-14-sources-
jar/org/springdoc/core/SpringDocConfigProperties.java
* /opt/cola/permits/1513322621_1671462914.1869235/0/springdoc-openapi-common-1-6-14-sources-
jar/org/springdoc/core/GenericResponseService.java
* /opt/cola/permits/1513322621_1671462914.1869235/0/springdoc-openapi-common-1-6-14-sources-
jar/org/springdoc/api/OpenApiResourceNotFoundException.java
* /opt/cola/permits/1513322621_1671462914.1869235/0/springdoc-openapi-common-1-6-14-sources-
jar/org/springdoc/core/providers/ObjectMapperProvider.java
* /opt/cola/permits/1513322621_1671462914.1869235/0/springdoc-openapi-common-1-6-14-sources-
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* /opt/cola/permits/1513322621_1671462914.1869235/0/springdoc-openapi-common-1-6-14-sources-
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* /opt/cola/permits/1513322621_1671462914.1869235/0/springdoc-openapi-common-1-6-14-sources-
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* /opt/cola/permits/1513322621_1671462914.1869235/0/springdoc-openapi-common-1-6-14-sources-
jar/org/springdoc/core/providers/SpringDataWebPropertiesProvider.java
* /opt/cola/permits/1513322621_1671462914.1869235/0/springdoc-openapi-common-1-6-14-sources-
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* /opt/cola/permits/1513322621_1671462914.1869235/0/springdoc-openapi-common-1-6-14-sources-
jar/org/springdoc/core/fn/AbstractRouterFunctionVisitor.java
* /opt/cola/permits/1513322621_1671462914.1869235/0/springdoc-openapi-common-1-6-14-sources-
jar/org/springdoc/core/RequestBodyService.java
* /opt/cola/permits/1513322621_1671462914.1869235/0/springdoc-openapi-common-1-6-14-sources-
jar/org/springdoc/core/MultipleOpenApiGroupsCondition.java
* /opt/cola/permits/1513322621_1671462914.1869235/0/springdoc-openapi-common-1-6-14-sources-

jar/org/springdoc/core/fn/RouterFunctionData.java
* /opt/cola/permits/1513322621_1671462914.1869235/0/springdoc-openapi-common-1-6-14-sources-
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* /opt/cola/permits/1513322621_1671462914.1869235/0/springdoc-openapi-common-1-6-14-sources-
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* /opt/cola/permits/1513322621_1671462914.1869235/0/springdoc-openapi-common-1-6-14-sources-
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* /opt/cola/permits/1513322621_1671462914.1869235/0/springdoc-openapi-common-1-6-14-sources-
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* /opt/cola/permits/1513322621_1671462914.1869235/0/springdoc-openapi-common-1-6-14-sources-
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* /opt/cola/permits/1513322621_1671462914.1869235/0/springdoc-openapi-common-1-6-14-sources-
jar/org/springdoc/core/ParameterId.java
* /opt/cola/permits/1513322621_1671462914.1869235/0/springdoc-openapi-common-1-6-14-sources-
jar/org/springdoc/core/SpringdocBeanFactoryConfigurer.java
* /opt/cola/permits/1513322621_1671462914.1869235/0/springdoc-openapi-common-1-6-14-sources-

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jar/org/springdoc/core/customizers/DataRestDelegatingMethodParameterCustomizer.java
* /opt/cola/permits/1513322621_1671462914.1869235/0/springdoc-openapi-common-1-6-14-sources-
jar/org/springdoc/core/fn/builders/linkparameter/Builder.java
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1.17 brotli 1.0.9-r6

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- * /opt/cola/permits/1568674933_1676616896.0296044/0/netty-codec-http-4-1-89-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/compression/PerMessageDeflateDecoder.java
- * /opt/cola/permits/1568674933_1676616896.0296044/0/netty-codec-http-4-1-89-final-sources-jar/io/netty/handler/codec/http/HttpMessageUtil.java
- * /opt/cola/permits/1568674933_1676616896.0296044/0/netty-codec-http-4-1-89-final-sources-jar/io/netty/handler/codec/http/HttpStatusClass.java
- * /opt/cola/permits/1568674933_1676616896.0296044/0/netty-codec-http-4-1-89-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/compression/PerFrameDeflateDecoder.java
- * /opt/cola/permits/1568674933_1676616896.0296044/0/netty-codec-http-4-1-89-final-sources-jar/io/netty/handler/codec/spdy/SpdyFrameDecoder.java
- * /opt/cola/permits/1568674933_1676616896.0296044/0/netty-codec-http-4-1-89-final-sources-jar/io/netty/handler/codec/http/HttpHeadersEncoder.java
- * /opt/cola/permits/1568674933_1676616896.0296044/0/netty-codec-http-4-1-89-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketClientExtension.java
- * /opt/cola/permits/1568674933_1676616896.0296044/0/netty-codec-http-4-1-89-final-sources-jar/io/netty/handler/codec/rtsp/RtspHeaderValues.java
- * /opt/cola/permits/1568674933_1676616896.0296044/0/netty-codec-http-4-1-89-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/compression/WebSocketClientCompressionHandler.java
- * /opt/cola/permits/1568674933_1676616896.0296044/0/netty-codec-http-4-1-89-final-sources-jar/io/netty/handler/codec/http/ServerCookieEncoder.java
- * /opt/cola/permits/1568674933_1676616896.0296044/0/netty-codec-http-4-1-89-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketServerExtensionHandler.java
- * /opt/cola/permits/1568674933_1676616896.0296044/0/netty-codec-http-4-1-89-final-sources-jar/io/netty/handler/codec/spdy/SpdyFrameEncoder.java
- * /opt/cola/permits/1568674933_1676616896.0296044/0/netty-codec-http-4-1-89-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketExtensionUtil.java
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- * /opt/cola/permits/1568674933_1676616896.0296044/0/netty-codec-http-4-1-89-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/compression/PerMessageDeflateClientExtensionHandshaker.java
- * /opt/cola/permits/1568674933_1676616896.0296044/0/netty-codec-http-4-1-89-final-sources-jar/io/netty/handler/codec/http/websocketx/Utf8FrameValidator.java
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- * /opt/cola/permits/1568674933_1676616896.0296044/0/netty-codec-http-4-1-89-final-sources-jar/io/netty/handler/codec/http/cookie/ClientCookieEncoder.java
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jar/io/netty/handler/codec/http/multipart/HttpPostMultipartRequestDecoder.java
* /opt/cola/permits/1568674933_1676616896.0296044/0/netty-codec-http-4-1-89-final-sources-
jar/io/netty/handler/codec/http/HttpRequestDecoder.java
* /opt/cola/permits/1568674933_1676616896.0296044/0/netty-codec-http-4-1-89-final-sources-
jar/io/netty/handler/codec/http/Cookie.java
* /opt/cola/permits/1568674933_1676616896.0296044/0/netty-codec-http-4-1-89-final-sources-
jar/io/netty/handler/codec/http/multipart/DiskFileUpload.java
* /opt/cola/permits/1568674933_1676616896.0296044/0/netty-codec-http-4-1-89-final-sources-
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* /opt/cola/permits/1568674933_1676616896.0296044/0/netty-codec-http-4-1-89-final-sources-

jar/io/netty/handler/codec/http/multipart/MixedFileUpload.java
* /opt/cola/permits/1568674933_1676616896.0296044/0/netty-codec-http-4-1-89-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocketClientHandshakerFactory.java
* /opt/cola/permits/1568674933_1676616896.0296044/0/netty-codec-http-4-1-89-final-sources-
jar/io/netty/handler/codec/spdy/SpdySession.java
* /opt/cola/permits/1568674933_1676616896.0296044/0/netty-codec-http-4-1-89-final-sources-
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jar/io/netty/handler/codec/http/HttpResponseEncoder.java
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- * /opt/cola/permits/1568674933_1676616896.0296044/0/netty-codec-http-4-1-89-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketDecoderConfig.java
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- * /opt/cola/permits/1568674933_1676616896.0296044/0/netty-codec-http-4-1-89-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketServerHandshaker00.java
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- * /opt/cola/permits/1568674933_1676616896.0296044/0/netty-codec-http-4-1-89-final-sources-jar/io/netty/handler/codec/http/websocketx/CloseWebSocketFrame.java
- * /opt/cola/permits/1568674933_1676616896.0296044/0/netty-codec-http-4-1-89-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocket00FrameDecoder.java
- * /opt/cola/permits/1568674933_1676616896.0296044/0/netty-codec-http-4-1-89-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketExtensionFilter.java
- * /opt/cola/permits/1568674933_1676616896.0296044/0/netty-codec-http-4-1-89-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketServerProtocolConfig.java

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* /opt/cola/permits/1568674933_1676616896.0296044/0/netty-codec-http-4-1-89-final-sources-
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* /opt/cola/permits/1568674933_1676616896.0296044/0/netty-codec-http-4-1-89-final-sources-jar/io/netty/handler/codec/http/multipart/FileUploadUtil.java

* /opt/cola/permits/1568674933_1676616896.0296044/0/netty-codec-http-4-1-89-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketChunkedInput.java

* /opt/cola/permits/1568674933_1676616896.0296044/0/netty-codec-http-4-1-89-final-sources-jar/io/netty/handler/codec/http/HttpServerKeepAliveHandler.java

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1.19 json-java 20220924

1.19.1 Available under license :

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1.20 netflix-infix 0.3.0

1.21 poi 5.2.3

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* /opt/cola/permits/1568674926_1676616938.472081/0/netty-codec-dns-4-1-89-final-sources-jar/io/netty/handler/codec/dns/DnsOptPseudoRecord.java
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jar/io/netty/handler/codec/dns/DefaultDnsOptEcsRecord.java
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* /opt/cola/permits/1568674926_1676616938.472081/0/netty-codec-dns-4-1-89-final-sources-jar/io/netty/handler/codec/dns/TcpDnsQueryDecoder.java

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- * /opt/cola/permits/1568674926_1676616938.472081/0/netty-codec-dns-4-1-89-final-sources-jar/io/netty/handler/codec/dns/DnsCodecUtil.java
- * /opt/cola/permits/1568674926_1676616938.472081/0/netty-codec-dns-4-1-89-final-sources-jar/io/netty/handler/codec/dns/DnsResponseDecoder.java
- * /opt/cola/permits/1568674926_1676616938.472081/0/netty-codec-dns-4-1-89-final-sources-jar/io/netty/handler/codec/dns/TcpDnsQueryEncoder.java

1.23 Icms 1.18

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1.24 jackson-dataformat-xml 2.13.5

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1.25 swagger-annotations 2.2.7

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1.26 simpleclient_tracer_common 0.15.0

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Manifest-Version: 1.0
Bnd-LastModified: 1644098817942
Build-Jdk: 11.0.13
Built-By: fabian
Bundle-Description: The Prometheus Java Suite: Client Metrics, Exposition, and Examples
Bundle-License: <http://www.apache.org/licenses/LICENSE-2.0.txt>
Bundle-ManifestVersion: 2
Bundle-Name: Prometheus Java Span Context Supplier - Common
Bundle-SymbolicName: io.prometheus.simpleclient_tracer_common
Bundle-Version: 0.15.0
Created-By: Apache Maven Bundle Plugin
Export-Package: io.prometheus.client.exemplars.tracer.common;version="0.15.0"
Tool: Bnd-2.1.0.20130426-122213

Found in path(s):

* /opt/cola/permits/1362667286_1657728055.6656199/0/simpleclient-tracer-common-0-15-0-2-jar/META-INF/MANIFEST.MF

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* /opt/cola/permits/1362667286_1657728055.6656199/0/simpleclient-tracer-common-0-15-0-2-jar/META-INF/maven/io.prometheus/simpleclient_tracer_common/pom.xml

1.27 dec 0.1.2

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* /opt/cola/permits/1267541981_1644318477.12/0/dec-0-1-2-sources-jar/org/brotli/dec/IntReader.java

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jar/org/brotli/dec/BrotliRuntimeException.java

* /opt/cola/permits/1267541981_1644318477.12/0/dec-0-1-2-sources-jar/org/brotli/dec/RunningState.java

* /opt/cola/permits/1267541981_1644318477.12/0/dec-0-1-2-sources-jar/org/brotli/dec/BitReader.java

* /opt/cola/permits/1267541981_1644318477.12/0/dec-0-1-2-sources-jar/org/brotli/dec/Dictionary.java

* /opt/cola/permits/1267541981_1644318477.12/0/dec-0-1-2-sources-jar/org/brotli/dec/Context.java

* /opt/cola/permits/1267541981_1644318477.12/0/dec-0-1-2-sources-jar/org/brotli/dec/Decode.java

* /opt/cola/permits/1267541981_1644318477.12/0/dec-0-1-2-sources-jar/org/brotli/dec/Huffman.java

* /opt/cola/permits/1267541981_1644318477.12/0/dec-0-1-2-sources-jar/org/brotli/dec/BrotliInputStream.java

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* /opt/cola/permits/1267541981_1644318477.12/0/dec-0-1-2-sources-jar/org/brotli/dec/Prefix.java

* /opt/cola/permits/1267541981_1644318477.12/0/dec-0-1-2-sources-jar/org/brotli/dec/WordTransformType.java

1.28 spring-cloud-commons 3.1.6

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1.29 jctools-core 3.1.0

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- */

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- * /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/spec/Ordering.java
- * /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/SpSCUnboundedAtomicArrayQueue.java
- * /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/SpMCAtomicArrayQueue.java
- * /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/MessagePassingQueueUtil.java
- * /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/MpMCAtomicArrayQueue.java
- * /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/util/UnsafeJvmInfo.java
- * /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/LinkedQueueAtomicNode.java
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- * /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/SupportsIterator.java
- * /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/MpMCUnboundedXaddArrayQueue.java
- * /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/MpSCGrowableArrayQueue.java
- * /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/BaseSpSCLinkedAtomicArrayQueue.java
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- * /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/MpmcArrayQueue.java
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- * /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/maps/AbstractEntry.java
- * /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/MpmcUnboundedXaddChunk.java
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- * /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/MpscBlockingConsumerArrayQueue.java
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jar/org/jctools/queues/BaseSpScLinkedListArrayQueue.java
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<distributionManagement>

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<name>jctools-jctools</name>

<url>https://api.bintray.com/maven/jctools/jctools/jctools-core/;publish=1</url>

</repository>

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<url>https://github.com/JCTools</url>

<inceptionYear>2013</inceptionYear>

<licenses>

<license>

<name>Apache License, Version 2.0</name>

<url>http://www.apache.org/licenses/LICENSE-2.0.txt</url>

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<developers>

<developer>

<url>https://github.com/nitsanw</url>

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<url>https://github.com/mjpt777</url>

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<url>https://github.com/RichardWarburton</url>

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<url>https://github.com/kay</url>

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<url>https://github.com/franz1981</url>

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<prerequisites>

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<junit.version>4.12</junit.version>
<guava-testlib.version>21.0</guava-testlib.version>
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</project>
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1.30 kotlin 1.6.21-release-334

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The following modules contain third-party code and are incorporated into the Kotlin compiler and/or the Kotlin IntelliJ IDEA plugin:

- Path: compiler/backend/src/org/jetbrains/kotlin/codegen/inline/MaxStackSizeAndLocalsCalculator.java
 - License: BSD ([license/third_party/asm_license.txt][asm])
 - Origin: Derived from ASM: a very small and fast Java bytecode manipulation framework, Copyright (c) 2000-2011 INRIA, France Telecom

- Path: compiler/backend/src/org/jetbrains/kotlin/codegen/inline/MaxLocalsCalculator.java
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 - Origin: Derived from ASM: a very small and fast Java bytecode manipulation framework, Copyright (c) 2000-2011 INRIA, France Telecom

- Path: compiler/backend/src/org/jetbrains/kotlin/codegen/optimization/common/FastMethodAnalyzer.kt
 - License: BSD ([license/third_party/asm_license.txt][asm])
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- Path: compiler/backend/src/org/jetbrains/kotlin/codegen/optimization/common/InstructionLivenessAnalyzer.kt
 - License: BSD ([license/third_party/asm_license.txt][asm])
 - Origin: Derived from ASM: a very small and fast Java bytecode manipulation framework, Copyright (c) 2000-2011 INRIA, France Telecom

- Path: compiler/backend/src/org/jetbrains/kotlin/codegen/optimization/common/ControlFlowGraph.kt
 - License: BSD ([license/third_party/asm_license.txt][asm])
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- Path: compiler/backend/src/org/jetbrains/kotlin/codegen/optimization/fixStack/FastStackAnalyzer.kt
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 - Origin: Derived from ASM: a very small and fast Java bytecode manipulation framework, Copyright (c) 2000-2011 INRIA, France Telecom

- Path: compiler/backend/src/org/jetbrains/kotlin/codegen/optimization/temporaryVals/FastStoreLoadAnalyzer.kt
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 - Origin: Derived from ASM: a very small and fast Java bytecode manipulation framework, Copyright (c) 2000-2011 INRIA, France Telecom

- Path: core/reflection/jvm/src/kotlin.reflect/jvm/internal/pcollections
 - License: MIT ([license/third_party/pcollections_LICENSE.txt][pcollections])
 - Origin: Derived from PCollections, A Persistent Java Collections Library (<https://pcollections.org/>)

- Path: eval4j/src/org/jetbrains/eval4j/interpreterLoop.kt
 - License: BSD ([license/third_party/asm_license.txt][asm])
 - Origin: Derived from ASM: a very small and fast Java bytecode manipulation framework, Copyright (c) 2000-2011 INRIA, France Telecom

- Path: compiler/backend/src/org/jetbrains/kotlin/codegen/optimization/common/OptimizationBasicInterpreter.java
 - License: BSD ([license/third_party/asm_license.txt][asm])
 - Origin: Derived from ASM: a very small and fast Java bytecode manipulation framework, Copyright (c) 2000-2011 INRIA, France Telecom

- Path: js/js.ast
 - License: BSD ([license/third_party/dart_LICENSE.txt][dart])
 - Origin: Originally part of the Dart compiler, (c) 2011 the Dart Project Authors,

- Path: js/js.inliner/src/org/jetbrains/kotlin/js/inline/FunctionInlineMutator.kt
 - License: BSD ([license/third_party/dart_LICENSE.txt][dart])
 - Origin: Originally part of the Dart compiler, (c) 2011 the Dart Project Authors,

- Path: js/js.parser/src/com/google
 - License: Netscape Public License 1.1 ([license/third_party/rhino_LICENSE.txt][rhino])
 - Origin: Originally part of GWT, (C) 2007-08 Google Inc., distributed under the Apache 2 license. The code is derived from Rhino, (C) 1997-1999 Netscape Communications Corporation, distributed under the Netscape Public License.

- Path: js/js.translator/qunit/qunit.js
 - License: MIT ([license/third_party/qunit_license.txt][qunit])
 - Origin: QUnit, Copyright (c) 2012 John Resig, Jrn Zaefferer,

- Path: libraries/stdlib/src/kotlin/collections
 - License: Apache 2 ([license/third_party/gwt_license.txt][gwt])
 - Origin: Derived from GWT, (C) 2007-08 Google Inc.

- Path: libraries/stdlib/unsigned/src/kotlin/UnsignedUtils.kt
 - License: Apache 2 ([license/third_party/guava_license.txt][guava])
 - Origin: Derived from Guava's UnsignedLongs, (C) 2011 The Guava Authors

- Path: libraries/stdlib/jvm/src/kotlin/util/MathJVM.kt
 - License: Boost Software License 1.0 ([license/third_party/boost_LICENSE.txt][boost])
 - Origin: Derived from boost special math functions, Copyright Eric Ford & Hubert Holin 2001.

- Path: libraries/stdlib/js/src/kotlin/collections
 - License: Apache 2 ([license/third_party/gwt_license.txt][gwt])
 - Origin: Derived from GWT, (C) 2007-08 Google Inc.

- Path: libraries/stdlib/native-wasm/src/kotlin/collections
 - License: Apache 2 ([license/third_party/gwt_license.txt][gwt])
 - Origin: Derived from GWT, (C) 2007-08 Google Inc.

- Path: libraries/stdlib/js-v1/src/js/long.js
 - License: Apache 2 ([license/third_party/closure-compiler_LICENSE.txt][closure-compiler])
 - Origin: Google Closure Library, Copyright 2009 The Closure Library Authors

- Path: libraries/stdlib/js-v1/src/js/polyfills.js
 - License: Boost Software License 1.0 ([license/third_party/boost_LICENSE.txt][boost])
 - Origin: Derived from boost special math functions, Copyright Eric Ford & Hubert Holin 2001.

- Path: libraries/stdlib/wasm/internal/kotlin/wasm/internal/Number2String.kt
 - License: Apache 2 ([third_party/assemblyscript_license.txt][assemblyscript])
 - Origin: Derived from assemblyscript standard library

- Path: plugins/lint/android-annotations
 - License: Apache 2 ([license/third_party/aosp_license.txt][aosp])
 - Origin: Copyright (C) 2011-15 The Android Open Source Project

- Path: plugins/lint/lint-api
 - License: Apache 2 ([license/third_party/aosp_license.txt][aosp])
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- Path: plugins/lint/lint-checks
 - License: Apache 2 ([license/third_party/aosp_license.txt][aosp])
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- Path: plugins/lint/lint-idea
 - License: Apache 2 ([license/third_party/aosp_license.txt][aosp])
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- Path: wasm/ir/src/org/jetbrains/kotlin/wasm/ir/convertors
 - License: MIT ([license/third_party/asmble_license.txt][asmble])
 - Origin: Copyright (C) 2018 Chad Retz

- Path: compiler/tests-common/tests/org/jetbrains/kotlin/codegen/ir/ComposeLikeGenerationExtension.kt
 - License: Apache 2 ([license/third_party/aosp_license.txt][aosp])
 - Origin: Derived from JetPack Compose compiler plugin code, Copyright 2019 The Android Open Source Project

- Path: libraries/stdlib/wasm/src/kotlin/text/FloatingPointConverter.kt
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 - License: Apache 2 ([license/third_party/aosp_license.txt][aosp])
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- Path: third-party/annotations/com/android
 - License: Apache 2 ([license/third_party/aosp_license.txt][aosp])
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- Path: third-party/annotations/org/eclipse
 - License: Eclipse Public License v1.0 ([license/third_party/testdata/eclipse_license.txt][eclipse])
 - Origin: Eclipse JDT, Copyright (c) 2011, 2013 Stephan Herrmann and others.

- Path: third-party/annotations/androidx
 - License: Apache 2 ([license/third_party/aosp_license.txt][aosp])
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- Path: third-party/annotations/edu/umd/cs/findbugs
 - License: LGPL 2.1 ([license/third_party/testdata/findbugs_license.txt][findbugs])
 - Origin: Bytecode Analysis Framework, Copyright (C) 2005 University of Maryland

- Path: third-party/java8-annotations/org/eclipse
 - License: Eclipse Public License v1.0 ([license/third_party/testdata/eclipse_license.txt][eclipse])
 - Origin: Eclipse JDT, Copyright (c) 2011, 2013 Stephan Herrmann and others.

- Path: third-party/annotations/io/reactivex
 - License: Apache 2 ([license/third_party/testdata/rxjava_license.txt][rxjava])
 - Origin: RxJava, Copyright (c) 2016-present, RxJava Contributors

- Path: third-party/java8-annotations/org/jspecify
 - License: Apache 2 ([license/third_party/testdata/jspecify_license.txt][jspecify])
 - Origin: JSpecify, Copyright (C) 2020 The JSpecify Authors

- Path: third-party/java9-annotations/org/jspecify
 - License: Apache 2 ([license/third_party/testdata/jspecify_license.txt][jspecify])
 - Origin: JSpecify, Copyright (C) 2020 The JSpecify Authors

- Path: third-party/annotations/lombok
 - License: MIT ([license/third_party/testdata/lombok_license.txt][lombok])
 - Origin: Project Lombok, Copyright (C) 2009-2013 The Project Lombok Authors

- Path: idea/idea-android/tests/org/jetbrains/kotlin/android/AndroidTestBase.java
 - License: Apache 2 ([license/third_party/aosp_license.txt][aosp])
 - Origin: Copyright (C) 2011-15 The Android Open Source Project

- Path: idea/testData/android/lintQuickfix/requiresApi/RequiresApi.java
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- Origin: Copyright (C) 2011-15 The Android Open Source Project

- Path: idea/testData/android/lint/IntRange.java
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- Path: idea/testData/android/lint/RequiresPermission.java
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- Path: libraries/tools/kotlin-gradle-plugin-integration-
 tests/src/test/resources/testProject/allOpenSpring/src/org/springframework/stereotype/Component.java
 - License: Apache 2 ([license/third_party/testdata/spring_license.txt][spring])
 - Origin: Spring Framework, Copyright 2002-2007 the original author or authors.

- Path: libraries/tools/kotlin-gradle-plugin-integration-tests/src/test/resources/testProject/AndroidDaggerProject
 - License: Apache 2 ([license/third_party/testdata/dagger_license.txt][dagger])
 - Origin: Dagger, Copyright (C) 2013 Square, Inc.

- Path: libraries/tools/kotlin-gradle-plugin-integration-tests/src/test/resources/testProject/kapt2
 - License: Apache 2 ([license/third_party/testdata/dagger_license.txt][dagger])
 - Origin: Dagger, Copyright (C) 2013 Square, Inc.

- Path: libraries/tools/kotlin-maven-plugin-test/src/it/test-allopen-
 spring/src/main/java/org/springframework/stereotype/Component.java
 - License: Apache 2 ([license/third_party/testdata/spring_license.txt][spring])
 - Origin: Spring Framework, Copyright 2002-2007 the original author or authors.

Kotlin Tools and Libraries Tests

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- Path: libraries/tools/kotlin-gradle-plugin-integration-tests/src/test/kotlin/org/jetbrains/kotlin/gradle/PluginsDslIT.kt
 - License: Apache 2 ([license/third_party/gradle_license.txt][gradle])
 - Origin: Gradle, Copyright 2002-2017 Gradle, Inc.

- Path: libraries/tools/kotlin-gradle-plugin-integration-tests/target/test-
 classes/testProject/noArgJpa/src/javax/persistence/Entity.java
 - License: Eclipse Public License v1.0 ([license/third_party/testdata/eclipse_license.txt][eclipse])
 and Eclipse Distribution License - v1.0
 ([license/third_party/testdata/eclipse_distribution_license.txt][eclipse-distribution])
 - Origin: javax.persistence, Copyright (c) 2008, 2017 Sun Microsystems, Oracle Corporation.

- Path: libraries/tools/kotlin-gradle-plugin-integration-
 tests/src/test/resources/testProject/noArgJpa/src/javax/persistence/Entity.java
 - License: Eclipse Public License v1.0 ([license/third_party/testdata/eclipse_license.txt][eclipse])
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([license/third_party/testdata/eclipse_distribution_license.txt][eclipse-distribution])

- Origin: javax.persistence, Copyright (c) 2008, 2017 Sun Microsystems, Oracle Corporation.

- Path: libraries/tools/kotlin-gradle-plugin-integration-

tests/src/test/resources/testProject/noArgJpa/src/javax/persistence/Embeddable.java

- License: Eclipse Public License v1.0 ([license/third_party/testdata/eclipse_license.txt][eclipse])
and Eclipse Distribution License - v1.0

([license/third_party/testdata/eclipse_distribution_license.txt][eclipse-distribution])

- Origin: javax.persistence, Copyright (c) 2008, 2017 Sun Microsystems, Oracle Corporation.

- Path: libraries/tools/kotlin-test-js-runner/karma-kotlin-reporter.js

- License: MIT ([license/third_party/karma_LICENSE.txt](third_party/karma_LICENSE.txt)
and [license/third_party/karma-teamcity-reporter_LICENSE.txt](third_party/karma-teamcity-
reporter_LICENSE.txt))

- Origin: Copyright (C) 2011-2019 Google, Inc. and Copyright (C) 2011-2013 Vojta Jna and contributors.

- Path: libraries/tools/kotlin-test-js-runner/mocha-kotlin-reporter.js

- License: MIT ([license/third_party/mocha-teamcity-reporter_LICENSE.txt](third_party/mocha-teamcity-
reporter_LICENSE.txt))

- Origin: Copyright (c) 2016 Jamie Sherriff

- Path: libraries/tools/kotlin-test-js-runner/src/utils.ts

- License: MIT ([license/third_party/teamcity-service-messages_LICENSE.txt](third_party/teamcity-service-
messages_LICENSE.txt)

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- Path: libraries/tools/kotlin-test-js-runner/src/teamcity-format.js

- License: MIT ([license/third_party/mocha-teamcity-reporter_LICENSE.txt](third_party/mocha-teamcity-
reporter_LICENSE.txt)

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Example Code

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- Path: libraries/examples/browser-example/src/js/jquery.js

- License: MIT ([license/third_party/jquery_license.txt][jquery])

- Origin: jQuery JavaScript Library v1.6.2, Copyright 2011, John Resig

- Path: libraries/examples/browser-example-with-library/src/js/jquery.js

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- Origin: jQuery JavaScript Library v1.6.2, Copyright 2011, John Resig

[aosp]: third_party/aosp_license.txt
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[gwt]: third_party/gwt_license.txt
[jquery]: third_party/jquery_license.txt
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```
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=====
```

Kotlin Compiler

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*/

package tasks

```
import groovy.util.Node
import groovy.xml.XmlParser
import org.gradle.api.DefaultTask
import org.gradle.api.file.RegularFileProperty
import org.gradle.api.provider.Property
import org.gradle.api.tasks.Input
import org.gradle.api.tasks.InputFile
import org.gradle.api.tasks.OutputFile
import org.gradle.api.tasks.TaskAction
import java.util.*

abstract class WriteCopyrightToFile : DefaultTask() {
    @InputFile
    val path = project.file("${project.rootDir}/.idea/copyright/apache.xml")

    @get:OutputFile
    abstract val outputFile: RegularFileProperty

    @get:Input
    val commented: Property<Boolean> = project.objects.property(Boolean::class.java).convention(true)

    @TaskAction
    fun write() {
        val file = outputFile.asFile.get()
        file.writeText(if (commented.get()) readCopyrightCommented() else readCopyright())
    }

    private fun readCopyright(): String {
        assert(path.exists()) {
            "File $path with copyright not found"
        }

        val xmlParser = XmlParser()
        val node = xmlParser.parse(path)
        assert(node.attribute("name") == "CopyrightManager") {
            "Format changed occasionally?"
        }

        val copyrightBlock = node.children().filterIsInstance<Node>().single()
        val noticeNode = copyrightBlock.children().filterIsInstance<Node>().single { it.attribute("name") == "notice" }
        return noticeNode.attribute("value").toString().replace("&#36;today.year",
GregorianCalendar()[Calendar.YEAR].toString())
    }
}
```

```
private fun readCopyrightCommented(): String {
    return "/*\n" + readCopyright().prependIndent(" * ") + "\n */"
}
}
```

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zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017

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<https://github.com/square/okhttp/>

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ASM: a very small and fast Java bytecode manipulation framework
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ASM: a very small and fast Java bytecode manipulation framework

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

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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

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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.

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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 can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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1.33 commons-beanutils 1.9.4

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1.34 spring-framework 5.3.25

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* /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-
jar/com/nimbusds/jose/util/Base64Codec.java
```

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```
/*
* nimbus-jose-jwt
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Found in path(s):

- * /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-jar/com/nimbusds/jose/jwk/package-info.java
- * /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-jar/com/nimbusds/jose/proc/JWEKeySelector.java
- * /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-jar/com/nimbusds/jose/util/RestrictedResourceRetriever.java
- * /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-jar/com/nimbusds/jose/CriticalHeaderParamsAware.java
- * /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-jar/com/nimbusds/jose/util/BigIntegerUtils.java
- * /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-jar/com/nimbusds/jose/proc/package-info.java
- * /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-jar/com/nimbusds/jose/JWEEncrypter.java
- * /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-jar/com/nimbusds/jose/Payload.java
- * /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-jar/com/nimbusds/jose/EncryptionMethod.java
- * /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-jar/com/nimbusds/jose/JWEHeader.java
- * /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-jar/com/nimbusds/jose/crypto/PasswordBasedEncrypter.java
- * /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-jar/com/nimbusds/jose/JWEObject.java
- * /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-jar/com/nimbusds/jose/util/X509CertUtils.java
- * /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-jar/com/nimbusds/jose/jwk/JWK.java
- * /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-jar/com/nimbusds/jose/JWEAlgorithm.java
- * /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-jar/com/nimbusds/jose/util/Resource.java
- * /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-jar/com/nimbusds/jwt/JWT.java
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- * /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-jar/com/nimbusds/jose/proc/BadJWEException.java
- * /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-jar/com/nimbusds/jose/crypto/factories/DefaultJWEDecrypterFactory.java
- * /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-jar/com/nimbusds/jose/KeyException.java
- * /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-jar/com/nimbusds/jose/proc/JWSKeySelector.java
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* /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-jar/com/nimbusds/jose/util/package-info.java
* /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-jar/com/nimbusds/jose/crypto/RSASSASigner.java
* /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-jar/com/nimbusds/jose/jca/JCASupport.java
* /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-jar/com/nimbusds/jose/jwk/RSAPublicKey.java
* /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-jar/com/nimbusds/jose/jwk/OctetSequenceKey.java
* /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-jar/com/nimbusds/jose/proc/SimpleSecurityContext.java
* /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-jar/com/nimbusds/jose/KeyTypeException.java

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jar/com/nimbusds/jose/proc/JOSEObjectTypeVerifier.java
* /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-
jar/com/nimbusds/jose/jwk/source/JWKSecurityContextJWKSet.java
* /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-
jar/com/nimbusds/jose/crypto/impl/ECDHCryptoProvider.java
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```
* /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-
jar/com/nimbusds/jose/jwk/gen/OctetKeyPairGenerator.java
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```
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jar/com/nimbusds/jose/crypto/ECDH1PUEncrypter.java
* /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-
jar/com/nimbusds/jose/crypto/ECDH1PUDecrypter.java
* /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-
jar/com/nimbusds/jose/crypto/ECDH1PUX25519Decrypter.java
* /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-
jar/com/nimbusds/jose/JWSObjectJSON.java
* /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-
jar/com/nimbusds/jose/mint/package-info.java
* /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-
jar/com/nimbusds/jose/crypto/impl/XC20P.java
* /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-
jar/com/nimbusds/jose/crypto/impl/ECDH1PU.java
* /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-
jar/com/nimbusds/jose/util/Pair.java
* /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-
jar/com/nimbusds/jose/JSONSerializable.java
* /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-
jar/com/nimbusds/jose/crypto/impl/ECDH1PUCryptoProvider.java
* /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-
jar/com/nimbusds/jose/crypto/ECDH1PUX25519Encrypter.java
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jar/com/nimbusds/jose/crypto/bc/package-info.java
* /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-
jar/com/nimbusds/jose/crypto/bc/BouncyCastleFIPSPProviderSingleton.java
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jar/com/nimbusds/jose/proc/DefaultJOSEProcessor.java
* /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-
jar/com/nimbusds/jose/proc/JOSEProcessorConfiguration.java
* /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-
jar/com/nimbusds/jose/proc/JWSVerificationKeySelector.java
* /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-
jar/com/nimbusds/jwt/proc/DefaultJWTProcessor.java
* /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-
jar/com/nimbusds/jose/proc/JWSAlgorithmFamilyJWSKeySelector.java

* /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-jar/com/nimbusds/jose/proc/JWEDecryptionKeySelector.java
* /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-jar/com/nimbusds/jose/jwk/JWKMatcher.java
* /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-jar/com/nimbusds/jose/crypto/ECDHEncrypter.java

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* /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-jar/com/nimbusds/jose/crypto/impl/CipherHelper.java

* /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-jar/com/nimbusds/jose/crypto/impl/ECDH.java

* /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-jar/com/nimbusds/jose/CompletableJWSObjectSigning.java

* /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-jar/com/nimbusds/jose/HeaderValidation.java

* /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-jar/com/nimbusds/jose/crypto/impl/RSA1_5.java

* /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-jar/com/nimbusds/jose/crypto/opts/OptionUtils.java

* /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-jar/com/nimbusds/jose/util/IntegerOverflowException.java

* /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-jar/com/nimbusds/jose/jwk/source/JWKSetCache.java

* /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-jar/com/nimbusds/jose/crypto/impl/ContentCryptoProvider.java

* /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-jar/com/nimbusds/jose/produce/JWSSignerFactory.java

* /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-jar/com/nimbusds/jose/jwk/gen/OctetSequenceKeyGenerator.java
* /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-jar/com/nimbusds/jose/ActionRequiredForJWSCompletionException.java
* /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-jar/com/nimbusds/jose/crypto/impl/package-info.java
* /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-jar/com/nimbusds/jose/jwk/source/JWKSetWithTimestamp.java
* /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-jar/com/nimbusds/jose/jwk/ThumbprintURI.java
* /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-jar/com/nimbusds/jose/crypto/impl/AESGCMKW.java
* /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-jar/com/nimbusds/jose/crypto/impl/RSASSAProvider.java
* /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-jar/com/nimbusds/jose/util/JSONStringUtils.java
* /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-jar/com/nimbusds/jose/crypto/impl/BaseJWSProvider.java
* /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-jar/com/nimbusds/jose/crypto/impl/RSA_OAEP_SHA2.java
* /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-jar/com/nimbusds/jose/crypto/impl/ECDSAProvider.java
* /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-jar/com/nimbusds/jose/crypto/impl/ECDSA.java
* /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-jar/com/nimbusds/jose/crypto/impl/CompositeKey.java
* /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-jar/com/nimbusds/jose/crypto/opts/package-info.java
* /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-jar/com/nimbusds/jose/crypto/impl/AESKW.java
* /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-jar/com/nimbusds/jose/JWSSignerOption.java
* /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-jar/com/nimbusds/jose/jwk/Curve.java
* /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-jar/com/nimbusds/jose/crypto/impl/AuthenticatedCipherText.java
* /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-jar/com/nimbusds/jose/jwk/PasswordLookup.java
* /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-jar/com/nimbusds/jose/crypto/impl/ConcatKDF.java
* /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-jar/com/nimbusds/jose/jwk/PEMEncodedKeyParser.java
* /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-jar/com/nimbusds/jose/crypto/impl/PBKDF2.java
* /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-jar/com/nimbusds/jose/crypto/impl/RSACryptoProvider.java
* /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-jar/com/nimbusds/jose/crypto/impl/RSASSA.java

* /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-jar/com/nimbusds/jose/util/IOUtils.java

* /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-jar/com/nimbusds/jose/jwk/gen/package-info.java

* /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-jar/com/nimbusds/jose/jwk/gen/ECKeyGenerator.java

* /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-jar/com/nimbusds/jose/jwk/OctetKeyPair.java

* /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-jar/com/nimbusds/jose/crypto/impl/AlgorithmParametersHelper.java

* /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-jar/com/nimbusds/jose/jwk/gen/JWKGenerator.java

* /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-jar/com/nimbusds/jose/crypto/impl/PasswordBasedCryptoProvider.java

* /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-jar/com/nimbusds/jose/crypto/impl/ECChecks.java

* /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-jar/com/nimbusds/jose/jwk/CurveBasedJWK.java

* /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-jar/com/nimbusds/jwt/proc/JWTClaimsSetAwareJWSKeySelector.java

* /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-jar/com/nimbusds/jose/crypto/impl/DirectCryptoProvider.java

* /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-jar/com/nimbusds/jose/jwk/source/DefaultJWKSetCache.java

* /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-jar/com/nimbusds/jose/util/KeyUtils.java

* /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-jar/com/nimbusds/jose/crypto/impl/LegacyConcatKDF.java

* /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-jar/com/nimbusds/jose/crypto/impl/AESGCM.java

* /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-jar/com/nimbusds/jose/proc/DefaultJOSEObjectTypeVerifier.java

* /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-jar/com/nimbusds/jose/jwk/KeyUseAndOpsConsistency.java

* /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-jar/com/nimbusds/jose/crypto/impl/MACProvider.java

* /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-jar/com/nimbusds/jose/crypto/impl/RSA_OAEP.java

* /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-jar/com/nimbusds/jose/crypto/impl/LegacyAESGCM.java

* /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-jar/com/nimbusds/jose/jwk/JWKException.java

* /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-jar/com/nimbusds/jose/crypto/opts/AllowWeakRSAKey.java

* /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-jar/com/nimbusds/jose/jwk/gen/RSAKeyGenerator.java

* /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-jar/com/nimbusds/jose/crypto/impl/BaseJWEProvider.java

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* /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-
jar/com/nimbusds/jose/crypto/impl/DeflateHelper.java
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jar/com/nimbusds/jose/crypto/impl/HMAC.java
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* /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-
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* /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-
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* /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-
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* /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-
jar/com/nimbusds/jose/util/Container.java
* /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-
jar/com/nimbusds/jose/crypto/impl/UserAuthenticationRequired.java
* /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-
jar/com/nimbusds/jose/crypto/impl/package-info.java
* /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-
jar/com/nimbusds/jose/crypto/impl/AAD.java
* /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-
jar/com/nimbusds/jose/crypto/impl/PRFParams.java
* /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-
jar/com/nimbusds/jose/crypto/impl/RSAPublicKeyUtils.java
* /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-
jar/com/nimbusds/jose/IllegalHeaderException.java
* /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-
jar/com/nimbusds/jose/crypto/impl/CriticalHeaderParamsDeferral.java
* /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-
jar/com/nimbusds/jose/crypto/impl/EdDSAPublicKeyProvider.java
* /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-
jar/com/nimbusds/jose/produce/package-info.java
* /opt/cola/permits/1321246703_1651662733.03/0/nimbus-jose-jwt-9-22-sources-
jar/com/nimbusds/jose/util/BoundedInputStream.java

```

1.36 netty-handler-proxy 4.1.89.Final

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* /opt/cola/permits/1568674913_1676616935.9321377/0/netty-handler-proxy-4-1-89-final-sources-jar/io/netty/handler/proxy/HttpProxyHandler.java
* /opt/cola/permits/1568674913_1676616935.9321377/0/netty-handler-proxy-4-1-89-final-sources-jar/io/netty/handler/proxy/ProxyConnectionEvent.java
* /opt/cola/permits/1568674913_1676616935.9321377/0/netty-handler-proxy-4-1-89-final-sources-jar/io/netty/handler/proxy/ProxyHandler.java
* /opt/cola/permits/1568674913_1676616935.9321377/0/netty-handler-proxy-4-1-89-final-sources-jar/io/netty/handler/proxy/ProxyConnectException.java
* /opt/cola/permits/1568674913_1676616935.9321377/0/netty-handler-proxy-4-1-89-final-sources-jar/io/netty/handler/proxy/Socks5ProxyHandler.java
* /opt/cola/permits/1568674913_1676616935.9321377/0/netty-handler-proxy-4-1-89-final-sources-jar/io/netty/handler/proxy/Socks4ProxyHandler.java

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* /opt/cola/permits/1568674913_1676616935.9321377/0/netty-handler-proxy-4-1-89-final-sources-jar/META-INF/maven/io.netty/netty-handler-proxy/pom.xml

1.37 freemarker 2.3.32

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1.38 selenium-remote-driver 4.1.4

1.38.1 Available under license :

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jar/org/openqa/selenium/concurrent/ExecutorServices.java
* /opt/cola/permits/1612247480_1679586942.0203233/0/selenium-remote-driver-4-1-4-sources-
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* /opt/cola/permits/1612247480_1679586942.0203233/0/selenium-remote-driver-4-1-4-sources-
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* /opt/cola/permits/1612247480_1679586942.0203233/0/selenium-remote-driver-4-1-4-sources-
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* /opt/cola/permits/1612247480_1679586942.0203233/0/selenium-remote-driver-4-1-4-sources-
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* /opt/cola/permits/1612247480_1679586942.0203233/0/selenium-remote-driver-4-1-4-sources-
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* /opt/cola/permits/1612247480_1679586942.0203233/0/selenium-remote-driver-4-1-4-sources-
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* /opt/cola/permits/1612247480_1679586942.0203233/0/selenium-remote-driver-4-1-4-sources-
jar/org/openqa/selenium/remote/TracedCommandExecutor.java
* /opt/cola/permits/1612247480_1679586942.0203233/0/selenium-remote-driver-4-1-4-sources-
jar/org/openqa/selenium/remote/http/netty/NettyWebsocket.java
* /opt/cola/permits/1612247480_1679586942.0203233/0/selenium-remote-driver-4-1-4-sources-
jar/org/openqa/selenium/remote/RemoteWebDriverBuilder.java
* /opt/cola/permits/1612247480_1679586942.0203233/0/selenium-remote-driver-4-1-4-sources-
jar/org/openqa/selenium/remote/tracing/Propagator.java
* /opt/cola/permits/1612247480_1679586942.0203233/0/selenium-remote-driver-4-1-4-sources-
jar/org/openqa/selenium/devtools/idealized/target/Target.java
* /opt/cola/permits/1612247480_1679586942.0203233/0/selenium-remote-driver-4-1-4-sources-
jar/org/openqa/selenium/remote/Response.java
* /opt/cola/permits/1612247480_1679586942.0203233/0/selenium-remote-driver-4-1-4-sources-
jar/org/openqa/selenium/os/ExecutableFinder.java
* /opt/cola/permits/1612247480_1679586942.0203233/0/selenium-remote-driver-4-1-4-sources-
jar/org/openqa/selenium/remote/UselessFileDetector.java
* /opt/cola/permits/1612247480_1679586942.0203233/0/selenium-remote-driver-4-1-4-sources-
jar/org/openqa/selenium/remote/html5/AddApplicationCache.java
* /opt/cola/permits/1612247480_1679586942.0203233/0/selenium-remote-driver-4-1-4-sources-
jar/org/openqa/selenium/devtools/Command.java
* /opt/cola/permits/1612247480_1679586942.0203233/0/selenium-remote-driver-4-1-4-sources-
jar/org/openqa/selenium/remote/Command.java
* /opt/cola/permits/1612247480_1679586942.0203233/0/selenium-remote-driver-4-1-4-sources-
jar/org/openqa/selenium/grid/config/CompoundConfig.java
* /opt/cola/permits/1612247480_1679586942.0203233/0/selenium-remote-driver-4-1-4-sources-
jar/org/openqa/selenium/devtools/idealized/Network.java
* /opt/cola/permits/1612247480_1679586942.0203233/0/selenium-remote-driver-4-1-4-sources-

jar/org/openqa/selenium/devtools/idealized/ScriptId.java
* /opt/cola/permits/1612247480_1679586942.0203233/0/selenium-remote-driver-4-1-4-sources-
jar/org/openqa/selenium/remote/session/SafariFilter.java
* /opt/cola/permits/1612247480_1679586942.0203233/0/selenium-remote-driver-4-1-4-sources-
jar/org/openqa/selenium/grid/config/Role.java
* /opt/cola/permits/1612247480_1679586942.0203233/0/selenium-remote-driver-4-1-4-sources-
jar/org/openqa/selenium/remote/DriverCommand.java
* /opt/cola/permits/1612247480_1679586942.0203233/0/selenium-remote-driver-4-1-4-sources-
jar/org/openqa/selenium/grid/config/Config.java
* /opt/cola/permits/1612247480_1679586942.0203233/0/selenium-remote-driver-4-1-4-sources-
jar/org/openqa/selenium/grid/config/TomlConfig.java
* /opt/cola/permits/1612247480_1679586942.0203233/0/selenium-remote-driver-4-1-4-sources-
jar/org/openqa/selenium/remote/CommandPayload.java
* /opt/cola/permits/1612247480_1679586942.0203233/0/selenium-remote-driver-4-1-4-sources-
jar/org/openqa/selenium/remote/codec/jwp/JsonHttpCommandCodec.java
* /opt/cola/permits/1612247480_1679586942.0203233/0/selenium-remote-driver-4-1-4-sources-
jar/org/openqa/selenium/remote/tracing/opentelemetry/OpenTelemetrySpan.java
* /opt/cola/permits/1612247480_1679586942.0203233/0/selenium-remote-driver-4-1-4-sources-
jar/org/openqa/selenium/devtools/idealized/target/model/SessionID.java
* /opt/cola/permits/1612247480_1679586942.0203233/0/selenium-remote-driver-4-1-4-sources-
jar/org/openqa/selenium/remote/ErrorCodec.java
* /opt/cola/permits/1612247480_1679586942.0203233/0/selenium-remote-driver-4-1-4-sources-
jar/org/openqa/selenium/devtools/Message.java
* /opt/cola/permits/1612247480_1679586942.0203233/0/selenium-remote-driver-4-1-4-sources-
jar/org/openqa/selenium/remote/ShadowRoot.java
* /opt/cola/permits/1612247480_1679586942.0203233/0/selenium-remote-driver-4-1-4-sources-
jar/org/openqa/selenium/remote/mobile/AddNetworkConnection.java
* /opt/cola/permits/1612247480_1679586942.0203233/0/selenium-remote-driver-4-1-4-sources-
jar/org/openqa/selenium/remote/session/FirefoxFilter.java
* /opt/cola/permits/1612247480_1679586942.0203233/0/selenium-remote-driver-4-1-4-sources-
jar/org/openqa/selenium/devtools/noop/NoOpDomains.java
* /opt/cola/permits/1612247480_1679586942.0203233/0/selenium-remote-driver-4-1-4-sources-
jar/org/openqa/selenium/remote/AbstractDriverOptions.java
* /opt/cola/permits/1612247480_1679586942.0203233/0/selenium-remote-driver-4-1-4-sources-
jar/org/openqa/selenium/remote/tracing/empty/NullTracer.java
* /opt/cola/permits/1612247480_1679586942.0203233/0/selenium-remote-driver-4-1-4-sources-
jar/org/openqa/selenium/grid/config/Configs.java
* /opt/cola/permits/1612247480_1679586942.0203233/0/selenium-remote-driver-4-1-4-sources-
jar/org/openqa/selenium/devtools/idealized/target/model/TargetID.java
* /opt/cola/permits/1612247480_1679586942.0203233/0/selenium-remote-driver-4-1-4-sources-
jar/org/openqa/selenium/remote/RemoteMouse.java
* /opt/cola/permits/1612247480_1679586942.0203233/0/selenium-remote-driver-4-1-4-sources-
jar/org/openqa/selenium/remote/service/DriverService.java
* /opt/cola/permits/1612247480_1679586942.0203233/0/selenium-remote-driver-4-1-4-sources-
jar/org/openqa/selenium/remote/CommandExecutor.java
* /opt/cola/permits/1612247480_1679586942.0203233/0/selenium-remote-driver-4-1-4-sources-
jar/org/openqa/selenium/devtools/idealized/Domains.java
* /opt/cola/permits/1612247480_1679586942.0203233/0/selenium-remote-driver-4-1-4-sources-

jar/org/openqa/selenium/grid/config/StandardGridRoles.java
* /opt/cola/permits/1612247480_1679586942.0203233/0/selenium-remote-driver-4-1-4-sources-
jar/org/openqa/selenium/remote/internal/WebElementToJsonConverter.java
* /opt/cola/permits/1612247480_1679586942.0203233/0/selenium-remote-driver-4-1-4-sources-
jar/org/openqa/selenium/remote/SessionId.java
* /opt/cola/permits/1612247480_1679586942.0203233/0/selenium-remote-driver-4-1-4-sources-
jar/org/openqa/selenium/remote/tracing/Status.java
* /opt/cola/permits/1612247480_1679586942.0203233/0/selenium-remote-driver-4-1-4-sources-
jar/org/openqa/selenium/grid/config/ConcatenatingConfig.java
* /opt/cola/permits/1612247480_1679586942.0203233/0/selenium-remote-driver-4-1-4-sources-
jar/org/openqa/selenium/remote/mobile/RemoteNetworkConnection.java
* /opt/cola/permits/1612247480_1679586942.0203233/0/selenium-remote-driver-4-1-4-sources-
jar/org/openqa/selenium/remote/RemoteTags.java
* /opt/cola/permits/1612247480_1679586942.0203233/0/selenium-remote-driver-4-1-4-sources-
jar/org/openqa/selenium/remote/tracing/SpanWrappedHttpHandler.java
* /opt/cola/permits/1612247480_1679586942.0203233/0/selenium-remote-driver-4-1-4-sources-
jar/org/openqa/selenium/remote/LocalFileDetector.java
* /opt/cola/permits/1612247480_1679586942.0203233/0/selenium-remote-driver-4-1-4-sources-
jar/org/openqa/selenium/remote/CommandCodec.java
* /opt/cola/permits/1612247480_1679586942.0203233/0/selenium-remote-driver-4-1-4-sources-
jar/org/openqa/selenium/remote/http/netty/NettyDomainSocketClient.java
* /opt/cola/permits/1612247480_1679586942.0203233/0/selenium-remote-driver-4-1-4-sources-
jar/org/openqa/selenium/devtools/DevTools.java
* /opt/cola/permits/1612247480_1679586942.0203233/0/selenium-remote-driver-4-1-4-sources-
jar/org/openqa/selenium/remote/codec/w3c/W3CHttpCommandCodec.java
* /opt/cola/permits/1612247480_1679586942.0203233/0/selenium-remote-driver-4-1-4-sources-
jar/org/openqa/selenium/remote/ScreenshotException.java
* /opt/cola/permits/1612247480_1679586942.0203233/0/selenium-remote-driver-4-1-4-sources-
jar/org/openqa/selenium/io/FileHandler.java
* /opt/cola/permits/1612247480_1679586942.0203233/0/selenium-remote-driver-4-1-4-sources-
jar/org/openqa/selenium/devtools/idealized/OpaqueKey.java
* /opt/cola/permits/1612247480_1679586942.0203233/0/selenium-remote-driver-4-1-4-sources-
jar/org/openqa/selenium/remote/codec/jwp/JsonHttpResponseCodec.java
* /opt/cola/permits/1612247480_1679586942.0203233/0/selenium-remote-driver-4-1-4-sources-
jar/org/openqa/selenium/grid/config/HasRoles.java
* /opt/cola/permits/1612247480_1679586942.0203233/0/selenium-remote-driver-4-1-4-sources-
jar/org/openqa/selenium/remote/locators/CustomLocator.java
* /opt/cola/permits/1612247480_1679586942.0203233/0/selenium-remote-driver-4-1-4-sources-
jar/org/openqa/selenium/grid/config/ConfigFlags.java
* /opt/cola/permits/1612247480_1679586942.0203233/0/selenium-remote-driver-4-1-4-sources-
jar/org/openqa/selenium/grid/config/JsonConfig.java
* /opt/cola/permits/1612247480_1679586942.0203233/0/selenium-remote-driver-4-1-4-sources-
jar/org/openqa/selenium/remote/CapabilityType.java
* /opt/cola/permits/1612247480_1679586942.0203233/0/selenium-remote-driver-4-1-4-sources-
jar/org/openqa/selenium/remote/HttpCommandExecutor.java
* /opt/cola/permits/1612247480_1679586942.0203233/0/selenium-remote-driver-4-1-4-sources-
jar/org/openqa/selenium/grid/config/EnvConfig.java
* /opt/cola/permits/1612247480_1679586942.0203233/0/selenium-remote-driver-4-1-4-sources-

```
jar/org/openqa/selenium/remote/session/W3CPlatformNameNormaliser.java
* /opt/cola/permits/1612247480_1679586942.0203233/0/selenium-remote-driver-4-1-4-sources-
jar/org/openqa/selenium/remote/html5/RemoteWebStorage.java
* /opt/cola/permits/1612247480_1679586942.0203233/0/selenium-remote-driver-4-1-4-sources-
jar/org/openqa/selenium/remote/AddWebDriverSpecHeaders.java
* /opt/cola/permits/1612247480_1679586942.0203233/0/selenium-remote-driver-4-1-4-sources-
jar/org/openqa/selenium/remote/RemoteKeyboard.java
* /opt/cola/permits/1612247480_1679586942.0203233/0/selenium-remote-driver-4-1-4-sources-
jar/org/openqa/selenium/remote/Browser.java
* /opt/cola/permits/1612247480_1679586942.0203233/0/selenium-remote-driver-4-1-4-sources-
jar/org/openqa/selenium/remote/session/InternetExplorerFilter.java
```

1.39 spec-alpha 0.2.194

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* /opt/cola/permits/1578118055_1677536816.25481/0/spec-alpha-0-2-194-1-jar/META-
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* /opt/cola/permits/1578118055_1677536816.25481/0/spec-alpha-0-2-194-1-jar/clojure/spec/gen/alpha.clj
* /opt/cola/permits/1578118055_1677536816.25481/0/spec-alpha-0-2-194-1-jar/clojure/spec/alpha.clj
```

1.40 namespace 1.4.01

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David Megginson, david@megginson.com
2000-05-05

1.41 sshd-core 2.7.0

1.41.1 Available under license :

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1.42 latencyutils 2.0.3

1.43 twilio 7.50.0

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```
* /opt/cola/permits/1612303956_1679589369.5335782/0/twilio-7-50-0-sources-1-jar/META-INF/maven/com.twilio.sdk/twilio/pom.xml
```

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```
/**
```

```
 * Returns The SID of the Asset resource that is the parent of the asset
 * version.
 *
 * @return The SID of the Asset resource that is the parent of the asset version
 */
```

Found in path(s):

```
* /opt/cola/permits/1612303956_1679589369.5335782/0/twilio-7-50-0-sources-1-jar/com/twilio/rest/serverless/v1/service/asset/AssetVersion.java
```

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```
public DomainCreator(final String domainName) {
public DomainCreator(final String pathAccountSid,
public DomainCreator setFriendlyName(final String friendlyName) {
public DomainCreator setVoiceUrl(final URI voiceUrl) {
public DomainCreator setVoiceUrl(final String voiceUrl) {
public DomainCreator setVoiceMethod(final HttpMethod voiceMethod) {
public DomainCreator setVoiceFallbackUrl(final URI voiceFallbackUrl) {
public DomainCreator setVoiceFallbackUrl(final String voiceFallbackUrl) {
public DomainCreator setVoiceFallbackMethod(final HttpMethod voiceFallbackMethod) {
public DomainCreator setVoiceStatusCallbackUrl(final URI voiceStatusCallbackUrl) {
public DomainCreator setVoiceStatusCallbackUrl(final String voiceStatusCallbackUrl) {
public DomainCreator setVoiceStatusCallbackMethod(final HttpMethod voiceStatusCallbackMethod) {
public DomainCreator setSipRegistration(final Boolean sipRegistration) {
public DomainCreator setEmergencyCallingEnabled(final Boolean emergencyCallingEnabled) {
public DomainCreator setSecure(final Boolean secure) {
public Domain create(final TwilioRestClient client) {
```

Found in path(s):


```
* /opt/cola/permits/1612303956_1679589369.5335782/0/twilio-7-50-0-sources-1-  
jar/com/twilio/rest/api/v2010/account/sip/DomainCreator.java
```

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```
public DomainDeleter(final String pathSid) {  
public DomainDeleter(final String pathAccountSid,
```

Found in path(s):

```
* /opt/cola/permits/1612303956_1679589369.5335782/0/twilio-7-50-0-sources-1-  
jar/com/twilio/rest/api/v2010/account/sip/DomainDeleter.java
```

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```
public DomainUpdater(final String pathSid) {  
public DomainUpdater(final String pathAccountSid,  
public DomainUpdater setFriendlyName(final String friendlyName) {  
public DomainUpdater setVoiceFallbackMethod(final HttpMethod voiceFallbackMethod) {  
public DomainUpdater setVoiceFallbackUrl(final URI voiceFallbackUrl) {  
public DomainUpdater setVoiceFallbackUrl(final String voiceFallbackUrl) {  
public DomainUpdater setVoiceMethod(final HttpMethod voiceMethod) {  
public DomainUpdater setVoiceStatusCallbackMethod(final HttpMethod voiceStatusCallbackMethod) {  
public DomainUpdater setVoiceStatusCallbackUrl(final URI voiceStatusCallbackUrl) {  
public DomainUpdater setVoiceStatusCallbackUrl(final String voiceStatusCallbackUrl) {  
public DomainUpdater setVoiceUrl(final URI voiceUrl) {  
public DomainUpdater setVoiceUrl(final String voiceUrl) {  
public DomainUpdater setSipRegistration(final Boolean sipRegistration) {  
public DomainUpdater setDomainName(final String domainName) {  
public DomainUpdater setEmergencyCallingEnabled(final Boolean emergencyCallingEnabled) {  
public DomainUpdater setSecure(final Boolean secure) {  
public Domain update(final TwilioRestClient client) {
```

Found in path(s):

```
* /opt/cola/permits/1612303956_1679589369.5335782/0/twilio-7-50-0-sources-1-  
jar/com/twilio/rest/api/v2010/account/sip/DomainUpdater.java
```

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```
public DomainReader() {  
public DomainReader(final String pathAccountSid) {
```

Found in path(s):

```
* /opt/cola/permits/1612303956_1679589369.5335782/0/twilio-7-50-0-sources-1-  
jar/com/twilio/rest/api/v2010/account/sip/DomainReader.java
```

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```
/**
```

```
 * The HTTP method to use for calls to the `pre_webhook_url` and  
 * `post_webhook_url` webhooks. Can be: `POST` or `GET` and the default is  
 * `POST`. See [Webhook Events](https://www.twilio.com/docs/chat/webhook-events)  
 * for more details..
```

```
*
* @param webhookMethod The HTTP method to use for both PRE and POST webhooks
* @return this
*/
```

Found in path(s):

```
* /opt/cola/permits/1612303956_1679589369.5335782/0/twilio-7-50-0-sources-1-
jar/com/twilio/rest/chat/v2/ServiceUpdater.java
* /opt/cola/permits/1612303956_1679589369.5335782/0/twilio-7-50-0-sources-1-
jar/com/twilio/rest/chat/v1/ServiceUpdater.java
* /opt/cola/permits/1612303956_1679589369.5335782/0/twilio-7-50-0-sources-1-
jar/com/twilio/rest/ipmessaging/v2/ServiceUpdater.java
* /opt/cola/permits/1612303956_1679589369.5335782/0/twilio-7-50-0-sources-1-
jar/com/twilio/rest/ipmessaging/v1/ServiceUpdater.java
```

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```
public DomainFetcher(final String pathSid) {
public DomainFetcher(final String pathAccountSid,
public Domain fetch(final TwilioRestClient client) {
```

Found in path(s):

```
* /opt/cola/permits/1612303956_1679589369.5335782/0/twilio-7-50-0-sources-1-
jar/com/twilio/rest/api/v2010/account/sip/DomainFetcher.java
```

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```
/**
* The URL from your application that will process task assignment events. See
* [Handling Task Assignment
* Callback](https://www.twilio.com/docs/taskrouter/handle-assignment-callbacks)
* for more details..
*
* @param assignmentCallbackUrl The URL from your application that will process
* task assignment events
* @return this
*/
```

Found in path(s):

```
* /opt/cola/permits/1612303956_1679589369.5335782/0/twilio-7-50-0-sources-1-
jar/com/twilio/rest/taskrouter/v1/workspace/WorkflowUpdater.java
* /opt/cola/permits/1612303956_1679589369.5335782/0/twilio-7-50-0-sources-1-
jar/com/twilio/rest/taskrouter/v1/workspace/WorkflowCreator.java
```

1.44 swagger 2.2.7

1.44.1 Available under license :

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```
private String    licenseUrl    = "http://www.apache.org/licenses/LICENSE-2.0.html";
```

Found in path(s):

```
* /opt/cola/permits/1498547077_1674569415.0280702/0/common-swagger-2-2-7-release-sources-  
jar/com/github/yaoguoh/common/swagger/properties/SwaggerProperties.java
```

1.45 springdoc-openapi-ui 1.6.14

1.45.1 Available under license :

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* * *  
* *  
*  
*/
```

Found in path(s):

```
* /opt/cola/permits/1513322594_1671462910.77434/0/springdoc-openapi-ui-1-6-14-sources-  
jar/org/springdoc/webmvc/ui/SwaggerIndexTransformer.java  
* /opt/cola/permits/1513322594_1671462910.77434/0/springdoc-openapi-ui-1-6-14-sources-  
jar/org/springdoc/webmvc/ui/SwaggerWebMvcConfigurer.java  
* /opt/cola/permits/1513322594_1671462910.77434/0/springdoc-openapi-ui-1-6-14-sources-  
jar/org/springdoc/webmvc/ui/SwaggerWelcomeWebMvc.java  
* /opt/cola/permits/1513322594_1671462910.77434/0/springdoc-openapi-ui-1-6-14-sources-  
jar/org/springdoc/webmvc/ui/SwaggerConfigResource.java  
* /opt/cola/permits/1513322594_1671462910.77434/0/springdoc-openapi-ui-1-6-14-sources-  
jar/org/springdoc/webmvc/ui/SwaggerWelcomeCommon.java
```

* /opt/cola/permits/1513322594_1671462910.77434/0/springdoc-openapi-ui-1-6-14-sources-jar/org/springdoc/webmvc/ui/SwaggerUiHome.java
* /opt/cola/permits/1513322594_1671462910.77434/0/springdoc-openapi-ui-1-6-14-sources-jar/org/springdoc/webmvc/ui/SwaggerConfig.java
* /opt/cola/permits/1513322594_1671462910.77434/0/springdoc-openapi-ui-1-6-14-sources-jar/org/springdoc/webmvc/ui/SwaggerWelcomeActuator.java
* /opt/cola/permits/1513322594_1671462910.77434/0/springdoc-openapi-ui-1-6-14-sources-jar/org/springdoc/webmvc/ui/SwaggerIndexPageTransformer.java

1.46 htmlunit-xpath 2.70.0

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```
</pre>
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```

```
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<pre>
```

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include/GL/gl.h :

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include/GL/glext.h
include/GL/glxext.h
include/GL/wglxext.h :
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```
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jar/io/netty/resolver/package-info.java
* /opt/cola/permits/1568674899_1676616979.8880045/0/netty-resolver-4-1-89-final-sources-
jar/io/netty/resolver/NoopAddressResolver.java
* /opt/cola/permits/1568674899_1676616979.8880045/0/netty-resolver-4-1-89-final-sources-
jar/io/netty/resolver/NameResolver.java
* /opt/cola/permits/1568674899_1676616979.8880045/0/netty-resolver-4-1-89-final-sources-
jar/io/netty/resolver/SimpleNameResolver.java
* /opt/cola/permits/1568674899_1676616979.8880045/0/netty-resolver-4-1-89-final-sources-
jar/io/netty/resolver/AddressResolverGroup.java
* /opt/cola/permits/1568674899_1676616979.8880045/0/netty-resolver-4-1-89-final-sources-
jar/io/netty/resolver/NoopAddressResolverGroup.java
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* /opt/cola/permits/1568674899_1676616979.8880045/0/netty-resolver-4-1-89-final-sources-jar/io/netty/resolver/InetNameResolver.java

* /opt/cola/permits/1568674899_1676616979.8880045/0/netty-resolver-4-1-89-final-sources-jar/io/netty/resolver/AbstractAddressResolver.java

* /opt/cola/permits/1568674899_1676616979.8880045/0/netty-resolver-4-1-89-final-sources-jar/io/netty/resolver/CompositeNameResolver.java

* /opt/cola/permits/1568674899_1676616979.8880045/0/netty-resolver-4-1-89-final-sources-jar/io/netty/resolver/DefaultNameResolver.java

* /opt/cola/permits/1568674899_1676616979.8880045/0/netty-resolver-4-1-89-final-sources-jar/io/netty/resolver/HostsFileParser.java

* /opt/cola/permits/1568674899_1676616979.8880045/0/netty-resolver-4-1-89-final-sources-jar/io/netty/resolver/DefaultAddressResolverGroup.java

```
* /opt/cola/permits/1568674899_1676616979.8880045/0/netty-resolver-4-1-89-final-sources-
jar/io/netty/resolver/DefaultHostsFileEntriesResolver.java
* /opt/cola/permits/1568674899_1676616979.8880045/0/netty-resolver-4-1-89-final-sources-
jar/io/netty/resolver/InetSocketAddressResolver.java
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jar/io/netty/resolver/ResolvedAddressTypes.java
* /opt/cola/permits/1568674899_1676616979.8880045/0/netty-resolver-4-1-89-final-sources-
jar/io/netty/resolver/HostsFileEntries.java
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* /opt/cola/permits/1568674899_1676616979.8880045/0/netty-resolver-4-1-89-final-sources-  
jar/io/netty/resolver/HostsFileEntriesProvider.java
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* /opt/cola/permits/1568674899_1676616979.8880045/0/netty-resolver-4-1-89-final-sources-  
jar/io/netty/resolver/RoundRobinInetAddressResolver.java
```

1.55 j2objc-annotations 1.3

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```

package java.security;

import java.io.Serializable;

/**
 * Legacy security code; do not use.
 */
public abstract class Permission implements Guard, Serializable {
    public Permission(String name) { }

    public final String getName() { return null; }

    public void checkGuard(Object obj) throws SecurityException { }

    public PermissionCollection newPermissionCollection() {
        return new AllPermissionCollection();
    }

    public abstract String getActions();

    public abstract boolean implies(Permission permission);
}

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* file name: UBiDiProps.java
* encoding: US-ASCII
* tab size: 8 (not used)
* indentation:4
*
* created on: 2005jan16
* created by: Markus W. Scherer

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<code>Replaceable</code> is an interface representing a string of characters that supports the replacement of a range of itself with a new string of characters. It is used by APIs that change a piece of text while retaining metadata. Metadata is data other than the Unicode characters returned by `char32At()`. One example of metadata is style attributes; another is an edit history, marking each character with an author and revision number.

<p>An implicit aspect of the <code>Replaceable</code> API is that during a replace operation, new characters take on the metadata of the old characters. For example, if the string "the bold font" has range (4, 8) replaced with "strong", then it becomes "the strong font".

<p><code>Replaceable</code> specifies ranges using a start offset and a limit offset. The range of characters thus specified includes the characters at offset `start..limit-1`. That is, the start offset is inclusive, and the limit offset is exclusive.

<p><code>Replaceable</code> also includes API to access characters in the string: `length()`, `charAt()`, `char32At()`, and `extractBetween()`.

<p>For a subclass to support metadata, typical behavior of `replace()` is the following:

Set the metadata of the new text to the metadata of the first character replaced

If no characters are replaced, use the metadata of the previous character

If there is no previous character (i.e. `start == 0`), use the following character

- If there is no following character (i.e. the replaceable was empty), use default metadata

- If the code point U+FFFF is seen, it should be interpreted as a special marker having no metadata

If this is not the behavior, the subclass should document any differences.

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@author Alan Liu

@stable ICU 2.0

<code>ReplaceableString</code> is an adapter class that implements the <code>Replaceable</code> API around an ordinary <code>StringBuffer</code>.

<p>Note: This class does not support attributes and is not intended for general use. Most clients will need to implement { @link Replaceable} in their text representation class.

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@see Replaceable

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@stable ICU 2.0

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1.57 zipkin-reporter-metrics-micrometer

2.16.3

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1.58 groovy 3.0.15

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Format: one extension on each line without the leading "*."
Listed below are default groovy source file extensions.

NOTE: This implementation of supporting multiple file extensions is experimental and
the exact implementation details may vary when modularization gets introduced in
groovy 2.0. However, in terms of the behavior, this support will remain intact.
groovy

Found in path(s):

* /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/META-
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global transformation to handle @Grab annotation
groovy.grape.GrabAnnotationTransformation

Found in path(s):

* /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/META-
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* This file is adapted from the Antlr4 Java grammar which has the following license
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```

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*/

/**
* The Groovy grammar is based on the official grammar for Java:
* https://github.com/antlr/grammars-v4/blob/master/java/Java.g4
*/
lexer grammar GroovyLexer;

options {
    superClass = AbstractLexer;
}

@header {
    import java.util.Deque;
    import java.util.ArrayDeque;
    import java.util.Map;
    import java.util.HashMap;
    import java.util.Set;
    import java.util.HashSet;
    import java.util.Collections;
    import java.util.Arrays;
    import java.util.stream.IntStream;
    import java.util.logging.Logger;
    import java.util.logging.Level;
    import java.util.EmptyStackException;
    import org.apache.groovy.util.Maps;
    import static org.apache.groovy.parser.antlr4.SemanticPredicates.*;

```

```

}

@members {
    private static final Logger LOGGER = Logger.getLogger(GroovyLexer.class.getName());

    private boolean errorIgnored;
    private long tokenIndex;
    private int lastTokenType;
    private int invalidDigitCount;

    /**
     * Record the index and token type of the current token while emitting tokens.
     */
    @Override
    public void emit(Token token) {
        this.tokenIndex++;

        int tokenType = token.getType();
        if (Token.DEFAULT_CHANNEL == token.getChannel()) {
            this.lastTokenType = tokenType;
        }

        if (RollBackOne == tokenType) {
            this.rollbackOneChar();
        }

        super.emit(token);
    }

    private static final int[] REGEX_CHECK_ARRAY = {
        DEC,
        INC,
        THIS,
        RBRACE,
        RBRACK,
        RPAREN,
        GStringEnd,
        NullLiteral,
        StringLiteral,
        BooleanLiteral,
        IntegerLiteral,
        FloatingPointLiteral,
        Identifier, CapitalizedIdentifier
    };
    static {
        Arrays.sort(REGEX_CHECK_ARRAY);
    }
}

```



```

private boolean isRegexAllowed() {
    return (Arrays.binarySearch(REGEX_CHECK_ARRAY, this.lastTokenType) < 0);
}

/**
 * just a hook, which will be overridden by GroovyLangLexer
 */
protected void rollbackOneChar() {}

private static class Paren {
    private String text;
    private int lastTokenType;
    private int line;
    private int column;

    public Paren(String text, int lastTokenType, int line, int column) {
        this.text = text;
        this.lastTokenType = lastTokenType;
        this.line = line;
        this.column = column;
    }

    public String getText() {
        return this.text;
    }

    public int getLastTokenType() {
        return this.lastTokenType;
    }

    public int getLine() {
        return line;
    }

    public int getColumn() {
        return column;
    }

    @Override
    public int hashCode() {
        return (int) (text.hashCode() * line + column);
    }

    @Override
    public boolean equals(Object obj) {
        if (!(obj instanceof Paren)) {
            return false;
        }
    }
}

```

```

    Paren other = (Paren) obj;

    return this.text.equals(other.text) && (this.line == other.line && this.column == other.column);
}
}

protected void enterParenCallback(String text) {}

protected void exitParenCallback(String text) {}

private final Deque<Paren> parenStack = new ArrayDeque<>(32);

private void enterParen() {
    String text = getText();
    enterParenCallback(text);

    parenStack.push(new Paren(text, this.lastTokenType, getLine(), getCharPositionInLine()));
}

private void exitParen() {
    String text = getText();
    exitParenCallback(text);

    Paren paren = parenStack.peek();
    if (null == paren) return;
    parenStack.pop();
}

private boolean isInsideParens() {
    Paren paren = parenStack.peek();

    // We just care about "(" and "[", inside which the new lines will be ignored.
    // Notice: the new lines between "{" and "}" can not be ignored.
    if (null == paren) {
        return false;
    }

    return ("(".equals(paren.getText()) && TRY != paren.getLastTokenType()) // we don't treat try-paren(i.e. try
(...)) as parenthesis
        || "[".equals(paren.getText());
}

private void ignoreTokenInsideParens() {
    if (!this.isInsideParens()) {
        return;
    }

    this.setChannel(Token.HIDDEN_CHANNEL);
}
}

```

```

private void ignoreMultiLineCommentConditionally() {
    if (!this.isInsideParens() && isFollowedByWhiteSpaces(_input)) {
        return;
    }

    this.setChannel(Token.HIDDEN_CHANNEL);
}

@Override
public int getSyntaxErrorSource() {
    return GroovySyntaxError.LEXER;
}

@Override
public int getErrorLine() {
    return getLine();
}

@Override
public int getErrorColumn() {
    return getCharPositionInLine() + 1;
}

@Override
public int popMode() {
    try {
        return super.popMode();
    } catch (EmptyStackException ignored) { // raised when parens are unmatched: too many ), ], or }
        if (LOGGER.isLoggable(Level.FINEST)) {
            LOGGER.finest(org.codehaus.groovy.runtime.DefaultGroovyMethods.asString(ignored));
        }
    }

    return Integer.MIN_VALUE;
}

private static boolean isJavaIdentifierStartAndNotIdentifierIgnorable(int codePoint) {
    return Character.isJavaIdentifierStart(codePoint) && !Character.isIdentifierIgnorable(codePoint);
}

private static boolean isJavaIdentifierPartAndNotIdentifierIgnorable(int codePoint) {
    return Character.isJavaIdentifierPart(codePoint) && !Character.isIdentifierIgnorable(codePoint);
}

public boolean isErrorIgnored() {
    return errorIgnored;
}

```

```

public void setErrorIgnored(boolean errorIgnored) {
    this.errorIgnored = errorIgnored;
}
}

// §3.10.5 String Literals
StringLiteral
: GStringQuotationMark DqStringCharacter* GStringQuotationMark
| SqStringQuotationMark SqStringCharacter* SqStringQuotationMark
| Slash { this.isRegexAllowed() && _input.LA(1) != '*' }? SlashyStringCharacter+ Slash

| TdqStringQuotationMark TdqStringCharacter* TdqStringQuotationMark
| TsqStringQuotationMark TsqStringCharacter* TsqStringQuotationMark
| DollarSlashyGStringQuotationMarkBegin DollarSlashyStringCharacter+
DollarSlashyGStringQuotationMarkEnd
;

GStringBegin
: GStringQuotationMark DqStringCharacter* Dollar -> pushMode(DQ_GSTRING_MODE),
pushMode(GSTRING_TYPE_SELECTOR_MODE)
;

TdqGStringBegin
: TdqStringQuotationMark TdqStringCharacter* Dollar -> type(GStringBegin),
pushMode(TDQ_GSTRING_MODE), pushMode(GSTRING_TYPE_SELECTOR_MODE)
;

SlashyGStringBegin
: Slash { this.isRegexAllowed() && _input.LA(1) != '*' }? SlashyStringCharacter* Dollar {
isFollowedByJavaLetterInGString(_input) }? -> type(GStringBegin), pushMode(SLASHY_GSTRING_MODE),
pushMode(GSTRING_TYPE_SELECTOR_MODE)
;

DollarSlashyGStringBegin
: DollarSlashyGStringQuotationMarkBegin DollarSlashyStringCharacter* Dollar {
isFollowedByJavaLetterInGString(_input) }? -> type(GStringBegin),
pushMode(DOLLAR_SLASHY_GSTRING_MODE), pushMode(GSTRING_TYPE_SELECTOR_MODE)
;

mode DQ_GSTRING_MODE;
GStringEnd
: GStringQuotationMark -> popMode
;

GStringPart
: Dollar -> pushMode(GSTRING_TYPE_SELECTOR_MODE)
;

GStringCharacter
: DqStringCharacter -> more
;

```

```

mode TDQ_GSTRING_MODE;
TdqGStringEnd
: TdqStringQuotationMark -> type(GStringEnd), popMode
;
TdqGStringPart
: Dollar -> type(GStringPart), pushMode(GSTRING_TYPE_SELECTOR_MODE)
;
TdqGStringCharacter
: TdqStringCharacter -> more
;

mode SLASHY_GSTRING_MODE;
SlashyGStringEnd
: Dollar? Slash -> type(GStringEnd), popMode
;
SlashyGStringPart
: Dollar { isFollowedByJavaLetterInGString(_input) }? -> type(GStringPart),
pushMode(GSTRING_TYPE_SELECTOR_MODE)
;
SlashyGStringCharacter
: SlashyStringCharacter -> more
;

mode DOLLAR_SLASHY_GSTRING_MODE;
DollarSlashyGStringEnd
: DollarSlashyGStringQuotationMarkEnd -> type(GStringEnd), popMode
;
DollarSlashyGStringPart
: Dollar { isFollowedByJavaLetterInGString(_input) }? -> type(GStringPart),
pushMode(GSTRING_TYPE_SELECTOR_MODE)
;
DollarSlashyGStringCharacter
: DollarSlashyStringCharacter -> more
;

mode GSTRING_TYPE_SELECTOR_MODE;
GStringLBrace
: '{' { this.enterParen(); } -> type(LBRACE), popMode, pushMode(DEFAULT_MODE)
;
GStringIdentifier
: IdentifierInGString -> type(Identifier), popMode, pushMode(GSTRING_PATH_MODE)
;

mode GSTRING_PATH_MODE;
GStringPathPart
: Dot IdentifierInGString
;

```

RollBackOne

```
: . {
    // a trick to handle GStrings followed by EOF properly
    int readChar = _input.LA(-1);
    if (EOF == _input.LA(1) && ('' == readChar || '/' == readChar)) {
        setType(GStringEnd);
    } else {
        setChannel(HIDDEN);
    }
} -> popMode
;

mode DEFAULT_MODE;
// character in the double quotation string. e.g. "a"
fragment
DqStringCharacter
: ~["\r\n\\$]
| EscapeSequence
;

// character in the single quotation string. e.g. 'a'
fragment
SqStringCharacter
: ~['\r\n\\]
| EscapeSequence
;

// character in the triple double quotation string. e.g. ""a""
fragment TdqStringCharacter
: ~["\\$]
| GStringQuotationMark { _input.LA(1) != '"' || _input.LA(2) != '"' || _input.LA(3) == '"' && (_input.LA(4) != '"'
|| _input.LA(5) != '"') }?
| EscapeSequence
;

// character in the triple single quotation string. e.g. "a"
fragment TsqStringCharacter
: ~[\"\\]
| SqStringQuotationMark { _input.LA(1) != '\"' || _input.LA(2) != '\"' || _input.LA(3) == '\"' && (_input.LA(4) !=
\"' || _input.LA(5) != '\"') }?
| EscapeSequence
;

// character in the slashy string. e.g. /a/
fragment SlashyStringCharacter
: SlashEscape
| Dollar { !isFollowedByJavaLetterInGString(_input) }?
```

```

| ~[/$\u0000]
;

// character in the dollar slashy string. e.g. $/a/$
fragment DollarSlashyStringCharacter
: DollarSlashEscape | DollarDollarEscape
| Slash { _input.LA(1) != '$' }?
| Dollar { !isFollowedByJavaLetterInGString(_input) }?
| ~[/$\u0000]
;

// Groovy keywords
AS      : 'as';
DEF     : 'def';
IN      : 'in';
TRAIT   : 'trait';
THREADSAFE : 'threadsafe'; // reserved keyword

// the reserved type name of Java10
VAR     : 'var';

// §3.9 Keywords
BuiltInPrimitiveType
: BOOLEAN
| CHAR
| BYTE
| SHORT
| INT
| LONG
| FLOAT
| DOUBLE
;

ABSTRACT : 'abstract';
ASSERT   : 'assert';

fragment
BOOLEAN : 'boolean';

BREAK   : 'break';

fragment
BYTE    : 'byte';

CASE    : 'case';
CATCH   : 'catch';

fragment

```

CHAR : 'char';

CLASS : 'class';

CONST : 'const';

CONTINUE : 'continue';

DEFAULT : 'default';

DO : 'do';

fragment

DOUBLE : 'double';

ELSE : 'else';

ENUM : 'enum';

EXTENDS : 'extends';

FINAL : 'final';

FINALLY : 'finally';

fragment

FLOAT : 'float';

FOR : 'for';

IF : 'if';

GOTO : 'goto';

IMPLEMENTS : 'implements';

IMPORT : 'import';

INSTANCEOF : 'instanceof';

fragment

INT : 'int';

INTERFACE : 'interface';

fragment

LONG : 'long';

NATIVE : 'native';

NEW : 'new';

PACKAGE : 'package';

PRIVATE : 'private';

PROTECTED : 'protected';

PUBLIC : 'public';

RETURN : 'return';

fragment

SHORT : 'short';


```
STATIC      : 'static';
STRICTFP   : 'strictfp';
SUPER      : 'super';
SWITCH     : 'switch';
SYNCHRONIZED : 'synchronized';
THIS       : 'this';
THROW      : 'throw';
THROWS     : 'throws';
TRANSIENT  : 'transient';
TRY        : 'try';
VOID       : 'void';
VOLATILE   : 'volatile';
WHILE      : 'while';
```

```
// §3.10.1 Integer Literals
```

```
IntegerLiteral
```

```
  : ( DecimalIntegerLiteral
    | HexIntegerLiteral
    | OctalIntegerLiteral
    | BinaryIntegerLiteral
    )(Underscore { require(errorIgnored, "Number ending with underscores is invalid", -1, true); })?
```

```
  // !!! Error Alternative !!!
```

```
  | Zero ([0-9] { invalidDigitCount++; })+ { require(errorIgnored, "Invalid octal number", -(invalidDigitCount +
1), true); } IntegerTypeSuffix?
  ;
```

```
fragment
```

```
Zero
```

```
  : '0'
  ;
```

```
fragment
```

```
DecimalIntegerLiteral
```

```
  : DecimalNumeral IntegerTypeSuffix?
  ;
```

```
fragment
```

```
HexIntegerLiteral
```

```
  : HexNumeral IntegerTypeSuffix?
  ;
```

```
fragment
```

```
OctalIntegerLiteral
```

```
  : OctalNumeral IntegerTypeSuffix?
  ;
```

fragment
BinaryIntegerLiteral
: BinaryNumeral IntegerTypeSuffix?
;

fragment
IntegerTypeSuffix
: [LiIgG]
;

fragment
DecimalNumeral
: Zero
| NonZeroDigit (Digits? | Underscores Digits)
;

fragment
Digits
: Digit (DigitOrUnderscore* Digit)?
;

fragment
Digit
: Zero
| NonZeroDigit
;

fragment
NonZeroDigit
: [1-9]
;

fragment
DigitOrUnderscore
: Digit
| Underscore
;

fragment
Underscores
: Underscore+
;

fragment
Underscore
: '_'
;

fragment
HexNumeral
: Zero [xX] HexDigits
;

fragment
HexDigits
: HexDigit (HexDigitOrUnderscore* HexDigit)?
;

fragment
HexDigit
: [0-9a-fA-F]
;

fragment
HexDigitOrUnderscore
: HexDigit
| Underscore
;

fragment
OctalNumeral
: Zero Underscores? OctalDigits
;

fragment
OctalDigits
: OctalDigit (OctalDigitOrUnderscore* OctalDigit)?
;

fragment
OctalDigit
: [0-7]
;

fragment
OctalDigitOrUnderscore
: OctalDigit
| Underscore
;

fragment
BinaryNumeral
: Zero [bB] BinaryDigits
;

```
fragment
BinaryDigits
: BinaryDigit (BinaryDigitOrUnderscore* BinaryDigit)?
;
```

```
fragment
BinaryDigit
: [01]
;
```

```
fragment
BinaryDigitOrUnderscore
: BinaryDigit
| Underscore
;
```

```
// §3.10.2 Floating-Point Literals
```

```
FloatingPointLiteral
: ( DecimalFloatingPointLiteral
| HexadecimalFloatingPointLiteral
) (Underscore { require(errorIgnored, "Number ending with underscores is invalid", -1, true); })?
;
```

```
fragment
DecimalFloatingPointLiteral
: Digits? Dot Digits ExponentPart? FloatTypeSuffix?
| Digits ExponentPart FloatTypeSuffix?
| Digits FloatTypeSuffix
;
```

```
fragment
ExponentPart
: ExponentIndicator SignedInteger
;
```

```
fragment
ExponentIndicator
: [eE]
;
```

```
fragment
SignedInteger
: Sign? Digits
;
```

```
fragment
Sign
```

```

: [+|-]
;

fragment
FloatTypeSuffix
: [fFdDgG]
;

fragment
HexadecimalFloatingPointLiteral
: HexSignificand BinaryExponent FloatTypeSuffix?
;

fragment
HexSignificand
: HexNumeral Dot?
| Zero [xX] HexDigits? Dot HexDigits
;

fragment
BinaryExponent
: BinaryExponentIndicator SignedInteger
;

fragment
BinaryExponentIndicator
: [pP]
;

fragment
Dot: '.'
;

// §3.10.3 Boolean Literals

BooleanLiteral
: 'true'
| 'false'
;

// §3.10.6 Escape Sequences for Character and String Literals

fragment
EscapeSequence
: Backslash [btnfrs"\\\]
| OctalEscape
| UnicodeEscape

```

```

| DollarEscape
| LineEscape
;

fragment
OctalEscape
: Backslash OctalDigit
| Backslash OctalDigit OctalDigit
| Backslash ZeroToThree OctalDigit OctalDigit
;

// Groovy allows 1 or more u's after the backslash
fragment
UnicodeEscape
: Backslash 'u' HexDigit HexDigit HexDigit HexDigit
;

fragment
ZeroToThree
: [0-3]
;

// Groovy Escape Sequences

fragment
DollarEscape
: Backslash Dollar
;

fragment
LineEscape
: Backslash LineTerminator
;

fragment
LineTerminator
: '\r'? '\n' | '\r'
;

fragment
SlashEscape
: Backslash Slash
;

fragment
Backslash
: '\\'

```

;

fragment

Slash

: '/'

;

fragment

Dollar

: '\$'

;

fragment

GStringQuotationMark

: ""

;

fragment

SqStringQuotationMark

: \"

;

fragment

TdqStringQuotationMark

: """"

;

fragment

TsqStringQuotationMark

: "\\\"

;

fragment

DollarSlashyGStringQuotationMarkBegin

: '\$/'

;

fragment

DollarSlashyGStringQuotationMarkEnd

: '/\$'

;

fragment

DollarSlashEscape

: '\$/'

;

fragment

```

DollarDollarEscape
  : '$$'
  ;

// §3.10.7 The Null Literal
NullLiteral
  : 'null'
  ;

// Groovy Operators

RANGE_INCLUSIVE  : '..';
RANGE_EXCLUSIVE  : '..<';
SPREAD_DOT       : '*.';
SAFE_DOT         : '?.';
SAFE_CHAIN_DOT   : '??.';
ELVIS            : '?.';
METHOD_POINTER    : '&';
METHOD_REFERENCE  : '::';
REGEX_FIND       : '=~';
REGEX_MATCH      : '==~';
POWER            : '**';
POWER_ASSIGN     : '**=';
SPACESHIP        : '<=>';
IDENTICAL        : '==';
NOT_IDENTICAL    : '!=';
ARROW            : '->';

// !internalPromise will be parsed as !in ternalPromise, so semantic predicates are necessary
NOT_INSTANCEOF   : '!instanceof' { isFollowedBy(_input, '\t', '\r', '\n') }?;
NOT_IN           : '!in'       { isFollowedBy(_input, '\t', '\r', '\n', '[', '(', '{') }?;

// §3.11 Separators

LPAREN          : '(' { this.enterParen(); } -> pushMode(DEFAULT_MODE);
RPAREN          : ')' { this.exitParen(); } -> popMode;

LBRACE          : '{' { this.enterParen(); } -> pushMode(DEFAULT_MODE);
RBRACE          : '}' { this.exitParen(); } -> popMode;

LBRACK          : '[' { this.enterParen(); } -> pushMode(DEFAULT_MODE);
RBRACK          : ']' { this.exitParen(); } -> popMode;

SEMI           : ';';
COMMA          : ',';
DOT            : '.';

```


// §3.12 Operators

ASSIGN : '=';
GT : '>';
LT : '<';
NOT : '!';
BITNOT : '~';
QUESTION : '?';
COLON : ':';
EQUAL : '==';
LE : '<=';
GE : '>=';
NOTEQUAL : '!=';
AND : '&&';
OR : '||';
INC : '++';
DEC : '--';
ADD : '+';
SUB : '-';
MUL : '*';
DIV : '/';
BITAND : '&';
BITOR : '|';
XOR : '^';
MOD : '%';

ADD_ASSIGN : '+=';
SUB_ASSIGN : '-=';
MUL_ASSIGN : '*=';
DIV_ASSIGN : '/=';
AND_ASSIGN : '&=';
OR_ASSIGN : '|=';
XOR_ASSIGN : '^=';
MOD_ASSIGN : '%=';
LSHIFT_ASSIGN : '<<=';
RSHIFT_ASSIGN : '>>=';
URSHIFT_ASSIGN : '>>>=';
ELVIS_ASSIGN : '?=';

// §3.8 Identifiers (must appear after all keywords in the grammar)

CapitalizedIdentifier

: JavaLetter {Character.isUpperCase(_input.LA(-1))}? JavaLetterOrDigit*
;

Identifier

: JavaLetter JavaLetterOrDigit*

```

;

fragment
IdentifierInGString
: JavaLetterInGString JavaLetterOrDigitInGString*
;

fragment
JavaLetter
: [a-zA-Z$_] // these are the "java letters" below 0x7F
| // covers all characters above 0x7F which are not a surrogate
~[\u0000-\u007F\uD800-\uDBFF]
{ isJavaIdentifierStartAndNotIdentifierIgnorable(_input.LA(-1)) }?
| // covers UTF-16 surrogate pairs encodings for U+10000 to U+10FFFF
[\uD800-\uDBFF] [\uDC00-\uDFFF]
{ Character.isJavaIdentifierStart(Character.toCodePoint((char) _input.LA(-2), (char) _input.LA(-1))) }?
;

fragment
JavaLetterInGString
: JavaLetter { _input.LA(-1) != '$' }?
;

fragment
JavaLetterOrDigit
: [a-zA-Z0-9$_] // these are the "java letters or digits" below 0x7F
| // covers all characters above 0x7F which are not a surrogate
~[\u0000-\u007F\uD800-\uDBFF]
{ isJavaIdentifierPartAndNotIdentifierIgnorable(_input.LA(-1)) }?
| // covers UTF-16 surrogate pairs encodings for U+10000 to U+10FFFF
[\uD800-\uDBFF] [\uDC00-\uDFFF]
{ Character.isJavaIdentifierPart(Character.toCodePoint((char) _input.LA(-2), (char) _input.LA(-1))) }?
;

fragment
JavaLetterOrDigitInGString
: JavaLetterOrDigit { _input.LA(-1) != '$' }?
;

fragment
ShCommand
: ~[\r\n\uFFFF]*
;

//
// Additional symbols not defined in the lexical specification
//

```

```

AT : '@';
ELLIPSIS : '...';

//
// Whitespace, line escape and comments
//
WS : ([\t]+ | LineEscape+) -> skip
;

// Inside (...) and [...] but not {...}, ignore newlines.
NL : LineTerminator { this.ignoreTokenInsideParens(); }
;

// Multiple-line comments (including groovydoc comments)
ML_COMMENT
: /*' .*? */' { this.ignoreMultiLineCommentConditionally(); } -> type(NL)
;

// Single-line comments
SL_COMMENT
: /*' ~[\r\n\uFFFF]* { this.ignoreTokenInsideParens(); } -> type(NL)
;

// Script-header comments.
// The very first characters of the file may be "#!". If so, ignore the first line.
SH_COMMENT
: '#!' { require(errorIgnored || 0 == this.tokenIndex, "Shebang comment should appear at the first line", -2, true); }
ShCommand (LineTerminator '#!' ShCommand)* -> skip
;

// Unexpected characters will be handled by groovy parser later.
UNEXPECTED_CHAR
: . { require(errorIgnored, "Unexpected character: " + getText().replace("'", "\'") + "'", -1, false); }
;

```

Found in path(s):

* /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/GroovyLexer.g4

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```

/** Java 1.5 Recognizer
*
* Run 'java Main [-showtree] directory-full-of-java-files'
*
* [The -showtree option pops up a Swing frame that shows
* the AST constructed from the parser.]
*
* Run 'java Main <directory full of java files>'
*

```

- * Contributing authors:
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- * Steve Messick messick@redhills.com
- * John Pybus john@pybus.org
- *
- * Version 1.00 December 9, 1997 -- initial release
- * Version 1.01 December 10, 1997
- * fixed bug in octal def (0..7 not 0..8)
- * Version 1.10 August 1998 (parrt)
- * added tree construction
- * fixed definition of WS,comments for mac,pc,unix newlines
- * added unary plus
- * Version 1.11 (Nov 20, 1998)
- * Added "shutup" option to turn off last ambig warning.
- * Fixed inner class def to allow named class defs as statements
- * synchronized requires compound not simple statement
- * add [] after builtInType DOT class in primaryExpression
- * "const" is reserved but not valid..removed from modifiers
- * Version 1.12 (Feb 2, 1999)
- * Changed LITERAL_XXX to xxx in tree grammar.
- * Updated java.g to use tokens {...} now for 2.6.0 (new feature).
- *
- * Version 1.13 (Apr 23, 1999)
- * Didn't have (stat)? for else clause in tree parser.
- * Didn't gen ASTs for interface extends. Updated tree parser too.
- * Updated to 2.6.0.
- * Version 1.14 (Jun 20, 1999)
- * Allowed final/abstract on local classes.
- * Removed local interfaces from methods
- * Put instanceof precedence where it belongs...in relationalExpr
- * It also had expr not type as arg; fixed it.
- * Missing ! on SEMI in classBlock
- * fixed: (expr) + "string" was parsed incorrectly (+ as unary plus).
- * fixed: didn't like Object[].class in parser or tree parser
- * Version 1.15 (Jun 26, 1999)
- * Screwed up rule with instanceof in it. :(Fixed.
- * Tree parser didn't like (expr).something; fixed.
- * Allowed multiple inheritance in tree grammar. oops.
- * Version 1.16 (August 22, 1999)
- * Extending an interface built a wacky tree: had extra EXTENDS.
- * Tree grammar didn't allow multiple superinterfaces.

- * Tree grammar didn't allow empty var initializer: { }
- * Version 1.17 (October 12, 1999)
- * ESC lexer rule allowed 399 max not 377 max.
- * java.tree.g didn't handle the expression of synchronized statements.
- * Version 1.18 (August 12, 2001)
- * Terence updated to Java 2 Version 1.3 by observing/combining work of Allan Jacobs and Steve Messick. Handles 1.3 src. Summary:
 - * o primary didn't include boolean.class kind of thing
 - * o constructor calls parsed explicitly now:
 - * see explicitConstructorInvocation
 - * o add strictfp modifier
 - * o missing objBlock after new expression in tree grammar
 - * o merged local class definition alternatives, moved after declaration
 - * o fixed problem with ClassName.super.field
 - * o reordered some alternatives to make things more efficient
 - * o long and double constants were not differentiated from int/float
 - * o whitespace rule was inefficient: matched only one char
 - * o add an examples directory with some nasty 1.3 cases
 - * o made Main.java use buffered IO and a Reader for Unicode support
 - * o supports UNICODE?
 - * Using Unicode charVocabulay makes code file big, but only in the bitsets at the end. I need to make ANTLR generate unicode bitsets more efficiently.
- * Version 1.19 (April 25, 2002)
- * Terence added in nice fixes by John Pybus concerning floating constants and problems with super() calls. John did a nice reorg of the primary/postfix expression stuff to read better and makes f.g.super() parse properly (it was METHOD_CALL not a SUPER_CTOR_CALL). Also:
 - * o "finally" clause was a root...made it a child of "try"
 - * o Added stuff for asserts too for Java 1.4, but *commented out* as it is not backward compatible.
- * Version 1.20 (October 27, 2002)
- * Terence ended up reorging John Pybus' stuff to remove some nondeterminisms and some syntactic predicates. Note that the grammar is stricter now; e.g., this(...) must be the first statement.
 - * Ternary ?: operator wasn't working as array name:
 - * (isBig ? bigDigits : digits)[i];
 - * Checked parser/tree parser on source for Resin-2.0.5, jive-2.1.1, jdk 1.3.1, Lucene, antlr 2.7.2a4,

- * and the 110k-line jGuru server source.
- *
- * Version 1.21 (October 17, 2003)
- * Fixed lots of problems including:
 - * Ray Waldin: add typeDefinition to interfaceBlock in java.tree.g
 - * He found a problem/fix with floating point that start with 0
 - * Ray also fixed problem that (int.class) was not recognized.
 - * Thorsten van Ellen noticed that \n are allowed incorrectly in strings.
 - * TJP fixed CHAR_LITERAL analogously.
- *
- * Version 1.21.2 (March, 2003)
- * Changes by Matt Quail to support generics (as per JDK1.5/JSR14)
- * Notes:
 - * o We only allow the "extends" keyword and not the "implements" keyword, since that's what JSR14 seems to imply.
 - * o Thanks to Monty Zukowski for his help on the antlr-interest mail list.
 - * o Thanks to Alan Eliassen for testing the grammar over his Fink source base
- *
- * Version 1.22 (July, 2004)
- * Changes by Michael Studman to support Java 1.5 language extensions
- * Notes:
 - * o Added support for annotations types
 - * o Finished off Matt Quail's generics enhancements to support bound type arguments
 - * o Added support for new for statement syntax
 - * o Added support for static import syntax
 - * o Added support for enum types
 - * o Tested against JDK 1.5 source base and source base of jdigraph project
 - * o Thanks to Matt Quail for doing the hard part by doing most of the generics work
- *
- * Version 1.22.1 (July 28, 2004)
- * Bug/omission fixes for Java 1.5 language support
 - * o Fixed tree structure bug with classOrInterface - thanks to Pieter Vangorpto for spotting this
 - * o Fixed bug where incorrect handling of SR and BSR tokens would cause type parameters to be recognised as type arguments.
 - * o Enabled type parameters on constructors, annotations on enum constants and package definitions
 - * o Fixed problems when parsing if ((char.class.equals(c)) {} - solution by Matt Quail at Cenqua
- *
- * Version 1.22.2 (July 28, 2004)
- * Slight refactoring of Java 1.5 language support
 - * o Refactored for/"foreach" productions so that original literal "for" literal is still used but the for sub-clauses vary by token type
 - * o Fixed bug where type parameter was not included in generic constructor's branch of AST
- *
- * Version 1.22.3 (August 26, 2004)

- * Bug fixes as identified by Michael Stahl; clean up of tabs/spaces
- * and other refactorings
- * o Fixed typeParameters omission in identPrimary and newStatement
- * o Replaced GT reconciliation code with simple semantic predicate
- * o Adapted enum/assert keyword checking support from Michael Stahl's java15 grammar
- * o Refactored typeDefinition production and field productions to reduce duplication
- *
- * Version 1.22.4 (October 21, 2004)
- * Small bux fixes
- * o Added typeArguments to explicitConstructorInvocation, e.g. new <String>MyParameterised()
- * o Added typeArguments to postfixExpression productions for anonymous inner class super constructor invocation, e.g. new Outer().<String>super()
- * o Fixed bug in array declarations identified by Geoff Roy
- *
- * Version 1.22.4.j.1
- * Changes by Jeremy Rayner to support java2groovy tool
- * o I have taken java.g for Java1.5 from Michael Studman (1.22.4)
- * and have made some changes to enable use by java2groovy tool (Jan 2007)
- *
- * Based on an original grammar released in the PUBLIC DOMAIN
- */

Found in path(s):

* /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/codehaus/groovy/antlr/java/JavaRecognizer.java

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- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/codehaus/groovy/tools/javac/package.html
- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/groovy/security/package.html
- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/codehaus/groovy/classgen/asm/package.html
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- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/overview.html
- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/codehaus/groovy/runtime/wrappers/package.html
- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/codehaus/groovy/ast/expr/package.html
- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/codehaus/groovy/package.html
- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/codehaus/groovy/runtime/package.html
- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/codehaus/groovy/tools/package.html
- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/codehaus/groovy/runtime/metaclass/package.html
- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-

jar/groovy/grape/defaultGrapeConfig.xml
* /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/codehaus/groovy/tools/xml/package.html
* /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/groovy/lang/package.html
* /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/groovy/util/package.html
* /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/groovy/io/package.html
* /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/codehaus/groovy/runtime/typehandling/package.html
* /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/codehaus/groovy/control/package.html
* /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/codehaus/groovy/control/messages/package.html
* /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/codehaus/groovy/ast/stmt/package.html
* /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/codehaus/groovy/reflection/package.html
* /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/codehaus/groovy/antlr/treewalker/package.html
* /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/codehaus/groovy/control/io/package.html
* /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/codehaus/groovy/vmplugin/package.html
* /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/groovy/time/package.html
* /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/codehaus/groovy/classgen/package.html
* /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/overviewj.html
* /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/codehaus/groovy/syntax/package.html

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Found in path(s):

- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/codehaus/groovy/ast/expr/ArrayExpression.java
- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/groovy/lang/Tuple9.java
- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/codehaus/groovy/classgen/asm/BinaryLongExpressionHelper.java
- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/codehaus/groovy/ast/GroovyClassVisitor.java
- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/codehaus/groovy/transform/tailrec/ReturnAdderForClosures.groovy
- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/codehaus/groovy/transform/EqualsAndHashCodeASTTransformation.java
- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/codehaus/groovy/reflection/CachedMethod.java
- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/groovy/transform/CompilationUnitAware.java
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- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/codehaus/groovy/ast/tools/ClosureUtils.java
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- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/codehaus/groovy/runtime/callsite/PogoMetaClassGetPropertySite.java
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- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/codehaus/groovy/runtime/m12n/ExtensionModuleRegistry.java
- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/codehaus/groovy/transform/sc/transformers/VariableExpressionTransformer.java
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- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-

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jar/org/codehaus/groovy/runtime/m12n/StandardPropertiesModuleFactory.java
* /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
jar/org/codehaus/groovy/vmplugin/v5/Java5.java
* /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
jar/org/codehaus/groovy/util/LongArrayIterator.java
* /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
jar/org/codehaus/groovy/transform/stc/TraitTypeCheckingExtension.java
* /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
jar/org/codehaus/groovy/vmplugin/v7/TypeTransformers.java
* /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
jar/org/codehaus/groovy/antlr/treewalker/CompositeVisitor.java
* /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
jar/org/codehaus/groovy/runtime/wrappers/GroovyObjectWrapper.java
* /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
jar/org/codehaus/groovy/control/ASTTransformationsContext.java
* /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
jar/org/codehaus/groovy/control/customizers/builder/InlinedASTCustomizerFactory.java
* /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
jar/org/codehaus/groovy/ast/tools/BeanUtils.java
* /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
jar/org/codehaus/groovy/tools/javac/RawJavaFileObject.java
* /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
jar/org/codehaus/groovy/classgen/asm/BytecodeDumper.java
* /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
jar/groovy/beans/PropertyReader.java

- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/groovy/transform/NamedParams.java
- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/codehaus/groovy/runtime/memoize/LRUProtectionStorage.java
- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/groovy/lang/groovydoc/GroovydocTag.java
- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/groovy/xml/QName.java
- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/codehaus/groovy/antlr/treewalker/PreOrderTraversal.java
- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/groovy/transform/stc/ClosureSignatureConflictResolver.java
- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/codehaus/groovy/classgen/asm/BytecodeHelper.java
- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/codehaus/groovy/transform/StaticTypesTransformation.java
- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/groovy/lang/MissingClassException.java
- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/codehaus/groovy/reflection/AccessPermissionChecker.java
- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/codehaus/groovy/transform/tailrec/AstHelper.groovy
- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/codehaus/groovy/transform/tailrec/HasRecursiveCalls.groovy
- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/codehaus/groovy/ast/InterfaceHelperClassNode.java
- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/codehaus/groovy/runtime/callsite/DummyCallSite.java
- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/codehaus/groovy/util/ReferenceType.java
- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/groovy/transform/EqualsAndHashCode.java
- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/codehaus/groovy/transform/ConditionalInterruptibleASTTransformation.groovy
- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/codehaus/groovy/transform/ASTTransformationVisitor.java
- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/groovy/lang/Tuple1.java
- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/codehaus/groovy/ast/expr/MapEntryExpression.java
- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/groovy/transform/stc/FirstParam.java
- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/groovy/lang/GroovyRuntimeException.java
- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/groovy/transform/ToString.java
- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/codehaus/groovy/control/Phases.java
- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/codehaus/groovy/runtime/typehandling/BigDecimalMath.java
- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-

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 * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
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 * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
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 * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
 jar/org/codehaus/groovy/util/ArrayIterator.java
 * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
 jar/org/apache/groovy/plugin/GroovyRunnerRegistry.java
 * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
 jar/groovy/lang/MetaBeanProperty.java
 * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
 jar/org/apache/groovy/lang/annotation/Incubating.java
 * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/groovy/lang/SpreadMap.java
 * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
 jar/org/codehaus/groovy/runtime/memoize/ConcurrentSoftCache.java
 * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
 jar/org/codehaus/groovy/ast/stmt/Statement.java
 * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/groovy/util/CharsetToolkit.java
 * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/groovy/util/OrderBy.java
 * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
 jar/org/codehaus/groovy/transform/TimedInterruptibleASTTransformation.groovy
 * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
 jar/org/codehaus/groovy/transform/ASTTestTransformation.groovy
 * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
 jar/org/codehaus/groovy/util/ComplexKeyHashMap.java
 * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
 jar/groovy/lang/StringWriterIOException.java
 * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
 jar/groovy/lang/groovydoc/GroovydocHolder.java
 * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
 jar/org/codehaus/groovy/ast/expr/MethodPointerExpression.java
 * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
 jar/org/codehaus/groovy/reflection/stdclasses/ByteCachedClass.java
 * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
 jar/org/codehaus/groovy/transform/sc/TemporaryVariableExpression.java
 * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
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 * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
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 * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
 jar/groovy/lang/MetaArrayLengthProperty.java
 * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
 jar/org/codehaus/groovy/transform/stc/ExtensionMethodNode.java
 * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/groovy/lang/MetaMethod.java
 * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
 jar/org/codehaus/groovy/control/customizers/builder/CompilerCustomizationBuilder.groovy
 * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-

jar/org/codehaus/groovy/vmplugin/v7/IndyMath.java
 * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
 jar/groovy/transform/options/ImmutablePropertyHandler.java
 * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
 jar/groovy/lang/MapWithDefault.java
 * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
 jar/org/codehaus/groovy/ast/EnumConstantClassNode.java
 * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
 jar/org/codehaus/groovy/ast/stmt/CaseStatement.java
 * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
 jar/org/codehaus/groovy/classgen/InnerClassVisitorHelper.java
 * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
 jar/org/codehaus/groovy/tools/gse/StringSetMap.java
 * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
 jar/groovy/transform/AutoImplement.java
 * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/groovy/lang/Range.java
 * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
 jar/org/codehaus/groovy/transform/tailrec/VariableExpressionTransformer.groovy
 * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
 jar/groovy/transform/KnownImmutable.java
 * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
 jar/org/codehaus/groovy/vmplugin/v6/Java6.java
 * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
 jar/org/codehaus/groovy/runtime/DefaultGroovyStaticMethods.java
 * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
 jar/org/codehaus/groovy/ast/expr/BitwiseNegationExpression.java
 * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
 jar/org/apache/groovy/util/SystemUtil.java
 * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
 jar/org/codehaus/groovy/ast/expr/ConstructorCallExpression.java
 * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/groovy/lang/GString.java
 * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
 jar/org/codehaus/groovy/runtime/EncodingGroovyMethodsSupport.java
 * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
 jar/org/codehaus/groovy/transform/trait/SuperCallTraitTransformer.java
 * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
 jar/org/codehaus/groovy/util/ListBufferedIterator.java
 * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
 jar/org/codehaus/groovy/tools/ErrorReporter.java
 * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
 jar/org/codehaus/groovy/classgen/ExtendedVerifier.java
 * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
 jar/org/codehaus/groovy/transform/sc/ListOfExpressionsExpression.java
 * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/groovy/lang/Tuple2.java
 * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
 jar/groovy/transform/TimedInterrupt.groovy
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 * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-

jar/org/codehaus/groovy/runtime/metaclass/TemporaryMethodKey.java
* /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/groovy/lang/MissingPropertyException.java
* /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/codehaus/groovy/classgen/asm/sc/StaticTypesCallSiteWriter.java
* /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/groovy/io/PlatformLineWriter.java
* /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/groovy/lang/ModelProperty.java
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* /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/groovy/lang/IllegalPropertyAccessException.java
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- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/groovy/transform/AutoClone.java
- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/codehaus/groovy/runtime/metaclass/MixinInstanceMetaProperty.java
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- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/groovy/lang/TrampolineClosure.java
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- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/codehaus/groovy/control/AnnotationConstantsVisitor.java
- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/codehaus/groovy/ast/expr/FieldExpression.java
- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/codehaus/groovy/antlr/LineColumn.java
- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/codehaus/groovy/transform/sc/transformers/StaticCompilationTransformer.java
- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/codehaus/groovy/runtime/BytecodeInterface8.java
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- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/codehaus/groovy/ast/expr/AnnotationConstantExpression.java
- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/groovy/lang/Singleton.java
- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/apache/groovy/parser/antlr4/AstBuilder.java
- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-

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 * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
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 * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
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 * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
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 * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
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 * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
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 * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
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 * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
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 * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
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 * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
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 * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
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 * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/groovy/cli/Unparsed.java
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* /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
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* /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
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 * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
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 * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
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 * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
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 * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
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 * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
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 * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
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- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/codehaus/groovy/syntax/Numbers.java
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* /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/codehaus/groovy/runtime/MethodClosure.java
* /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/codehaus/groovy/classgen/asm/sc/StaticTypesTypeChooser.java
* /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/codehaus/groovy/util/AbstractConcurrentMapBase.java
* /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/groovy/lang/ListWithDefault.java
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* /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/codehaus/groovy/ast/Variable.java
* /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/codehaus/groovy/runtime/HandleMetaClass.java
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* /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/codehaus/groovy/util/DoubleArrayIterable.java
* /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/codehaus/groovy/runtime/callsite/CallSiteArray.java
* /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/codehaus/groovy/vmplugin/v7/IndyInterface.java
* /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/groovy/transform/stc/SecondParam.java
* /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/codehaus/groovy/ast/ModuleNode.java
* /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/groovy/lang/Sequence.java
* /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/codehaus/groovy/ast/tools/GenericsUtils.java
* /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/groovy/util/Proxy.java
* /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/codehaus/groovy/antlr/AntlrParserPluginFactory.java
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 * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
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 * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
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 * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
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 * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
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 jar/org/codehaus/groovy/antlr/GroovySourceAST.java
 * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/groovy/lang/ObjectRange.java
 * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
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 * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
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 * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
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 * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
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 * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
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 * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
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 * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
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 * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
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 * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
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 * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
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 * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
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 * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
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 * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
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- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/codehaus/groovy/runtime/memoize/NullProtectionStorage.java
- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/codehaus/groovy/runtime/metaclass/NewStaticMetaMethod.java
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- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/codehaus/groovy/classgen/EnumCompletionVisitor.java
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* /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
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* /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
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jar/org/codehaus/groovy/runtime/metaclass/ReflectorLoader.java
* /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
jar/org/apache/groovy/parser/antlr4/SemanticPredicates.java
* /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
jar/org/codehaus/groovy/antlr/treewalker/SourceCodeTraversal.java
* /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
jar/org/codehaus/groovy/control/CompilePhase.java
* /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
jar/org/codehaus/groovy/reflection/stdclasses/ObjectCachedClass.java
* /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
jar/groovy/lang/GroovyCallable.java
* /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
jar/org/codehaus/groovy/control/StaticImportVisitor.java
* /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
jar/groovy/transform/builder/Builder.java
* /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
jar/org/codehaus/groovy/transform/CompileDynamicProcessor.java

- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/codehaus/groovy/antlr/java/Groovifier.java
- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/codehaus/groovy/control/customizers/SecureASTCustomizer.java
- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/codehaus/groovy/runtime/RegexSupport.java
- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/codehaus/groovy/tools/GrapeUtil.java
- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/groovy/ui/GroovyMain.java
- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/codehaus/groovy/transform/GroovyASTTransformation.java
- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/codehaus/groovy/classgen/asm/BinaryDoubleExpressionHelper.java
- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/codehaus/groovy/control/SourceExtensionHandler.java
- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/groovy/lang/Buildable.java
- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/codehaus/groovy/runtime/dgmimpl/arrays/ShortArrayPutAtMetaMethod.java
- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/groovy/transform/stc/MapEntryOrKeyValue.java
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- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/codehaus/groovy/syntax/TokenException.java
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- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/codehaus/groovy/ast/expr/AttributeExpression.java
- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/groovy/transform/options/DefaultPropertyHandler.java
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* /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/codehaus/groovy/antlr/treewalker/TraversalHelper.java
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* /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/codehaus/groovy/runtime/callsite/GetEffectivePogoPropertySite.java
* /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/groovy/beans/DefaultPropertyWriter.java
* /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/codehaus/groovy/syntax/Types.java
* /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/groovy/transform/builder/InitializerStrategy.java
* /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-

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 * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
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 * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
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 * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
 jar/org/codehaus/groovy/ast/MethodInvocationTrap.java
 * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
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 * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
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 jar/groovy/transform/ImmutableOptions.java
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 * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
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 * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
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 * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
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- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/codehaus/groovy/reflection/stdclasses/BigDecimalCachedClass.java
- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/codehaus/groovy/antlr/treewalker/FlatNodeListTraversal.java
- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/codehaus/groovy/vmplugin/v8/TypeTransformers.java
- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/codehaus/groovy/ast/MethodCallTransformation.java
- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/codehaus/groovy/runtime/dgmimpl/arrays/FloatArrayPutAtMetaMethod.java
- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/codehaus/groovy/runtime/metaclass/MethodSelectionException.java
- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/codehaus/groovy/runtime/ResourceGroovyMethods.java
- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/codehaus/groovy/transform/sc/transformers/CompareToNullExpression.java
- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/codehaus/groovy/transform/sc/StaticCompileTransformation.java
- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/codehaus/groovy/runtime/metaclass/MissingMethodExceptionNoStack.java
- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/codehaus/groovy/runtime/metaclass/MixedInMetaClass.java
- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/apache/groovy/util/concurrent/LazyInitializable.java
- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/codehaus/groovy/control/ConfigurationException.java
- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/codehaus/groovy/ast/builder/AstSpecificationCompiler.groovy
- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/codehaus/groovy/transform/trait/NaryOperationRewriter.java
- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/apache/groovy/plugin/DefaultRunners.java
- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/codehaus/groovy/runtime/dgmimpl/arrays/DoubleArrayGetAtMetaMethod.java
- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/apache/groovy/parser/antlr4/ModifierManager.java
- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/groovy/transform/VisibilityOptions.java
- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/groovy/lang/Tuple15.java
- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/codehaus/groovy/runtime/wrappers/ByteWrapper.java
- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-

jar/org/codehaus/groovy/syntax/TokenMismatchException.java
* /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
jar/org/codehaus/groovy/ast/stmt/BlockStatement.java
* /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/groovy/util/Eval.java
* /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
jar/org/codehaus/groovy/transform/sc/transformers/BinaryExpressionTransformer.java
* /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
jar/org/apache/groovy/parser/antlr4/internal/atnmanager/ParserAtnManager.java
* /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
jar/org/codehaus/groovy/classgen/asm/sc/StaticTypesWriterControllerFactoryImpl.java
* /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
jar/org/codehaus/groovy/runtime/dgmimpl/arrays/ShortArrayGetAtMetaMethod.java
* /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/groovy/lang/Reference.java
* /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
jar/org/codehaus/groovy/runtime/InvokerInvocationException.java
* /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
jar/org/codehaus/groovy/util/SingleKeyHashMap.java
* /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
jar/org/codehaus/groovy/runtime/InvokerHelper.java
* /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
jar/org/codehaus/groovy/runtime/DateGroovyMethods.java
* /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
jar/org/codehaus/groovy/transform/stc/StaticTypesMarker.java
* /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/groovy/inspect/Inspector.java
* /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
jar/groovy/io/EncodingAwareBufferedWriter.java
* /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/groovy/time/TimeDuration.java
* /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
jar/groovy/transform/ImmutableBase.java
* /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
jar/org/codehaus/groovy/ast/ClassHelper.java
* /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
jar/org/codehaus/groovy/ast/decompiled/FormalParameterParser.java
* /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
jar/org/codehaus/groovy/reflection/GroovyClassValue.java
* /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
jar/org/codehaus/groovy/classgen/asm/BinaryExpressionWriter.java
* /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
jar/org/codehaus/groovy/runtime/memoize/UnlimitedConcurrentCache.java
* /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
jar/org/codehaus/groovy/runtime/metaclass/DefaultMetaClassInfo.java
* /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
jar/org/codehaus/groovy/runtime/metaclass/MixinInstanceMetaMethod.java
* /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
jar/org/codehaus/groovy/transform/trait/TraitReceiverTransformer.java
* /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
jar/org/codehaus/groovy/runtime/dgmimpl/arrays/CharacterArrayPutAtMetaMethod.java
* /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/groovy/util/ObservableSet.java

- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/codehaus/groovy/runtime/callsite/PogoInterceptableSite.java
- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/groovy/util/ConfigObject.java
- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/codehaus/groovy/runtime/wrappers/PojoWrapper.java
- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/codehaus/groovy/transform/stc/Receiver.java
- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/codehaus/groovy/runtime/callsite/AbstractCallSite.java
- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/codehaus/groovy/runtime/callsite/GetEffectivePojoFieldSite.java
- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/codehaus/groovy/ast/stmt/EmptyStatement.java
- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/codehaus/groovy/runtime/metaclass/MissingMethodExecutionFailed.java
- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/codehaus/groovy/transform/stc/SignatureCodec.java
- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/codehaus/groovy/runtime/IOGroovyMethods.java
- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/groovy/util/ClosureComparator.java
- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/groovy/transform/AutoFinal.java
- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/codehaus/groovy/reflection/stdclasses/BooleanCachedClass.java
- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/codehaus/groovy/runtime/DefaultCachedMethodKey.java
- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/codehaus/groovy/transform/sc/transformers/ClosureExpressionTransformer.java
- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/codehaus/groovy/control/customizers/ImportCustomizer.java
- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/codehaus/groovy/transform/ErrorCollecting.java
- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/codehaus/groovy/transform/trait/TraitComposer.java
- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/codehaus/groovy/transform/SortableASTTransformation.java
- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/codehaus/groovy/runtime/DefaultGroovyMethodsSupport.java
- * /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/codehaus/groovy/ast/expr/PropertyExpression.java

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* Based on an original grammar released in the PUBLIC DOMAIN

Found in path(s):

* /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/codehaus/groovy/antlr/groovy.g

* /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/org/codehaus/groovy/antlr/java/java.g

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/** JSR-241 Groovy Recognizer.

*

* Run 'java Main [-showtree] directory-full-of-groovy-files'

*

* [The -showtree option pops up a Swing frame that shows

* the AST constructed from the parser.]

*

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*

* Version 1.00 December 9, 1997 -- initial release

* Version 1.01 December 10, 1997

* fixed bug in octal def (0..7 not 0..8)

* Version 1.10 August 1998 (parrt)

* added tree construction

* fixed definition of WS,comments for mac,pc,unix newlines

* added unary plus

* Version 1.11 (Nov 20, 1998)

* Added "shutup" option to turn off last ambig warning.

* Fixed inner class def to allow named class defs as statements

* synchronized requires compound not simple statement

* add [] after builtInType DOT class in primaryExpression

* "const" is reserved but not valid..removed from modifiers

* Version 1.12 (Feb 2, 1999)

* Changed LITERAL_XXX to xxx in tree grammar.

- * Updated java.g to use tokens { ... } now for 2.6.0 (new feature).
- *
- * Version 1.13 (Apr 23, 1999)
- * Didn't have (stat)? for else clause in tree parser.
- * Didn't gen ASTs for interface extends. Updated tree parser too.
- * Updated to 2.6.0.
- * Version 1.14 (Jun 20, 1999)
- * Allowed final/abstract on local classes.
- * Removed local interfaces from methods
- * Put instanceof precedence where it belongs...in relationalExpr
- * It also had expr not type as arg; fixed it.
- * Missing ! on SEMI in classBlock
- * fixed: (expr) + "string" was parsed incorrectly (+ as unary plus).
- * fixed: didn't like Object[],.class in parser or tree parser
- * Version 1.15 (Jun 26, 1999)
- * Screwed up rule with instanceof in it. :(Fixed.
- * Tree parser didn't like (expr).something; fixed.
- * Allowed multiple inheritance in tree grammar. oops.
- * Version 1.16 (August 22, 1999)
- * Extending an interface built a wacky tree: had extra EXTENDS.
- * Tree grammar didn't allow multiple superinterfaces.
- * Tree grammar didn't allow empty var initializer: { }
- * Version 1.17 (October 12, 1999)
- * ESC lexer rule allowed 399 max not 377 max.
- * java.tree.g didn't handle the expression of synchronized statements.
- *
- * Version 1.18 (August 12, 2001)
- * Terence updated to Java 2 Version 1.3 by
- * observing/combining work of Allan Jacobs and Steve
- * Messick. Handles 1.3 src. Summary:
- * o primary didn't include boolean.class kind of thing
- * o constructor calls parsed explicitly now:
- * see explicitConstructorInvocation
- * o add strictfp modifier
- * o missing objBlock after new expression in tree grammar
- * o merged local class definition alternatives, moved after declaration
- * o fixed problem with ClassName.super.field
- * o reordered some alternatives to make things more efficient
- * o long and double constants were not differentiated from int/float
- * o whitespace rule was inefficient: matched only one char
- * o add an examples directory with some nasty 1.3 cases
- * o made Main.java use buffered IO and a Reader for Unicode support
- * o supports UNICODE?
- * Using Unicode charVocabulary makes code file big, but only
- * in the bitsets at the end. I need to make ANTLR generate
- * unicode bitsets more efficiently.
- *
- * Version 1.19 (April 25, 2002)
- * Terence added in nice fixes by John Pybus concerning floating

- * constants and problems with super() calls. John did a nice
- * reorg of the primary/postfix expression stuff to read better
- * and makes f.g.super() parse properly (it was METHOD_CALL not
- * a SUPER_CTOR_CALL). Also:
- *
 - o "finally" clause was a root...made it a child of "try"
 - o Added stuff for asserts too for Java 1.4, but *commented out*
 - o as it is not backward compatible.
- *
 - o Version 1.20 (October 27, 2002)
- *
 - o Terence ended up reorging John Pybus' stuff to
 - o remove some nondeterminisms and some syntactic predicates.
 - o Note that the grammar is stricter now; e.g., this(...) must
 - o be the first statement.
 - o Trinary ?: operator wasn't working as array name:
 - o (isBig ? bigDigits : digits)[i];
 - o Checked parser/tree parser on source for
 - o Resin-2.0.5, jive-2.1.1, jdk 1.3.1, Lucene, antlr 2.7.2a4,
 - o and the 110k-line jGuru server source.
- *
 - o Version 1.21 (October 17, 2003)
 - o Fixed lots of problems including:
 - o Ray Waldin: add typeDefinition to interfaceBlock in java.tree.g
 - o He found a problem/fix with floating point that start with 0
 - o Ray also fixed problem that (int.class) was not recognized.
 - o Thorsten van Ellen noticed that \n are allowed incorrectly in strings.
 - o TJP fixed CHAR_LITERAL analogously.
- *
 - o Version 1.21.2 (March, 2003)
 - o Changes by Matt Quail to support generics (as per JDK1.5/JSR14)
 - o Notes:
 - o We only allow the "extends" keyword and not the "implements"
 - o keyword, since that's what JSR14 seems to imply.
 - o Thanks to Monty Zukowski for his help on the antlr-interest
 - o mail list.
 - o Thanks to Alan Eliassen for testing the grammar over his
 - o Fink source base
- *
 - o Version 1.22 (July, 2004)
 - o Changes by Michael Studman to support Java 1.5 language extensions
 - o Notes:
 - o Added support for annotations types
 - o Finished off Matt Quail's generics enhancements to support bound type arguments
 - o Added support for new for statement syntax
 - o Added support for static import syntax

- * o Added support for enum types
- * o Tested against JDK 1.5 source base and source base of jdigraph project
- * o Thanks to Matt Quail for doing the hard part by doing most of the generics work
- *
- * Version 1.22.1 (July 28, 2004)
- * Bug/omission fixes for Java 1.5 language support
- * o Fixed tree structure bug with classOrInterface - thanks to Pieter Vangorpto for spotting this
- * o Fixed bug where incorrect handling of SR and BSR tokens would cause type parameters to be recognised as type arguments.
- * o Enabled type parameters on constructors, annotations on enum constants and package definitions
- * o Fixed problems when parsing `if ((char.class.equals(c))) {}` - solution by Matt Quail at Cenqua
- *
- * Version 1.22.2 (July 28, 2004)
- * Slight refactoring of Java 1.5 language support
- * o Refactored `for`/`foreach` productions so that original literal `"for"` literal is still used but the `for` sub-clauses vary by token type
- * o Fixed bug where type parameter was not included in generic constructor's branch of AST
- *
- * Version 1.22.3 (August 26, 2004)
- * Bug fixes as identified by Michael Stahl; clean up of tabs/spaces and other refactorings
- * o Fixed `typeParameters` omission in `identPrimary` and `newStatement`
- * o Replaced GT reconciliation code with simple semantic predicate
- * o Adapted `enum/assert` keyword checking support from Michael Stahl's `java15` grammar
- * o Refactored `typeDefinition` production and field productions to reduce duplication
- *
- * Version 1.22.4 (October 21, 2004)
- * Small bux fixes
- * o Added `typeArguments` to `explicitConstructorInvocation`, e.g. `new <String>MyParameterised()`
- * o Added `typeArguments` to `postfixExpression` productions for anonymous inner class super constructor invocation, e.g. `new Outer().<String>super()`
- * o Fixed bug in array declarations identified by Geoff Roy
- *
- * Version 1.22.4.g.1
- * o I have taken `java.g` for Java 1.5 from Michael Studman (1.22.4) and have applied the `groovy.diff` from `java.g` (1.22) by John Rose back onto the new root (1.22.4) - Jeremy Rayner (Jan 2005)
- *
- * Version 1.22.4.g.2
- * o `mkempf, rkleeb`, Dec 2007
- * o fixed various rules so that they call the correct `Create Method` to make sure that the line information are correct
- *
- * Based on an original grammar released in the PUBLIC DOMAIN
- */

Found in path(s):

```
* /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-  
jar/org/codehaus/groovy/antlr/parser/GroovyRecognizer.java
```

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```
/*
```

```
* This file is adapted from the Antlr4 Java grammar which has the following license
```

```
*
```

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* Copyright (c) 2013 Terence Parr, Sam Harwell
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```

```
*/
```

```
/**
```

```
* The Groovy grammar is based on the official grammar for Java:
```

```
* https://github.com/antlr/grammars-v4/blob/master/java/Java.g4
```

```
*/
```

```
parser grammar GroovyParser;
```

```
options {
```

```
    tokenVocab = GroovyLexer;
```

```
    contextSuperClass = GroovyParserRuleContext;
```

```
    superClass = AbstractParser;
```

```
}
```

```
@header {
```

```
    import java.util.Map;
```

```

import org.codehaus.groovy.ast.NodeMetaDataHandler;
}

@members {

public static class GroovyParserRuleContext extends ParserRuleContext implements NodeMetaDataHandler {
    private Map metaDataMap = null;

    public GroovyParserRuleContext() {}

    public GroovyParserRuleContext(ParserRuleContext parent, int invokingStateNumber) {
        super(parent, invokingStateNumber);
    }

    @Override
    public Map<?, ?> getMetaDataMap() {
        return this.metaDataMap;
    }

    @Override
    public void setMetaDataMap(Map<?, ?> metaDataMap) {
        this.metaDataMap = metaDataMap;
    }
}

@Override
public int getSyntaxErrorSource() {
    return GroovySyntaxError.PARSER;
}

@Override
public int getErrorLine() {
    Token token = _input.LT(-1);

    if (null == token) {
        return -1;
    }

    return token.getLine();
}

@Override
public int getErrorColumn() {
    Token token = _input.LT(-1);

    if (null == token) {
        return -1;
    }
}

```



```

        return token.getCharPositionInLine() + 1 + token.getText().length();
    }
}

// starting point for parsing a groovy file
compilationUnit
: nls (packageDeclaration sep?)? scriptStatements? EOF
;

scriptStatements
: scriptStatement (sep scriptStatement)* sep?
;

scriptStatement
: importDeclaration // Import statement. Can be used in any scope. Has "import x as y" also.
| typeDeclaration
// validate the method in the AstBuilder#visitMethodDeclaration, e.g. method without method body is not allowed
| { !SemanticPredicates.isInvalidMethodDeclaration(_input) }?
methodDeclaration[3, 9]
| statement
;

packageDeclaration
: annotationsOpt PACKAGE qualifiedName
;

importDeclaration
: annotationsOpt IMPORT STATIC? qualifiedName (DOT MUL | AS alias=identifier)?
;

typeDeclaration
: classOrInterfaceModifiersOpt classDeclaration
;

modifier
: classOrInterfaceModifier
| m=( NATIVE
| SYNCHRONIZED
| TRANSIENT
| VOLATILE
| DEF
| VAR
)
;

modifiersOpt

```

```

: (modifiers nls)?
;

modifiers
: modifier (nls modifier)*
;

classOrInterfaceModifiersOpt
: (classOrInterfaceModifiers
  NL* /* Use `NL*` here for better performance, so DON'T replace it with `nls` */
)?
;

classOrInterfaceModifiers
: classOrInterfaceModifier (nls classOrInterfaceModifier)*
;

classOrInterfaceModifier
: annotation // class or interface
| m=( PUBLIC // class or interface
  | PROTECTED // class or interface
  | PRIVATE // class or interface
  | STATIC // class or interface
  | ABSTRACT // class or interface
  | FINAL // class only -- does not apply to interfaces
  | STRICTFP // class or interface
  | DEFAULT // interface only -- does not apply to classes
)
;

variableModifier
: annotation
| m=( FINAL
  | DEF
  | VAR
  // Groovy supports declaring local variables as instance/class fields,
  // e.g. import groovy.transform.*; @Field static List awe = [1, 2, 3]
  // e.g. import groovy.transform.*; def a = { @Field public List awe = [1, 2, 3] }
  // Notice: Groovy 2.4.7 just allows to declare local variables with the following modifiers when using
  annotations(e.g. @Field)
  // TODO check whether the following modifiers accompany annotations or not. Because the legacy codes(e.g.
  benchmark/bench/heapsort.groovy) allow to declare the special instance/class fields without annotations, we leave it
  as it is for the time being
  | PUBLIC
  | PROTECTED
  | PRIVATE
  | STATIC
  | ABSTRACT

```

```

    | STRICTFP
    )
;

variableModifiersOpt
: (variableModifiers nls)?
;

variableModifiers
: variableModifier (nls variableModifier)*
;

typeParameters
: LT nls typeParameter (COMMA nls typeParameter)* nls GT
;

typeParameter
: className (EXTENDS nls typeBound)?
;

typeBound
: type (BITAND nls type)*
;

typeList
: type (COMMA nls type)*
;

/**
 * t 0: class; 1: interface; 2: enum; 3: annotation; 4: trait
 */
classDeclaration
locals[ int t ]
: ( CLASS { $t = 0; }
  | INTERFACE { $t = 1; }
  | ENUM { $t = 2; }
  | AT INTERFACE { $t = 3; }
  | TRAIT { $t = 4; }
  )
  identifier
  (nls typeParameters)?
  (nls EXTENDS nls scs=typeList)?
  (nls IMPLEMENTS nls is=typeList)?
  nls classBody[$t]
;

// t see the comment of classDeclaration

```

```

classBody[int t]
: LBRACE nls
  (
    /* Only enum can have enum constants */
    { 2 == $t }?
    enumConstants (nls COMMA)? sep?
    |
  )
  (classBodyDeclaration[$t] (sep classBodyDeclaration[$t])*)? sep? RBRACE
;

```

```

enumConstants
: enumConstant (nls COMMA nls enumConstant)*
;

```

```

enumConstant
: annotationsOpt identifier arguments? anonymousInnerClassDeclaration[1]?
;

```

```

classBodyDeclaration[int t]
: (STATIC nls)? block
| memberDeclaration[$t]
;

```

```

memberDeclaration[int t]
: methodDeclaration[0, $t]
| fieldDeclaration
| modifiersOpt classDeclaration
;

```

```

/**
 * t 0: *class member* all kinds of method declaration AND constructor declaration,
 * 1: normal method declaration, 2: abstract method declaration
 * 3: normal method declaration OR abstract method declaration
 * ct 9: script, other see the comment of classDeclaration
 */

```

```

methodDeclaration[int t, int ct]
: modifiersOpt typeParameters? (returnType[$ct] nls)?
  methodName formalParameters
  (
    DEFAULT nls elementValue
    |
    (nls THROWS nls qualifiedClassNameList)?
    (nls methodBody)?
  )?
;

```

```

methodName

```

```

: identifier
| stringLiteral
;

returnType[int ct]
:
  standardType
| VOID
;

fieldDeclaration
: variableDeclaration[1]
;

variableDeclarators
: variableDeclarator (COMMA nls variableDeclarator)*
;

variableDeclarator
: variableDeclaratorId (nls ASSIGN nls variableInitializer)?
;

variableDeclaratorId
: identifier
;

variableInitializer
: enhancedStatementExpression
;

variableInitializers
: variableInitializer (nls COMMA nls variableInitializer)* nls COMMA?
;

emptyDims
: (annotationsOpt LBRACK RBRACK)+
;

emptyDimsOpt
: emptyDims?
;

standardType
options { baseContext = type; }
: annotationsOpt
(
  primitiveType
|

```

```

        standardClassOrInterfaceType
    )
    emptyDimsOpt
;

type
: annotationsOpt
(
    (
        primitiveType
    |
        // !!! Error Alternative !!!
        VOID
    )
|
    generalClassOrInterfaceType
)
emptyDimsOpt
;

classOrInterfaceType
: ( qualifiedClassName
    | qualifiedStandardClassName
) typeArguments?
;

generalClassOrInterfaceType
options { baseContext = classOrInterfaceType; }
: qualifiedClassName typeArguments?
;

standardClassOrInterfaceType
options { baseContext = classOrInterfaceType; }
: qualifiedStandardClassName typeArguments?
;

primitiveType
: BuiltInPrimitiveType
;

typeArguments
: LT nls typeArgument (COMMA nls typeArgument)* nls GT
;

typeArgument
: type
| annotationsOpt QUESTION ((EXTENDS | SUPER) nls type)?
;

```

```

annotatedQualifiedClassName
: annotationsOpt qualifiedClassName
;

qualifiedClassNameList
: annotatedQualifiedClassName (COMMA nls annotatedQualifiedClassName)*
;

formalParameters
: LPAREN formalParameterList? rparen
;

formalParameterList
: (formalParameter | thisFormalParameter) (COMMA nls formalParameter)*
;

thisFormalParameter
: type THIS
;

formalParameter
: variableModifiersOpt type? ELLIPSIS? variableDeclaratorId (nls ASSIGN nls expression)?
;

methodBody
: block
;

qualifiedName
: qualifiedNameElement (DOT qualifiedNameElement)*
;

/**
 * Java doesn't have the keywords 'as', 'in', 'def', 'trait' so we make some allowances
 * for them in package names for better integration with existing Java packages
 */
qualifiedNameElement
: identifier
| DEF
| IN
| AS
| TRAIT
;

qualifiedNameElements
: (qualifiedNameElement DOT)*
;

```

```

qualifiedClassName
: qualifiedNameElements identifier
;

qualifiedStandardClassName
: qualifiedNameElements className (DOT className)*
;

literal
: IntegerLiteral                #integerLiteralAlt
| FloatingPointLiteral          #floatingPointLiteralAlt
| stringLiteral                 #stringLiteralAlt
| BooleanLiteral                #booleanLiteralAlt
| NullLiteral                   #nullLiteralAlt
;

// GSTRING

gstring
: GStringBegin gstringValue (GStringPart gstringValue)* GStringEnd
;

gstringValue
: gstringPath
| closure
;

gstringPath
: identifier GStringPathPart*
;

// LAMBDA EXPRESSION
lambdaExpression
options { baseContext = standardLambdaExpression; }
: lambdaParameters nls ARROW nls lambdaBody
;

// JAVA STANDARD LAMBDA EXPRESSION
standardLambdaExpression
: standardLambdaParameters nls ARROW nls lambdaBody
;

lambdaParameters
options { baseContext = standardLambdaParameters; }
: formalParameters

```



```

// { a -> a * 2 } can be parsed as a lambda expression in a block, but we expect a closure.
// So it is better to put parameters in the parentheses and the following single parameter without parentheses is
limited
// | variableDeclaratorId
;

standardLambdaParameters
: formalParameters
| variableDeclaratorId
;

lambdaBody
: block
| statementExpression
;

// CLOSURE
closure
: LBACE (nls (formalParameterList nls)? ARROW)? sep? blockStatementsOpt RBACE
;

// GROOVY-8991: Difference in behaviour with closure and lambda
closureOrLambdaExpression
: closure
| lambdaExpression
;

blockStatementsOpt
: blockStatements?
;

blockStatements
: blockStatement (sep blockStatement)* sep?
;

// ANNOTATIONS

annotationsOpt
: (annotation (nls annotation)* nls)?
;

annotation
: AT annotationName (nls LPAREN elementValues? rparen)?
;

elementValues
: elementValuePairs
| elementValue

```

```

;

annotationName : qualifiedClassName ;

elementValuePairs
  : elementValuePair (COMMA elementValuePair)*
  ;

elementValuePair
  : elementValuePairName nls ASSIGN nls elementValue
  ;

elementValuePairName
  : identifier
  | keywords
  ;

// TODO verify the potential performance issue because rule expression contains sub-rule
assignments(https://github.com/antlr/grammars-v4/issues/215)
elementValue
  : elementValueArrayInitializer
  | annotation
  | expression
  ;

elementValueArrayInitializer
  : LBRACK (elementValue (COMMA elementValue)* COMMA?)? RBRACK
  ;

// STATEMENTS / BLOCKS

block
  : LBRACE sep? blockStatementsOpt RBRACE
  ;

blockStatement
  : localVariableDeclaration
  | statement
  ;

localVariableDeclaration
  : { !SemanticPredicates.isInvalidLocalVariableDeclaration(_input) }?
    variableDeclaration[0]
  ;

/**
 * t 0: local variable declaration; 1: field declaration
 */

```

```

variableDeclaration[int t]
: modifiers nls
  ( type? variableDeclarators
  | typeNamePairs nls ASSIGN nls variableInitializer
  )
|
  type variableDeclarators
;

typeNamePairs
: LPAREN typeNamePair (COMMA typeNamePair)* rparen
;

typeNamePair
: type? variableDeclaratorId
;

variableNames
: LPAREN variableDeclaratorId (COMMA variableDeclaratorId)+ rparen
;

conditionalStatement
: ifElseStatement
| switchStatement
;

ifElseStatement
: IF expressionInPar nls tb=statement ((nls | sep) ELSE nls fb=statement)?
;

switchStatement
: SWITCH expressionInPar nls LBRACE nls (switchBlockStatementGroup+ nls)? RBRACE
;

loopStatement
: FOR LPAREN forControl rparen nls statement #forStmtAlt
| WHILE expressionInPar nls statement #whileStmtAlt
| DO nls statement nls WHILE expressionInPar #doWhileStmtAlt
;

continueStatement
: CONTINUE
  identifier?
;

breakStatement
: BREAK
  identifier?

```

```

;

tryCatchStatement
: TRY resources? nls block
  (nls catchClause)*
  (nls finallyBlock)?
;

assertStatement
: ASSERT ce=expression (nls (COLON | COMMA) nls me=expression)?
;

statement
: block #blockStmtAlt
| conditionalStatement #conditionalStmtAlt
| loopStatement #loopStmtAlt
| tryCatchStatement #tryCatchStmtAlt
| SYNCHRONIZED expressionInPar nls block #synchronizedStmtAlt
| RETURN expression? #returnStmtAlt
| THROW expression #throwStmtAlt
| breakStatement #breakStmtAlt
| continueStatement #continueStmtAlt
| identifier COLON nls statement #labeledStmtAlt
| assertStatement #assertStmtAlt
| localVariableDeclaration #localVariableDeclarationStmtAlt
| statementExpression #expressionStmtAlt
| SEMI #emptyStmtAlt
;

catchClause
: CATCH LPAREN variableModifiersOpt catchType? identifier rpren nls block
;

catchType
: qualifiedClassName (BITOR qualifiedClassName)*
;

finallyBlock
: FINALLY nls block
;

resources
: LPAREN nls resourceList sep? rpren
;

resourceList
: resource (sep resource)*
;

```

```

resource
  : localVariableDeclaration
  | expression
  ;

/** Matches cases then statements, both of which are mandatory.
 * To handle empty cases at the end, we add switchLabel* to statement.
 */
switchBlockStatementGroup
  : switchLabel (nls switchLabel)* nls blockStatements
  ;

switchLabel
  : CASE expression COLON
  | DEFAULT COLON
  ;

forControl
  : enhancedForControl
  | classicalForControl
  ;

enhancedForControl
  : variableModifiersOpt type? variableDeclaratorId (COLON | IN) expression
  ;

classicalForControl
  : forInit? SEMI expression? SEMI forUpdate?
  ;

forInit
  : localVariableDeclaration
  | expressionList[false]
  ;

forUpdate
  : expressionList[false]
  ;

// EXPRESSIONS

castParExpression
  : LPAREN type rparen
  ;

```

```

parExpression
: expressionInPar
;

expressionInPar
: LPAREN enhancedStatementExpression rparen
;

expressionList[boolean canSpread]
: expressionListElement[$canSpread] (COMMA expressionListElement[$canSpread])*
;

expressionListElement[boolean canSpread]
: MUL? expression
;

enhancedStatementExpression
: statementExpression
| standardLambdaExpression
;

statementExpression
: commandExpression #commandExprAlt
;

postfixExpression
: pathExpression op=(INC | DEC)?
;

expression
// must come before postfixExpression to resolve the ambiguities between casting and call on parentheses
expression, e.g. (int)(1 / 2)
: castParExpression castOperandExpression #castExprAlt

// qualified names, array expressions, method invocation, post inc/dec
| postfixExpression #postfixExprAlt

// ~(BNOT)! (LNOT) (level 1)
| (BITNOT | NOT) nls expression #unaryNotExprAlt

// math power operator (**) (level 2)
| left=expression op=POWER nls right=expression #powerExprAlt

// ++(prefix)--(prefix)/(unary)/(unary) (level 3)
| op=(INC | DEC | ADD | SUB) expression #unaryAddExprAlt

// multiplication/division/modulo (level 4)
| left=expression nls op=(MUL | DIV | MOD) nls right=expression #multiplicativeExprAlt

```

```

// binary addition/subtraction (level 5)
| left=expression op=(ADD | SUB) nls right=expression          #additiveExprAlt

// bit shift expressions (level 6)
| left=expression nls
  (
    ( dlOp=LT LT
      | tgOp=GT GT GT
      | dgOp=GT GT
    )
    | rangeOp=( RANGE_INCLUSIVE
      | RANGE_EXCLUSIVE
    )
  ) nls
right=expression          #shiftExprAlt

// boolean relational expressions (level 7)
| left=expression nls op=(AS | INSTANCEOF | NOT_INSTANCEOF) nls type          #relationalExprAlt
| left=expression nls op=(LE | GE | GT | LT | IN | NOT_IN) nls right=expression #relationalExprAlt

// equality/inequality (==/!=) (level 8)
| left=expression nls
  op=( IDENTICAL
    | NOT_IDENTICAL
    | EQUAL
    | NOTEQUAL
    | SPACESHIP
  ) nls
right=expression          #equalityExprAlt

// regex find and match (=~ and ==~) (level 8.5)
// jez: moved =~ closer to precedence of == etc, as...
// 'if (foo =~ "a.c")' is very close in intent to 'if (foo == "abc")'
| left=expression nls op=(REGEX_FIND | REGEX_MATCH) nls right=expression      #regexExprAlt

// bitwise or non-short-circuiting and (&) (level 9)
| left=expression nls op=BITAND nls right=expression          #andExprAlt

// exclusive or (^) (level 10)
| left=expression nls op=XOR nls right=expression            #exclusiveOrExprAlt

// bitwise or non-short-circuiting or (|) (level 11)
| left=expression nls op=BITOR nls right=expression          #inclusiveOrExprAlt

// logical and (&&) (level 12)
| left=expression nls op=AND nls right=expression            #logicalAndExprAlt

// logical or (||) (level 13)

```

```

| left=expression nls op=OR nls right=expression                                #logicalOrExprAlt

// conditional test (level 14)
| <assoc=right> con=expression nls
  ( QUESTION nls tb=expression nls COLON nls
    | ELVIS nls
  )
  fb=expression                                                                #conditionalExprAlt

// assignment expression (level 15)
// "(a) = [1]" is a special case of multipleAssignmentExprAlt, it will be handle by assignmentExprAlt
| <assoc=right> left=variableNames nls op=ASSIGN nls right=statementExpression
#multipleAssignmentExprAlt
| <assoc=right> left=expression nls
  op=( ASSIGN
    | ADD_ASSIGN
    | SUB_ASSIGN
    | MUL_ASSIGN
    | DIV_ASSIGN
    | AND_ASSIGN
    | OR_ASSIGN
    | XOR_ASSIGN
    | RSHIFT_ASSIGN
    | URSHIFT_ASSIGN
    | LSHIFT_ASSIGN
    | MOD_ASSIGN
    | POWER_ASSIGN
    | ELVIS_ASSIGN
  ) nls
  enhancedStatementExpression                                                #assignmentExprAlt
;

castOperandExpression
options { baseContext = expression; }
: castParExpression castOperandExpression                                    #castExprAlt

| postfixExpression                                                            #postfixExprAlt

// ~(BNOT)!/(LNOT)
| (BITNOT | NOT) nls castOperandExpression                                    #unaryNotExprAlt

// ++(prefix)--(prefix)/(unary)/(unary)
| op=(INC | DEC | ADD | SUB) castOperandExpression                            #unaryAddExprAlt
;

commandExpression
: expression
  (

```



```

    { !SemanticPredicates.isFollowingArgumentsOrClosure($expression.ctx) }?
    argumentList
  |
  /* if pathExpression is a method call, no need to have any more arguments */
)

commandArgument*
;

commandArgument
: commandPrimary
  // what follows is either a normal argument, parens,
  // an appended block, an index operation, or nothing
  // parens (a b already processed):
  //   a b c() d e -> a(b).c().d(e)
  //   a b c()() d e -> a(b).c().call().d(e)
  // index (a b already processed):
  //   a b c[x] d e -> a(b).c[x].d(e)
  //   a b c[x][y] d e -> a(b).c[x][y].d(e)
  // block (a b already processed):
  //   a b c {x} d e -> a(b).c({x}).d(e)
  //
  // parens/block completes method call
  // index makes method call to property get with index
  //
  ( pathElement+
  | argumentList
  )?
;

/**
 * A "path expression" is a name or other primary, possibly qualified by various
 * forms of dot, and/or followed by various kinds of brackets.
 * It can be used for value or assigned to, or else further qualified, indexed, or called.
 * It is called a "path" because it looks like a linear path through a data structure.
 * Examples: x.y, x?.y, x*.y, x.@y; x[], x[y], x[y,z]; x(), x(y), x(y,z); x{s}; a.b[n].c(x).d{s}
 * (Compare to a C lvalue, or LeftHandSide in the JLS section 15.26.)
 * General expressions are built up from path expressions, using operators like '+' and '='.
 *
 * t 0: primary, 1: namePart, 2: arguments, 3: closureOrLambdaExpression, 4: indexPropertyArgs, 5:
namedPropertyArgs,
 * 6: non-static inner class creator
 */
pathExpression returns [int t]
: (
  primary
  |
  // if 'static' followed by DOT, we can treat them as identifiers, e.g. static.unused = { -> }

```

```

    { _input.LT(2).getType() == DOT }?
    STATIC
  )(pathElement { $t = $pathElement.t; })*
;

pathElement returns [int t]
: nls
(
  DOT nls NEW creator[1]
  { $t = 6; }
|
  // AT: foo.@bar selects the field (or attribute), not property
  (
    ( DOT          // The all-powerful dot.
    | SPREAD_DOT   // Spread operator: x*.y === x?.collect{it.y}
    | SAFE_DOT     // Optional-null operator: x?.y === (x==null)?null:x.y
    | SAFE_CHAIN_DOT // Optional-null chain operator: x??y.z === x?.y?.z
    ) nls (AT | nonWildcardTypeArguments)?
  |
    METHOD_POINTER nls // Method pointer operator: foo.&y == foo.metaClass.getMethodPointer(foo,
"y")
  |
    METHOD_REFERENCE nls // Method reference: System.out::println
  )
  namePart
  { $t = 1; }

  // Can always append a block, as foo{bar}
  | closureOrLambdaExpression
  { $t = 3; }
)

| arguments
  { $t = 2; }

// Element selection is always an option, too.
// In Groovy, the stuff between brackets is a general argument list,
// since the bracket operator is transformed into a method call.
| indexPropertyArgs
  { $t = 4; }

| namedPropertyArgs
  { $t = 5; }
;

/**
 * This is the grammar for what can follow a dot: x.a, x.@a, x.&a, x.'a', etc.
 */

```

```

namePart
:
  ( identifier

  // foo.'bar' is in all ways same as foo.bar, except that bar can have an arbitrary spelling
  | stringLiteral

  | dynamicMemberName

  /* just a PROPOSAL, which has not been implemented yet!
  // PROPOSAL, DECIDE: Is this inline form of the 'with' statement useful?
  // Definition: a.{foo} === {with(a) {foo}}
  // May cover some path expression use-cases previously handled by dynamic scoping (closure delegates).
  | block
  */

  // let's allow common keywords as property names
  | keywords
  )
;

/**
 * If a dot is followed by a parenthesized or quoted expression, the member is computed dynamically,
 * and the member selection is done only at runtime. This forces a statically unchecked member access.
 */
dynamicMemberName
: parExpression
| gstring
;

/** An expression may be followed by [...].
 * Unlike Java, these brackets may contain a general argument list,
 * which is passed to the array element operator, which can make of it what it wants.
 * The brackets may also be empty, as in T[]. This is how Groovy names array types.
 */
indexPropertyArgs
: QUESTION? LBRACK expressionList[true]? RBRACK
;

namedPropertyArgs
: QUESTION? LBRACK (namedPropertyArgList | COLON) RBRACK
;

primary
:
  // Append `typeArguments?` to `identifier` to support constructor reference with generics, e.g.
  HashMap<String, Integer>::new
  // Though this is not a graceful solution, it is much faster than replacing `builtInType` with `type`

```

```

    identifier typeArguments?
    | literal
    | gstring
    | NEW nls creator[0]
    | THIS
    | SUPER
    | parExpression
    | closureOrLambdaExpression
    | list
    | map
    | builtInType
    ;

```

```

    #identifierPrmrAlt
    #literalPrmrAlt
    #gstringPrmrAlt
    #newPrmrAlt
    #thisPrmrAlt
    #superPrmrAlt
    #parenPrmrAlt
    #closureOrLambdaExpressionPrmrAlt
    #listPrmrAlt
    #mapPrmrAlt
    #builtInTypePrmrAlt

```

```

namedPropertyArgPrimary
options { baseContext = primary; }
: identifier
| literal
| gstring
| parExpression
| list
| map
;

```

```

    #identifierPrmrAlt
    #literalPrmrAlt
    #gstringPrmrAlt
    #parenPrmrAlt
    #listPrmrAlt
    #mapPrmrAlt

```

```

namedArgPrimary
options { baseContext = primary; }
: identifier
| literal
| gstring
;

```

```

    #identifierPrmrAlt
    #literalPrmrAlt
    #gstringPrmrAlt

```

```

commandPrimary
options { baseContext = primary; }
: identifier
| literal
| gstring
;

```

```

    #identifierPrmrAlt
    #literalPrmrAlt
    #gstringPrmrAlt

```

```

list
: LBRACK expressionList[true]? COMMA? RBRACK
;

```

```

map
: LBRACK
( mapEntryList COMMA?
| COLON
)
RBRACK
;

```

```

mapEntryList
  : mapEntry (COMMA mapEntry)*
  ;

namedPropertyArgList
options { baseContext = mapEntryList; }
  : namedPropertyArg (COMMA namedPropertyArg)*
  ;

mapEntry
  : mapEntryLabel COLON nls expression
  | MUL COLON nls expression
  ;

namedPropertyArg
options { baseContext = mapEntry; }
  : namedPropertyArgLabel COLON nls expression
  | MUL COLON nls expression
  ;

namedArg
options { baseContext = mapEntry; }
  : namedArgLabel COLON nls expression
  | MUL COLON nls expression
  ;

mapEntryLabel
  : keywords
  | primary
  ;

namedPropertyArgLabel
options { baseContext = mapEntryLabel; }
  : keywords
  | namedPropertyArgPrimary
  ;

namedArgLabel
options { baseContext = mapEntryLabel; }
  : keywords
  | namedArgPrimary
  ;

/**
 * t 0: general creation; 1: non-static inner class creation
 */
creator[int t]

```

```

: createdName
  ( nls arguments anonymousInnerClassDeclaration[0]?
  | dim+ (nls arrayInitializer)?
  )
;

dim
: annotationsOpt LBRACK expression? RBRACK
;

arrayInitializer
: LBRACE nls (variableInitializers nls)? RBRACE
;

/**
 * t 0: anonymous inner class; 1: anonymous enum
 */
anonymousInnerClassDeclaration[int t]
: classBody[0]
;

createdName
: annotationsOpt
  ( primitiveType
  | qualifiedClassName typeArgumentsOrDiamond?
  )
;

nonWildcardTypeArguments
: LT nls typeList nls GT
;

typeArgumentsOrDiamond
: LT GT
| typeArguments
;

arguments
: LPAREN enhancedArgumentListInPar? COMMA? rparen
;

argumentList
options { baseContext = enhancedArgumentListInPar; }
: firstArgumentListElement
  ( COMMA nls
  argumentListElement
  )*
;

```

```

enhancedArgumentList
options { baseContext = enhancedArgumentListInPar; }
: firstEnhancedArgumentListElement
  ( COMMA nls
    enhancedArgumentListElement
  )*
;

enhancedArgumentListInPar
: enhancedArgumentListElement
  ( COMMA nls
    enhancedArgumentListElement
  )*
;

firstArgumentListElement
options { baseContext = enhancedArgumentListElement; }
: expressionListElement[true]
| namedArg
;

argumentListElement
options { baseContext = enhancedArgumentListElement; }
: expressionListElement[true]
| namedPropertyArg
;

firstEnhancedArgumentListElement
options { baseContext = enhancedArgumentListElement; }
: expressionListElement[true]
| standardLambdaExpression
| namedArg
;

enhancedArgumentListElement
: expressionListElement[true]
| standardLambdaExpression
| namedPropertyArg
;

stringLiteral
: StringLiteral
;

className
: CapitalizedIdentifier
;

```

identifier

- : Identifier
- | CapitalizedIdentifier
- | VAR
- | IN
- // | DEF
- | TRAIT
- | AS
- ;

builtInType

- : BuiltInPrimitiveType
- | VOID
- ;

keywords

- : ABSTRACT
- | AS
- | ASSERT
- | BREAK
- | CASE
- | CATCH
- | CLASS
- | CONST
- | CONTINUE
- | DEF
- | DEFAULT
- | DO
- | ELSE
- | ENUM
- | EXTENDS
- | FINAL
- | FINALLY
- | FOR
- | GOTO
- | IF
- | IMPLEMENTS
- | IMPORT
- | IN
- | INSTANCEOF
- | INTERFACE
- | NATIVE
- | NEW
- | PACKAGE
- | RETURN
- | STATIC
- | STRICTFP


```
| SUPER
| SWITCH
| SYNCHRONIZED
| THIS
| THROW
| THROWS
| TRANSIENT
| TRAIT
| THREADSAFE
| TRY
| VAR
| VOLATILE
| WHILE

| NullLiteral
| BooleanLiteral

| BuiltInPrimitiveType
| VOID

| PUBLIC
| PROTECTED
| PRIVATE
;
```

```
rparen
: RPAREN
;
```

```
nls
: NL*
;
```

```
sep : (NL | SEMI)+
;
```

Found in path(s):

* /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-jar/GroovyParser.g4

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jar/org/apache/groovy/util/concurrent/concurrentlinkedhashmap/ConcurrentLinkedHashMap.java
* /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
jar/org/apache/groovy/util/concurrent/concurrentlinkedhashmap/EvictionListener.java
* /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
jar/org/apache/groovy/util/concurrent/concurrentlinkedhashmap/Weighers.java
* /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
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* /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
jar/org/apache/groovy/util/concurrent/concurrentlinkedhashmap/LinkedDeque.java
* /opt/cola/permits/1602770640_1679321013.5610387/0/groovy-3-0-15-sources-
jar/org/apache/groovy/util/concurrent/concurrentlinkedhashmap/package-info.java

1.59 brave-instrumentation-kafka-clients

5.13.9

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1.60 json-simple 1.1.1

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1.61 commons-compress 1.21

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1.62 guava 19.0

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 */
/*
 * This method was rewritten in Java from an intermediate step of the Murmur hash function in
 * http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp, which contained the
 * following header:
```

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Found in path(s):

* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
jar/com/google/common/base/SmallCharMatcher.java

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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
jar/com/google/common/collect/GenericMapMaker.java

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* This method was rewritten in Java from an intermediate step of the Murmur hash function in

* <http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp>, which contained the

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- * /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/eventbus/SubscriberRegistry.java
- * /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/util/concurrent/TrustedListenableFutureTask.java
- * /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/util/concurrent/ListenerCallQueue.java
- * /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/base/MoreObjects.java
- * /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/eventbus/Subscriber.java

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- * /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/hash/Crc32cHashFunction.java
- * /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/hash/BloomFilterStrategies.java
- * /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/hash/MessageDigestHashFunction.java
- * /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/RegularImmutableMultiset.java
- * /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/EmptyContiguousSet.java
- * /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/hash/Funnels.java
- * /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/AbstractSortedMultiset.java

* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/hash/Funnel.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/hash/BloomFilter.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/DescendingImmutableSortedMultiset.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/TreeRangeSet.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/hash/AbstractStreamingHashFunction.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/hash/AbstractHasher.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/hash/Hashing.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/BoundType.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/Queues.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/hash/PrimitiveSink.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/hash/Hasher.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/hash/Murmur3_128HashFunction.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/hash/HashCode.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/hash/HashingOutputStream.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/hash/Murmur3_32HashFunction.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/hash/HashFunction.java
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- * /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/AllEqualOrdering.java
- * /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/ForwardingDeque.java
- * /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/cache/LongAddables.java
- * /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/base/StandardSystemProperty.java
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- * /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/reflect/ClassPath.java
- * /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/AbstractSortedKeySortedSetMultimap.java
- * /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/util/concurrent/RateLimiter.java
- * /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-

jar/com/google/common/collect/ForwardingNavigableMap.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
jar/com/google/common/collect/RangeMap.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
jar/com/google/common/collect/ImmutableEnumMap.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
jar/com/google/common/cache/LongAddable.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
jar/com/google/common/collect/FilteredKeySetMultimap.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/io/ByteSink.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
jar/com/google/common/reflect/TypeToInstanceMap.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
jar/com/google/common/reflect/TypeCapture.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
jar/com/google/common/util/concurrent/ListenableScheduledFuture.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
jar/com/google/common/collect/BinaryTreeTraverser.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
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jar/com/google/common/collect/ForwardingImmutableSet.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/xml/package-
info.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
jar/com/google/common/collect/FilteredEntryMultimap.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
jar/com/google/common/collect/DescendingImmutableSortedSet.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
jar/com/google/common/util/concurrent/ServiceManager.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
jar/com/google/common/io/CharSource.java

* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/AbstractNavigableMap.java
 * /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/reflect/Parameter.java
 * /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/ForwardingImmutableList.java
 * /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/DescendingMultiset.java
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 * /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/reflect/package-info.java
 * /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/EvictingQueue.java
 * /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/ForwardingNavigableSet.java
 * /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/reflect/MutableTypeToInstanceMap.java
 * /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/io/CharSink.java
 * /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/TransformedListIterator.java
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 * /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/FilteredKeyListMultimap.java
 * /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/FilteredMultimap.java
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 * /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/TreeTraverser.java
 * /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/FilteredEntrySetMultimap.java
 * /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/UnmodifiableSortedMultiset.java
 * /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/SortedMultisetBridge.java
 * /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/reflect/Element.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/AbstractBiMap.java

* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/ReverseNaturalOrdering.java

* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/io/package-info.java

* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/Constraints.java

* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/base/package-info.java

* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/ClassToInstanceMap.java

* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/NullsLastOrdering.java

* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-

jar/com/google/common/base/Supplier.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
jar/com/google/common/collect/Constraint.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
jar/com/google/common/eventbus/EventBus.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
jar/com/google/common/collect/ComparatorOrdering.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/io/Files.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
jar/com/google/common/io/Closeables.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
jar/com/google/common/collect/LexicographicalOrdering.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
jar/com/google/common/base/Throwables.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
jar/com/google/common/collect/ForwardingListIterator.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
jar/com/google/common/io/InputSupplier.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
jar/com/google/common/collect/HashMultiset.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
jar/com/google/common/collect/AbstractSortedSetMultimap.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
jar/com/google/common/io/CountingOutputStream.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
jar/com/google/common/collect/SortedSetMultimap.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
jar/com/google/common/collect/ForwardingSet.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
jar/com/google/common/io/Resources.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
jar/com/google/common/collect/ForwardingConcurrentMap.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
jar/com/google/common/collect/MapConstraint.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
jar/com/google/common/collect/ForwardingMultimap.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
jar/com/google/common/util/concurrent/ListenableFuture.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
jar/com/google/common/collect/Multiset.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
jar/com/google/common/collect/Multimaps.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
jar/com/google/common/base/FinalizableWeakReference.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
jar/com/google/common/collect/ImmutableSet.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
jar/com/google/common/util/concurrent/AbstractFuture.java

* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/eventbus/AsyncEventBus.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/ForwardingCollection.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/ForwardingQueue.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/ForwardingIterator.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/ExplicitOrdering.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/HashMultimap.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/Maps.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/base/Charsets.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/NullsFirstOrdering.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/base/AbstractIterator.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/io/LineBuffer.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/Interner.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/eventbus/AllowConcurrentEvents.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/ForwardingMap.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/AbstractMultiset.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/base/FinalizableSoftReference.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/base/Functions.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/base/FinalizableReferenceQueue.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/ListMultimap.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/util/concurrent/ExecutionList.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/ObjectArrays.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/base/Predicate.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/SetMultimap.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/ByFunctionOrdering.java

* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/ForwardingSortedMap.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/base/FinalizablePhantomReference.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/ForwardingMapEntry.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/Multimap.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/eventbus/DeadEvent.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/Ordering.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/Sets.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/LinkedHashMultimap.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/eventbus/package-info.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/Lists.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/io/ByteStreams.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/ReverseOrdering.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/AbstractListMultimap.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/BiMap.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/UsingToStringOrdering.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/EnumBiMap.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/primitives/Primitives.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/Iterables.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/Multisets.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/EnumHashBiMap.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/ForwardingList.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/Iterators.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/SingletonImmutableSet.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/io/LittleEndianDataOutputStream.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/AbstractSetMultimap.java

* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/base/Function.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/TreeMultimap.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/base/FinalizableReference.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/util/concurrent/package-info.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/AbstractMapBasedMultiset.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/io/Flushables.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/base/Predicates.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/ImmutableList.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/ForwardingMultiset.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/MutableClassToInstanceMap.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/base/Defaults.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/Synchronized.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/io/LineReader.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/MapDifference.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/io/LittleEndianDataInputStream.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/io/CountingInputStream.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/io/OutputSupplier.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/base/Objects.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/NaturalOrdering.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/MapConstraints.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/ForwardingSortedSet.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/ArrayListMultimap.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/package-info.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/io/MultiInputStream.java

* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/AbstractIterator.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/CompoundOrdering.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/AbstractMapBasedMultimap.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/AbstractMapEntry.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/base/Suppliers.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/ConcurrentHashMultiset.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/io/CharStreams.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/LinkedListMultimap.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/LinkedHashMultiset.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/eventbus/Subscribe.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/TreeMultiset.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/ForwardingObject.java

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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/ContiguousSet.java

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jar/com/google/common/eventbus/SubscriberExceptionContext.java
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jar/com/google/common/collect/EnumMultiset.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
jar/com/google/common/collect/HashBiMap.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
jar/com/google/common/base/Preconditions.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
jar/com/google/common/collect/Interners.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
jar/com/google/common/collect/AbstractTable.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
jar/com/google/common/base/VerifyException.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
jar/com/google/common/collect/FilteredMultimapValues.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
jar/com/google/common/hash/HashingInputStream.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/base/Utf8.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/base/Verify.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
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jar/com/google/common/util/concurrent/AbstractExecutionThreadService.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
jar/com/google/common/collect/ForwardingTable.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
jar/com/google/common/net/UrlEscapers.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
jar/com/google/common/util/concurrent/SettableFuture.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
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jar/com/google/common/collect/ImmutableTable.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
jar/com/google/common/collect/ImmutableAsList.java
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jar/com/google/common/io/ByteArrayDataInput.java

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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
jar/com/google/common/escape/ArrayBasedUnicodeEscaper.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
jar/com/google/common/annotations/GwtCompatible.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/base/Enums.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/base/Absent.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
jar/com/google/common/collect/WellBehavedMap.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/reflect/TypeParameter.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/util/concurrent/CycleDetectingLockFactory.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/net/HostAndPort.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/util/concurrent/AbstractListeningExecutorService.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/cache/RemovalListeners.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/hash/AbstractNonStreamingHashFunction.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/reflect/Types.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/math/LongMath.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/cache/LoadingCache.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/util/concurrent/WrappingExecutorService.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/AbstractRangeSet.java

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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/primitives/UnsignedInts.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/ImmutableSortedMultisetFauxverideShim.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
jar/com/google/common/collect/RegularImmutableTable.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-  
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-  
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-  
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-  
jar/com/google/common/collect/ImmutableMapValues.java  
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-  
jar/com/google/common/net/InetAddresses.java  
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-  
jar/com/google/common/collect/ImmutableBiMap.java  
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-  
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-  
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-  
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jar/com/google/common/util/concurrent/SerializingExecutor.java  
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-  
jar/com/google/common/collect/RegularImmutableMap.java
```

* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/StandardRowSortedTable.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/ImmutableMultimap.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/primitives/Chars.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/escape/Escaper.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/thirdparty/publicsuffix/PublicSuffixPatterns.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/UnmodifiableIterator.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/PeekingIterator.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/CollectPreconditions.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/TreeBasedTable.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/io/MultiReader.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/base/CharMatcher.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/util/concurrent/CheckedFuture.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/EmptyImmutableListMultimap.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/primitives/Bytes.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/primitives/Longs.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/io/FileBackedOutputStream.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/HashBasedTable.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/Serialization.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/base/Joiner.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/Range.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/base/Converter.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/primitives/Doubles.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/util/concurrent/ListenableFutureTask.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/primitives/Floats.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-

jar/com/google/common/primitives/Shorts.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
jar/com/google/common/collect/ImmutableMultiset.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
jar/com/google/common/collect/ImmutableSortedSet.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
jar/com/google/common/util/concurrent/AbstractCheckedFuture.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
jar/com/google/common/collect/Collections2.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
jar/com/google/common/collect/SingletonImmutableBiMap.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
jar/com/google/thirdparty/publicsuffix/TrieParser.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
jar/com/google/common/collect/StandardTable.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
jar/com/google/common/collect/ImmutableListMultimap.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
jar/com/google/common/collect/ImmutableEntry.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
jar/com/google/common/collect/Platform.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
jar/com/google/common/collect/Tables.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
jar/com/google/common/base/Stopwatch.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
jar/com/google/common/net/PercentEscaper.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
jar/com/google/common/primitives/Ints.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
jar/com/google/common/escape/UnicodeEscaper.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/ForwardingSortedSetMultimap.java

* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/ForwardingImmutableCollection.java

* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/MinMaxPriorityQueue.java

* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/annotations/package-info.java

* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/UnmodifiableListIterator.java

* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/SortedMapDifference.java

* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/RowSortedTable.java

* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/annotations/Beta.java

* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/ForwardingSetMultimap.java

* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/util/concurrent/Atomics.java

* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/base/Strings.java

* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/primitives/package-info.java

* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/base/Equivalence.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/base/Ascii.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/AbstractSequentialIterator.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/ForwardingListMultimap.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/util/concurrent/ForwardingBlockingQueue.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/net/package-info.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/util/concurrent/ThreadFactoryBuilder.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/util/concurrent/Monitor.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/util/concurrent/ListeningExecutorService.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/hash/ChecksumHashFunction.java

* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/CartesianList.java

* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/ImmutableRangeMap.java

* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/ImmutableRangeSet.java

* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/hash/SipHashFunction.java

* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/FilteredKeyMultimap.java

* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-

jar/com/google/common/io/BaseEncoding.java

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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-

jar/com/google/common/util/concurrent/FuturesGetChecked.java

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* <http://gee.cs.oswego.edu/cgi-bin/viewcvs.cgi/jsr166/src/test/tck/AbstractExecutorServiceTest.java?revision=1.30>

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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/math/MathPreconditions.java

* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/cache/Weigher.java

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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/io/PatternFilenameFilter.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/escape/CharEscaperBuilder.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/io/AppendableWriter.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/base/CaseFormat.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/annotations/VisibleForTesting.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/util/concurrent/AggregateFuture.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/util/concurrent/Futures.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/util/concurrent/FakeTimeLimiter.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/escape/CharEscaper.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/reflect/TypeToken.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/util/concurrent/UncheckedTimeoutException.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/util/concurrent/GwtFuturesCatchingSpecialization.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/util/concurrent/SimpleTimeLimiter.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/util/concurrent/CollectionFuture.java

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* As of 2010/06/11, this method is identical to the (package private) hash
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```

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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
jar/com/google/common/reflect/TypeVisitor.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
jar/com/google/common/collect/MultimapBuilder.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
jar/com/google/common/util/concurrent/WrappingScheduledExecutorService.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
jar/com/google/thirdparty/publicsuffix/PublicSuffixType.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
jar/com/google/common/collect/ImmutableMapEntry.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
jar/com/google/common/eventbus/SubscriberExceptionHandler.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
jar/com/google/common/io/CharSequenceReader.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
jar/com/google/common/util/concurrent/Runnables.java
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jar/com/google/common/util/concurrent/AtomicDoubleArray.java

* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-

jar/com/google/common/cache/Striped64.java

* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-

jar/com/google/common/cache/LongAdder.java

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jar/com/google/common/collect/ConsumingQueueIterator.java

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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/util/concurrent/InterruptibleTask.java

* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/util/concurrent/Platform.java

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Found in path(s):

* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/ImmutableSortedAsList.java

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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/hash/package-info.java

1.63 css-parser 1.5.0

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1.64 p11-kit 0.24.1-r0

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1.65 string-template 3.2.1

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1.66 activation-api 1.2.0

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1.67 xml-beans 5.1.1

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```
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
jar/org/apache/xmlbeans/impl/schema/SimpleTypeFactory.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
jar/org/apache/xmlbeans/impl/common/StaxHelper.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
jar/org/apache/xmlbeans/impl/common/SAXHelper.java
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*/
/**
* Do not enforce the unique particle attribution rule.
*/
```

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jar/org/apache/xmlbeans/impl/config/PrePostExtensionImpl.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
jar/org/apache/xmlbeans/InterfaceExtension.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
jar/org/apache/xmlbeans/PrePostExtension.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
jar/org/apache/xmlbeans/impl/util/Diff.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
jar/org/apache/xmlbeans/Filer.java

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*/

```

```

/**
* @return true to disable unique particle attribution rule, false otherwise
* Default is false.
*/
/**
* set true to disable unique particle attribution rule, false otherwise
*/

```

Found in path(s):

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/xsd2inst/SchemaInstanceGenerator.java
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===== */
```

Found in path(s):

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/util/SuppressForbidden.java
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Found in path(s):

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/common/DefaultClassLoaderResourceLoader.java
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* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
jar/org/apache/xmlbeans/XmlTokenSource.java

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*/
/**
 * cos-nonambig: See
 * <a href="http://www.w3c.org/TR/xmlschema-1/#cos-nonambig">XMLSchema Structures 1.0: Unique Particle
Attribution</a>
 */
```

Found in path(s):

```
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
jar/org/apache/xmlbeans/XmlErrorCodes.java
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```


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*/
/** deactivate unique particle attribution - default: false */

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jar/org/apache/xmlbeans/impl/tool/MavenPlugin.java
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* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
jar/org/apache/xmlbeans/impl/common/DocumentHelper.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
jar/org/apache/xmlbeans/impl/common/XMLBeansConstants.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
jar/org/apache/xmlbeans/impl/store/Locale.java
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*/

```
/**
 * If this option is set, the unique particle attribution rule is not
 * enforced when building a {@code SchemaTypeSystem}. See
 * <a target="_blank" href="http://www.w3.org/TR/xmlschema-1/#non-ambig">Appendix H of the XML Schema
 specification</a>
 * for information on the UPA rule.
 *
 * @see XmlBeans#compileXsd
 */
```

Found in path(s):

```
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
jar/org/apache/xmlbeans/XmlOptions.java
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* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
jar/org/apache/xmlbeans/impl/regex/message_fr.properties
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
jar/org/apache/xmlbeans/impl/regex/message.properties
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
jar/org/apache/xmlbeans/impl/regex/message_ja.properties
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*/  
  
// if we can, then particle attribution is not unique
```

Found in path(s):

```
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-  
jar/org/apache/xmlbeans/impl/schema/StscComplexTypeResolver.java
```

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```

/**

* True if no unique particle attribution option is set

*/

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* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/store/SoapPartDom.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/xml/stream/Space.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/XmlBase64Binary.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/XmlUnsignedLong.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/store/SoapBodyElementXobj.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/soap/SOAPConnectionFactory.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/store/ProcInstXobj.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/schema/XQuerySchemaTypeSystem.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/soap/SOAPConstants.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/xpath/XQuery.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-

jar/org/apache/xmlbeans/impl/common/XmlReaderToWriter.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
jar/org/apache/xmlbeans/XmlRuntimeException.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
jar/org/apache/xmlbeans/impl/store/NamedNodeXobj.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
jar/org/apache/xmlbeans/impl/common/EncodingMap.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
jar/org/apache/xmlbeans/impl/common/GlobalLock.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
jar/org/apache/xmlbeans/impl/tool/XsbDumper.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
jar/org/apache/xmlbeans/impl/xpath/saxon/SaxonXQuery.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
jar/org/apache/xmlbeans/impl/values/JavaDoubleHolder.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
jar/org/apache/xmlbeans/impl/values/XmlGYearImpl.java
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* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
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* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
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* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
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* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
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* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
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* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
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* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
jar/org/apache/xmlbeans/impl/schema/StscJavaizer.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
jar/org/apache/xmlbeans/XmlUnsignedInt.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
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* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
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* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
jar/org/apache/xmlbeans/impl/validator/ValidatingXMLStreamReader.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
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* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
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* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
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* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
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* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
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* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
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* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
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* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
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* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
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* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
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* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
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* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
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* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
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* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-

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* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
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* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
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* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
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* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
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* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
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* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
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* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
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* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
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* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
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* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
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* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
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* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
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* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
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* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
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* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
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* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
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* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
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* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
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* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
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* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
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* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
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* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
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* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
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* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
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* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
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* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
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* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
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* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
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* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
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* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-

jar/org/apache/xmlbeans/XmlUnsignedShort.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
jar/org/apache/xmlbeans/impl/values/JavaIntHolderEx.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
jar/org/apache/xmlbeans/impl/soap/MimeHeaders.java
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jar/org/apache/xmlbeans/metadata/src/xsdownload.xsd
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
jar/org/apache/xmlbeans/metadata/src/substwsdl.xsd
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
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1.69 feign-slf4j 11.10

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-->

Found in path(s):

* /opt/cola/permits/1468115544_1668001211.006281/0/feign-slf4j-11-10-jar/META-INF/maven/io.github.openfeign/feign-slf4j/pom.xml

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

Manifest-Version: 1.0

Bundle-Description: Feign SLF4J

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

Bundle-SymbolicName: io.github.openfeign.feign-slf4j

Bnd-LastModified: 1663794525561

Bundle-ManifestVersion: 2

Bundle-DocURL: <https://github.com/openfeign>

Bundle-Vendor: OpenFeign

Import-Package: feign;version="[11.10,12)",org.slf4j;version="[1.7,2)"

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

Tool: Bnd-6.3.1.202206071316

Export-Package: feign.slf4j;uses:=feign;version="11.10.0"

Bundle-Name: Feign SLF4J

Bundle-Version: 11.10.0

Build-Jdk-Spec: 1.8

Created-By: Apache Maven Bundle Plugin 5.1.8

Found in path(s):

* /opt/cola/permits/1468115544_1668001211.006281/0/feign-slf4j-11-10-jar/META-INF/MANIFEST.MF

1.70 jjwt-jackson 0.10.7

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-->
```

Found in path(s):

* /opt/cola/permits/1612303979_1680514174.5970838/0/jjwt-jackson-0-10-7-sources-1-jar/META-INF/maven/io.jsonwebtoken/jjwt-jackson/pom.xml

1.71 mxparser 1.2.2

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1.72 jetty-client 9.4.50.v20221201

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- * org.eclipse.jetty.orbit:org.eclipse.jdt.core

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- * org.eclipse.jetty.orbit:javac.security.auth.message

The following artifacts are EPL and CDDL 1.0.

- * org.eclipse.jetty.orbit:javac.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

- * javax.servlet:javax.servlet-api
- * javax.annotation:javax.annotation-api
- * javax.transaction:javax.transaction-api
- * javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

- * java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

OW2

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org.ow2.asm:asm-commons

org.ow2.asm:asm

Apache

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org.apache.taglibs:taglibs-standard-spec

org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper

org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api

org.apache.tomcat:tomcat-el-api

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan

org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-el-api

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

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1.73 slf4j 1.7.36

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* /opt/cola/permits/1135864262_1613618257.27/0/isorelax-20090621-sources-1-
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* @(#) \$Id: IslandVerifier.java,v 1.6 2003/05/30 23:46:32 kkawa Exp \$

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* @(#) \$Id: AttributesDecl.java,v 1.3 2001/11/01 00:11:45 kkawa Exp \$

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1.76 opentelemetry-api 1.13.0

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jar/org/springframework/cloud/sleuth/instrument/annotation/SpelTagValueExpressionResolver.java
* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-
jar/org/springframework/cloud/sleuth/instrument/web/client/feign/FeignContextBeanPostProcessor.java
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* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/async/TraceAsyncListenableTaskExecutor.java

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1.78 libpng 1.6.37-r1

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1.79 javaewah 1.1.13

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```
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jar/com/googlecode/javaewah/IntIteratorImpl.java
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```
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```

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Found in path(s):

* /opt/cola/permits/1362667187_1657728131.9014533/0/javaawah-1-1-13-sources-jar/com/googlecode/javaawah/LongArray.java

* /opt/cola/permits/1362667187_1657728131.9014533/0/javaawah-1-1-13-sources-jar/com/googlecode/javaawah/ReverseIntIterator.java

* /opt/cola/permits/1362667187_1657728131.9014533/0/javaawah-1-1-13-sources-jar/com/googlecode/javaawah32/ChunkIteratorImpl32.java

* /opt/cola/permits/1362667187_1657728131.9014533/0/javaawah-1-1-13-sources-jar/com/googlecode/javaawah/LongBufferWrapper.java

* /opt/cola/permits/1362667187_1657728131.9014533/0/javaawah-1-1-13-sources-jar/com/googlecode/javaawah32/IteratingRLW32.java

* /opt/cola/permits/1362667187_1657728131.9014533/0/javaawah-1-1-13-sources-jar/com/googlecode/javaawah/BitCounter.java

* /opt/cola/permits/1362667187_1657728131.9014533/0/javaawah-1-1-13-sources-jar/com/googlecode/javaawah/ClearIntIterator.java

* /opt/cola/permits/1362667187_1657728131.9014533/0/javaawah-1-1-13-sources-jar/com/googlecode/javaawah32/IntArray.java

* /opt/cola/permits/1362667187_1657728131.9014533/0/javaawah-1-1-13-sources-jar/com/googlecode/javaawah/BufferedRunningLengthWord.java

* /opt/cola/permits/1362667187_1657728131.9014533/0/javaawah-1-1-13-sources-jar/com/googlecode/javaawah/ChunkIterator.java

* /opt/cola/permits/1362667187_1657728131.9014533/0/javaawah-1-1-13-sources-jar/com/googlecode/javaawah32/Buffer32.java

* /opt/cola/permits/1362667187_1657728131.9014533/0/javaawah-1-1-13-sources-jar/com/googlecode/javaawah32/BufferedIterator32.java

* /opt/cola/permits/1362667187_1657728131.9014533/0/javaawah-1-1-13-sources-jar/com/googlecode/javaawah32/ReverseEWAHIterator32.java

* /opt/cola/permits/1362667187_1657728131.9014533/0/javaawah-1-1-13-sources-jar/com/googlecode/javaawah32/ReverseIntIterator32.java

* /opt/cola/permits/1362667187_1657728131.9014533/0/javaawah-1-1-13-sources-jar/com/googlecode/javaawah32/IteratingBufferedRunningLengthWord32.java

* /opt/cola/permits/1362667187_1657728131.9014533/0/javaawah-1-1-13-sources-jar/com/googlecode/javaawah32/IteratorAggregation32.java

* /opt/cola/permits/1362667187_1657728131.9014533/0/javaawah-1-1-13-sources-jar/com/googlecode/javaawah32/RunningLengthWord32.java

* /opt/cola/permits/1362667187_1657728131.9014533/0/javaawah-1-1-13-sources-jar/com/googlecode/javaawah32/BufferedRunningLengthWord32.java

* /opt/cola/permits/1362667187_1657728131.9014533/0/javaawah-1-1-13-sources-jar/com/googlecode/javaawah/RunningLengthWord.java

* /opt/cola/permits/1362667187_1657728131.9014533/0/javaawah-1-1-13-sources-

jar/com/googlecode/javaewah32/ClearIntIterator32.java
* /opt/cola/permits/1362667187_1657728131.9014533/0/javaewah-1-1-13-sources-
jar/com/googlecode/javaewah/IntIteratorOverIteratingRLW.java
* /opt/cola/permits/1362667187_1657728131.9014533/0/javaewah-1-1-13-sources-
jar/com/googlecode/javaewah32/IntIteratorOverIteratingRLW32.java
* /opt/cola/permits/1362667187_1657728131.9014533/0/javaewah-1-1-13-sources-
jar/com/googlecode/javaewah/LogicalElement.java
* /opt/cola/permits/1362667187_1657728131.9014533/0/javaewah-1-1-13-sources-
jar/com/googlecode/javaewah/BitmapStorage.java
* /opt/cola/permits/1362667187_1657728131.9014533/0/javaewah-1-1-13-sources-
jar/com/googlecode/javaewah/IntIterator.java
* /opt/cola/permits/1362667187_1657728131.9014533/0/javaewah-1-1-13-sources-
jar/com/googlecode/javaewah/EWAHCompressedBitmap.java
* /opt/cola/permits/1362667187_1657728131.9014533/0/javaewah-1-1-13-sources-
jar/com/googlecode/javaewah32/IntBufferWrapper.java
* /opt/cola/permits/1362667187_1657728131.9014533/0/javaewah-1-1-13-sources-
jar/com/googlecode/javaewah32/BitCounter32.java
* /opt/cola/permits/1362667187_1657728131.9014533/0/javaewah-1-1-13-sources-
jar/com/googlecode/javaewah/CloneableIterator.java
* /opt/cola/permits/1362667187_1657728131.9014533/0/javaewah-1-1-13-sources-
jar/com/googlecode/javaewah/IteratingBufferedRunningLengthWord.java
* /opt/cola/permits/1362667187_1657728131.9014533/0/javaewah-1-1-13-sources-
jar/com/googlecode/javaewah32/IteratorUtil32.java
* /opt/cola/permits/1362667187_1657728131.9014533/0/javaewah-1-1-13-sources-
jar/com/googlecode/javaewah/ChunkIteratorImpl.java
* /opt/cola/permits/1362667187_1657728131.9014533/0/javaewah-1-1-13-sources-
jar/com/googlecode/javaewah/FastAggregation.java
* /opt/cola/permits/1362667187_1657728131.9014533/0/javaewah-1-1-13-sources-
jar/com/googlecode/javaewah32/BitmapStorage32.java
* /opt/cola/permits/1362667187_1657728131.9014533/0/javaewah-1-1-13-sources-
jar/com/googlecode/javaewah/IteratorUtil.java
* /opt/cola/permits/1362667187_1657728131.9014533/0/javaewah-1-1-13-sources-
jar/com/googlecode/javaewah32/EWAHIterator32.java
* /opt/cola/permits/1362667187_1657728131.9014533/0/javaewah-1-1-13-sources-
jar/com/googlecode/javaewah32/NonEmptyVirtualStorage32.java
* /opt/cola/permits/1362667187_1657728131.9014533/0/javaewah-1-1-13-sources-
jar/com/googlecode/javaewah/BufferedIterator.java
* /opt/cola/permits/1362667187_1657728131.9014533/0/javaewah-1-1-13-sources-
jar/com/googlecode/javaewah32/EWAHCompressedBitmap32.java
* /opt/cola/permits/1362667187_1657728131.9014533/0/javaewah-1-1-13-sources-
jar/com/googlecode/javaewah/Buffer.java
* /opt/cola/permits/1362667187_1657728131.9014533/0/javaewah-1-1-13-sources-
jar/com/googlecode/javaewah/IteratingRLW.java
* /opt/cola/permits/1362667187_1657728131.9014533/0/javaewah-1-1-13-sources-
jar/com/googlecode/javaewah/NonEmptyVirtualStorage.java
* /opt/cola/permits/1362667187_1657728131.9014533/0/javaewah-1-1-13-sources-
jar/com/googlecode/javaewah/EWAHIterator.java
* /opt/cola/permits/1362667187_1657728131.9014533/0/javaewah-1-1-13-sources-

```
jar/com/googlecode/javaewah/ReverseEWAHIterator.java
* /opt/cola/permits/1362667187_1657728131.9014533/0/javaewah-1-1-13-sources-
jar/com/googlecode/javaewah32/FastAggregation32.java
* /opt/cola/permits/1362667187_1657728131.9014533/0/javaewah-1-1-13-sources-
jar/com/googlecode/javaewah/IteratorAggregation.java
```

1.80 libc-utils 0.7.2-r3

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1.81 spring-beans 5.3.25

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- \* /opt/cola/permits/1568674801\_1676616995.6618445/0/netty-codec-4-1-89-final-sources-

jar/io/netty/handler/codec/compression/SnappyFramedDecoder.java  
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jar/io/netty/handler/codec/compression/Bzip2HuffmanStageDecoder.java  
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jar/io/netty/handler/codec/compression/Bzip2HuffmanStageEncoder.java  
\* /opt/cola/permits/1568674801\_1676616995.6618445/0/netty-codec-4-1-89-final-sources-  
jar/io/netty/handler/codec/MessageAggregationException.java  
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\* /opt/cola/permits/1568674801\_1676616995.6618445/0/netty-codec-4-1-89-final-sources-  
jar/io/netty/handler/codec/ReplayingDecoderByteBuf.java  
\* /opt/cola/permits/1568674801\_1676616995.6618445/0/netty-codec-4-1-89-final-sources-  
jar/io/netty/handler/codec/bytes/ByteArrayDecoder.java  
\* /opt/cola/permits/1568674801\_1676616995.6618445/0/netty-codec-4-1-89-final-sources-  
jar/io/netty/handler/codec/marshalling/DefaultMarshallerProvider.java  
\* /opt/cola/permits/1568674801\_1676616995.6618445/0/netty-codec-4-1-89-final-sources-  
jar/io/netty/handler/codec/serialization/WeakReferenceMap.java  
\* /opt/cola/permits/1568674801\_1676616995.6618445/0/netty-codec-4-1-89-final-sources-  
jar/io/netty/handler/codec/serialization/SoftReferenceMap.java  
\* /opt/cola/permits/1568674801\_1676616995.6618445/0/netty-codec-4-1-89-final-sources-  
jar/io/netty/handler/codec/serialization/ObjectDecoderInputStream.java  
\* /opt/cola/permits/1568674801\_1676616995.6618445/0/netty-codec-4-1-89-final-sources-  
jar/io/netty/handler/codec/serialization/ClassLoaderClassResolver.java  
\* /opt/cola/permits/1568674801\_1676616995.6618445/0/netty-codec-4-1-89-final-sources-  
jar/io/netty/handler/codec/ReplayingDecoder.java  
\* /opt/cola/permits/1568674801\_1676616995.6618445/0/netty-codec-4-1-89-final-sources-  
jar/io/netty/handler/codec/bytes/package-info.java  
\* /opt/cola/permits/1568674801\_1676616995.6618445/0/netty-codec-4-1-89-final-sources-  
jar/io/netty/handler/codec/serialization/CompactObjectOutputStream.java  
\* /opt/cola/permits/1568674801\_1676616995.6618445/0/netty-codec-4-1-89-final-sources-  
jar/io/netty/handler/codec/serialization/ReferenceMap.java  
\* /opt/cola/permits/1568674801\_1676616995.6618445/0/netty-codec-4-1-89-final-sources-  
jar/io/netty/handler/codec/compression/JZlibEncoder.java  
\* /opt/cola/permits/1568674801\_1676616995.6618445/0/netty-codec-4-1-89-final-sources-  
jar/io/netty/handler/codec/base64/Base64Encoder.java  
\* /opt/cola/permits/1568674801\_1676616995.6618445/0/netty-codec-4-1-89-final-sources-  
jar/io/netty/handler/codec/MessageToMessageCodec.java  
\* /opt/cola/permits/1568674801\_1676616995.6618445/0/netty-codec-4-1-89-final-sources-  
jar/io/netty/handler/codec/compression/ZlibDecoder.java  
\* /opt/cola/permits/1568674801\_1676616995.6618445/0/netty-codec-4-1-89-final-sources-  
jar/io/netty/handler/codec/Delimiters.java  
\* /opt/cola/permits/1568674801\_1676616995.6618445/0/netty-codec-4-1-89-final-sources-  
jar/io/netty/handler/codec/compression/package-info.java  
\* /opt/cola/permits/1568674801\_1676616995.6618445/0/netty-codec-4-1-89-final-sources-  
jar/io/netty/handler/codec/compression/DecompressionException.java  
\* /opt/cola/permits/1568674801\_1676616995.6618445/0/netty-codec-4-1-89-final-sources-  
jar/io/netty/handler/codec/serialization/ObjectEncoder.java  
\* /opt/cola/permits/1568674801\_1676616995.6618445/0/netty-codec-4-1-89-final-sources-  
jar/io/netty/handler/codec/MessageToMessageEncoder.java  
\* /opt/cola/permits/1568674801\_1676616995.6618445/0/netty-codec-4-1-89-final-sources-

jar/io/netty/handler/codec/marshalling/CompatibleMarshallingEncoder.java  
\* /opt/cola/permits/1568674801\_1676616995.6618445/0/netty-codec-4-1-89-final-sources-  
jar/io/netty/handler/codec/serialization/CompatibleObjectEncoder.java  
\* /opt/cola/permits/1568674801\_1676616995.6618445/0/netty-codec-4-1-89-final-sources-  
jar/io/netty/handler/codec/serialization/CompactObjectInputStream.java  
\* /opt/cola/permits/1568674801\_1676616995.6618445/0/netty-codec-4-1-89-final-sources-  
jar/io/netty/handler/codec/serialization/ClassResolvers.java  
\* /opt/cola/permits/1568674801\_1676616995.6618445/0/netty-codec-4-1-89-final-sources-  
jar/io/netty/handler/codec/FixedLengthFrameDecoder.java  
\* /opt/cola/permits/1568674801\_1676616995.6618445/0/netty-codec-4-1-89-final-sources-  
jar/io/netty/handler/codec/EncoderException.java  
\* /opt/cola/permits/1568674801\_1676616995.6618445/0/netty-codec-4-1-89-final-sources-  
jar/io/netty/handler/codec/marshalling/MarshallerProvider.java  
\* /opt/cola/permits/1568674801\_1676616995.6618445/0/netty-codec-4-1-89-final-sources-  
jar/io/netty/handler/codec/DecoderException.java  
\* /opt/cola/permits/1568674801\_1676616995.6618445/0/netty-codec-4-1-89-final-sources-  
jar/io/netty/handler/codec/marshalling/UnmarshallerProvider.java  
\* /opt/cola/permits/1568674801\_1676616995.6618445/0/netty-codec-4-1-89-final-sources-  
jar/io/netty/handler/codec/marshalling/ChannelBufferByteOutput.java  
\* /opt/cola/permits/1568674801\_1676616995.6618445/0/netty-codec-4-1-89-final-sources-  
jar/io/netty/handler/codec/compression/CompressionException.java  
\* /opt/cola/permits/1568674801\_1676616995.6618445/0/netty-codec-4-1-89-final-sources-  
jar/io/netty/handler/codec/string/StringDecoder.java  
\* /opt/cola/permits/1568674801\_1676616995.6618445/0/netty-codec-4-1-89-final-sources-  
jar/io/netty/handler/codec/ByteToMessageCodec.java  
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\* /opt/cola/permits/1568674801\_1676616995.6618445/0/netty-codec-4-1-89-final-sources-  
jar/io/netty/handler/codec/compression/EncoderUtil.java

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* /opt/cola/permits/1568674801_1676616995.6618445/0/netty-codec-4-1-89-final-sources-
jar/io/netty/handler/codec/EmptyHeaders.java
* /opt/cola/permits/1568674801_1676616995.6618445/0/netty-codec-4-1-89-final-sources-
jar/io/netty/handler/codec/Headers.java
* /opt/cola/permits/1568674801_1676616995.6618445/0/netty-codec-4-1-89-final-sources-
jar/io/netty/handler/codec/DefaultHeaders.java
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jar/io/netty/handler/codec/DateFormatter.java
* /opt/cola/permits/1568674801_1676616995.6618445/0/netty-codec-4-1-89-final-sources-
jar/io/netty/handler/codec/compression/ByteBufChecksum.java
* /opt/cola/permits/1568674801_1676616995.6618445/0/netty-codec-4-1-89-final-sources-
jar/io/netty/handler/codec/string/LineSeparator.java
```

\* /opt/cola/permits/1568674801\_1676616995.6618445/0/netty-codec-4-1-89-final-sources-jar/io/netty/handler/codec/CodecOutputList.java  
\* /opt/cola/permits/1568674801\_1676616995.6618445/0/netty-codec-4-1-89-final-sources-jar/io/netty/handler/codec/DatagramPacketDecoder.java  
\* /opt/cola/permits/1568674801\_1676616995.6618445/0/netty-codec-4-1-89-final-sources-jar/io/netty/handler/codec/string/LineEncoder.java  
\* /opt/cola/permits/1568674801\_1676616995.6618445/0/netty-codec-4-1-89-final-sources-jar/io/netty/handler/codec/compression/CompressionUtil.java  
\* /opt/cola/permits/1568674801\_1676616995.6618445/0/netty-codec-4-1-89-final-sources-jar/io/netty/handler/codec/DatagramPacketEncoder.java  
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\* /opt/cola/permits/1568674801\_1676616995.6618445/0/netty-codec-4-1-89-final-sources-jar/io/netty/handler/codec/compression/BrotliOptions.java  
\* /opt/cola/permits/1568674801\_1676616995.6618445/0/netty-codec-4-1-89-final-sources-jar/io/netty/handler/codec/compression/Brotli.java  
\* /opt/cola/permits/1568674801\_1676616995.6618445/0/netty-codec-4-1-89-final-sources-jar/io/netty/handler/codec/compression/StandardCompressionOptions.java  
\* /opt/cola/permits/1568674801\_1676616995.6618445/0/netty-codec-4-1-89-final-sources-jar/io/netty/handler/codec/compression/DeflateOptions.java  
\* /opt/cola/permits/1568674801\_1676616995.6618445/0/netty-codec-4-1-89-final-sources-jar/io/netty/handler/codec/compression/Zstd.java  
\* /opt/cola/permits/1568674801\_1676616995.6618445/0/netty-codec-4-1-89-final-sources-jar/io/netty/handler/codec/compression/ZstdConstants.java  
\* /opt/cola/permits/1568674801\_1676616995.6618445/0/netty-codec-4-1-89-final-sources-jar/io/netty/handler/codec/compression/GzipOptions.java  
\* /opt/cola/permits/1568674801\_1676616995.6618445/0/netty-codec-4-1-89-final-sources-jar/io/netty/handler/codec/compression/BrotliDecoder.java  
\* /opt/cola/permits/1568674801\_1676616995.6618445/0/netty-codec-4-1-89-final-sources-jar/io/netty/handler/codec/compression/ZstdEncoder.java  
\* /opt/cola/permits/1568674801\_1676616995.6618445/0/netty-codec-4-1-89-final-sources-

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jar/io/netty/handler/codec/compression/BrotliEncoder.java
* /opt/cola/permits/1568674801_1676616995.6618445/0/netty-codec-4-1-89-final-sources-
jar/io/netty/handler/codec/compression/ZstdOptions.java
* /opt/cola/permits/1568674801_1676616995.6618445/0/netty-codec-4-1-89-final-sources-
jar/io/netty/handler/codec/compression/CompressionOptions.java
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image/io.netty/netty-codec/native-image.properties
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```

```
*/
```

```
/*
```

```
* Written by Robert Harder and released to the public domain, as explained at
```

```
* https://creativecommons.org/licenses/publicdomain
```

```
*/
```

```
/**
```

```
* Utility class for { @link ByteBuffer } that encodes and decodes to and from
```

```
* Base64 notation.
```

```
* <p>
```

```
* The encoding and decoding algorithm in this class has been derived from
```

```
* Robert Harder's Public Domain
```

```
* Base64 Encoder/Decoder.
```

```
*/
```

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```
* /opt/cola/permits/1568674801_1676616995.6618445/0/netty-codec-4-1-89-final-sources-
jar/io/netty/handler/codec/base64/Base64.java
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 */
/**
 * A decoder that splits the received {@link ByteBuf}s dynamically by the
 * value of the length field in the message. It is particularly useful when you
 * decode a binary message which has an integer header field that represents the
 * length of the message body or the whole message.
 *
 * <p>
 * {@link LengthFieldBasedFrameDecoder} has many configuration parameters so
 * that it can decode any message with a length field, which is often seen in
 * proprietary client-server protocols. Here are some example that will give
 * you the basic idea on which option does what.
 *
 * <h3>2 bytes length field at offset 0, do not strip header</h3>
 *
 * The value of the length field in this example is <tt>12 (0x0C)</tt> which
 * represents the length of "HELLO, WORLD". By default, the decoder assumes
 * that the length field represents the number of the bytes that follows the
 * length field. Therefore, it can be decoded with the simplistic parameter
 * combination.
 *
 * <pre>
 * lengthFieldOffset = 0
 * lengthFieldLength = 2
 * lengthAdjustment = 0
 * initialBytesToStrip = 0 (= do not strip header)
 *
 * BEFORE DECODE (14 bytes) AFTER DECODE (14 bytes)
 * +-----+-----+ +-----+-----+
 * | Length | Actual Content |---->| Length | Actual Content |
 * | 0x000C | "HELLO, WORLD" | | 0x000C | "HELLO, WORLD" |
 * +-----+-----+ +-----+-----+
 * </pre>
 */
```

```

* <h3>2 bytes length field at offset 0, strip header</h3>
*
* Because we can get the length of the content by calling
* { @link ByteBuf#readableBytes() }, you might want to strip the length
* field by specifying <tt>initialBytesToStrip</tt>. In this example, we
* specified <tt>2</tt>, that is same with the length of the length field, to
* strip the first two bytes.
* <pre>
* lengthFieldOffset = 0
* lengthFieldLength = 2
* lengthAdjustment = 0
* initialBytesToStrip = 2 (= the length of the Length field)
*
* BEFORE DECODE (14 bytes) AFTER DECODE (12 bytes)
* +-----+-----+ +-----+
* | Length | Actual Content |---->| Actual Content |
* | 0x000C | "HELLO, WORLD" | | "HELLO, WORLD" |
* +-----+-----+ +-----+
* </pre>
*
* <h3>2 bytes length field at offset 0, do not strip header, the length field
* represents the length of the whole message</h3>
*
* In most cases, the length field represents the length of the message body
* only, as shown in the previous examples. However, in some protocols, the
* length field represents the length of the whole message, including the
* message header. In such a case, we specify a non-zero
* <tt>lengthAdjustment</tt>. Because the length value in this example message
* is always greater than the body length by <tt>2</tt>, we specify <tt>-2</tt>
* as <tt>lengthAdjustment</tt> for compensation.
* <pre>
* lengthFieldOffset = 0
* lengthFieldLength = 2
* lengthAdjustment = -2 (= the length of the Length field)
* initialBytesToStrip = 0
*
* BEFORE DECODE (14 bytes) AFTER DECODE (14 bytes)
* +-----+-----+ +-----+-----+
* | Length | Actual Content |---->| Length | Actual Content |
* | 0x000E | "HELLO, WORLD" | | 0x000E | "HELLO, WORLD" |
* +-----+-----+ +-----+-----+
* </pre>
*
* <h3>3 bytes length field at the end of 5 bytes header, do not strip header</h3>
*
* The following message is a simple variation of the first example. An extra
* header value is prepended to the message. <tt>lengthAdjustment</tt> is zero
* again because the decoder always takes the length of the prepended data into

```

```

* account during frame length calculation.
* <pre>
* lengthFieldOffset = 2 (= the length of Header 1)
* lengthFieldLength = 3
* lengthAdjustment = 0
* initialBytesToStrip = 0
*
* BEFORE DECODE (17 bytes) AFTER DECODE (17 bytes)
* +-----+-----+-----+ +-----+-----+-----+
* | Header 1 | Length | Actual Content |---->| Header 1 | Length | Actual Content |
* | 0xCAFE | 0x00000C | "HELLO, WORLD" | | 0xCAFE | 0x00000C | "HELLO, WORLD" |
* +-----+-----+-----+ +-----+-----+-----+
* </pre>
*
* <h3>3 bytes length field at the beginning of 5 bytes header, do not strip header</h3>
*
* This is an advanced example that shows the case where there is an extra
* header between the length field and the message body. You have to specify a
* positive <tt>lengthAdjustment</tt> so that the decoder counts the extra
* header into the frame length calculation.
* <pre>
* lengthFieldOffset = 0
* lengthFieldLength = 3
* lengthAdjustment = 2 (= the length of Header 1)
* initialBytesToStrip = 0
*
* BEFORE DECODE (17 bytes) AFTER DECODE (17 bytes)
* +-----+-----+-----+ +-----+-----+-----+
* | Length | Header 1 | Actual Content |---->| Length | Header 1 | Actual Content |
* | 0x00000C | 0xCAFE | "HELLO, WORLD" | | 0x00000C | 0xCAFE | "HELLO, WORLD" |
* +-----+-----+-----+ +-----+-----+-----+
* </pre>
*
* <h3>2 bytes length field at offset 1 in the middle of 4 bytes header,
* strip the first header field and the length field</h3>
*
* This is a combination of all the examples above. There are the prepended
* header before the length field and the extra header after the length field.
* The prepended header affects the <tt>lengthFieldOffset</tt> and the extra
* header affects the <tt>lengthAdjustment</tt>. We also specified a non-zero
* <tt>initialBytesToStrip</tt> to strip the length field and the prepended
* header from the frame. If you don't want to strip the prepended header, you
* could specify <tt>0</tt> for <tt>initialBytesToSkip</tt>.
* <pre>
* lengthFieldOffset = 1 (= the length of HDR1)
* lengthFieldLength = 2
* lengthAdjustment = 1 (= the length of HDR2)
* initialBytesToStrip = 3 (= the length of HDR1 + LEN)

```



```

*
* BEFORE DECODE (16 bytes) AFTER DECODE (13 bytes)
* +-----+-----+-----+-----+-----+ +-----+-----+
* | HDR1 | Length | HDR2 | Actual Content |---->| HDR2 | Actual Content |
* | 0xCA | 0x000C | 0xFE | "HELLO, WORLD" | | 0xFE | "HELLO, WORLD" |
* +-----+-----+-----+-----+-----+ +-----+-----+
* </pre>
*
* <h3>2 bytes length field at offset 1 in the middle of 4 bytes header,
* strip the first header field and the length field, the length field
* represents the length of the whole message</h3>
*
* Let's give another twist to the previous example. The only difference from
* the previous example is that the length field represents the length of the
* whole message instead of the message body, just like the third example.
* We have to count the length of HDR1 and Length into <tt>lengthAdjustment</tt>.
* Please note that we don't need to take the length of HDR2 into account
* because the length field already includes the whole header length.
* <pre>
* lengthFieldOffset = 1
* lengthFieldLength = 2
* lengthAdjustment = -3 (= the length of HDR1 + LEN, negative)
* initialBytesToStrip = 3
*
* BEFORE DECODE (16 bytes) AFTER DECODE (13 bytes)
* +-----+-----+-----+-----+-----+ +-----+-----+
* | HDR1 | Length | HDR2 | Actual Content |---->| HDR2 | Actual Content |
* | 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" | | 0xFE | "HELLO, WORLD" |
* +-----+-----+-----+-----+-----+ +-----+-----+
* </pre>
* @see LengthFieldPrepender
*/

```

Found in path(s):

```

* /opt/cola/permits/1568674801_1676616995.6618445/0/netty-codec-4-1-89-final-sources-
jar/io/netty/handler/codec/LengthFieldBasedFrameDecoder.java

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jar/io/netty/handler/codec/compression/JdkZlibDecoder.java

\* /opt/cola/permits/1568674801\_1676616995.6618445/0/netty-codec-4-1-89-final-sources-  
jar/io/netty/handler/codec/xml/XmlFrameDecoder.java

\* /opt/cola/permits/1568674801\_1676616995.6618445/0/netty-codec-4-1-89-final-sources-  
jar/io/netty/handler/codec/compression/Crc32c.java

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\* /opt/cola/permits/1568674801\_1676616995.6618445/0/netty-codec-4-1-89-final-sources-jar/io/netty/handler/codec/ProtocolDetectionState.java  
\* /opt/cola/permits/1568674801\_1676616995.6618445/0/netty-codec-4-1-89-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufDecoder.java  
\* /opt/cola/permits/1568674801\_1676616995.6618445/0/netty-codec-4-1-89-final-sources-jar/io/netty/handler/codec/UnsupportedValueConverter.java  
\* /opt/cola/permits/1568674801\_1676616995.6618445/0/netty-codec-4-1-89-final-sources-jar/io/netty/handler/codec/HeadersUtils.java  
\* /opt/cola/permits/1568674801\_1676616995.6618445/0/netty-codec-4-1-89-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufEncoder.java  
\* /opt/cola/permits/1568674801\_1676616995.6618445/0/netty-codec-4-1-89-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufVarint32LengthFieldPrepender.java  
\* /opt/cola/permits/1568674801\_1676616995.6618445/0/netty-codec-4-1-89-final-sources-jar/io/netty/handler/codec/ProtocolDetectionResult.java  
\* /opt/cola/permits/1568674801\_1676616995.6618445/0/netty-codec-4-1-89-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufEncoderNano.java  
\* /opt/cola/permits/1568674801\_1676616995.6618445/0/netty-codec-4-1-89-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufVarint32FrameDecoder.java  
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```
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INF/maven/io.netty/netty-codec/pom.xml
```

## 1.84 spring-cloud-openfeign-core 3.1.6

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  - \* /opt/cola/permits/1594604578\_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-jar/org/springframework/cloud/openfeign/hateoas/WebConvertersCustomizer.java
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- \* /opt/cola/permits/1594604578\_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-jar/org/springframework/cloud/openfeign/encoding/FeignContentGzipEncodingAutoConfiguration.java
- \* /opt/cola/permits/1594604578\_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-jar/org/springframework/cloud/openfeign/support/SpringMvcContract.java
- \* /opt/cola/permits/1594604578\_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-jar/org/springframework/cloud/openfeign/encoding/FeignAcceptGzipEncodingAutoConfiguration.java

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jar/org/springframework/cloud/openfeign/FeignCachingInvocationHandlerFactory.java
* /opt/cola/permits/1594604578_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-
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* /opt/cola/permits/1594604578_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-
jar/org/springframework/cloud/openfeign/support/SpringDecoder.java
* /opt/cola/permits/1594604578_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-
jar/org/springframework/cloud/openfeign/FeignCircuitBreakerTargeter.java
* /opt/cola/permits/1594604578_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-
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* /opt/cola/permits/1594604578_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-
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* /opt/cola/permits/1594604578_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-
jar/org/springframework/cloud/openfeign/support/SortJacksonModule.java
* /opt/cola/permits/1594604578_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-
jar/org/springframework/cloud/openfeign/CollectionFormat.java
* /opt/cola/permits/1594604578_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-
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* /opt/cola/permits/1594604578_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-
jar/org/springframework/cloud/openfeign/annotation/RequestPartParameterProcessor.java
* /opt/cola/permits/1594604578_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-
jar/org/springframework/cloud/openfeign/loadbalancer/OnRetryNotEnabledCondition.java
* /opt/cola/permits/1594604578_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-
jar/org/springframework/cloud/openfeign/FeignClientProperties.java
* /opt/cola/permits/1594604578_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-
jar/org/springframework/cloud/openfeign/EnableFeignClients.java
* /opt/cola/permits/1594604578_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-
jar/org/springframework/cloud/openfeign/clientconfig/HttpClientFeignConfiguration.java
* /opt/cola/permits/1594604578_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-
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jar/org/springframework/cloud/openfeign/support/FeignEncoderProperties.java  
\* /opt/cola/permits/1594604578\_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-  
jar/org/springframework/cloud/openfeign/FeignClientFactoryBean.java  
\* /opt/cola/permits/1594604578\_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-  
jar/org/springframework/cloud/openfeign/annotation/CookieValueParameterProcessor.java  
\* /opt/cola/permits/1594604578\_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-  
jar/org/springframework/cloud/openfeign/annotation/RequestParamParameterProcessor.java  
\* /opt/cola/permits/1594604578\_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-  
jar/org/springframework/cloud/openfeign/clientconfig/FeignClientConfigurer.java  
\* /opt/cola/permits/1594604578\_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-  
jar/org/springframework/cloud/openfeign/loadbalancer/DefaultFeignLoadBalancerConfiguration.java  
\* /opt/cola/permits/1594604578\_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-  
jar/org/springframework/cloud/openfeign/AnnotatedParameterProcessor.java  
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jar/org/springframework/cloud/openfeign/Targeter.java  
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jar/org/springframework/cloud/openfeign/CircuitBreakerNameResolver.java  
\* /opt/cola/permits/1594604578\_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-  
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\* /opt/cola/permits/1594604578\_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-  
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jar/org/springframework/cloud/openfeign/support/EmptyObjectProvider.java  
\* /opt/cola/permits/1594604578\_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-  
jar/org/springframework/cloud/openfeign/support/SortJsonComponent.java  
\* /opt/cola/permits/1594604578\_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-  
jar/org/springframework/cloud/openfeign/loadbalancer/HttpClient5FeignLoadBalancerConfiguration.java  
\* /opt/cola/permits/1594604578\_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-  
jar/org/springframework/cloud/openfeign/support/FeignUtils.java  
\* /opt/cola/permits/1594604578\_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-  
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\* /opt/cola/permits/1594604578\_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-  
jar/org/springframework/cloud/openfeign/CachingCapability.java  
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jar/org/springframework/cloud/openfeign/loadbalancer/FeignBlockingLoadBalancerClient.java  
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jar/org/springframework/cloud/openfeign/support/ResponseEntityDecoder.java  
\* /opt/cola/permits/1594604578\_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-  
jar/org/springframework/cloud/openfeign/FeignClientBuilder.java  
\* /opt/cola/permits/1594604578\_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-  
jar/org/springframework/cloud/openfeign/encoding/BaseRequestInterceptor.java  
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jar/org/springframework/cloud/openfeign/support/PageJacksonModule.java  
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jar/org/springframework/cloud/openfeign/FeignContext.java  
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jar/org/springframework/cloud/openfeign/loadbalancer/FeignLoadBalancerAutoConfiguration.java  
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jar/org/springframework/cloud/openfeign/annotation/MatrixVariableParameterProcessor.java  
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jar/org/springframework/cloud/openfeign/FeignFormatterRegistrar.java  
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jar/org/springframework/cloud/openfeign/OptionsFactoryBean.java  
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jar/org/springframework/cloud/openfeign/DefaultTargeter.java  
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jar/org/springframework/cloud/openfeign/support/FeignHttpClientProperties.java  
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jar/org/springframework/cloud/openfeign/support/PageableSpringQueryMapEncoder.java  
\* /opt/cola/permits/1594604578\_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-  
jar/org/springframework/cloud/openfeign/support/JsonFormWriter.java  
\* /opt/cola/permits/1594604578\_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-  
jar/org/springframework/cloud/openfeign/FallbackFactory.java  
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jar/org/springframework/cloud/openfeign/annotation/PathVariableParameterProcessor.java  
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jar/org/springframework/cloud/openfeign/clientconfig/OkHttpFeignConfiguration.java  
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\* /opt/cola/permits/1594604578\_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-  
jar/org/springframework/cloud/openfeign/HttpClient5DisabledConditions.java  
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jar/org/springframework/cloud/openfeign/loadbalancer/LoadBalancerResponseStatusCodeException.java  
\* /opt/cola/permits/1594604578\_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-  
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\* /opt/cola/permits/1594604578\_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-  
jar/org/springframework/cloud/openfeign/SpringQueryMap.java  
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jar/org/springframework/cloud/openfeign/FeignClient.java  
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jar/org/springframework/cloud/openfeign/loadbalancer/OkHttpFeignLoadBalancerConfiguration.java  
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```

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\* /opt/cola/permits/1594604578\_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-

jar/org/springframework/cloud/openfeign/encoding/OkHttpClientBeanMissingCondition.java  
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* /opt/cola/permits/1594604578_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-
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jar/org/springframework/cloud/openfeign/security/OAuth2FeignRequestInterceptorConfigurer.java
* /opt/cola/permits/1594604578_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-
jar/org/springframework/cloud/openfeign/security/OAuth2FeignRequestInterceptor.java
* /opt/cola/permits/1594604578_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-
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```
* /opt/cola/permits/1594604578_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-
jar/org/springframework/cloud/openfeign/FeignClientMetricsEnabledCondition.java
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jar/org/springframework/cloud/openfeign/hateoas/FeignHalAutoConfiguration.java
* /opt/cola/permits/1594604578_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-
jar/org/springframework/cloud/openfeign/FeignLoggerFactory.java
* /opt/cola/permits/1594604578_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-
jar/org/springframework/cloud/openfeign/DefaultFeignLoggerFactory.java
```

# 1.85 bouncy-castle 1.69

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## 1.89 swagger-models 2.2.7

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jar/org/HdrHistogram/DoubleRecordedValuesIterator.java  
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jar/org/HdrHistogram/EncodableHistogram.java  
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jar/org/HdrHistogram/HistogramLogScanner.java  
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jar/org/HdrHistogram/packedarray/PackedArrayRecorder.java  
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```

```
package org.HdrHistogram;
```

```
final class Version {
 public static final String version="$VERSION$";
 public static final String build_time="$BUILD_TIMES$";
}
```

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```
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Found in path(s):

```
* /opt/cola/permits/1548384973_1675144101.356907/0/auto-service-annotations-1-0-1-sources-1-
jar/com/google/auto/service/AutoService.java
```

## 1.93 jetty 9.4.50.v20221201

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\* org.eclipse.jetty.orbit:javax.security.auth.message

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\* org.eclipse.jetty.orbit:javax.mail.glassfish

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

- \* javax.servlet:javax.servlet-api
- \* javax.annotation:javax.annotation-api
- \* javax.transaction:javax.transaction-api
- \* javax.websocket:javax.websocket-api

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Oracle OpenJDK

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- \* java.sun.security.ssl

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<http://openjdk.java.net/legal/gplv2+ce.html>

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org.ow2.asm:asm-commons  
org.ow2.asm:asm

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org.apache.tomcat:tomcat-jasper  
org.apache.tomcat:tomcat-juli  
org.apache.tomcat:tomcat-jsp-api  
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org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-api  
org.apache.tomcat:tomcat-util-scan  
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-el-api

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org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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jar/org/openqa/selenium/chrome/ChromeDriverInfo.java
* /opt/cola/permits/1612247597_1680503819.5495088/0/selenium-chrome-driver-4-2-0-sources-
jar/org/openqa/selenium/chrome/ChromeDriverLogLevel.java
* /opt/cola/permits/1612247597_1680503819.5495088/0/selenium-chrome-driver-4-2-0-sources-
jar/org/openqa/selenium/chrome/AddHasCasting.java
* /opt/cola/permits/1612247597_1680503819.5495088/0/selenium-chrome-driver-4-2-0-sources-
jar/org/openqa/selenium/chrome/AddHasCdp.java
* /opt/cola/permits/1612247597_1680503819.5495088/0/selenium-chrome-driver-4-2-0-sources-
jar/org/openqa/selenium/chrome/ChromeDriver.java
* /opt/cola/permits/1612247597_1680503819.5495088/0/selenium-chrome-driver-4-2-0-sources-
jar/org/openqa/selenium/chrome/ChromeOptions.java
* /opt/cola/permits/1612247597_1680503819.5495088/0/selenium-chrome-driver-4-2-0-sources-
jar/org/openqa/selenium/chrome/ChromeDriverService.java
```

## 1.96 java-cacerts 1.0-r1

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Bnd-LastModified: 1644737816481

Build-Jdk: 11.0.14

Built-By: uriel

Bundle-Description: Java reflect give poor performance on getter setter  
r an constructor calls, accessors-smart use ASM to speed up those calls.

Bundle-DocURL: <https://urielch.github.io/>

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Bundle-ManifestVersion: 2

Bundle-Name: accessors-smart

Bundle-SymbolicName: net.minidev.accessors-smart

Bundle-Vendor: Chemouni Uriel  
Bundle-Version: 2.4.8  
Created-By: Apache Maven Bundle Plugin  
Export-Package: net.minidev.asm;uses:="org.objectweb.asm";version="2.4.8",net.minidev.asm.ex;version="2.4.8"  
Import-Package: org.objectweb.asm;version="[8.0,10)",net.minidev.asm.e  
x  
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.8))"  
Tool: Bnd-5.1.1.202006162103

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# 1.100 quartz 2.3.2

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## 1.101 jaxb-api 2.3.1

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# 1.102 jackson 2.13.5

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## 1.103 javax-inject 1

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\* /opt/cola/permits/1568674963\_1676616950.4538956/0/netty-handler-4-1-89-final-sources-jar/io/netty/handler/ssl/JdkBaseApplicationProtocolNegotiator.java  
\* /opt/cola/permits/1568674963\_1676616950.4538956/0/netty-handler-4-1-89-final-sources-jar/io/netty/handler/ssl/SslUtils.java  
\* /opt/cola/permits/1568674963\_1676616950.4538956/0/netty-handler-4-1-89-final-sources-jar/io/netty/handler/ssl/util/FingerprintTrustManagerFactory.java  
\* /opt/cola/permits/1568674963\_1676616950.4538956/0/netty-handler-4-1-89-final-sources-jar/io/netty/handler/ssl/JdkSslContext.java  
\* /opt/cola/permits/1568674963\_1676616950.4538956/0/netty-handler-4-1-89-final-sources-jar/io/netty/handler/ssl/JdkSslEngine.java  
\* /opt/cola/permits/1568674963\_1676616950.4538956/0/netty-handler-4-1-89-final-sources-jar/io/netty/handler/ssl/JdkNpnApplicationProtocolNegotiator.java  
\* /opt/cola/permits/1568674963\_1676616950.4538956/0/netty-handler-4-1-89-final-sources-jar/io/netty/handler/ssl/JettyAlpnSslEngine.java  
\* /opt/cola/permits/1568674963\_1676616950.4538956/0/netty-handler-4-1-89-final-sources-jar/io/netty/handler/ssl/OpenSslDefaultApplicationProtocolNegotiator.java  
\* /opt/cola/permits/1568674963\_1676616950.4538956/0/netty-handler-4-1-89-final-sources-jar/io/netty/handler/ssl/SslProvider.java  
\* /opt/cola/permits/1568674963\_1676616950.4538956/0/netty-handler-4-1-89-final-sources-jar/io/netty/handler/ssl/OpenSslServerContext.java  
\* /opt/cola/permits/1568674963\_1676616950.4538956/0/netty-handler-4-1-89-final-sources-jar/io/netty/handler/ssl/CipherSuiteConverter.java  
\* /opt/cola/permits/1568674963\_1676616950.4538956/0/netty-handler-4-1-89-final-sources-jar/io/netty/handler/ssl/OpenSslNpnApplicationProtocolNegotiator.java  
\* /opt/cola/permits/1568674963\_1676616950.4538956/0/netty-handler-4-1-89-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolUtil.java

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jar/io/netty/handler/ssl/OpenSslKeyMaterialProvider.java  
\* /opt/cola/permits/1568674963\_1676616950.4538956/0/netty-handler-4-1-89-final-sources-  
jar/io/netty/handler/ssl/OpenSslPrivateKey.java  
\* /opt/cola/permits/1568674963\_1676616950.4538956/0/netty-handler-4-1-89-final-sources-  
jar/io/netty/handler/ssl/OpenSslKeyMaterial.java  
\* /opt/cola/permits/1568674963\_1676616950.4538956/0/netty-handler-4-1-89-final-sources-  
jar/io/netty/handler/ssl/OpenSslX509TrustManagerWrapper.java  
\* /opt/cola/permits/1568674963\_1676616950.4538956/0/netty-handler-4-1-89-final-sources-  
jar/io/netty/handler/ssl/SignatureAlgorithmConverter.java  
\* /opt/cola/permits/1568674963\_1676616950.4538956/0/netty-handler-4-1-89-final-sources-  
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\* /opt/cola/permits/1568674963\_1676616950.4538956/0/netty-handler-4-1-89-final-sources-  
jar/io/netty/handler/ssl/OpenSslCachingKeyMaterialProvider.java  
\* /opt/cola/permits/1568674963\_1676616950.4538956/0/netty-handler-4-1-89-final-sources-  
jar/io/netty/handler/ssl/OpenSslCachingX509KeyManagerFactory.java  
\* /opt/cola/permits/1568674963\_1676616950.4538956/0/netty-handler-4-1-89-final-sources-  
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\* /opt/cola/permits/1568674963\_1676616950.4538956/0/netty-handler-4-1-89-final-sources-  
jar/io/netty/handler/ssl/DefaultOpenSslKeyMaterial.java

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jar/io/netty/handler/pcap/State.java

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\* /opt/cola/permits/1568674963\_1676616950.4538956/0/netty-handler-4-1-89-final-sources-jar/io/netty/handler/ssl/Conscrypt.java  
\* /opt/cola/permits/1568674963\_1676616950.4538956/0/netty-handler-4-1-89-final-sources-jar/io/netty/handler/ssl/SslCompletionEvent.java  
\* /opt/cola/permits/1568674963\_1676616950.4538956/0/netty-handler-4-1-89-final-sources-jar/io/netty/handler/ssl/ocsp/package-info.java  
\* /opt/cola/permits/1568674963\_1676616950.4538956/0/netty-handler-4-1-89-final-sources-jar/io/netty/handler/ssl/JdkAlpnSslUtils.java  
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\* /opt/cola/permits/1568674963\_1676616950.4538956/0/netty-handler-4-1-89-final-sources-jar/io/netty/handler/ssl/AbstractSniHandler.java  
\* /opt/cola/permits/1568674963\_1676616950.4538956/0/netty-handler-4-1-89-final-sources-jar/io/netty/handler/ssl/ConscryptAlpnSslEngine.java  
\* /opt/cola/permits/1568674963\_1676616950.4538956/0/netty-handler-4-1-89-final-sources-jar/io/netty/handler/ssl/ocsp/OcspClientHandler.java  
\* /opt/cola/permits/1568674963\_1676616950.4538956/0/netty-handler-4-1-89-final-sources-jar/io/netty/handler/ssl/SslClientHelloHandler.java  
\* /opt/cola/permits/1568674963\_1676616950.4538956/0/netty-handler-4-1-89-final-sources-jar/io/netty/handler/ssl/JdkAlpnSslEngine.java  
\* /opt/cola/permits/1568674963\_1676616950.4538956/0/netty-handler-4-1-89-final-sources-jar/io/netty/handler/ssl/SniCompletionEvent.java

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\*/opt/cola/permits/1568674963\_1676616950.4538956/0/netty-handler-4-1-89-final-sources-jar/io/netty/handler/ssl/OpenSslSessionTicketKey.java

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\* /opt/cola/permits/1568674963\_1676616950.4538956/0/netty-handler-4-1-89-final-sources-jar/io/netty/handler/ssl/PseudoRandomFunction.java  
\* /opt/cola/permits/1568674963\_1676616950.4538956/0/netty-handler-4-1-89-final-sources-jar/io/netty/handler/ssl/util/KeyManagerFactoryWrapper.java  
\* /opt/cola/permits/1568674963\_1676616950.4538956/0/netty-handler-4-1-89-final-sources-jar/io/netty/handler/address/DynamicAddressConnectHandler.java  
\* /opt/cola/permits/1568674963\_1676616950.4538956/0/netty-handler-4-1-89-final-sources-jar/io/netty/handler/ssl/util/X509KeyManagerWrapper.java  
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\* /opt/cola/permits/1568674963\_1676616950.4538956/0/netty-handler-4-1-89-final-sources-jar/io/netty/handler/ssl/util/SimpleKeyManagerFactory.java  
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- \* /opt/cola/permits/1568674963\_1676616950.4538956/0/netty-handler-4-1-89-final-sources-jar/io/netty/handler/timeout/IdleStateEvent.java
- \* /opt/cola/permits/1568674963\_1676616950.4538956/0/netty-handler-4-1-89-final-sources-jar/io/netty/handler/timeout/WriteTimeoutHandler.java
- \* /opt/cola/permits/1568674963\_1676616950.4538956/0/netty-handler-4-1-89-final-sources-jar/io/netty/handler/timeout/IdleState.java
- \* /opt/cola/permits/1568674963\_1676616950.4538956/0/netty-handler-4-1-89-final-sources-jar/io/netty/handler/ssl/NotSslRecordException.java
- \* /opt/cola/permits/1568674963\_1676616950.4538956/0/netty-handler-4-1-89-final-sources-jar/io/netty/handler/stream/ChunkedNioFile.java
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jar/io/netty/handler/stream/ChunkedInput.java

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jar/io/netty/handler/ssl/PemX509Certificate.java

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jar/io/netty/handler/ssl/ReferenceCountedOpenSslEngine.java

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jar/io/netty/handler/ssl/OpenSslCertificateException.java

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jar/io/netty/handler/ssl/ReferenceCountedOpenSslContext.java

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jar/io/netty/handler/ssl/Java8SslUtils.java

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jar/io/netty/handler/flush/package-info.java
* /opt/cola/permits/1568674963_1676616950.4538956/0/netty-handler-4-1-89-final-sources-
jar/io/netty/handler/ssl/PemValue.java
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jar/io/netty/handler/ssl/util/FingerprintTrustManagerFactoryBuilder.java
```

```
* /opt/cola/permits/1568674963_1676616950.4538956/0/netty-handler-4-1-89-final-sources-
jar/io/netty/handler/ssl/SslClosedEngineException.java
```

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* /opt/cola/permits/1568674963_1676616950.4538956/0/netty-handler-4-1-89-final-sources-
jar/io/netty/handler/ipfilter/IpSubnetFilter.java
```

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* /opt/cola/permits/1568674963_1676616950.4538956/0/netty-handler-4-1-89-final-sources-
jar/io/netty/handler/address/ResolveAddressHandler.java
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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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Version 3, 29 June 2007

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-----  
Eclipse

The following artifacts are EPL.

\* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.

\* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.

\* org.eclipse.jetty.orbit:javax.mail.glassfish

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## Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.  
<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

- \* javax.servlet:javax.servlet-api
- \* javax.annotation:javax.annotation-api
- \* javax.transaction:javax.transaction-api
- \* javax.websocket:javax.websocket-api

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## Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

- \* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

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## OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

org.ow2.asm:asm-commons  
org.ow2.asm:asm

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## Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec  
org.apache.taglibs:taglibs-standard-impl

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## MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp  
org.apache.tomcat:tomcat-jasper  
org.apache.tomcat:tomcat-juli  
org.apache.tomcat:tomcat-jsp-api  
org.apache.tomcat:tomcat-el-api  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-api  
org.apache.tomcat:tomcat-util-scan  
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-el-api

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Mortbay

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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\*/

Found in path(s):

\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/Validator.java  
\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/CascadableDescriptor.java  
\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ConstraintTarget.java  
\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/FutureOrPresent.java  
\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/Null.java  
\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ConstraintValidatorContext.java  
\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/ExecutableDescriptor.java  
\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/groups/Default.java  
\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/MessageInterpolator.java  
\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/package-info.java  
\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/valueextraction/Unwrapping.java  
\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/valueextraction/ValueExtractor.java  
\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraintvalidation/ValidationTarget.java  
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\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/UnexpectedTypeException.java  
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jar/javax/validation/ConstraintDefinitionException.java  
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jar/javax/validation/spi/ValidationProvider.java  
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jar/javax/validation/ElementKind.java  
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jar/javax/validation/Path.java  
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jar/javax/validation/groups/ConvertGroup.java  
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jar/javax/validation/constraints/DecimalMin.java

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jar/javax/validation/constraints/Past.java

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Comments to: <[bean-validation-dev@eclipse.org](mailto:bean-validation-dev@eclipse.org)></a><br>

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Found in path(s):

\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/META-

INF/maven/jakarta.validation/jakarta.validation-api/pom.xml

## 1.109 expat 2.5.0-r0

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# 1.110 websocket-client 9.4.50.v20221201

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Eclipse

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\* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.

\* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.

\* org.eclipse.jetty.orbit:javax.mail.glassfish

-----

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

\* javax.servlet:javax.servlet-api

\* javax.annotation:javax.annotation-api

\* javax.transaction:javax.transaction-api

\* javax.websocket:javax.websocket-api

-----

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

\* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

org.ow2.asm:asm-commons  
org.ow2.asm:asm

-----

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec  
org.apache.taglibs:taglibs-standard-impl

-----

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp  
org.apache.tomcat:tomcat-jasper  
org.apache.tomcat:tomcat-juli  
org.apache.tomcat:tomcat-jsp-api  
org.apache.tomcat:tomcat-el-api  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-api  
org.apache.tomcat:tomcat-util-scan  
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-el-api

-----

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

-----

Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville. Permission to use, copy, modify and distribute UnixCrypt for non-commercial or commercial purposes and without fee is granted provided that the copyright notice appears in all copies.

## 1.111 libfontenc 1.1.4-r0

### 1.111.1 Available under license :

```
Maintainer: Natanael Copa <ncopa@alpinelinux.org>
pkgname=libart-lgpl
pkgver=2.3.21
pkgrel=6
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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Maintainer: Fabian Affolter <fabian@affolter-engineering.ch>
pkgname=py3-flake8-copyright
_pkgname=flake8-copyright
pkgver=0.2.2
pkgrel=1
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"
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() {
 python3 setup.py build
}

package() {
 python3 setup.py install --prefix=/usr --root="$pkgdir"
}

sha512sums="8ade49f386e67d14e4b826946b947454cf2502ff249a9ab1d359f61fa42ebc2b17dd465708894cf82ffd15
3f0be1bed746464220d40d9d4dc1b07940ec280f28 flake8-copyright-0.2.2.tar.gz"
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```

see http://www.sqlite.org/copyright.html
Automatically generated by apkgbuild-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=1.2911
pkgrel=4
pkgdesc="Perl extension implements the BSD process resource limit functions"
url="https://metacpan.org/release/BSD-Resource"
arch="all"
license="GPL-1.0-or-later OR Artistic-1.0-Perl"
makedepends="perl-dev"
subpackages="$pkgname-doc"
source="https://cpan.metacpan.org/authors/id/J/JH/JHI/$_pkgreal-$pkgver.tar.gz"

builddir="$srcdir/${_pkgreal}-$pkgver"

prepare() {
 default_prepare

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

build() {
 export CFLAGS=$(perl -MConfig -E 'say $Config{ccflags}')
 make
}

check() {
 make test
}

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

sha512sums="d0032d41c7c0468ed1c6d8f57b885f6cb97a5039d754c8cb60b2067daedaf53bd15fb6561a3d0f828df16
dfa5417f663b8065ba65f4fea16dc9262728b3b6b85 BSD-Resource-1.2911.tar.gz"
GNU AFFERO GENERAL PUBLIC LICENSE
Version 3, 19 November 2007

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```

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# Contributor: Carlo Landmeter <clandmeter@alpinelinux.org>

# Maintainer: Kevin Daudt <kdaudt@alpinelinux.org>

pkgname=spdx-licenses

pkgver=3.8

pkgrel=0

pkgdesc="Various data formats for the SPDX License List"

url="https://spdx.org/"

arch="noarch"

options="!check"

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

build() {
 cd "$builddir"
}

package() {
 mkdir -p "$pkgdir"
}

_subpkg() {
 local type=${subpkgname/$pkgname-/}
 pkgdesc="$pkgdesc ($type)"
 install_if="$pkgname"
 mkdir -p "$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="0950540df050fb7f7ce92f5ad1bf756725e233d701f0c5b2fc5bfa85dae65bba3400de7fd78b4b1d8a41de
ab4e461a5f1018f4869d9f3e0428a5a64c32c01c60 license-list-data-3.8.tar.gz"

```

# 1.112 eclipse-jgit 5.13.1.202206130422-r

## 1.112.1 Available under license :

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jar/org/eclipse/jgit/internal/storage/file/SimpleDataInput.java
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jar/org/eclipse/jgit/internal/storage/file/PackBitmapIndexBuilder.java
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jar/org/eclipse/jgit/internal/storage/dfs/BeforeDfsPackIndexLoadedEvent.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/lib/BitmapObject.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/internal/storage/pack/PackWriterBitmapPreparer.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
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jar/org/eclipse/jgit/internal/storage/file/PackBitmapIndexV1.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
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jar/org/eclipse/jgit/internal/storage/dfs/BeforeDfsPackIndexLoadedListener.java
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jar/org/eclipse/jgit/revwalk/BitmapWalker.java
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jar/org/eclipse/jgit/transport/RequestNotYetReadException.java
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jar/org/eclipse/jgit/transport/AdvertiseRefsHookChain.java
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\* A special exception thrown when { @link AutoLFInputStream } is told to  
\* throw an exception when attempting to read a binary file. The exception  
\* may be thrown at any stage during reading.  
\*  
\* @since 3.3  
\*/

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jar/org/eclipse/jgit/internal/storage/reftable/MergedReftable.java  
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jar/org/eclipse/jgit/internal/storage/reftable/EmptyLogCursor.java  
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jar/org/eclipse/jgit/lib/BlobObjectChecker.java  
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jar/org/eclipse/jgit/internal/storage/reftable/ReftableOutputStream.java  
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jar/org/eclipse/jgit/errors/CorruptPackIndexException.java  
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jar/org/eclipse/jgit/internal/storage/file/PackedBatchRefUpdate.java  
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jar/org/eclipse/jgit/internal/storage/reftable/LogCursor.java  
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jar/org/eclipse/jgit/internal/storage/dfs/DfsReftableStack.java  
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jar/org/eclipse/jgit/internal/storage/reftable/ReftableReader.java  
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jar/org/eclipse/jgit/internal/storage/reftable/BlockReader.java  
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jar/org/eclipse/jgit/internal/storage/dfs/DfsFsck.java  
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jar/org/eclipse/jgit/internal/revwalk/AddUnseenToBitmapFilter.java  
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jar/org/eclipse/jgit/internal/storage/reftable/BlockSizeTooSmallException.java  
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\* /opt/cola/permits/1612280025\_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/api/SubmoduleStatusCommand.java  
\* /opt/cola/permits/1612280025\_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/errors/LockFailedException.java  
\* /opt/cola/permits/1612280025\_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/api/SubmoduleSyncCommand.java  
\* /opt/cola/permits/1612280025\_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/submodule/SubmoduleWalk.java  
\* /opt/cola/permits/1612280025\_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/api/StashListCommand.java  
\* /opt/cola/permits/1612280025\_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/api/TransportCommand.java  
\* /opt/cola/permits/1612280025\_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/api/SubmoduleAddCommand.java  
\* /opt/cola/permits/1612280025\_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/submodule/SubmoduleStatus.java  
\* /opt/cola/permits/1612280025\_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/api/SubmoduleInitCommand.java  
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jar/org/eclipse/jgit/attributes/FilterCommandFactory.java  
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jar/org/eclipse/jgit/attributes/FilterCommand.java

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jar/org/eclipse/jgit/api/errors/AbortedByHookException.java
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* </p>
*
* @author Robert Harder
* @author rob@iharder.net
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jar/org/eclipse/jgit/internal/storage/dfs/DfsBlockCacheConfig.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/internal/storage/pack/IntSet.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/transport/PreUploadHook.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/internal/storage/dfs/DfsCachedPack.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/transport/PostReceiveHookChain.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/internal/storage/dfs/DfsRefUpdate.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
```

jar/org/eclipse/jgit/internal/storage/dfs/DfsGarbageCollector.java  
\* /opt/cola/permits/1612280025\_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-  
jar/org/eclipse/jgit/internal/storage/dfs/DeltaBaseCache.java  
\* /opt/cola/permits/1612280025\_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-  
jar/org/eclipse/jgit/internal/storage/dfs/DfsText.java  
\* /opt/cola/permits/1612280025\_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-  
jar/org/eclipse/jgit/transport/UploadPackInternalServerErrorException.java  
\* /opt/cola/permits/1612280025\_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-  
jar/org/eclipse/jgit/internal/storage/pack/CachedPack.java  
\* /opt/cola/permits/1612280025\_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-  
jar/org/eclipse/jgit/internal/storage/pack/BaseSearch.java  
\* /opt/cola/permits/1612280025\_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-  
jar/org/eclipse/jgit/blame/ReverseWalk.java  
\* /opt/cola/permits/1612280025\_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-  
jar/org/eclipse/jgit/internal/storage/dfs/DfsRepositoryBuilder.java  
\* /opt/cola/permits/1612280025\_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-  
jar/org/eclipse/jgit/util/io/CountingOutputStream.java  
\* /opt/cola/permits/1612280025\_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-  
jar/org/eclipse/jgit/internal/storage/dfs/DfsPacksChangedListener.java  
\* /opt/cola/permits/1612280025\_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-  
jar/org/eclipse/jgit/transport/TransportProtocol.java  
\* /opt/cola/permits/1612280025\_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-  
jar/org/eclipse/jgit/internal/storage/dfs/DfsRepositoryDescription.java  
\* /opt/cola/permits/1612280025\_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-  
jar/org/eclipse/jgit/internal/storage/dfs/DfsRefDatabase.java  
\* /opt/cola/permits/1612280025\_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-  
jar/org/eclipse/jgit/util/BlockList.java  
\* /opt/cola/permits/1612280025\_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-  
jar/org/eclipse/jgit/transport/PreUploadHookChain.java  
\* /opt/cola/permits/1612280025\_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-  
jar/org/eclipse/jgit/lib/ObjectIdOwnerMap.java  
\* /opt/cola/permits/1612280025\_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-  
jar/org/eclipse/jgit/internal/storage/file/LocalCachedPack.java  
\* /opt/cola/permits/1612280025\_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-  
jar/org/eclipse/jgit/internal/storage/dfs/DfsConfig.java  
\* /opt/cola/permits/1612280025\_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-  
jar/org/eclipse/jgit/internal/storage/dfs/DfsInserter.java  
\* /opt/cola/permits/1612280025\_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-  
jar/org/eclipse/jgit/internal/storage/dfs/DfsPackCompactor.java  
\* /opt/cola/permits/1612280025\_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-  
jar/org/eclipse/jgit/blame/BlameResult.java  
\* /opt/cola/permits/1612280025\_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-  
jar/org/eclipse/jgit/internal/storage/dfs/DfsObjectRepresentation.java  
\* /opt/cola/permits/1612280025\_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-  
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jar/org/eclipse/jgit/internal/storage/dfs/DfsObjectToPack.java  
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jar/org/eclipse/jgit/blame/Region.java

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jar/org/eclipse/jgit/internal/storage/dfs/DfsPackParser.java

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jar/org/eclipse/jgit/internal/storage/dfs/DfsRepository.java

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jar/org/eclipse/jgit/api/StashApplyCommand.java
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jar/org/eclipse/jgit/merge/MergeResult.java
```

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jar/org/eclipse/jgit/merge/MergeFormatter.java
```

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jar/org/eclipse/jgit/lib/DefaultTypedConfigGetter.java
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jar/org/eclipse/jgit/events/WorkingTreeModifiedEvent.java
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*/
/**
 * {@inheritDoc}
 * <p>
 * Free resources associated with this instance.
 * <p>
 * If the repository was opened by a static factory method in this class,
 * then this method calls {@link Repository#close()} on the underlying
 * repository instance. (Whether this actually releases underlying
 * resources, such as file handles, may vary; see {@link Repository} for
 * more details.)
 * <p>
 * If the repository was created by a caller and passed into
 * {@link #Git(Repository)} or a static factory method in this class, then
 * this method does not call close on the underlying repository.
 * <p>
 * In all cases, after calling this method you should not use this
 * {@link Git} instance anymore.
 *
 * @since 3.2
 */

```

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jar/org/eclipse/jgit/errors/UnmergedPathException.java  
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\* /opt/cola/permits/1612280025\_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/lib/ObjectBuilder.java

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/\*\*  
\* Fetch objects we don't have but that are reachable from advertised refs.  
\* <p>  
\* Only one call per connection is allowed. Subsequent calls will result in  
\* { @link org.eclipse.jgit.errors.TransportException }.  
\* </p>  
\* <p>  
\* Implementations are free to use network connections as necessary to  
\* efficiently (for both client and server) transfer objects from the remote  
\* repository into this repository. When possible implementations should  
\* avoid replacing/overwriting/duplicating an object already available in  
\* the local destination repository. Locally available objects and packs  
\* should always be preferred over remotely available objects and packs.  
\* { @link org.eclipse.jgit.transport.Transport#isFetchThin() } should be  
\* honored if applicable.  
\* </p>  
\*  
\* @param monitor  
\* progress monitor to inform the end-user about the amount of

\* work completed, or to indicate cancellation. Implementations  
\* should poll the monitor at regular intervals to look for  
\* cancellation requests from the user.  
\* @param want  
\* one or more refs advertised by this connection that the caller  
\* wants to store locally.  
\* @param have  
\* additional objects known to exist in the destination  
\* repository, especially if they aren't yet reachable by the ref  
\* database. Connections should take this set as an addition to  
\* what is reachable through all Refs, not in replace of it.  
\* @throws org.eclipse.jgit.errors.TransportException  
\* objects could not be copied due to a network failure,  
\* protocol error, or error on remote side, or connection was  
\* already used for fetch.  
\*/

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\* /opt/cola/permits/1612280025\_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-  
jar/org/eclipse/jgit/diff/HistogramDiff.java  
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jar/org/eclipse/jgit/diff/HashedSequenceComparator.java  
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jar/org/eclipse/jgit/diff/LowLevelDiffAlgorithm.java  
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jar/org/eclipse/jgit/diff/HashedSequence.java  
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jar/org/eclipse/jgit/events/ListenerList.java  
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jar/org/eclipse/jgit/internal/storage/dfs/PackInputStream.java  
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jar/org/eclipse/jgit/lib/ThreadSafeProgressMonitor.java  
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jar/org/eclipse/jgit/notes/FanoutBucket.java  
\* /opt/cola/permits/1612280025\_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-

jar/org/eclipse/jgit/errors/NoWorkTreeException.java  
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jar/org/eclipse/jgit/lib/ObjectReader.java  
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jar/org/eclipse/jgit/errors/StoredObjectRepresentationNotAvailableException.java  
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jar/org/eclipse/jgit/events/RepositoryListener.java  
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jar/org/eclipse/jgit/internal/storage/pack/ObjectReuseAsIs.java  
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jar/org/eclipse/jgit/notes/NoteMap.java  
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jar/org/eclipse/jgit/lib/StoredConfig.java  
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jar/org/eclipse/jgit/events/ListenerHandle.java  
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jar/org/eclipse/jgit/diff/SequenceComparator.java  
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jar/org/eclipse/jgit/diff/SimilarityIndex.java  
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jar/org/eclipse/jgit/revwalk/AsyncRevObjectQueue.java  
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jar/org/eclipse/jgit/util/RefList.java  
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jar/org/eclipse/jgit/notes/NoteBucket.java  
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jar/org/eclipse/jgit/diff/HistogramDiffIndex.java  
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jar/org/eclipse/jgit/diff/RenameDetector.java  
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jar/org/eclipse/jgit/lib/ObjectStream.java  
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jar/org/eclipse/jgit/lib/AsyncObjectSizeQueue.java  
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jar/org/eclipse/jgit/internal/storage/file/WriteConfig.java  
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jar/org/eclipse/jgit/diff/Subsequence.java  
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jar/org/eclipse/jgit/diff/SubsequenceComparator.java  
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jar/org/eclipse/jgit/ignore/internal/AbstractMatcher.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/ignore/internal/NameMatcher.java
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\* /opt/cola/permits/1612280025\_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/treewalk/filter/PathFilter.java  
\* /opt/cola/permits/1612280025\_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/treewalk/filter/NotTreeFilter.java

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jar/org/eclipse/jgit/revplot/PlotLane.java  
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jar/org/eclipse/jgit/revwalk/filter/CommitterRevFilter.java  
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jar/org/eclipse/jgit/internal/storage/file/DeltaBaseCache.java  
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jar/org/eclipse/jgit/revwalk/EndGenerator.java  
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jar/org/eclipse/jgit/revwalk/BlockObjQueue.java  
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jar/org/eclipse/jgit/revwalk/filter/AuthorRevFilter.java  
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jar/org/eclipse/jgit/revwalk/RevObject.java  
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jar/org/eclipse/jgit/revwalk/filter/SubStringRevFilter.java  
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jar/org/eclipse/jgit/transport/AmazonS3.java  
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jar/org/eclipse/jgit/revwalk/filter/RevFlagFilter.java  
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jar/org/eclipse/jgit/internal/storage/file/PackIndexV2.java  
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jar/org/eclipse/jgit/transport/WalkRemoteObjectDatabase.java  
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jar/org/eclipse/jgit/errors/CompoundException.java  
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\* /opt/cola/permits/1612280025\_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-  
jar/org/eclipse/jgit/revwalk/RevFlag.java  
\* /opt/cola/permits/1612280025\_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-  
jar/org/eclipse/jgit/revwalk/TreeRevFilter.java  
\* /opt/cola/permits/1612280025\_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-  
jar/org/eclipse/jgit/transport/TransportAmazonS3.java  
\* /opt/cola/permits/1612280025\_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-  
jar/org/eclipse/jgit/revwalk/TopoSortGenerator.java  
\* /opt/cola/permits/1612280025\_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-  
jar/org/eclipse/jgit/transport/TransportSftp.java  
\* /opt/cola/permits/1612280025\_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-

jar/org/eclipse/jgit/util/RawCharSequence.java

\* /opt/cola/permits/1612280025\_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-

jar/org/eclipse/jgit/internal/storage/file/PackIndexWriterV2.java

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jar/org/eclipse/jgit/revwalk/MergeBaseGenerator.java

\* /opt/cola/permits/1612280025\_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-

jar/org/eclipse/jgit/revwalk/AbstractRevQueue.java

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jar/org/eclipse/jgit/revwalk/RewriteGenerator.java

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jar/org/eclipse/jgit/util/MutableInteger.java

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jar/org/eclipse/jgit/internal/storage/file/RefDirectoryRename.java  
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`/opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/util/io/ThrowingPrintWriter.java`

## 1.113 jcl-over-slf4j 1.7.36

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## 1.114 guava 31.1-jre

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```

```
*/
/**
 * Outer class that exists solely to let us write { @code Partially.GwtIncompatible } instead of plain
 * { @code GwtIncompatible }. This is more accurate for { @link Futures#catching }, which is available
 * under GWT but with a slightly different signature.
 *
 * <p>We can't use { @code PartiallyGwtIncompatible } because then the GWT compiler wouldn't recognize
 * it as a { @code GwtIncompatible } annotation. And for { @code Futures.catching }, we need the GWT
 * compiler to autostrip the normal server method in order to expose the special, inherited GWT
 * version.
 */
```

Found in path(s):

```
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/util/concurrent/Partially.java
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jar/com/google/common/graph/Network.java
```

```
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/graph/PredecessorsFunction.java
```

```
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/graph/ImmutableGraph.java
```

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* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/graph/MutableGraph.java
```

```
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/io/RecursiveDeleteOption.java
```

```
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/graph/SuccessorsFunction.java
```

```
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/graph/Graph.java
```

\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/graph/ImmutableNetwork.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/graph/Graphs.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/TopKSelector.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/graph/MutableNetwork.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/io/InsecureRecursiveDeleteException.java  
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\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/hash/ImmutableSupplier.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/util/concurrent/ExecutionSequencer.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/JdkBackedImmutableMultiset.java  
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- \* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ComparisonChain.java
- \* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ImmutableClassToInstanceMap.java
- \* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/SingletonImmutableList.java
- \* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/TableCollectors.java
- \* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/DiscreteDomain.java
- \* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ImmutableSortedMap.java
- \* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ImmutableSortedSetFauxverideShim.java
- \* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/SingletonImmutableTable.java
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- \* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/EmptyImmutableSetMultimap.java
- \* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/AbstractIndexedListAdapter.java
- \* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/RegularImmutableList.java
- \* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ImmutableTable.java
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- \* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ForwardingTable.java
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jar/com/google/common/collect/ImmutableEntry.java

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jar/com/google/common/collect/ImmutableBiMap.java

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jar/com/google/common/collect/Serialization.java

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jar/com/google/common/collect/HashBasedTable.java

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jar/com/google/common/collect/ImmutableMapValues.java

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\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/StandardTable.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ImmutableCollection.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/RegularImmutableBiMap.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/Table.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/TreeBasedTable.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ImmutableListMultimap.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/Platform.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/Range.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/EmptyImmutableListMultimap.java  
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jar/com/google/common/base/NullnessCasts.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/collect/NullnessCasts.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/util/concurrent/NullnessCasts.java
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* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/util/concurrent/CycleDetectingLockFactory.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/hash/AbstractHasher.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/primitives/UnsignedInteger.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/primitives/UnsignedLongs.java
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\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/cache/CacheStats.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/base/FunctionalEquivalence.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/reflect/TypeParameter.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/math/DoubleMath.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/hash/MessageDigestHashFunction.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/base/PairwiseEquivalence.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/hash/BloomFilter.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/util/concurrent/ListeningScheduledExecutorService.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/TreeRangeSet.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/cache/Weigher.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/net/HttpHeaders.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/base/Present.java  
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\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/RegularContiguousSet.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/cache/LoadingCache.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/cache/AbstractCache.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/util/concurrent/FutureCallback.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/RegularImmutableMultiset.java  
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\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/math/IntMath.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/hash/Funnel.java



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\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/util/concurrent/AsyncFunction.java  
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\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/math/LongMath.java  
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\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/util/concurrent/ForwardingExecutorService.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/hash/PrimitiveSink.java  
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\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/math/MathPreconditions.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/base/Ticker.java  
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\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/hash/Murmur3\_128HashFunction.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/cache/RemovalNotification.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/hash/BloomFilterStrategies.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/cache/RemovalListeners.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/cache/CacheLoader.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/util/concurrent/UncheckedExecutionException.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/Queues.java

\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/util/concurrent/AbstractListeningExecutorService.java

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\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/graph/IncidentEdgeSet.java

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\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/LinkedHashMapGwtSerializationDependencies.java

\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/graph/EndpointPairIterator.java

\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/graph/ForwardingNetwork.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/graph/ForwardingGraph.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/graph/AbstractGraph.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/graph/ElementOrder.java  
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\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/primitives/Chars.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/primitives/Bytes.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/util/concurrent/SequentialExecutor.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/primitives/Longs.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/primitives/Ints.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/primitives/Booleans.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/util/concurrent/ListenableFutureTask.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/escape/Escaper.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/primitives/Shorts.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/base/internal/Finalizer.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-

jar/com/google/common/io/FileBackedOutputStream.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/thirdparty/publicsuffix/TrieParser.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/base/Stopwatch.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/base/CharMatcher.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/primitives/Floats.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/base/Converter.java

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\* Holder for web specializations of methods of { @code Ints }. Intended to be empty for regular  
\* version.

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Found in path(s):

\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/primitives/IntsMethodsForWeb.java

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\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/eventbus/Subscriber.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/base/MoreObjects.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/util/concurrent/ListenerCallQueue.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/math/Quantiles.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/eventbus/Dispatcher.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/eventbus/SubscriberRegistry.java

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\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/cache/LongAdder.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/cache/Striped64.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/hash/Striped64.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/util/concurrent/AtomicDoubleArray.java

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jar/com/google/common/collect/ForwardingSortedMultiset.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/collect/ImmutableSortedMultisetFauxverideShim.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/collect/GeneralRange.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/collect/Count.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/collect/RegularImmutableSortedMultiset.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/collect/SortedIterable.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/collect/RangeSet.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/collect/AbstractRangeSet.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/collect/SortedIterables.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/collect/ImmutableSortedMultiset.java

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jar/com/google/common/graph/package-info.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/collect/ImmutableBiMapFauxverideShim.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/collect/CollectSpliterators.java  
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jar/com/google/common/util/concurrent/AtomicLongMap.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/collect/GwtTransient.java  
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jar/com/google/common/util/concurrent/OverflowAvoidingLockSupport.java

\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/math/BigDecimalMath.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/io/Java8Compatibility.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/hash/Java8Compatibility.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/math/ToDoubleRounder.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/base/Java8Compatibility.java  
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\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/UnmodifiableListIterator.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/RowSortedTable.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/MinMaxPriorityQueue.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ForwardingImmutableCollection.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/AbstractSequentialIterator.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/SortedMapDifference.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ForwardingSortedSetMultimap.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ForwardingSetMultimap.java

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jar/com/google/common/math/ParametricNullness.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/xml/ParametricNullness.java
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jar/com/google/common/hash/ParametricNullness.java
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jar/com/google/common/cache/ParametricNullness.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/eventbus/ParametricNullness.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/primitives/ParametricNullness.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/html/ElementTypesAreNonnullByDefault.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/collect/ElementTypesAreNonnullByDefault.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
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* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
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jar/com/google/common/escape/ElementTypesAreNonnullByDefault.java
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- \* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/util/concurrent/GwtFuturesCatchingSpecialization.java
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- \* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/util/concurrent/GwtFluentFutureCatchingSpecialization.java
- \* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/annotations/VisibleForTesting.java
- \* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/util/concurrent/FuturesGetChecked.java
- \* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/util/concurrent/UncheckedTimeoutException.java
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- \* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/reflect/TypeToken.java
- \* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/util/concurrent/AbstractCatchingFuture.java
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- \* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/util/concurrent/AbstractTransformFuture.java
- \* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/util/concurrent/SimpleTimeLimiter.java
- \* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/util/concurrent/FluentFuture.java
- \* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/io/AppendableWriter.java
- \* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/util/concurrent/AggregateFuture.java
- \* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/io/PatternFilenameFilter.java

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*/
/*
* This following method is a modified version of one found in
* http://gee.cs.oswego.edu/cgi-bin/viewcvs.cgi/jsr166/src/test/tck/AbstractExecutorServiceTest.java?revision=1.30
* which contained the following notice:
*
* Written by Doug Lea with assistance from members of JCP JSR-166 Expert Group and released to
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*
* Other contributors include Andrew Wright, Jeffrey Hayes, Pat Fisher, Mike Judd.
*/
```

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```
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/util/concurrent/MoreExecutors.java
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```
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/base/PatternCompiler.java
```

```
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
```

jar/com/google/common/base/JdkPattern.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/base/CommonMatcher.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/base/CommonPattern.java  
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*/
```

```
/*
* This method was rewritten in Java from an intermediate step of the Murmur hash function in
* http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp, which contained the
* following header:
*
* MurmurHash3 was written by Austin Appleby, and is placed in the public domain. The author
* hereby disclaims copyright to this source code.
*/
```

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jar/com/google/common/base/SmallCharMatcher.java  
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\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/base/Verify.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/eventbus/SubscriberExceptionContext.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/io/CharSequenceReader.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/util/concurrent/WrappingScheduledExecutorService.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/eventbus/SubscriberExceptionHandler.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/reflect/TypeVisitor.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/FilteredMultimapValues.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/AbstractTable.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/util/concurrent/Runnables.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/hash/HashingInputStream.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/base/Utf8.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/thirdparty/publicsuffix/PublicSuffixType.java  
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\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-

jar/com/google/common/collect/MapMaker.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/util/concurrent/JdkFutureAdapters.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/xml/XmlEscapers.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/io/ByteArrayDataInput.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/collect/Cut.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/util/concurrent/Callables.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/annotations/GwtIncompatible.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/util/concurrent/AbstractExecutionThreadService.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/annotations/GwtCompatible.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/escape/Escapers.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/primitives/SignedBytes.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/collect/SparseImmutableTable.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/cache/LocalCache.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/escape/ArrayBasedCharEscaper.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/net/HostSpecifier.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/escape/Platform.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/cache/CacheBuilder.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/primitives/UnsignedBytes.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/util/concurrent/ForwardingFuture.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/net/InternetDomainName.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/util/concurrent/ForwardingFluentFuture.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/util/concurrent/ForwardingListenableFuture.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/util/concurrent/Service.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/reflect/TypeResolver.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-

jar/com/google/common/base/Splitter.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/io/LineProcessor.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/collect/MapMakerInternalMap.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/cache/ReferenceEntry.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/collect/RegularImmutableTable.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/util/concurrent/AbstractIdleService.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/net/UrlEscapers.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/base/Platform.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/escape/ArrayBasedEscaperMap.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/util/concurrent/AbstractService.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/collect/DenseImmutableTable.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/io/ByteProcessor.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/util/concurrent/SettableFuture.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/escape/ArrayBasedUnicodeEscaper.java  
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jar/com/google/common/io/ByteArrayDataOutput.java  
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jar/com/google/common/html/HtmlEscapers.java

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- \* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/base/FinalizablePhantomReference.java
- \* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/io/LineBuffer.java
- \* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/base/Function.java
- \* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/io/LittleEndianDataOutputStream.java
- \* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/base/Throwables.java
- \* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/io/CountingOutputStream.java
- \* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/io/Closeables.java
- \* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/eventbus/DeadEvent.java
- \* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/base/Preconditions.java
- \* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/base/Supplier.java
- \* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/util/concurrent/ListenableFuture.java
- \* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/io/MultiInputStream.java
- \* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/primitives/Primitives.java
- \* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/base/package-info.java
- \* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/base/Objects.java
- \* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/io/LineReader.java
- \* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/Interners.java
- \* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/eventbus/AsyncEventBus.java
- \* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/io/CountingInputStream.java
- \* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/eventbus/Subscribe.java
- \* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/util/concurrent/package-info.java
- \* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/base/FinalizableReference.java
- \* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-

jar/com/google/common/util/concurrent/DirectExecutor.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/base/AbstractIterator.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/util/concurrent/ExecutionList.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/eventbus/package-info.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/io/ByteStreams.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/collect/EnumMultiset.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/base/FinalizableReferenceQueue.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
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\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/eventbus/AllowConcurrentEvents.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/collect/HashBiMap.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/io/Resources.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/base/FinalizableSoftReference.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/io/CharStreams.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/base/Defaults.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/base/Predicate.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/base/Charsets.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/base/Suppliers.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/base/FinalizableWeakReference.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/io/Files.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/util/concurrent/AbstractFuture.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/io/Flushables.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/eventbus/EventBus.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/io/LittleEndianDataInputStream.java  
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jar/com/google/common/base/Predicates.java

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* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/collect/DescendingMultiset.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/util/concurrent/ForwardingBlockingDeque.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/collect/FilteredSetMultimap.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/collect/FilteredEntryMultimap.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/collect/RegularImmutableAsList.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/collect/CompactLinkedHashSet.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/collect/AbstractMultimap.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/collect/ForwardingImmutableList.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/collect/ForwardingImmutableMap.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/collect/TransformedIterator.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/collect/DescendingImmutableSortedSet.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/collect/EvictingQueue.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/collect/CompactLinkedHashMap.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/collect/ForwardingDeque.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/collect/FilteredEntrySetMultimap.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
```

jar/com/google/common/collect/AbstractNavigableMap.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/collect/FilteredKeySetMultimap.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/collect/FilteredMultimap.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/collect/ImmutableEnumMap.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/collect/AbstractSortedKeySortedSetMultimap.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/collect/AllEqualOrdering.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/collect/UnmodifiableSortedMultiset.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/collect/ForwardingBlockingDeque.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/collect/TreeTraverser.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/collect/ForwardingNavigableSet.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/collect/SortedMultisetBridge.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/collect/RangeMap.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/collect/ForwardingNavigableMap.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/collect/CompactHashSet.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/collect/CompactHashMap.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/collect/FilteredKeyListMultimap.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/collect/TransformedListIterator.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/collect/ForwardingImmutableSet.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/collect/TreeRangeMap.java

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* the License.
*/
/**
* Holder for web specializations of methods of { @code Floats }. Intended to be empty for regular
* version.
*/
```

Found in path(s):

```
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/primitives/FloatsMethodsForWeb.java
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```
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/hash/MacHashFunction.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/hash/LittleEndianByteArray.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/util/concurrent/CombinedFuture.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/io/ReaderInputStream.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/util/concurrent/InterruptibleTask.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/util/concurrent/AggregateFutureState.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/hash/FarmHashFingerprint64.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/util/concurrent/AsyncCallable.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
```



jar/com/google/common/collect/ConsumingQueueIterator.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/util/concurrent/Platform.java  
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```

Found in path(s):

```
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/collect/FilteredKeyMultimap.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/util/concurrent/ListenableScheduledFuture.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/io/BaseEncoding.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/collect/ImmutableRangeMap.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/math/Stats.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/math/PairedStats.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/math/StatsAccumulator.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/xml/package-
info.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/io/Closer.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/reflect/package-info.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/util/concurrent/SmoothRateLimiter.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/hash/SipHashFunction.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/reflect/Parameter.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/io/FileWriteMode.java
```

\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/math/PairedStatsAccumulator.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/CartesianList.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/reflect/TypeCapture.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/hash/LongAddable.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/hash/LongAddables.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/cache/LongAddable.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/escape/package-info.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/util/concurrent/ServiceManager.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/reflect/Invokable.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/cache/LongAddables.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/html/package-info.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/io/CharSource.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/base/StandardSystemProperty.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/hash/ChecksumHashFunction.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/hash/AbstractByteHasher.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/reflect/ClassPath.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/reflect/TypeToInstanceMap.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/math/LinearTransformation.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/io/CharSink.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/io/ByteSource.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/io/ByteSink.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/reflect/ImmutableTypeToInstanceMap.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/reflect/AbstractInvocationHandler.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/util/concurrent/RateLimiter.java

\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ImmutableRangeSet.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/reflect/MutableTypeToInstanceMap.java  
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\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/io/MoreFiles.java

\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/MultimapBuilder.java

\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ImmutableMapEntry.java

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jar/com/google/common/collect/ImmutableSortedAsList.java

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\*/

/\*\*

\* Holder for extra methods of {@code Objects} only in web. Intended to be empty for regular

\* version.

\*/

Found in path(s):

\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-

jar/com/google/common/base/ExtraObjectsMethodsForWeb.java

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\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-

jar/com/google/common/collect/LinkedHashMultiset.java

\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-

jar/com/google/common/collect/UsingToStringOrdering.java

\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/MutableClassToInstanceMap.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ForwardingListIterator.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ArrayListMultimap.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/Synchronized.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ImmutableSet.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ForwardingSortedSet.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ComparatorOrdering.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/RegularImmutableSet.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ListMultimap.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/AbstractMapEntry.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ConcurrentHashMultiset.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/Iterables.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/SingletonImmutableSet.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/NullsFirstOrdering.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/EnumBiMap.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/AbstractMultiset.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/TreeMultiset.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ExplicitOrdering.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ForwardingMap.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/Lists.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/AbstractBiMap.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ForwardingMapEntry.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ReverseNaturalOrdering.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/LinkedListMultimap.java

\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ForwardingQueue.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/HashMultiset.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/AbstractMapBasedMultiset.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/AbstractSortedSetMultimap.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/Multiset.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/LexicographicalOrdering.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/Ordering.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/AbstractListMultimap.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/BiMap.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ClassToInstanceMap.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/NaturalOrdering.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ForwardingSortedMap.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ReverseOrdering.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/Iterators.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ForwardingConcurrentMap.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/TreeMultimap.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/SortedSetMultimap.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ImmutableList.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/Multimap.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/LinkedHashMultimap.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/package-info.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/HashMultimap.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/AbstractMapBasedMultimap.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ByFunctionOrdering.java

\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/MapDifference.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/Sets.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/Interner.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/SetMultimap.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/NullsLastOrdering.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/AbstractIterator.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ForwardingMultiset.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ForwardingIterator.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ForwardingSet.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ForwardingList.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ForwardingMultimap.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/Multisets.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/EnumHashBiMap.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ForwardingObject.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/Maps.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/AbstractSetMultimap.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/Multimaps.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/CompoundOrdering.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ForwardingCollection.java  
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```

Found in path(s):

```
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/collect/SortedMultiset.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/collect/SortedMultisets.java
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*/
```

```
/**
* Returns an array containing all of the elements in the specified collection. This method
* returns the elements in the order they are returned by the collection's iterator. The returned
* array is "safe" in that no references to it are maintained by the collection. The caller is
* thus free to modify the returned array.
*
* <p>This method assumes that the collection size doesn't change while the method is running.
*
* <p>TODO(kevinb): support concurrently modified collections?
*
* @param c the collection for which to return an array of elements
*/
```

Found in path(s):

```
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/collect/ObjectArrays.java
```

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 * limitations under the License.
 */
/*
 * This method was rewritten in Java from an intermediate step of the Murmur hash function in
 * http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp, which contained the
 * following header:
 *
 * MurmurHash3 was written by Austin Appleby, and is placed in the public domain. The author
 * hereby disclaims copyright to this source code.
 */
```

Found in path(s):

```
*/opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/collect/Hashing.java
```

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 */
```

Found in path(s):

```
*/opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/collect/IndexedImmutableSet.java
```

\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/JdkBackedImmutableBiMap.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/JdkBackedImmutableMap.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/BaseImmutableMultimap.java  
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\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/annotations/package-info.java

\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/util/concurrent/Atomics.java

\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/primitives/package-info.java

\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/SortedLists.java

\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/net/package-info.java

\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/annotations/Beta.java

\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ContiguousSet.java

\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/util/concurrent/ForwardingBlockingQueue.java

\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/util/concurrent/ThreadFactoryBuilder.java

\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/base/Ascii.java

\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/base/Equivalence.java

\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/util/concurrent/UncaughtExceptionHandler.java

\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/util/concurrent/ListeningExecutorService.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/util/concurrent/Monitor.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/base/Strings.java

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\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/graph/Traverser.java

\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/util/concurrent/ClosingFuture.java

\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/graph/AbstractBaseGraph.java

\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/graph/BaseGraph.java

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```
*/
/**
 * Holder for web specializations of methods of { @code Shorts }. Intended to be empty for regular
 * version.
 */
```

Found in path(s):

```
*/opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/primitives/ShortsMethodsForWeb.java
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 */
```

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```
*/opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/reflect/Reflection.java
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 */
```

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\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/Streams.java

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\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/primitives/Platform.java

\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/util/concurrent/Internal.java

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\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/util/concurrent/ForwardingCondition.java

\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/primitives/ImmutableIntArray.java

```
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/hash/AbstractHashFunction.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/primitives/ImmutableDoubleArray.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/primitives/ImmutableLongArray.java
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jar/com/google/common/util/concurrent/ServiceManagerBridge.java
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express
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* the License.
*/
/**
* Holder for web specializations of methods of { @code Doubles}. Intended to be empty for regular
* version.
*/
```

Found in path(s):

\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/primitives/DoublesMethodsForWeb.java

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/\*\*

\* Not supported. <b>You are attempting to create a map that may contain a non-{@code Comparable}

\* key.</b> Proper calls will resolve to the version in {@code ImmutableSortedMap}, not this dummy

\* version.

\*

\* @throws UnsupportedOperationException always

\* @deprecated <b>Pass a key of type {@code Comparable} to use {@link

\* `ImmutableSortedMap#of(Comparable, Object)`.</b>

\*/

Found in path(s):

\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ImmutableSortedMapFauxverideShim.java

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```
*/
/*
 * This method was written by Doug Lea with assistance from members of JCP JSR-166 Expert Group
 * and released to the public domain, as explained at
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 *
 * As of 2010/06/11, this method is identical to the (package private) hash method in OpenJDK 7's
 * java.util.HashMap class.
 */
```

Found in path(s):

```
*/opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/util/concurrent/Striped.java
```

## 1.115 opentelemetry-semconv 1.13.0-alpha

### 1.115.1 Available under license :

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## 1.116 hibernate-validator 6.2.5.Final

### 1.116.1 Available under license :

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## 1.117 sshd-osgi 2.7.0

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\* /opt/cola/permits/1612280018\_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/config/keys/loader/openssh/kdf/BCrypt.java

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*/
/**
* Special exception thrown by
* {@link AbstractSession#attachSession(org.apache.sshd.common.io.IoSession, AbstractSession)} in order to
indicate an
* already attached I/O session
*
* @author Apache MINA SSHD Project
*/

```

Found in path(s):

```

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/session/helpers/MultipleAttachedSessionException.java
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```

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-

```

```
jar/org/apache/sshd/common/random/package.html
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/digest/package.html
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/cipher/package.html
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/signature/package.html
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/mac/package.html
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/compression/package.html
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*/
// Throw a special exception - SSHD-777
```

```
Found in path(s):
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/session/helpers/AbstractConnectionService.java
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*/
/**
 * According to RFC 4252 - section 8:
 *
 * <PRE>
 * Both the server and the client should check whether the underlying
 * transport layer provides confidentiality (i.e., if encryption is
 * being used). If no confidentiality is provided ("none" cipher),
 * password authentication SHOULD be disabled. If there is no
 * confidentiality or no MAC, password change SHOULD be disabled.
 * </PRE>
 *
 * @param session The { @link SessionContext } being used for authentication
 * @return { @code true } if the context is not { @code null } and the ciphers have been established to anything
 * other than "none".
 * @see CommonModuleProperties#ALLOW_INSECURE_AUTH
 * @see SessionContext#isSecureSessionTransport(SessionContext)
 */

```

Found in path(s):

```

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/auth/UserAuthMethodFactory.java

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```

*/
/**
 * Provides a way to listen and handle the { @code SSH_MSG_IGNORE } and { @code SSH_MSG_DEBUG }
 messages that are received
 * by a session, as well as proprietary and/or extension messages and behavior.
 *
 * @author Apache MINA SSHD Project
 */
/**
 * Invoked if the user configured usage of a proprietary heartbeat mechanism. Note: by default throws
 * { @code UnsupportedOperationException } so users who configure a proprietary heartbeat mechanism option
 must
 * provide an implementation for this method.
 *
 * @param service The { @link ConnectionService } through which the heartbeat is being executed.
 * @return { @code true } whether heartbeat actually sent - Note: used mainly for debugging
 purposes.
 * @throws Exception If failed to send the heartbeat - Note: causes associated session termination.
 */

```

Found in path(s):

```

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/session/ReservedSessionMessagesHandler.java

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```

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/META-
INF/maven/org.apache.sshd/sshd-osgi/pom.xml

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\* /opt/cola/permits/1612280018\_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/cipher/CipherNone.java  
\* /opt/cola/permits/1612280018\_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/channel/exception/SshChannelException.java  
\* /opt/cola/permits/1612280018\_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/util/security/eddsa/Ed25519PEMResourceKeyParser.java  
\* /opt/cola/permits/1612280018\_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/client/auth/pubkey/KeyAgentIdentity.java  
\* /opt/cola/permits/1612280018\_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/client/channel/ClientChannelHolder.java  
\* /opt/cola/permits/1612280018\_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/client/keyverifier/RequiredServerKeyVerifier.java  
\* /opt/cola/permits/1612280018\_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/server/config/keys/DefaultAuthorizedKeysAuthenticator.java  
\* /opt/cola/permits/1612280018\_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/config/keys/u2f/SkED25519PublicKey.java  
\* /opt/cola/permits/1612280018\_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/config/keys/loader/openssh/kdf/BCryptKdfOptions.java  
\* /opt/cola/permits/1612280018\_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/keyprovider/ClassLoadableResourceKeyPairProvider.java  
\* /opt/cola/permits/1612280018\_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/util/buffer/keys/RSABufferPublicKeyParser.java  
\* /opt/cola/permits/1612280018\_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/server/kex/DHGServer.java  
\* /opt/cola/permits/1612280018\_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/io/Handler.java  
\* /opt/cola/permits/1612280018\_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/signature/BuiltinSignatures.java

\* /opt/cola/permits/1612280018\_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/config/keys/loader/openssh/OpenSSHKeyPairResourceParser.java

\* /opt/cola/permits/1612280018\_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/server/ServerFactoryManager.java

\* /opt/cola/permits/1612280018\_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/server/SshServer.java

\* /opt/cola/permits/1612280018\_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/config/keys/loader/KeyPairResourceLoader.java

\* /opt/cola/permits/1612280018\_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/server/channel/AbstractServerChannel.java

\* /opt/cola/permits/1612280018\_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/client/channel/PtyCapableChannelSession.java

\* /opt/cola/permits/1612280018\_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/config/keys/loader/DESPrivateKeyObfuscator.java

\* /opt/cola/permits/1612280018\_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/channel/throttle/ChannelStreamWriterResolver.java

\* /opt/cola/permits/1612280018\_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/client/channel/ChannelExec.java

\* /opt/cola/permits/1612280018\_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/kex/DHG.java

\* /opt/cola/permits/1612280018\_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/util/threads/CloseableExecutorService.java

\* /opt/cola/permits/1612280018\_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/random/RandomFactory.java

\* /opt/cola/permits/1612280018\_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/client/auth/AbstractUserAuthFactory.java

\* /opt/cola/permits/1612280018\_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/server/config/SshServerConfigFileReader.java

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\* /opt/cola/permits/1612280018\_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/agent/SshAgentConstants.java

\* /opt/cola/permits/1612280018\_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/server/command/AsyncCommandInputStreamAware.java

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\* /opt/cola/permits/1612280018\_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/file/nativefs/NativeFileSystemFactory.java  
\* /opt/cola/permits/1612280018\_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/random/AbstractRandomFactory.java  
\* /opt/cola/permits/1612280018\_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/server/channel/ChannelSessionFactory.java

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\* /opt/cola/permits/1612280018\_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/util/closeable/Builder.java  
\* /opt/cola/permits/1612280018\_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/util/threads/ExecutorServiceCarrier.java  
\* /opt/cola/permits/1612280018\_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/util/ProxyUtils.java  
\* /opt/cola/permits/1612280018\_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/session/SessionHolder.java  
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\* /opt/cola/permits/1612280018\_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/channel/exception/SshChannelBufferedOutputException.java  
\* /opt/cola/permits/1612280018\_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/keyprovider/MultiKeyIdentityIterator.java  
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- \* /opt/cola/permits/1612280018\_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/FactoryManagerHolder.java
- \* /opt/cola/permits/1612280018\_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/PropertyResolver.java
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- \* /opt/cola/permits/1612280018\_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/util/EventListenerUtils.java
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- \* /opt/cola/permits/1612280018\_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/server/auth/hostbased/RejectAllHostBasedAuthenticator.java
- \* /opt/cola/permits/1612280018\_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/cipher/CipherFactory.java
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- \* /opt/cola/permits/1612280018\_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/server/channel/AsyncDataReceiver.java
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\* /opt/cola/permits/1612280018\_1679588350.0689116/0/sshd- osgi-2-7-0-sources-1- jar/org/apache/sshd/common/cipher/BaseGCMCipher.java

\* /opt/cola/permits/1612280018\_1679588350.0689116/0/sshd- osgi-2-7-0-sources-1- jar/org/apache/sshd/common/util/buffer/BufferException.java

\* /opt/cola/permits/1612280018\_1679588350.0689116/0/sshd- osgi-2-7-0-sources-1- jar/org/apache/sshd/common/util/closeable/AutoCloseableDelegateInvocationHandler.java

\* /opt/cola/permits/1612280018\_1679588350.0689116/0/sshd- osgi-2-7-0-sources-1- jar/org/apache/sshd/agent/SshAgent.java

\* /opt/cola/permits/1612280018\_1679588350.0689116/0/sshd- osgi-2-7-0-sources-1- jar/org/apache/sshd/common/channel/ChannelHolder.java

\* /opt/cola/permits/1612280018\_1679588350.0689116/0/sshd- osgi-2-7-0-sources-1- jar/org/apache/sshd/common/io/IOService.java

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\* /opt/cola/permits/1612280018\_1679588350.0689116/0/sshd- osgi-2-7-0-sources-1- jar/org/apache/sshd/client/auth/AbstractUserAuth.java

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\* /opt/cola/permits/1612280018\_1679588350.0689116/0/sshd- osgi-2-7-0-sources-1- jar/org/apache/sshd/server/forward/AgentForwardingFilter.java

\* /opt/cola/permits/1612280018\_1679588350.0689116/0/sshd- osgi-2-7-0-sources-1- jar/org/apache/sshd/common/kex/KeyExchangeFactory.java

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\* /opt/cola/permits/1612280018\_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/kex/extension/KexExtensions.java

\* /opt/cola/permits/1612280018\_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/server/kex/DHGEXServer.java

\* /opt/cola/permits/1612280018\_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/config/keys/KeyEntryResolver.java

\* /opt/cola/permits/1612280018\_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/agent/unix/AgentServerProxy.java

\* /opt/cola/permits/1612280018\_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/util/security/eddsa/EdDSAProviderRegistrar.java

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\* /opt/cola/permits/1612280018\_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/kex/extension/parser/NoFlowControl.java

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\* /opt/cola/permits/1612280018\_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/session/ConnectionService.java

\* /opt/cola/permits/1612280018\_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/config/keys/loader/AbstractPrivateKeyObfuscator.java

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\* /opt/cola/permits/1612280018\_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/keyprovider/KeySizeIndicator.java

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\* /opt/cola/permits/1612280018\_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/session/helpers/PendingWriteFuture.java

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\* /opt/cola/permits/1612280018\_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/server/auth/gss/UserAuthGSS.java

\* /opt/cola/permits/1612280018\_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/util/io/NoCloseOutputStream.java

\* /opt/cola/permits/1612280018\_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/config/keys/loader/pem/AbstractPEMResourceKeyPairParser.java

\* /opt/cola/permits/1612280018\_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/client/channel/ChannelDirectTcpip.java

\* /opt/cola/permits/1612280018\_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/server/shell/TtyFilterOutputStream.java

\* /opt/cola/permits/1612280018\_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/util/security/SecurityProviderRegistrar.java

\* /opt/cola/permits/1612280018\_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/config/keys/writer/openssh/OpenSSHKeyEncryptionContext.java

\* /opt/cola/permits/1612280018\_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/kex/KexProposalOption.java

\* /opt/cola/permits/1612280018\_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/client/channel/ClientChannel.java

\* /opt/cola/permits/1612280018\_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/server/config/AllowTcpForwardingValue.java  
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\* /opt/cola/permits/1612280018\_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/channel/ChannelRequestHandler.java  
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\* /opt/cola/permits/1612280018\_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/util/buffer/keys/DSSBufferPublicKeyParser.java  
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\* /opt/cola/permits/1612280018\_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/client/auth/hostbased/HostKeyIdentityProvider.java

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*/
/**
* A special exception that can be thrown by the { @link PasswordAuthenticator } to indicate that the password
requires
* changing or is not string enough
*
* @see RFC-4252 section 8 -
* SSH_MSG_USERAUTH_PASSWD_CHANGEREQ
* @author Apache MINA SSHD Project
*/

```

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```

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/server/auth/password/PasswordChangeRequiredException.java
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*/
/**
* Special exception returned by { @link AbstractSession#getSession(org.apache.sshd.common.io.IOException,
boolean)} to
* indicate that there is no currently attached SSH session
*
* @author Apache MINA SSHD Project
*/

```

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\* /opt/cola/permits/1612280018\_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/session/helpers/MissingAttachedSessionException.java

# 1.118 commons-lang3 2.6

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## 1.120 spring-security-web 5.7.7

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\* /opt/cola/permits/1581785788\_1677763830.9632697/0/spring-security-web-5-7-7-sources-jar/org/springframework/security/web/reactive/result/view/CsrfRequestDataValueProcessor.java  
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jar/org/springframework/security/web/session/ForceEagerSessionCreationFilter.java  
\* /opt/cola/permits/1581785788\_1677763830.9632697/0/spring-security-web-5-7-7-sources-  
jar/org/springframework/security/web/server/authentication/ServerWebExchangeDelegatingReactiveAuthentication  
ManagerResolver.java  
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Found in path(s):  
\* /opt/cola/permits/1581785788\_1677763830.9632697/0/spring-security-web-5-7-7-sources-  
jar/org/springframework/security/web/authentication/DelegatingAuthenticationEntryPoint.java  
\* /opt/cola/permits/1581785788\_1677763830.9632697/0/spring-security-web-5-7-7-sources-  
jar/org/springframework/security/web/util/matcher/ELRequestMatcher.java  
\* /opt/cola/permits/1581785788\_1677763830.9632697/0/spring-security-web-5-7-7-sources-  
jar/org/springframework/security/web/util/matcher/RequestMatcherEditor.java  
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jar/org/springframework/security/web/jaasapi/JaasApiIntegrationFilter.java
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```
*/opt/cola/permits/1581785788_1677763830.9632697/0/spring-security-web-5-7-7-sources-
jar/org/springframework/security/web/csrf/CookieCsrfTokenRepository.java
```

```
*/opt/cola/permits/1581785788_1677763830.9632697/0/spring-security-web-5-7-7-sources-
jar/org/springframework/security/web/session/SessionInformationExpiredEvent.java
```

```
*/opt/cola/permits/1581785788_1677763830.9632697/0/spring-security-web-5-7-7-sources-
jar/org/springframework/security/web/csrf/LazyCsrfTokenRepository.java
```

```
*/opt/cola/permits/1581785788_1677763830.9632697/0/spring-security-web-5-7-7-sources-
jar/org/springframework/security/web/access/expression/DelegatingEvaluationContext.java
```

# 1.121 websocket-common 9.4.50.v20221201

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Eclipse

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\* org.eclipse.jetty.orbit:javafx.security.auth.message

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\* org.eclipse.jetty.orbit:javafx.mail.glassfish

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Oracle

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

\* javax.servlet:javax.servlet-api

\* javax.annotation:javax.annotation-api

\* javax.transaction:javax.transaction-api

\* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

\* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

org.ow2.asm:asm-commons  
org.ow2.asm:asm

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Apache

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org.apache.taglibs:taglibs-standard-spec  
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp  
org.apache.tomcat:tomcat-jasper  
org.apache.tomcat:tomcat-juli  
org.apache.tomcat:tomcat-jsp-api  
org.apache.tomcat:tomcat-el-api  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-api  
org.apache.tomcat:tomcat-util-scan  
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-el-api

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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- \* /opt/cola/permits/1362173022\_1657688436.1357603/0/jcommander-1-82-sources-jar/com/beust/jcommander/validators/NoValidator.java
- \* /opt/cola/permits/1362173022\_1657688436.1357603/0/jcommander-1-82-sources-jar/com/beust/jcommander/IPParameterValidator2.java

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- \* /opt/cola/permits/1362173022\_1657688436.1357603/0/jcommander-1-82-sources-jar/com/beust/jcommander/IUsageFormatter.java
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\* /opt/cola/permits/1362173022\_1657688436.1357603/0/jcommander-1-82-sources-jar/com/beust/jcommander/ParameterException.java  
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\* /opt/cola/permits/1362173022\_1657688436.1357603/0/jcommander-1-82-sources-jar/com/beust/jcommander/ResourceBundle.java  
\* /opt/cola/permits/1362173022\_1657688436.1357603/0/jcommander-1-82-sources-jar/com/beust/jcommander/converters/FileConverter.java  
\* /opt/cola/permits/1362173022\_1657688436.1357603/0/jcommander-1-82-sources-jar/com/beust/jcommander/MissingCommandException.java  
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\* /opt/cola/permits/1362173022\_1657688436.1357603/0/jcommander-1-82-sources-jar/com/beust/jcommander/internal/DefaultConverterFactory.java  
\* /opt/cola/permits/1362173022\_1657688436.1357603/0/jcommander-1-82-sources-jar/com/beust/jcommander/converters/InetAddressConverter.java  
\* /opt/cola/permits/1362173022\_1657688436.1357603/0/jcommander-1-82-sources-jar/com/beust/jcommander/internal/Sets.java  
\* /opt/cola/permits/1362173022\_1657688436.1357603/0/jcommander-1-82-sources-jar/com/beust/jcommander/ParametersDelegate.java

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# 1.124 spring-security-rsa 1.0.11.RELEASE

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## 1.127 jettison 1.4.0

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jar/org/openqa/selenium/safari/HasPermissions.java
* /opt/cola/permits/1612247654_1680503819.7086043/0/selenium-safari-driver-4-1-4-sources-
jar/org/openqa/selenium/safari/SafariDriverInfo.java
* /opt/cola/permits/1612247654_1680503819.7086043/0/selenium-safari-driver-4-1-4-sources-
jar/org/openqa/selenium/safari/AddHasDebugger.java
* /opt/cola/permits/1612247654_1680503819.7086043/0/selenium-safari-driver-4-1-4-sources-
jar/org/openqa/selenium/safari/HasDebugger.java
* /opt/cola/permits/1612247654_1680503819.7086043/0/selenium-safari-driver-4-1-4-sources-
jar/org/openqa/selenium/safari/AddHasPermissions.java
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* /opt/cola/permits/1612247654_1680503819.7086043/0/selenium-safari-driver-4-1-4-sources-
jar/org/openqa/selenium/safari/ConnectionClosedException.java
* /opt/cola/permits/1612247654_1680503819.7086043/0/selenium-safari-driver-4-1-4-sources-
jar/org/openqa/selenium/safari/SafariDriverService.java
* /opt/cola/permits/1612247654_1680503819.7086043/0/selenium-safari-driver-4-1-4-sources-
jar/org/openqa/selenium/safari/SafariTechPreviewDriverInfo.java
* /opt/cola/permits/1612247654_1680503819.7086043/0/selenium-safari-driver-4-1-4-sources-
jar/org/openqa/selenium/safari/SafariTechPreviewDriverService.java
* /opt/cola/permits/1612247654_1680503819.7086043/0/selenium-safari-driver-4-1-4-sources-
jar/org/openqa/selenium/safari/SafariDriver.java
* /opt/cola/permits/1612247654_1680503819.7086043/0/selenium-safari-driver-4-1-4-sources-
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```

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```
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* /opt/cola/permits/1434278264_1664999337.799366/0/feign-core-11-10-sources-
jar/feign/AsyncContextSupplier.java
* /opt/cola/permits/1434278264_1664999337.799366/0/feign-core-11-10-sources-jar/feign/template/Expression.java
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* /opt/cola/permits/1434278264_1664999337.799366/0/feign-core-11-10-sources-jar/feign/Request.java
* /opt/cola/permits/1434278264_1664999337.799366/0/feign-core-11-10-sources-jar/feign/ResponseMapper.java
* /opt/cola/permits/1434278264_1664999337.799366/0/feign-core-11-10-sources-jar/feign/QueryMapEncoder.java
* /opt/cola/permits/1434278264_1664999337.799366/0/feign-core-11-10-sources-
jar/feign/template/Expressions.java
* /opt/cola/permits/1434278264_1664999337.799366/0/feign-core-11-10-sources-
jar/feign/stream/StreamDecoder.java
* /opt/cola/permits/1434278264_1664999337.799366/0/feign-core-11-10-sources-jar/feign/MethodMetadata.java
```

- \* /opt/cola/permits/1434278264\_1664999337.799366/0/feign-core-11-10-sources-jar/feign/BaseBuilder.java
- \* /opt/cola/permits/1434278264\_1664999337.799366/0/feign-core-11-10-sources-jar/feign/Contract.java
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- \* /opt/cola/permits/1434278264\_1664999337.799366/0/feign-core-11-10-sources-jar/feign/HeaderMap.java
- \* /opt/cola/permits/1434278264\_1664999337.799366/0/feign-core-11-10-sources-jar/feign/SynchronousMethodHandler.java
- \* /opt/cola/permits/1434278264\_1664999337.799366/0/feign-core-11-10-sources-jar/feign/AsyncFeign.java
- \* /opt/cola/permits/1434278264\_1664999337.799366/0/feign-core-11-10-sources-jar/feign/template/UriUtils.java
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- \* /opt/cola/permits/1434278264\_1664999337.799366/0/feign-core-11-10-sources-jar/feign/codec/Encoder.java
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- \* /opt/cola/permits/1434278264\_1664999337.799366/0/feign-core-11-10-sources-jar/feign/InvocationHandlerFactory.java
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- \* /opt/cola/permits/1434278264\_1664999337.799366/0/feign-core-11-10-sources-jar/feign/querymap/BeanQueryMapEncoder.java
- \* /opt/cola/permits/1434278264\_1664999337.799366/0/feign-core-11-10-sources-jar/feign/Feign.java
- \* /opt/cola/permits/1434278264\_1664999337.799366/0/feign-core-11-10-sources-jar/feign/Target.java
- \* /opt/cola/permits/1434278264\_1664999337.799366/0/feign-core-11-10-sources-jar/feign/RetryableException.java
- \* /opt/cola/permits/1434278264\_1664999337.799366/0/feign-core-11-10-sources-jar/feign/MethodInfo.java
- \* /opt/cola/permits/1434278264\_1664999337.799366/0/feign-core-11-10-sources-jar/feign/template/HeaderTemplate.java
- \* /opt/cola/permits/1434278264\_1664999337.799366/0/feign-core-11-10-sources-jar/feign/DefaultMethodHandler.java
- \* /opt/cola/permits/1434278264\_1664999337.799366/0/feign-core-11-10-sources-jar/feign/Capability.java
- \* /opt/cola/permits/1434278264\_1664999337.799366/0/feign-core-11-10-sources-jar/feign/Headers.java
- \* /opt/cola/permits/1434278264\_1664999337.799366/0/feign-core-11-10-sources-jar/feign/Types.java
- \* /opt/cola/permits/1434278264\_1664999337.799366/0/feign-core-11-10-sources-jar/feign/Experimental.java
- \* /opt/cola/permits/1434278264\_1664999337.799366/0/feign-core-11-10-sources-jar/feign/ExceptionPropagationPolicy.java

\* /opt/cola/permits/1434278264\_1664999337.799366/0/feign-core-11-10-sources-jar/feign/RequestLine.java  
\* /opt/cola/permits/1434278264\_1664999337.799366/0/feign-core-11-10-sources-jar/feign/Util.java  
\* /opt/cola/permits/1434278264\_1664999337.799366/0/feign-core-11-10-sources-jar/feign/optionals/OptionalDecoder.java  
\* /opt/cola/permits/1434278264\_1664999337.799366/0/feign-core-11-10-sources-jar/feign/template/UriTemplate.java  
\* /opt/cola/permits/1434278264\_1664999337.799366/0/feign-core-11-10-sources-jar/feign/Body.java  
\* /opt/cola/permits/1434278264\_1664999337.799366/0/feign-core-11-10-sources-jar/feign/Response.java  
\* /opt/cola/permits/1434278264\_1664999337.799366/0/feign-core-11-10-sources-jar/feign/AsyncClient.java  
\* /opt/cola/permits/1434278264\_1664999337.799366/0/feign-core-11-10-sources-jar/feign/auth/BasicAuthRequestInterceptor.java  
\* /opt/cola/permits/1434278264\_1664999337.799366/0/feign-core-11-10-sources-jar/feign/AsyncJoinException.java  
\* /opt/cola/permits/1434278264\_1664999337.799366/0/feign-core-11-10-sources-jar/feign/FeignException.java  
\* /opt/cola/permits/1434278264\_1664999337.799366/0/feign-core-11-10-sources-jar/feign/AsyncInvocation.java  
\* /opt/cola/permits/1434278264\_1664999337.799366/0/feign-core-11-10-sources-jar/feign/QueryMap.java  
\* /opt/cola/permits/1434278264\_1664999337.799366/0/feign-core-11-10-sources-jar/feign/codec/DecodeException.java  
\* /opt/cola/permits/1434278264\_1664999337.799366/0/feign-core-11-10-sources-jar/feign/template/Template.java  
\* /opt/cola/permits/1434278264\_1664999337.799366/0/feign-core-11-10-sources-jar/feign/DeclarativeContract.java  
\* /opt/cola/permits/1434278264\_1664999337.799366/0/feign-core-11-10-sources-jar/feign/ReflectiveAsyncFeign.java  
\* /opt/cola/permits/1434278264\_1664999337.799366/0/feign-core-11-10-sources-jar/feign/Param.java  
\* /opt/cola/permits/1434278264\_1664999337.799366/0/feign-core-11-10-sources-jar/feign/codec/StringDecoder.java  
\* /opt/cola/permits/1434278264\_1664999337.799366/0/feign-core-11-10-sources-jar/feign/InvocationContext.java  
\* /opt/cola/permits/1434278264\_1664999337.799366/0/feign-core-11-10-sources-jar/feign/Logger.java  
\* /opt/cola/permits/1434278264\_1664999337.799366/0/feign-core-11-10-sources-jar/feign/AsyncResponseHandler.java

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

<!--

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-->

Found in path(s):

```
* /opt/cola/permits/1434278264_1664999337.799366/0/feign-core-11-10-sources-jar/META-INF/maven/io.github.openfeign/feign-core/pom.xml
```

# 1.130 selenium-devtools-v99 4.1.4

## 1.130.1 Available under license :

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

```
ATTRIBUTIONREPORTINGISSUE("AttributionReportingIssue"),
```

Found in path(s):

```
* /opt/cola/permits/1612247662_1680503819.6123538/0/selenium-devtools-v99-4-1-4-sources-jar/org/openqa/selenium/devtools/v99/audits/model/InspectorIssueCode.java
```

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

```
/**
```

```
* Details for issues around "Attribution Reporting API" usage.
```

```
* Explainer: https://github.com/WICG/conversion-measurement-api
```

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1612247662_1680503819.6123538/0/selenium-devtools-v99-4-1-4-sources-jar/org/openqa/selenium/devtools/v99/audits/model/AttributionReportingIssueDetails.java
```

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

```
ATTRIBUTION_REPORTING("attribution-reporting"),
```

Found in path(s):

```
* /opt/cola/permits/1612247662_1680503819.6123538/0/selenium-devtools-v99-4-1-4-sources-jar/org/openqa/selenium/devtools/v99/page/model/PermissionsPolicyFeature.java
```

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

```
package org.openqa.selenium.devtools.v99.performancetimeline.model;
```

```
import org.openqa.selenium.Beta;
```

```
import org.openqa.selenium.json.JsonInput;
```

```
public class LayoutShiftAttribution {
```

```
 private final org.openqa.selenium.devtools.v99.dom.model.Rect previousRect;
```

```
 private final org.openqa.selenium.devtools.v99.dom.model.Rect currentRect;
```

```
 private final java.util.Optional<org.openqa.selenium.devtools.v99.dom.model.BackendNodeId> nodeId;
```

```
 public LayoutShiftAttribution(org.openqa.selenium.devtools.v99.dom.model.Rect previousRect,
```

```

org.openqa.selenium.devtools.v99.dom.model.Rect currentRect,
java.util.Optional<org.openqa.selenium.devtools.v99.dom.model.BackendNodeId> nodeId) {
 this.previousRect = java.util.Objects.requireNonNull(previousRect, "previousRect is required");
 this.currentRect = java.util.Objects.requireNonNull(currentRect, "currentRect is required");
 this.nodeId = nodeId;
}

public org.openqa.selenium.devtools.v99.dom.model.Rect getPreviousRect() {
 return previousRect;
}

public org.openqa.selenium.devtools.v99.dom.model.Rect getCurrentRect() {
 return currentRect;
}

public java.util.Optional<org.openqa.selenium.devtools.v99.dom.model.BackendNodeId> getNodeId() {
 return nodeId;
}

private static LayoutShiftAttribution fromJson(JsonInput input) {
 org.openqa.selenium.devtools.v99.dom.model.Rect previousRect = null;
 org.openqa.selenium.devtools.v99.dom.model.Rect currentRect = null;
 java.util.Optional<org.openqa.selenium.devtools.v99.dom.model.BackendNodeId> nodeId =
java.util.Optional.empty();
 input.beginObject();
 while (input.hasNext()) {
 switch(input.nextName()) {
 case "previousRect":
 previousRect = input.read(org.openqa.selenium.devtools.v99.dom.model.Rect.class);
 break;
 case "currentRect":
 currentRect = input.read(org.openqa.selenium.devtools.v99.dom.model.Rect.class);
 break;
 case "nodeId":
 nodeId =
java.util.Optional.ofNullable(input.read(org.openqa.selenium.devtools.v99.dom.model.BackendNodeId.class));
 break;
 default:
 input.skipValue();
 break;
 }
 }
 input.endObject();
 return new LayoutShiftAttribution(previousRect, currentRect, nodeId);
}
}

```

Found in path(s):

\* /opt/cola/permits/1612247662\_1680503819.6123538/0/selenium-devtools-v99-4-1-4-sources-jar/org/openqa/selenium/devtools/v99/performance/timeline/model/LayoutShiftAttribution.java  
No license file was found, but licenses were detected in source scan.

```
package org.openqa.selenium.devtools.v99.audits.model;
```

```
import org.openqa.selenium.Beta;
import org.openqa.selenium.json.JsonInput;
```

```
public enum AttributionReportingIssueType {
```

```
 PERMISSIONPOLICYDISABLED("PermissionPolicyDisabled"),
 INVALIDATTRIBUTIONSOURCEEVENTID("InvalidAttributionSourceEventId"),
 INVALIDATTRIBUTIONDATA("InvalidAttributionData"),
 ATTRIBUTIONSOURCEUNTRUSTWORTHYORIGIN("AttributionSourceUntrustworthyOrigin"),
 ATTRIBUTIONUNTRUSTWORTHYORIGIN("AttributionUntrustworthyOrigin"),
 ATTRIBUTIONTRIGGERDATATOOLARGE("AttributionTriggerDataTooLarge"),
 ATTRIBUTIONEVENTSOURCETRIGGERDATATOOLARGE("AttributionEventSourceTriggerDataTooLarge"),
 INVALIDATTRIBUTIONSOURCEEXPIRY("InvalidAttributionSourceExpiry"),
 INVALIDATTRIBUTIONSOURCEPRIORITY("InvalidAttributionSourcePriority"),
 INVALIDEVENTSOURCETRIGGERDATA("InvalidEventSourceTriggerData"),
 INVALIDTRIGGERPRIORITY("InvalidTriggerPriority"),
 INVALIDTRIGGERDEDUPKEY("InvalidTriggerDedupKey");
```

```
 private String value;
```

```
 AttributionReportingIssueType(String value) {
 this.value = value;
 }
}
```

```
 public static AttributionReportingIssueType fromString(String s) {
 return java.util.Arrays.stream(AttributionReportingIssueType.values()).filter(rs ->
rs.value.equalsIgnoreCase(s)).findFirst().orElseThrow(() -> new
org.openqa.selenium.devtools.DevToolsException("Given value " + s + " is not found within
AttributionReportingIssueType "));
 }
}
```

```
 public String toString() {
 return value;
 }
}
```

```
 public String toJson() {
 return value;
 }
}
```

```
 private static AttributionReportingIssueType fromJson(JsonInput input) {
 return fromString(input.nextString());
 }
}
```

```
}
```

Found in path(s):

```
* /opt/cola/permits/1612247662_1680503819.6123538/0/selenium-devtools-v99-4-1-4-sources-jar/org/openqa/selenium/devtools/v99/audits/model/AttributionReportingIssueType.java
```

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```
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// http://www.apache.org/licenses/LICENSE-2.0
// software distributed under the License is distributed on an
```

Found in path(s):

```
* /opt/cola/permits/1612247662_1680503819.6123538/0/selenium-devtools-v99-4-1-4-sources-jar/org/openqa/selenium/devtools/v99/V99Log.java
* /opt/cola/permits/1612247662_1680503819.6123538/0/selenium-devtools-v99-4-1-4-sources-jar/org/openqa/selenium/devtools/v99/V99CdpInfo.java
* /opt/cola/permits/1612247662_1680503819.6123538/0/selenium-devtools-v99-4-1-4-sources-jar/org/openqa/selenium/devtools/v99/V99Target.java
* /opt/cola/permits/1612247662_1680503819.6123538/0/selenium-devtools-v99-4-1-4-sources-jar/org/openqa/selenium/devtools/v99/V99Events.java
* /opt/cola/permits/1612247662_1680503819.6123538/0/selenium-devtools-v99-4-1-4-sources-jar/org/openqa/selenium/devtools/v99/V99Javascript.java
* /opt/cola/permits/1612247662_1680503819.6123538/0/selenium-devtools-v99-4-1-4-sources-jar/org/openqa/selenium/devtools/v99/V99Domains.java
* /opt/cola/permits/1612247662_1680503819.6123538/0/selenium-devtools-v99-4-1-4-sources-jar/org/openqa/selenium/devtools/v99/V99Network.java
```

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```
public Domain(java.lang.String name, java.lang.String version) {
```

Found in path(s):

```
* /opt/cola/permits/1612247662_1680503819.6123538/0/selenium-devtools-v99-4-1-4-sources-jar/org/openqa/selenium/devtools/v99/schema/model/Domain.java
```

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

```
private final java.util.List<org.openqa.selenium.devtools.v99.performancetimeline.model.LayoutShiftAttribution>
sources;
public LayoutShift(java.lang.Number value, java.lang.Boolean hadRecentInput,
org.openqa.selenium.devtools.v99.network.model.TimeSinceEpoch lastInputTime,
java.util.List<org.openqa.selenium.devtools.v99.performancetimeline.model.LayoutShiftAttribution> sources) {
public java.util.List<org.openqa.selenium.devtools.v99.performancetimeline.model.LayoutShiftAttribution>
getSources() {
java.util.List<org.openqa.selenium.devtools.v99.performancetimeline.model.LayoutShiftAttribution> sources =
null;
sources = input.read(new
com.google.common.reflect.TypeToken<java.util.List<org.openqa.selenium.devtools.v99.performancetimeline.mod
```

```
el.LayoutShiftAttribution>>() {
```

Found in path(s):

```
* /opt/cola/permits/1612247662_1680503819.6123538/0/selenium-devtools-v99-4-1-4-sources-
jar/org/openqa/selenium/devtools/v99/performance/timeline/model/LayoutShift.java
```

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

```
private final java.util.Optional<org.openqa.selenium.devtools.v99.audits.model.AttributionReportingIssueDetails>
attributionReportingIssueDetails;
public
InspectorIssueDetails(java.util.Optional<org.openqa.selenium.devtools.v99.audits.model.SameSiteCookieIssueDetail
s> sameSiteCookieIssueDetails,
java.util.Optional<org.openqa.selenium.devtools.v99.audits.model.MixedContentIssueDetails>
mixedContentIssueDetails,
java.util.Optional<org.openqa.selenium.devtools.v99.audits.model.BlockedByResponseIssueDetails>
blockedByResponseIssueDetails,
java.util.Optional<org.openqa.selenium.devtools.v99.audits.model.HeavyAdIssueDetails> heavyAdIssueDetails,
java.util.Optional<org.openqa.selenium.devtools.v99.audits.model.ContentSecurityPolicyIssueDetails>
contentSecurityPolicyIssueDetails,
java.util.Optional<org.openqa.selenium.devtools.v99.audits.model.SharedArrayBufferIssueDetails>
sharedArrayBufferIssueDetails,
java.util.Optional<org.openqa.selenium.devtools.v99.audits.model.TrustedWebActivityIssueDetails>
twaQualityEnforcementDetails,
java.util.Optional<org.openqa.selenium.devtools.v99.audits.model.LowTextContrastIssueDetails>
lowTextContrastIssueDetails, java.util.Optional<org.openqa.selenium.devtools.v99.audits.model.CorsIssueDetails>
corsIssueDetails,
java.util.Optional<org.openqa.selenium.devtools.v99.audits.model.AttributionReportingIssueDetails>
attributionReportingIssueDetails,
java.util.Optional<org.openqa.selenium.devtools.v99.audits.model.QuirksModeIssueDetails>
quirksModeIssueDetails,
java.util.Optional<org.openqa.selenium.devtools.v99.audits.model.NavigatorUserAgentIssueDetails>
navigatorUserAgentIssueDetails,
java.util.Optional<org.openqa.selenium.devtools.v99.audits.model.WasmCrossOriginModuleSharingIssueDetails>
wasmCrossOriginModuleSharingIssue,
java.util.Optional<org.openqa.selenium.devtools.v99.audits.model.GenericIssueDetails> genericIssueDetails,
java.util.Optional<org.openqa.selenium.devtools.v99.audits.model.DeprecationIssueDetails>
deprecationIssueDetails, java.util.Optional<org.openqa.selenium.devtools.v99.audits.model.ClientHintIssueDetails>
clientHintIssueDetails) {
this.attributionReportingIssueDetails = attributionReportingIssueDetails;
public java.util.Optional<org.openqa.selenium.devtools.v99.audits.model.AttributionReportingIssueDetails>
getAttributionReportingIssueDetails() {
return attributionReportingIssueDetails;
java.util.Optional<org.openqa.selenium.devtools.v99.audits.model.AttributionReportingIssueDetails>
attributionReportingIssueDetails = java.util.Optional.empty();
case "attributionReportingIssueDetails":
attributionReportingIssueDetails =
java.util.Optional.ofNullable(input.read(org.openqa.selenium.devtools.v99.audits.model.AttributionReportingIssue
Details.class));
```



return new InspectorIssueDetails(sameSiteCookieIssueDetails, mixedContentIssueDetails, blockedByResponseIssueDetails, heavyAdIssueDetails, contentSecurityPolicyIssueDetails, sharedArrayBufferIssueDetails, twaQualityEnforcementDetails, lowTextContrastIssueDetails, corsIssueDetails, attributionReportingIssueDetails, quirksModeIssueDetails, navigatorUserAgentIssueDetails, wasmCrossOriginModuleSharingIssue, genericIssueDetails, deprecationIssueDetails, clientHintIssueDetails);

Found in path(s):

\* /opt/cola/permits/1612247662\_1680503819.6123538/0/selenium-devtools-v99-4-1-4-sources-jar/org/openqa/selenium/devtools/v99/audits/model/InspectorIssueDetails.java

## 1.131 lang-tag 1.6

### 1.131.1 Available under license :

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```
/*
 * lang-tag
 *
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 * under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR
 * CONDITIONS OF ANY KIND, either express or implied. See the License for the
 * specific language governing permissions and limitations under the License.
 */
```

Found in path(s):

\* /opt/cola/permits/1290251624\_1647537869.49/0/lang-tag-1-6-sources-jar/com/nimbusds/langtag/package-info.java  
\* /opt/cola/permits/1290251624\_1647537869.49/0/lang-tag-1-6-sources-jar/com/nimbusds/langtag/LangTag.java  
\* /opt/cola/permits/1290251624\_1647537869.49/0/lang-tag-1-6-sources-jar/com/nimbusds/langtag/ReadOnlyLangTag.java  
\* /opt/cola/permits/1290251624\_1647537869.49/0/lang-tag-1-6-sources-jar/com/nimbusds/langtag/LangTagException.java  
\* /opt/cola/permits/1290251624\_1647537869.49/0/lang-tag-1-6-sources-jar/com/nimbusds/langtag/LangTagUtils.java

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<url><http://www.apache.org/licenses/LICENSE-2.0.txt></url>

Found in path(s):

\* /opt/cola/permits/1290251624\_1647537869.49/0/lang-tag-1-6-sources-jar/META-INF/maven/com.nimbusds/lang-tag/pom.xml

## 1.132 content-type 2.2

### 1.132.1 Available under license :

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```
/*
 * oauth2-oidc-sdk
 *
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 *
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 * this file except in compliance with the License. You may obtain a copy of the
 * License at
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 * under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR
 * CONDITIONS OF ANY KIND, either express or implied. See the License for the
 * specific language governing permissions and limitations under the License.
 */
```

Found in path(s):

```
* /opt/cola/permits/1446393953_1666186115.6012564/0/content-type-2-2-sources-1-
jar/com/nimbusds/common/contenttype/ContentType.java
```

## 1.133 brave 5.13.9

### 1.133.1 Available under license :

Apache License  
Version 2.0, January 2004  
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- \* /opt/cola/permits/1257893430\_1643020031.65/0/feign-form-3-8-0-sources-jar/feign/form/FormProperty.java
- \* /opt/cola/permits/1257893430\_1643020031.65/0/feign-form-3-8-0-sources-jar/feign/form/util/PojoUtil.java
- \* /opt/cola/permits/1257893430\_1643020031.65/0/feign-form-3-8-0-sources-jar/feign/form/ContentProcessor.java
- \* /opt/cola/permits/1257893430\_1643020031.65/0/feign-form-3-8-0-sources-jar/feign/form/multipart/SingleFileWriter.java
- \* /opt/cola/permits/1257893430\_1643020031.65/0/feign-form-3-8-0-sources-jar/feign/form/multipart/PojoWriter.java
- \* /opt/cola/permits/1257893430\_1643020031.65/0/feign-form-3-8-0-sources-jar/feign/form/util/CharsetUtil.java
- \* /opt/cola/permits/1257893430\_1643020031.65/0/feign-form-3-8-0-sources-jar/feign/form/multipart/SingleParameterWriter.java
- \* /opt/cola/permits/1257893430\_1643020031.65/0/feign-form-3-8-0-sources-jar/feign/form/multipart/DelegateWriter.java
- \* /opt/cola/permits/1257893430\_1643020031.65/0/feign-form-3-8-0-sources-jar/feign/form/multipart/FormDataReader.java
- \* /opt/cola/permits/1257893430\_1643020031.65/0/feign-form-3-8-0-sources-jar/feign/form/FormData.java
- \* /opt/cola/permits/1257893430\_1643020031.65/0/feign-form-3-8-0-sources-jar/feign/form/multipart/ManyParametersWriter.java
- \* /opt/cola/permits/1257893430\_1643020031.65/0/feign-form-3-8-0-sources-jar/feign/form/multipart/Output.java
- \* /opt/cola/permits/1257893430\_1643020031.65/0/feign-form-3-8-0-sources-jar/feign/form/multipart/AbstractWriter.java
- \* /opt/cola/permits/1257893430\_1643020031.65/0/feign-form-3-8-0-sources-jar/feign/form/ContentType.java
- \* /opt/cola/permits/1257893430\_1643020031.65/0/feign-form-3-8-0-sources-jar/feign/form/MultipartFormContentProcessor.java
- \* /opt/cola/permits/1257893430\_1643020031.65/0/feign-form-3-8-0-sources-jar/feign/form/multipart/Writer.java
- \* /opt/cola/permits/1257893430\_1643020031.65/0/feign-form-3-8-0-sources-jar/feign/form/multipart/ByteArrayWriter.java
- \* /opt/cola/permits/1257893430\_1643020031.65/0/feign-form-3-8-0-sources-jar/feign/form/UrlencodedFormContentProcessor.java

# 1.141 log4j-api 2.17.2

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\* /opt/cola/permits/1568674937\_1676616970.4674265/0/netty-transport-4-1-89-final-sources-jar/io/netty/channel/ServerChannelRecvByteBufAllocator.java

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 */
/**
 * Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in
 * its { @link ChannelPipeline}.
 *
 * <h3>Sub-types</h3>
 * <p>
 * { @link ChannelHandler} itself does not provide many methods, but you usually have to implement one of its
 * subtypes:
 *
 * { @link ChannelInboundHandler} to handle inbound I/O events, and
 * { @link ChannelOutboundHandler} to handle outbound I/O operations.
 *
 */
```

```

* </p>
* <p>
* Alternatively, the following adapter classes are provided for your convenience:
*
* { @link ChannelInboundHandlerAdapter } to handle inbound I/O events,
* { @link ChannelOutboundHandlerAdapter } to handle outbound I/O operations, and
* { @link ChannelDuplexHandler } to handle both inbound and outbound events
*
* </p>
* <p>
* For more information, please refer to the documentation of each subtype.
* </p>
*
* <h3>The context object</h3>
* <p>
* A { @link ChannelHandler } is provided with a { @link ChannelHandlerContext }
* object. A { @link ChannelHandler } is supposed to interact with the
* { @link ChannelPipeline } it belongs to via a context object. Using the
* context object, the { @link ChannelHandler } can pass events upstream or
* downstream, modify the pipeline dynamically, or store the information
* (using { @link AttributeKey }s) which is specific to the handler.
*
* <h3>State management</h3>
*
* A { @link ChannelHandler } often needs to store some stateful information.
* The simplest and recommended approach is to use member variables:
* <pre>
* public interface Message {
* // your methods here
* }
*
* public class DataServerHandler extends { @link SimpleChannelInboundHandler } <Message > {
*
* private boolean loggedIn;
*
* { @code @Override }
* public void channelRead0({ @link ChannelHandlerContext } ctx, Message message) {
* if (message instanceof LoginMessage) {
* authenticate((LoginMessage) message);
* loggedIn = true;
* } else (message instanceof GetDataMessage) {
* if (loggedIn) {
* ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
* } else {
* fail();
* }
* }
* }
* }

```

```

* ...
* }
* </pre>
* Because the handler instance has a state variable which is dedicated to
* one connection, you have to create a new handler instance for each new
* channel to avoid a race condition where an unauthenticated client can get
* the confidential information:
* <pre>
* // Create a new handler instance per channel.
* // See { @link ChannelInitializer#initChannel(Channel)}.
* public class DataServerInitializer extends { @link ChannelInitializer}<&{ @link Channel}> {
* { @code @Override}
* public void initChannel({ @link Channel} channel) {
* channel.pipeline().addLast("handler", new DataServerHandler());
* }
* }
*
* </pre>
*
* <h4>Using { @link AttributeKey}s</h4>
*
* Although it's recommended to use member variables to store the state of a
* handler, for some reason you might not want to create many handler instances.
* In such a case, you can use { @link AttributeKey}s which is provided by
* { @link ChannelHandlerContext}:
* <pre>
* public interface Message {
* // your methods here
* }
*
* { @code @Sharable}
* public class DataServerHandler extends { @link SimpleChannelInboundHandler}<&Message> {
* private final { @link AttributeKey}<&{ @link Boolean}> auth =
* { @link AttributeKey#valueOf(String) AttributeKey.valueOf("auth")};
*
* { @code @Override}
* public void channelRead({ @link ChannelHandlerContext} ctx, Message message) {
* { @link Attribute}<&{ @link Boolean}> attr = ctx.attr(auth);
* if (message instanceof LoginMessage) {
* authenticate((LoginMessage) o);
* attr.set(true);
* } else (message instanceof GetDataMessage) {
* if (Boolean.TRUE.equals(attr.get())) {
* ctx.writeAndFlush(fetchSecret((GetDataMessage) o));
* } else {
* fail();
* }
* }
* }
* }

```

```

* }
* ...
* }
* </pre>

```

\* Now that the state of the handler is attached to the { @link ChannelHandlerContext}, you can add the same handler instance to different pipelines:

```

* <pre>
* public class DataServerInitializer extends { @link ChannelInitializer}<&{ @link Channel}> {
*
* private static final DataServerHandler SHARED = new DataServerHandler();
*
* { @code @Override}
* public void initChannel({ @link Channel} channel) {
* channel.pipeline().addLast("handler", SHARED);
* }
* }
* </pre>

```

\*

\*

\* <h4>The { @code @Sharable} annotation</h4>

\* <p>

\* In the example above which used an { @link AttributeKey}, you might have noticed the { @code @Sharable} annotation.

\* <p>

\* If a { @link ChannelHandler} is annotated with the { @code @Sharable} annotation, it means you can create an instance of the handler just once and add it to one or more { @link ChannelPipeline}s multiple times without a race condition.

\* <p>

\* If this annotation is not specified, you have to create a new handler instance every time you add it to a pipeline because it has unshared state such as member variables.

\* <p>

\* This annotation is provided for documentation purpose, just like <a href="http://www.javaconcurrencyinpractice.com/annotations/doc/">the JCIP annotations</a>.

\*

\* <h3>Additional resources worth reading</h3>

\* <p>

\* Please refer to the { @link ChannelHandler}, and { @link ChannelPipeline} to find out more about inbound and outbound operations, what fundamental differences they have, how they flow in a pipeline, and how to handle the operation in your application.

\*/

Found in path(s):

\* /opt/cola/permits/1568674937\_1676616970.4674265/0/netty-transport-4-1-89-final-sources-jar/io/netty/channel/ChannelHandler.java

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jar/io/netty/channel/ExtendedClosedChannelException.java
* /opt/cola/permits/1568674937_1676616970.4674265/0/netty-transport-4-1-89-final-sources-
jar/io/netty/channel/EventLoopTaskQueueFactory.java
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* /opt/cola/permits/1568674937_1676616970.4674265/0/netty-transport-4-1-89-final-sources-
jar/io/netty/channel/socket/oio/OioDatagramChannelConfig.java
```

\* /opt/cola/permits/1568674937\_1676616970.4674265/0/netty-transport-4-1-89-final-sources-jar/io/netty/bootstrap/FailedChannel.java  
\* /opt/cola/permits/1568674937\_1676616970.4674265/0/netty-transport-4-1-89-final-sources-jar/io/netty/channel/nio/SelectedSelectionKeySetSelector.java  
\* /opt/cola/permits/1568674937\_1676616970.4674265/0/netty-transport-4-1-89-final-sources-jar/io/netty/channel/socket/oio/DefaultOioDatagramChannelConfig.java  
\* /opt/cola/permits/1568674937\_1676616970.4674265/0/netty-transport-4-1-89-final-sources-jar/io/netty/channel/socket/ChannelOutputShutdownException.java  
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\* /opt/cola/permits/1568674937\_1676616970.4674265/0/netty-transport-4-1-89-final-sources-jar/io/netty/channel/DelegatingChannelPromiseNotifier.java  
\* /opt/cola/permits/1568674937\_1676616970.4674265/0/netty-transport-4-1-89-final-sources-jar/io/netty/channel/internal/package-info.java

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\* /opt/cola/permits/1568674937\_1676616970.4674265/0/netty-transport-4-1-89-final-sources-jar/io/netty/channel/PendingWriteQueue.java

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\* /opt/cola/permits/1568674937\_1676616970.4674265/0/netty-transport-4-1-89-final-sources-jar/META-INF/native-image/io.netty/netty-transport/native-image.properties

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\* /opt/cola/permits/1568674937\_1676616970.4674265/0/netty-transport-4-1-89-final-sources-jar/io/netty/channel/DefaultMaxMessagesRecvByteBufAllocator.java

\* /opt/cola/permits/1568674937\_1676616970.4674265/0/netty-transport-4-1-89-final-sources-

jar/io/netty/channel/MaxBytesRecvByteBufAllocator.java  
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jar/io/netty/channel/DefaultMaxBytesRecvByteBufAllocator.java  
\* /opt/cola/permits/1568674937\_1676616970.4674265/0/netty-transport-4-1-89-final-sources-  
jar/io/netty/channel/pool/FixedChannelPool.java  
\* /opt/cola/permits/1568674937\_1676616970.4674265/0/netty-transport-4-1-89-final-sources-  
jar/io/netty/channel/pool/SimpleChannelPool.java  
\* /opt/cola/permits/1568674937\_1676616970.4674265/0/netty-transport-4-1-89-final-sources-  
jar/io/netty/channel/pool/package-info.java  
\* /opt/cola/permits/1568674937\_1676616970.4674265/0/netty-transport-4-1-89-final-sources-  
jar/io/netty/channel/pool/AbstractChannelPoolMap.java  
\* /opt/cola/permits/1568674937\_1676616970.4674265/0/netty-transport-4-1-89-final-sources-  
jar/io/netty/channel/pool/ChannelPool.java  
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jar/io/netty/channel/pool/ChannelPoolMap.java  
\* /opt/cola/permits/1568674937\_1676616970.4674265/0/netty-transport-4-1-89-final-sources-  
jar/io/netty/channel/pool/ChannelPoolHandler.java  
\* /opt/cola/permits/1568674937\_1676616970.4674265/0/netty-transport-4-1-89-final-sources-  
jar/io/netty/channel/MaxMessagesRecvByteBufAllocator.java  
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\* /opt/cola/permits/1568674937\_1676616970.4674265/0/netty-transport-4-1-89-final-sources-jar/io/netty/channel/socket/DuplexChannel.java  
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\* /opt/cola/permits/1568674937\_1676616970.4674265/0/netty-transport-4-1-89-final-sources-jar/io/netty/bootstrap/AbstractBootstrapConfig.java  
\* /opt/cola/permits/1568674937\_1676616970.4674265/0/netty-transport-4-1-89-final-sources-jar/io/netty/bootstrap/BootstrapConfig.java  
\* /opt/cola/permits/1568674937\_1676616970.4674265/0/netty-transport-4-1-89-final-sources-jar/io/netty/bootstrap/ServerBootstrapConfig.java  
\* /opt/cola/permits/1568674937\_1676616970.4674265/0/netty-transport-4-1-89-final-sources-jar/io/netty/channel/DefaultSelectStrategy.java  
\* /opt/cola/permits/1568674937\_1676616970.4674265/0/netty-transport-4-1-89-final-sources-jar/io/netty/channel/group/VoidChannelGroupFuture.java  
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\* /opt/cola/permits/1568674937\_1676616970.4674265/0/netty-transport-4-1-89-final-sources-jar/io/netty/channel/ChannelOutboundInvoker.java  
\* /opt/cola/permits/1568674937\_1676616970.4674265/0/netty-transport-4-1-89-final-sources-jar/io/netty/channel/DefaultSelectStrategyFactory.java  
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- \* /opt/cola/permits/1568674937\_1676616970.4674265/0/netty-transport-4-1-89-final-sources-jar/io/netty/channel/socket/oio/DefaultOioSocketChannelConfig.java
- \* /opt/cola/permits/1568674937\_1676616970.4674265/0/netty-transport-4-1-89-final-sources-jar/io/netty/channel/ChannelProgressiveFuture.java
- \* /opt/cola/permits/1568674937\_1676616970.4674265/0/netty-transport-4-1-89-final-sources-jar/io/netty/channel/group/ChannelGroupException.java
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- \* /opt/cola/permits/1568674937\_1676616970.4674265/0/netty-transport-4-1-89-final-sources-jar/io/netty/channel/socket/oio/OioServerSocketChannelConfig.java
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- \* /opt/cola/permits/1568674937\_1676616970.4674265/0/netty-transport-4-1-89-final-sources-jar/io/netty/channel/AbstractEventLoopGroup.java
- \* /opt/cola/permits/1568674937\_1676616970.4674265/0/netty-transport-4-1-89-final-sources-jar/io/netty/channel/group/ChannelMatchers.java
- \* /opt/cola/permits/1568674937\_1676616970.4674265/0/netty-transport-4-1-89-final-sources-jar/io/netty/channel/MessageSizeEstimator.java
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\* /opt/cola/permits/1568674937\_1676616970.4674265/0/netty-transport-4-1-89-final-sources-jar/io/netty/channel/SimpleChannelInboundHandler.java  
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jar/io/netty/channel/socket/DuplexChannelConfig.java

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\* /opt/cola/permits/1568674937\_1676616970.4674265/0/netty-transport-4-1-89-final-sources-jar/io/netty/channel/AbstractServerChannel.java

\* /opt/cola/permits/1568674937\_1676616970.4674265/0/netty-transport-4-1-89-final-sources-jar/io/netty/channel/socket/DefaultServerSocketChannelConfig.java

\* /opt/cola/permits/1568674937\_1676616970.4674265/0/netty-transport-4-1-89-final-sources-jar/io/netty/bootstrap/Bootstrap.java

\* /opt/cola/permits/1568674937\_1676616970.4674265/0/netty-transport-4-1-89-final-sources-jar/io/netty/channel/ThreadPerChannelEventLoopGroup.java

\* /opt/cola/permits/1568674937\_1676616970.4674265/0/netty-transport-4-1-89-final-sources-jar/io/netty/channel/ChannelPromise.java



\* /opt/cola/permits/1568674937\_1676616970.4674265/0/netty-transport-4-1-89-final-sources-jar/io/netty/channel/ChannelInboundHandler.java  
\* /opt/cola/permits/1568674937\_1676616970.4674265/0/netty-transport-4-1-89-final-sources-jar/io/netty/channel/nio/NioEventLoop.java  
\* /opt/cola/permits/1568674937\_1676616970.4674265/0/netty-transport-4-1-89-final-sources-jar/io/netty/channel/EventLoopGroup.java  
\* /opt/cola/permits/1568674937\_1676616970.4674265/0/netty-transport-4-1-89-final-sources-jar/io/netty/channel/oio/AbstractOioByteChannel.java  
\* /opt/cola/permits/1568674937\_1676616970.4674265/0/netty-transport-4-1-89-final-sources-jar/io/netty/channel/socket/DatagramPacket.java  
\* /opt/cola/permits/1568674937\_1676616970.4674265/0/netty-transport-4-1-89-final-sources-jar/io/netty/channel/group/package-info.java  
\* /opt/cola/permits/1568674937\_1676616970.4674265/0/netty-transport-4-1-89-final-sources-jar/io/netty/channel/EventLoopException.java  
\* /opt/cola/permits/1568674937\_1676616970.4674265/0/netty-transport-4-1-89-final-sources-jar/io/netty/channel/group/ChannelGroupFutureListener.java  
\* /opt/cola/permits/1568674937\_1676616970.4674265/0/netty-transport-4-1-89-final-sources-jar/io/netty/channel/SingleThreadEventLoop.java  
\* /opt/cola/permits/1568674937\_1676616970.4674265/0/netty-transport-4-1-89-final-sources-jar/io/netty/channel/FailedChannelFuture.java  
\* /opt/cola/permits/1568674937\_1676616970.4674265/0/netty-transport-4-1-89-final-sources-jar/io/netty/bootstrap/package-info.java  
\* /opt/cola/permits/1568674937\_1676616970.4674265/0/netty-transport-4-1-89-final-sources-jar/io/netty/channel/ChannelOption.java  
\* /opt/cola/permits/1568674937\_1676616970.4674265/0/netty-transport-4-1-89-final-sources-jar/io/netty/channel/socket/SocketChannelConfig.java  
\* /opt/cola/permits/1568674937\_1676616970.4674265/0/netty-transport-4-1-89-final-sources-jar/io/netty/channel/nio/AbstractNioByteChannel.java  
\* /opt/cola/permits/1568674937\_1676616970.4674265/0/netty-transport-4-1-89-final-sources-jar/io/netty/channel/socket/nio/package-info.java  
\* /opt/cola/permits/1568674937\_1676616970.4674265/0/netty-transport-4-1-89-final-sources-jar/io/netty/channel/CompleteChannelFuture.java  
\* /opt/cola/permits/1568674937\_1676616970.4674265/0/netty-transport-4-1-89-final-sources-jar/io/netty/channel/socket/oio/package-info.java  
\* /opt/cola/permits/1568674937\_1676616970.4674265/0/netty-transport-4-1-89-final-sources-jar/io/netty/channel/DefaultChannelPromise.java  
\* /opt/cola/permits/1568674937\_1676616970.4674265/0/netty-transport-4-1-89-final-sources-jar/io/netty/channel/ChannelPromiseNotifier.java  
\* /opt/cola/permits/1568674937\_1676616970.4674265/0/netty-transport-4-1-89-final-sources-jar/io/netty/channel/local/LocalChannel.java  
\* /opt/cola/permits/1568674937\_1676616970.4674265/0/netty-transport-4-1-89-final-sources-jar/io/netty/channel/nio/NioEventLoopGroup.java  
\* /opt/cola/permits/1568674937\_1676616970.4674265/0/netty-transport-4-1-89-final-sources-jar/io/netty/channel/socket/oio/OioSocketChannel.java  
\* /opt/cola/permits/1568674937\_1676616970.4674265/0/netty-transport-4-1-89-final-sources-jar/io/netty/channel/socket/DatagramChannel.java  
\* /opt/cola/permits/1568674937\_1676616970.4674265/0/netty-transport-4-1-89-final-sources-jar/io/netty/channel/AbstractChannel.java

\* /opt/cola/permits/1568674937\_1676616970.4674265/0/netty-transport-4-1-89-final-sources-jar/io/netty/channel/Channel.java

\* /opt/cola/permits/1568674937\_1676616970.4674265/0/netty-transport-4-1-89-final-sources-jar/io/netty/channel/socket/SocketChannel.java

\* /opt/cola/permits/1568674937\_1676616970.4674265/0/netty-transport-4-1-89-final-sources-jar/io/netty/channel/ChannelHandlerContext.java

\* /opt/cola/permits/1568674937\_1676616970.4674265/0/netty-transport-4-1-89-final-sources-jar/io/netty/bootstrap/ServerBootstrap.java

\* /opt/cola/permits/1568674937\_1676616970.4674265/0/netty-transport-4-1-89-final-sources-jar/io/netty/channel/socket/package-info.java

\* /opt/cola/permits/1568674937\_1676616970.4674265/0/netty-transport-4-1-89-final-sources-jar/io/netty/channel/CombinedChannelDuplexHandler.java

\* /opt/cola/permits/1568674937\_1676616970.4674265/0/netty-transport-4-1-89-final-sources-jar/io/netty/channel/socket/nio/NioDatagramChannelConfig.java

\* /opt/cola/permits/1568674937\_1676616970.4674265/0/netty-transport-4-1-89-final-sources-jar/io/netty/channel/ChannelFutureListener.java

\* /opt/cola/permits/1568674937\_1676616970.4674265/0/netty-transport-4-1-89-final-sources-jar/io/netty/channel/socket/oio/OioServerSocketChannel.java

\* /opt/cola/permits/1568674937\_1676616970.4674265/0/netty-transport-4-1-89-final-sources-jar/io/netty/channel/socket/nio/ProtocolFamilyConverter.java

\* /opt/cola/permits/1568674937\_1676616970.4674265/0/netty-transport-4-1-89-final-sources-jar/io/netty/channel/ChannelMetadata.java

\* /opt/cola/permits/1568674937\_1676616970.4674265/0/netty-transport-4-1-89-final-sources-jar/io/netty/channel/embedded/EmbeddedEventLoop.java

\* /opt/cola/permits/1568674937\_1676616970.4674265/0/netty-transport-4-1-89-final-sources-jar/io/netty/channel/embedded/package-info.java

\* /opt/cola/permits/1568674937\_1676616970.4674265/0/netty-transport-4-1-89-final-sources-jar/io/netty/channel/DefaultEventLoopGroup.java

\* /opt/cola/permits/1568674937\_1676616970.4674265/0/netty-transport-4-1-89-final-sources-jar/io/netty/channel/ChannelPromiseAggregator.java

\* /opt/cola/permits/1568674937\_1676616970.4674265/0/netty-transport-4-1-89-final-sources-jar/io/netty/channel/FileRegion.java

\* /opt/cola/permits/1568674937\_1676616970.4674265/0/netty-transport-4-1-89-final-sources-jar/io/netty/channel/socket/ChannelInputShutdownEvent.java

\* /opt/cola/permits/1568674937\_1676616970.4674265/0/netty-transport-4-1-89-final-sources-jar/io/netty/channel/ServerChannel.java

\* /opt/cola/permits/1568674937\_1676616970.4674265/0/netty-transport-4-1-89-final-sources-jar/io/netty/channel/socket/oio/OioDatagramChannel.java

\* /opt/cola/permits/1568674937\_1676616970.4674265/0/netty-transport-4-1-89-final-sources-jar/io/netty/channel/VoidChannelPromise.java

\* /opt/cola/permits/1568674937\_1676616970.4674265/0/netty-transport-4-1-89-final-sources-jar/io/netty/channel/ChannelDuplexHandler.java

\* /opt/cola/permits/1568674937\_1676616970.4674265/0/netty-transport-4-1-89-final-sources-jar/io/netty/channel/socket/nio/NioServerSocketChannel.java

\* /opt/cola/permits/1568674937\_1676616970.4674265/0/netty-transport-4-1-89-final-sources-jar/io/netty/channel/embedded/EmbeddedChannel.java

\* /opt/cola/permits/1568674937\_1676616970.4674265/0/netty-transport-4-1-89-final-sources-jar/io/netty/channel/ChannelPipelineException.java

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* /opt/cola/permits/1568674937_1676616970.4674265/0/netty-transport-4-1-89-final-sources-
jar/io/netty/channel/AbstractChannelHandlerContext.java
* /opt/cola/permits/1568674937_1676616970.4674265/0/netty-transport-4-1-89-final-sources-
jar/io/netty/channel/ChannelInitializer.java
* /opt/cola/permits/1568674937_1676616970.4674265/0/netty-transport-4-1-89-final-sources-
jar/io/netty/channel/socket/DefaultDatagramChannelConfig.java
* /opt/cola/permits/1568674937_1676616970.4674265/0/netty-transport-4-1-89-final-sources-
jar/io/netty/channel/ChannelConfig.java
* /opt/cola/permits/1568674937_1676616970.4674265/0/netty-transport-4-1-89-final-sources-
jar/io/netty/channel/RecvByteBufAllocator.java
* /opt/cola/permits/1568674937_1676616970.4674265/0/netty-transport-4-1-89-final-sources-
jar/io/netty/channel/socket/nio/NioDatagramChannel.java
* /opt/cola/permits/1568674937_1676616970.4674265/0/netty-transport-4-1-89-final-sources-
jar/io/netty/channel/oio/package-info.java

```

## 1.143 tomcat-coyote 9.0.1

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* /opt/cola/permits/1616263251_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-
jar/org/apache/tomcat/util/net/openssl/LocalStrings.properties
* /opt/cola/permits/1616263251_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-
jar/org/apache/coyote/http11/LocalStrings.properties
* /opt/cola/permits/1616263251_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-
jar/org/apache/tomcat/util/http/LocalStrings.properties
* /opt/cola/permits/1616263251_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-
jar/org/apache/tomcat/util/http/parser/LocalStrings.properties
* /opt/cola/permits/1616263251_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-
jar/org/apache/tomcat/util/net/jsse/LocalStrings.properties
* /opt/cola/permits/1616263251_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-
jar/org/apache/coyote/http2/LocalStrings.properties
* /opt/cola/permits/1616263251_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-
jar/org/apache/coyote/http11/filters/LocalStrings.properties
* /opt/cola/permits/1616263251_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-
jar/org/apache/tomcat/util/net/openssl/ciphers/LocalStrings.properties
* /opt/cola/permits/1616263251_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-
jar/org/apache/coyote/LocalStrings.properties
* /opt/cola/permits/1616263251_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-
jar/org/apache/coyote/http11/upgrade/LocalStrings.properties

```

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* /opt/cola/permits/1616263251_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-
jar/org/apache/tomcat/util/net/LocalStrings.properties
* /opt/cola/permits/1616263251_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-
jar/org/apache/coyote/ajp/LocalStrings.properties
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Found in path(s):

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* /opt/cola/permits/1616263251_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-
jar/org/apache/coyote/mbeans-descriptors.xml
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* /opt/cola/permits/1616263251_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-
```

jar/org/apache/tomcat/util/bcel/Const.java

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\* /opt/cola/permits/1616263251\_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-jar/org/apache/coyote/ajp/AjpNio2Protocol.java  
\* /opt/cola/permits/1616263251\_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-jar/org/apache/coyote/http2/ConnectionSettingsBase.java  
\* /opt/cola/permits/1616263251\_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-jar/org/apache/coyote/Request.java  
\* /opt/cola/permits/1616263251\_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-jar/org/apache/tomcat/util/net/openssl/ciphers/EncryptionLevel.java  
\* /opt/cola/permits/1616263251\_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-jar/org/apache/coyote/http11/upgrade/UpgradeServletOutputStream.java  
\* /opt/cola/permits/1616263251\_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-jar/org/apache/tomcat/util/net/DispatchType.java  
\* /opt/cola/permits/1616263251\_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-jar/org/apache/coyote/ajp/Constants.java  
\* /opt/cola/permits/1616263251\_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-jar/org/apache/coyote/http11/Http11Nio2Protocol.java  
\* /opt/cola/permits/1616263251\_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-jar/org/apache/coyote/Response.java  
\* /opt/cola/permits/1616263251\_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-jar/org/apache/coyote/http2/Http2Error.java  
\* /opt/cola/permits/1616263251\_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-jar/org/apache/coyote/ActionHook.java  
\* /opt/cola/permits/1616263251\_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-jar/org/apache/coyote/http11/Constants.java  
\* /opt/cola/permits/1616263251\_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-jar/org/apache/coyote/ErrorState.java  
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jar/org/apache/coyote/http11/InputFilter.java  
\* /opt/cola/permits/1616263251\_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-  
jar/org/apache/coyote/UpgradeToken.java  
\* /opt/cola/permits/1616263251\_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-  
jar/org/apache/tomcat/util/http/parser/MediaType.java  
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\* /opt/cola/permits/1616263251\_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-  
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jar/org/apache/coyote/http2/HpackException.java  
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\* /opt/cola/permits/1616263251\_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-  
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jar/org/apache/tomcat/util/net/openssl/ciphers/Encryption.java  
\* /opt/cola/permits/1616263251\_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-  
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jar/org/apache/coyote/AbstractProcessorLight.java  
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jar/org/apache/tomcat/util/net/AprEndpoint.java  
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jar/org/apache/coyote/AsyncStateMachine.java  
\* /opt/cola/permits/1616263251\_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-  
jar/org/apache/coyote/http11/filters/ChunkedOutputFilter.java  
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jar/org/apache/tomcat/util/net/SendfileState.java  
\* /opt/cola/permits/1616263251\_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-  
jar/org/apache/tomcat/util/net/openssl/ciphers/Protocol.java  
\* /opt/cola/permits/1616263251\_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-  
jar/org/apache/coyote/http11/OutputFilter.java  
\* /opt/cola/permits/1616263251\_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-  
jar/org/apache/tomcat/util/log/CaptureLog.java  
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jar/org/apache/tomcat/util/net/openssl/OpenSSLConf.java  
\* /opt/cola/permits/1616263251\_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-  
jar/org/apache/tomcat/util/net/AprSSLSupport.java  
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jar/org/apache/tomcat/util/net/openssl/OpenSSLConfCmd.java  
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jar/org/apache/coyote/http11/Http11AprProtocol.java  
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jar/org/apache/tomcat/util/net/openssl/ciphers/MessageDigest.java  
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jar/org/apache/tomcat/util/http/ServerCookie.java  
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jar/org/apache/coyote/http2/StreamRunnable.java  
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jar/org/apache/tomcat/util/bcel/classfile/ElementValue.java  
\* /opt/cola/permits/1616263251\_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-  
jar/org/apache/coyote/Constants.java  
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jar/org/apache/coyote/http2/Http2Protocol.java  
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jar/org/apache/tomcat/util/http/LegacyCookieProcessor.java  
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\* /opt/cola/permits/1616263251\_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-  
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\* /opt/cola/permits/1616263251\_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-  
jar/org/apache/coyote/http11/filters/GzipOutputFilter.java  
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jar/org/apache/tomcat/util/net/SSLContext.java
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* /opt/cola/permits/1616263251_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-
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* /opt/cola/permits/1616263251_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-
jar/org/apache/coyote/UpgradeProtocol.java
* /opt/cola/permits/1616263251_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-
jar/org/apache/coyote/http11/filters/IdentityOutputFilter.java
* /opt/cola/permits/1616263251_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-
jar/org/apache/coyote/ajp/AjpProcessor.java
```

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Found in path(s):

```
* /opt/cola/permits/1616263251_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-
jar/org/apache/tomcat/util/bcel/classfile/ConstantFloat.java
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jar/org/apache/tomcat/util/bcel/classfile/Constant.java
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jar/org/apache/tomcat/util/bcel/classfile/ConstantPool.java
* /opt/cola/permits/1616263251_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-
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* /opt/cola/permits/1616263251_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-
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\* /opt/cola/permits/1616263251\_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-jar/org/apache/tomcat/util/http/fileupload/util/mime/ParseException.java  
\* /opt/cola/permits/1616263251\_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-jar/org/apache/tomcat/util/modeler/modules/ModelerSource.java  
\* /opt/cola/permits/1616263251\_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-jar/org/apache/tomcat/util/net/NioSelectorPool.java

\* /opt/cola/permits/1616263251\_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-jar/org/apache/tomcat/util/net/SecureNioChannel.java  
\* /opt/cola/permits/1616263251\_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-jar/org/apache/tomcat/util/modeler/Registry.java  
\* /opt/cola/permits/1616263251\_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-jar/org/apache/tomcat/util/http/parser/SkipResult.java  
\* /opt/cola/permits/1616263251\_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-jar/org/apache/tomcat/util/http/fileupload/ProgressListener.java  
\* /opt/cola/permits/1616263251\_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-jar/org/apache/tomcat/util/net/Nio2Channel.java  
\* /opt/cola/permits/1616263251\_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-jar/org/apache/tomcat/util/http/fileupload/FileItemFactory.java  
\* /opt/cola/permits/1616263251\_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-jar/org/apache/tomcat/util/http/fileupload/FileItemStream.java  
\* /opt/cola/permits/1616263251\_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-jar/org/apache/tomcat/util/http/fileupload/RequestContext.java  
\* /opt/cola/permits/1616263251\_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-jar/org/apache/tomcat/util/http/fileupload/disk/DiskFileItem.java  
\* /opt/cola/permits/1616263251\_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-jar/org/apache/tomcat/util/net/openssl/OpenSSLKeyManager.java  
\* /opt/cola/permits/1616263251\_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-jar/org/apache/tomcat/util/http/fileupload/FileItemHeadersSupport.java  
\* /opt/cola/permits/1616263251\_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-jar/org/apache/tomcat/util/http/fileupload/servlet/ServletFileUpload.java  
\* /opt/cola/permits/1616263251\_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-jar/org/apache/tomcat/util/modeler/RegistryMBean.java  
\* /opt/cola/permits/1616263251\_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-jar/org/apache/tomcat/util/net/AbstractEndpoint.java  
\* /opt/cola/permits/1616263251\_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-jar/org/apache/tomcat/util/http/fileupload/FileUploadBase.java  
\* /opt/cola/permits/1616263251\_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-jar/org/apache/tomcat/util/modeler/FeatureInfo.java  
\* /opt/cola/permits/1616263251\_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-jar/org/apache/tomcat/util/http/fileupload/FileItemIterator.java  
\* /opt/cola/permits/1616263251\_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-jar/org/apache/tomcat/util/http/fileupload/UploadContext.java  
\* /opt/cola/permits/1616263251\_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-jar/org/apache/tomcat/util/modeler/BaseModelMBean.java  
\* /opt/cola/permits/1616263251\_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-jar/org/apache/tomcat/util/http/fileupload/util/package-info.java  
\* /opt/cola/permits/1616263251\_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-jar/org/apache/tomcat/util/http/fileupload/FileItemHeaders.java  
\* /opt/cola/permits/1616263251\_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-jar/org/apache/tomcat/util/http/fileupload/FileUploadException.java  
\* /opt/cola/permits/1616263251\_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-jar/org/apache/tomcat/util/modeler/modules/MbeansDescriptorsDigesterSource.java  
\* /opt/cola/permits/1616263251\_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-jar/org/apache/tomcat/util/net/openssl/OpenSSLImplementation.java

\* /opt/cola/permits/1616263251\_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-jar/org/apache/tomcat/util/http/fileupload/util/Streams.java

\* /opt/cola/permits/1616263251\_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-jar/org/apache/tomcat/util/net/openssl/OpenSSLProtocols.java

\* /opt/cola/permits/1616263251\_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-jar/org/apache/tomcat/util/http/fileupload/ThresholdingOutputStream.java

\* /opt/cola/permits/1616263251\_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-jar/org/apache/tomcat/util/modeler/BaseNotificationBroadcaster.java

\* /opt/cola/permits/1616263251\_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-jar/org/apache/tomcat/util/http/fileupload/util/Closeable.java

\* /opt/cola/permits/1616263251\_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-jar/org/apache/tomcat/util/http/parser/Host.java

\* /opt/cola/permits/1616263251\_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-jar/org/apache/tomcat/util/net/openssl/OpenSSLUtil.java

\* /opt/cola/permits/1616263251\_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-jar/org/apache/tomcat/util/net/ApplicationBufferHandler.java

\* /opt/cola/permits/1616263251\_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-jar/org/apache/tomcat/util/net/NioChannel.java

\* /opt/cola/permits/1616263251\_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-jar/org/apache/tomcat/util/net/SocketProperties.java

\* /opt/cola/permits/1616263251\_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-jar/org/apache/tomcat/util/net/SecureNio2Channel.java

\* /opt/cola/permits/1616263251\_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-jar/org/apache/tomcat/util/net/openssl/OpenSSLSessionContext.java

\* /opt/cola/permits/1616263251\_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-jar/org/apache/tomcat/util/http/fileupload/package-info.java

\* /opt/cola/permits/1616263251\_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-jar/org/apache/tomcat/util/http/fileupload/FileUtils.java

\* /opt/cola/permits/1616263251\_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-jar/org/apache/tomcat/util/http/fileupload/FileUpload.java

\* /opt/cola/permits/1616263251\_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-jar/org/apache/tomcat/util/http/fileupload/servlet/ServletRequestContext.java

\* /opt/cola/permits/1616263251\_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-jar/org/apache/tomcat/util/http/parser/Cookie.java

\* /opt/cola/permits/1616263251\_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-jar/org/apache/tomcat/util/http/fileupload/FileItem.java

\* /opt/cola/permits/1616263251\_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-jar/org/apache/tomcat/util/http/fileupload/util/mime/MimeUtility.java

\* /opt/cola/permits/1616263251\_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-jar/org/apache/tomcat/util/net/openssl/OpenSSLContext.java

\* /opt/cola/permits/1616263251\_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-jar/org/apache/tomcat/util/http/fileupload/disk/package-info.java

\* /opt/cola/permits/1616263251\_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-jar/org/apache/tomcat/util/modeler/NotificationInfo.java

\* /opt/cola/permits/1616263251\_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-jar/org/apache/tomcat/util/net/NioBlockingSelector.java

\* /opt/cola/permits/1616263251\_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-jar/org/apache/tomcat/util/modeler/ManagedBean.java

\* /opt/cola/permits/1616263251\_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-jar/org/apache/tomcat/util/http/fileupload/servlet/package-info.java

\* /opt/cola/permits/1616263251\_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-jar/org/apache/tomcat/util/http/fileupload/MultipartStream.java

\* /opt/cola/permits/1616263251\_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-jar/org/apache/tomcat/util/modeler/modules/MbeansDescriptorsIntrospectionSource.java

\* /opt/cola/permits/1616263251\_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-jar/org/apache/tomcat/util/http/fileupload/util/mime/QuotedPrintableDecoder.java

\* /opt/cola/permits/1616263251\_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-jar/org/apache/tomcat/util/log/UserDataHelper.java

\* /opt/cola/permits/1616263251\_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-jar/org/apache/tomcat/util/modeler/ParameterInfo.java

\* /opt/cola/permits/1616263251\_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-jar/org/apache/tomcat/util/http/fileupload/InvalidFileNameException.java

\* /opt/cola/permits/1616263251\_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-jar/org/apache/tomcat/util/http/fileupload/IOUtils.java

\* /opt/cola/permits/1616263251\_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-jar/org/apache/tomcat/util/http/fileupload/DeferredFileOutputStream.java

\* /opt/cola/permits/1616263251\_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-jar/org/apache/tomcat/util/http/parser/Authorization.java

\* /opt/cola/permits/1616263251\_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-jar/org/apache/tomcat/util/http/fileupload/ParameterParser.java

\* /opt/cola/permits/1616263251\_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-jar/org/apache/tomcat/util/net/openssl/OpenSSLX509Certificate.java

\* /opt/cola/permits/1616263251\_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-jar/org/apache/tomcat/util/modeler/BaseAttributeFilter.java

\* /opt/cola/permits/1616263251\_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-jar/org/apache/tomcat/util/http/fileupload/util/FileItemHeadersImpl.java

\* /opt/cola/permits/1616263251\_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-jar/org/apache/tomcat/util/net/openssl/OpenSSLSessionStats.java

\* /opt/cola/permits/1616263251\_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-jar/org/apache/tomcat/util/http/fileupload/disk/DiskFileItemFactory.java

\* /opt/cola/permits/1616263251\_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-jar/org/apache/tomcat/util/modeler/OperationInfo.java

\* /opt/cola/permits/1616263251\_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-jar/org/apache/tomcat/util/modeler/AttributeInfo.java

\* /opt/cola/permits/1616263251\_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-jar/org/apache/tomcat/util/net/openssl/OpenSSLEngine.java

\* /opt/cola/permits/1616263251\_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-jar/org/apache/tomcat/util/http/parser/HttpParser.java

\* /opt/cola/permits/1616263251\_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-jar/org/apache/tomcat/util/http/fileupload/util/mime/package-info.java

\* /opt/cola/permits/1616263251\_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-jar/org/apache/tomcat/util/http/RequestUtil.java

\* /opt/cola/permits/1616263251\_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-jar/org/apache/tomcat/util/http/fileupload/ByteArrayOutputStream.java

\* /opt/cola/permits/1616263251\_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-jar/org/apache/tomcat/util/http/fileupload/util/LimitedInputStream.java

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\* /opt/cola/permits/1616263251\_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-jar/org/apache/tomcat/util/modeler/mbeans-descriptors.dtd

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\*/

/\*\*

\* Return the initialization parameters for the TrustManager.  
\* Currently, only the default `PKIX` is supported.  
\*  
\* @param crlf The path to the CRL file.  
\* @param trustStore The configured TrustStore.  
\* @param revocationEnabled Should the JSSE provider perform revocation checks? Ignored if { `crlf` } is non-null.  
\* Configuration of revocation checks are expected



```
* to be via proprietary JSSE provider methods.
* @return The parameters including the CRLs and TrustStore.
* @throws Exception An error occurred
*/
```

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```
* /opt/cola/permits/1616263251_1679926452.7589896/0/tomcat-coyote-9-0-1-sources-1-
jar/org/apache/tomcat/util/net/jsse/JSSEUtil.java
```

## 1.144 classgraph 4.8.149

### 1.144.1 Available under license :

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* Author: Luke Hutchison
*
* Hosted at: https://github.com/classgraph/classgraph
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* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-
jar/nonapi/io/github/classgraph/fileslice/reader/RandomAccessByteBufferReader.java
* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-
jar/nonapi/io/github/classgraph/fileslice/ArraySlice.java
* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-
jar/nonapi/io/github/classgraph/fileslice/reader/RandomAccessArrayReader.java
* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-
jar/nonapi/io/github/classgraph/fileslice/PathSlice.java
* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-
jar/nonapi/io/github/classgraph/fileslice/Slice.java
* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-
jar/nonapi/io/github/classgraph/fileslice/reader/RandomAccessReader.java
* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-
jar/nonapi/io/github/classgraph/fileslice/reader/SequentialReader.java
* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-
jar/nonapi/io/github/classgraph/fileslice/reader/ClassfileReader.java
* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-
jar/nonapi/io/github/classgraph/fileslice/FileSlice.java
* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-
jar/nonapi/io/github/classgraph/fileslice/reader/RandomAccessFileChannelReader.java
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\*

\* Author: Harith Elrufaie

\*

\* Hosted at: <https://github.com/classgraph/classgraph>

\*

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\* Author: Sergey Beshpalov

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\* Hosted at: <https://github.com/classgraph/classgraph>

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jar/nonapi/io/github/classgraph/classloaderhandler/WebsphereTraditionalClassLoaderHandler.java

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\* Author: Luke Hutchison

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\* /opt/cola/permits/1366065696\_1658113689.7612143/0/classgraph-4-8-149-sources-jar/io/github/classgraph/ClasspathElementZip.java

\* /opt/cola/permits/1366065696\_1658113689.7612143/0/classgraph-4-8-149-sources-jar/nonapi/io/github/classgraph/fastzipfilereader/PhysicalZipFile.java

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\* /opt/cola/permits/1366065696\_1658113689.7612143/0/classgraph-4-8-149-sources-jar/nonapi/io/github/classgraph/reflection/ReflectionUtils.java

\* /opt/cola/permits/1366065696\_1658113689.7612143/0/classgraph-4-8-149-sources-jar/io/github/classgraph/Scanner.java

\* /opt/cola/permits/1366065696\_1658113689.7612143/0/classgraph-4-8-149-sources-

jar/io/github/classgraph/BaseTypeSignature.java  
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 jar/nonapi/io/github/classgraph/concurrency/SingletonMap.java  
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 jar/io/github/classgraph/ClassGraphClassLoader.java  
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 jar/io/github/classgraph/HasName.java  
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\* /opt/cola/permits/1366065696\_1658113689.7612143/0/classgraph-4-8-149-sources-jar/nonapi/io/github/classgraph/classpath/ClasspathOrder.java  
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jar/io/github/classgraph/HierarchicalTypeSignature.java  
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\*

\* Author: Luke Hutchison

\*

\* Hosted at: <https://github.com/classgraph/classgraph>

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\* This file is part of ClassGraph.

\*

\* Author: Johno Crawford (johno@sulake.com)

\*

\* Hosted at: <https://github.com/classgraph/classgraph>

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\* This file is part of ClassGraph.

\*

\* Author: R. Kempees

\*

\* With contributions from @cpierceworld (#414)

\*

\* Hosted at: <https://github.com/classgraph/classgraph>

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## 1.145 slf4j 1.7.30

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jar/org/slf4j/impl/StaticMDCBinder.java  
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 jar/org/slf4j/spi/LoggerFactoryBinder.java  
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 jar/org/slf4j/helpers/SubstituteLoggerFactory.java  
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 jar/org/slf4j/helpers/BasicMarkerFactory.java  
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 jar/org/slf4j/spi/LocationAwareLogger.java  
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 jar/org/slf4j/spi/MarkerFactoryBinder.java  
 \* /opt/cola/permits/1134810204\_1613424006.61/0/slf4j-api-1-7-30-sources-jar/org/slf4j/ILoggerFactory.java  
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 jar/org/slf4j/helpers/SubstituteLogger.java  
 \* /opt/cola/permits/1134810204\_1613424006.61/0/slf4j-api-1-7-30-sources-jar/org/slf4j/MDC.java  
 \* /opt/cola/permits/1134810204\_1613424006.61/0/slf4j-api-1-7-30-sources-  
 jar/org/slf4j/helpers/BasicMDCAdapter.java  
 \* /opt/cola/permits/1134810204\_1613424006.61/0/slf4j-api-1-7-30-sources-  
 jar/org/slf4j/impl/StaticLoggerBinder.java  
 \* /opt/cola/permits/1134810204\_1613424006.61/0/slf4j-api-1-7-30-sources-  
 jar/org/slf4j/helpers/MarkerIgnoringBase.java  
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## 1.146 brave-instrumentation-httpasyncclient

### 5.13.9

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# 1.148 jcip-annotation 1.0-1

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 */
```

Found in path(s):

```
* /opt/cola/permits/1257847088_1643019261.83/0/jcip-annotations-1-0-1-sources-
jar/net/jcip/annotations/Immutable.java
* /opt/cola/permits/1257847088_1643019261.83/0/jcip-annotations-1-0-1-sources-
jar/net/jcip/annotations/NotThreadSafe.java
* /opt/cola/permits/1257847088_1643019261.83/0/jcip-annotations-1-0-1-sources-
jar/net/jcip/annotations/ThreadSafe.java
* /opt/cola/permits/1257847088_1643019261.83/0/jcip-annotations-1-0-1-sources-
jar/net/jcip/annotations/GuardedBy.java
```

# 1.149 xerces-j 1.8

## 1.149.1 Available under license :

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cos-nonambig = cos-nonambig: {0} and {1} (or elements from their substitution group) violate "Unique Particle Attribution". During validation against this schema, ambiguity would be created for those two particles.

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1028255410_1591391487.44/0/xercesimpl-2-6-2-
jar/org/apache/xerces/impl/msg/XMLSchemaMessages.properties
```

# 1.150 alpine-baselayout 3.2.0-r22

## 1.150.1 Available under license :

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```
/*
* Create mount directories in fstab
*
* Copyright(c) 2008 Natanael Copa <natanael.copa@gmail.com>
* May be distributed under the terms of GPL-2
*
* usage: mkmntdirs [fstab]
*
*/
```

Found in path(s):

```
* /opt/cola/permits/1344947999_1657894591.0906107/0/alpine-baselayout-3-2-0-r22-tar-gz/alpine-baselayout-tar-gz/mkmntdirs.c
* /opt/cola/permits/1344947999_1657894591.0906107/0/alpine-baselayout-3-2-0-r22-tar-gz/mkmntdirs.c
```

# 1.151 gson 2.9.1

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Found in path(s):

```
* /opt/cola/permits/1385266528_1660026490.5295608/0/gson-2-9-1-sources-jar/com/google/gson/JsonSyntaxException.java
* /opt/cola/permits/1385266528_1660026490.5295608/0/gson-2-9-1-sources-jar/com/google/gson/internal/Streams.java
```

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Found in path(s):

```
* /opt/cola/permits/1385266528_1660026490.5295608/0/gson-2-9-1-sources-
jar/com/google/gson/internal/$Gson$Types.java
```

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Found in path(s):

```
* /opt/cola/permits/1385266528_1660026490.5295608/0/gson-2-9-1-sources-
jar/com/google/gson/internal/GsonBuildConfig.java
```

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\* /opt/cola/permits/1385266528\_1660026490.5295608/0/gson-2-9-1-sources-jar/com/google/gson/internal/bind/DateTypeAdapter.java  
\* /opt/cola/permits/1385266528\_1660026490.5295608/0/gson-2-9-1-sources-jar/com/google/gson/internal/sql/SqlDateTypeAdapter.java  
\* /opt/cola/permits/1385266528\_1660026490.5295608/0/gson-2-9-1-sources-jar/com/google/gson/internal/LazilyParsedNumber.java  
\* /opt/cola/permits/1385266528\_1660026490.5295608/0/gson-2-9-1-sources-jar/com/google/gson/internal/bind/TreeTypeAdapter.java  
\* /opt/cola/permits/1385266528\_1660026490.5295608/0/gson-2-9-1-sources-jar/com/google/gson/internal/sql/SqlTimeTypeAdapter.java  
\* /opt/cola/permits/1385266528\_1660026490.5295608/0/gson-2-9-1-sources-jar/com/google/gson/internal/ConstructorConstructor.java  
\* /opt/cola/permits/1385266528\_1660026490.5295608/0/gson-2-9-1-sources-jar/com/google/gson/internal/UnsafeAllocator.java

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\* /opt/cola/permits/1385266528\_1660026490.5295608/0/gson-2-9-1-sources-jar/com/google/gson/internal/bind/JsonAdapterAnnotationTypeAdapterFactory.java

\* /opt/cola/permits/1385266528\_1660026490.5295608/0/gson-2-9-1-sources-jar/com/google/gson/annotations/JsonAdapter.java

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\* /opt/cola/permits/1385266528\_1660026490.5295608/0/gson-2-9-1-sources-jar/com/google/gson/internal/PreJava9DateFormatProvider.java

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\* /opt/cola/permits/1385266528\_1660026490.5295608/0/gson-2-9-1-sources-jar/com/google/gson/stream/JsonWriter.java

\* /opt/cola/permits/1385266528\_1660026490.5295608/0/gson-2-9-1-sources-jar/com/google/gson/stream/JsonScope.java

\* /opt/cola/permits/1385266528\_1660026490.5295608/0/gson-2-9-1-sources-jar/com/google/gson/stream/MalformedJsonException.java  
\* /opt/cola/permits/1385266528\_1660026490.5295608/0/gson-2-9-1-sources-jar/com/google/gson/stream/JsonReader.java  
\* /opt/cola/permits/1385266528\_1660026490.5295608/0/gson-2-9-1-sources-jar/com/google/gson/stream/JsonToken.java

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\* /opt/cola/permits/1385266528\_1660026490.5295608/0/gson-2-9-1-sources-jar/com/google/gson/ToNumberPolicy.java

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\* /opt/cola/permits/1385266528\_1660026490.5295608/0/gson-2-9-1-sources-jar/com/google/gson/FieldAttributes.java  
\* /opt/cola/permits/1385266528\_1660026490.5295608/0/gson-2-9-1-sources-jar/com/google/gson/LongSerializationPolicy.java  
\* /opt/cola/permits/1385266528\_1660026490.5295608/0/gson-2-9-1-sources-jar/com/google/gson/JsonStreamParser.java

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\* /opt/cola/permits/1385266528\_1660026490.5295608/0/gson-2-9-1-sources-jar/com/google/gson/internal/bind/ArrayTypeAdapter.java

\* /opt/cola/permits/1385266528\_1660026490.5295608/0/gson-2-9-1-sources-jar/com/google/gson/TypeAdapter.java

\* /opt/cola/permits/1385266528\_1660026490.5295608/0/gson-2-9-1-sources-jar/com/google/gson/internal/bind/MapTypeAdapterFactory.java

\* /opt/cola/permits/1385266528\_1660026490.5295608/0/gson-2-9-1-sources-jar/com/google/gson/internal/bind/ObjectTypeAdapter.java

\* /opt/cola/permits/1385266528\_1660026490.5295608/0/gson-2-9-1-sources-jar/com/google/gson/internal/bind/ReflectiveTypeAdapterFactory.java

\* /opt/cola/permits/1385266528\_1660026490.5295608/0/gson-2-9-1-sources-jar/com/google/gson/internal/bind/JsonTreeWriter.java

\* /opt/cola/permits/1385266528\_1660026490.5295608/0/gson-2-9-1-sources-jar/com/google/gson/internal/bind/TypeAdapterRuntimeTypeWrapper.java

\* /opt/cola/permits/1385266528\_1660026490.5295608/0/gson-2-9-1-sources-jar/com/google/gson/internal/bind/TypeAdapters.java

\* /opt/cola/permits/1385266528\_1660026490.5295608/0/gson-2-9-1-sources-jar/com/google/gson/internal/bind/CollectionTypeAdapterFactory.java

\* /opt/cola/permits/1385266528\_1660026490.5295608/0/gson-2-9-1-sources-jar/com/google/gson/TypeAdapterFactory.java

\* /opt/cola/permits/1385266528\_1660026490.5295608/0/gson-2-9-1-sources-jar/com/google/gson/internal/bind/JsonTreeReader.java

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\* /opt/cola/permits/1385266528\_1660026490.5295608/0/gson-2-9-1-sources-jar/com/google/gson/annotations/Expose.java  
\* /opt/cola/permits/1385266528\_1660026490.5295608/0/gson-2-9-1-sources-jar/com/google/gson/annotations/Since.java  
\* /opt/cola/permits/1385266528\_1660026490.5295608/0/gson-2-9-1-sources-jar/com/google/gson/JsonDeserializer.java  
\* /opt/cola/permits/1385266528\_1660026490.5295608/0/gson-2-9-1-sources-jar/com/google/gson/internal/ObjectConstructor.java  
\* /opt/cola/permits/1385266528\_1660026490.5295608/0/gson-2-9-1-sources-jar/com/google/gson/JsonElement.java  
\* /opt/cola/permits/1385266528\_1660026490.5295608/0/gson-2-9-1-sources-jar/com/google/gson/internal/Primitives.java  
\* /opt/cola/permits/1385266528\_1660026490.5295608/0/gson-2-9-1-sources-jar/com/google/gson/JsonPrimitive.java  
\* /opt/cola/permits/1385266528\_1660026490.5295608/0/gson-2-9-1-sources-jar/com/google/gson/JsonSerializationContext.java  
\* /opt/cola/permits/1385266528\_1660026490.5295608/0/gson-2-9-1-sources-jar/com/google/gson/reflect/TypeToken.java  
\* /opt/cola/permits/1385266528\_1660026490.5295608/0/gson-2-9-1-sources-jar/com/google/gson/JsonNull.java  
\* /opt/cola/permits/1385266528\_1660026490.5295608/0/gson-2-9-1-sources-jar/com/google/gson/Gson.java  
\* /opt/cola/permits/1385266528\_1660026490.5295608/0/gson-2-9-1-sources-jar/com/google/gson/JsonDeserializationContext.java  
\* /opt/cola/permits/1385266528\_1660026490.5295608/0/gson-2-9-1-sources-jar/com/google/gson/JsonObject.java  
\* /opt/cola/permits/1385266528\_1660026490.5295608/0/gson-2-9-1-sources-jar/com/google/gson/GsonBuilder.java  
\* /opt/cola/permits/1385266528\_1660026490.5295608/0/gson-2-9-1-sources-jar/com/google/gson/FieldNamingStrategy.java  
\* /opt/cola/permits/1385266528\_1660026490.5295608/0/gson-2-9-1-sources-jar/com/google/gson/annotations/SerializedName.java  
\* /opt/cola/permits/1385266528\_1660026490.5295608/0/gson-2-9-1-sources-jar/com/google/gson/annotations/Until.java  
\* /opt/cola/permits/1385266528\_1660026490.5295608/0/gson-2-9-1-sources-

```
jar/com/google/gson/JsonSerializer.java
* /opt/cola/permits/1385266528_1660026490.5295608/0/gson-2-9-1-sources-
jar/com/google/gson/internal/bind/DefaultDateTypeAdapter.java
* /opt/cola/permits/1385266528_1660026490.5295608/0/gson-2-9-1-sources-
jar/com/google/gson/internal/$Gson$Preconditions.java
* /opt/cola/permits/1385266528_1660026490.5295608/0/gson-2-9-1-sources-
jar/com/google/gson/InstanceCreator.java
* /opt/cola/permits/1385266528_1660026490.5295608/0/gson-2-9-1-sources-
jar/com/google/gson/JsonIOException.java
* /opt/cola/permits/1385266528_1660026490.5295608/0/gson-2-9-1-sources-
jar/com/google/gson/JsonParseException.java
* /opt/cola/permits/1385266528_1660026490.5295608/0/gson-2-9-1-sources-
jar/com/google/gson/ExclusionStrategy.java
* /opt/cola/permits/1385266528_1660026490.5295608/0/gson-2-9-1-sources-
jar/com/google/gson/FieldNamingPolicy.java
* /opt/cola/permits/1385266528_1660026490.5295608/0/gson-2-9-1-sources-jar/com/google/gson/JsonArray.java
```

## 1.152 selenium-opera-driver 4.4.0

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```
* /opt/cola/permits/1612247541_1680504049.4252398/0/selenium-opera-driver-4-4-0-sources-
jar/org/openqa/selenium/opera/OperaDriverService.java
* /opt/cola/permits/1612247541_1680504049.4252398/0/selenium-opera-driver-4-4-0-sources-
jar/org/openqa/selenium/opera/OperaDriver.java
* /opt/cola/permits/1612247541_1680504049.4252398/0/selenium-opera-driver-4-4-0-sources-
jar/org/openqa/selenium/opera/OperaDriverInfo.java
* /opt/cola/permits/1612247541_1680504049.4252398/0/selenium-opera-driver-4-4-0-sources-
jar/org/openqa/selenium/opera/OperaOptions.java
```

## 1.153 xml-apis-ext 1.3.04

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xml-commons/java/external/README.dom.txt \$Id: README.dom.txt 477038 2006-11-20 04:40:36Z mrglavas \$

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The actual DOM Java Language Binding classes in xml-commons came from:  
<http://www.w3.org/TR/2004/REC-DOM-Level-3-Core-20040407/java-binding.html>

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<http://www.w3.org/TR/2000/REC-DOM-Level-2-Events-20001113/>  
<http://www.w3.org/TR/2000/REC-DOM-Level-2-Style-20001113/>  
<http://www.w3.org/TR/2000/REC-DOM-Level-2-Traversal-Range-20001113/>  
<http://www.w3.org/TR/2000/REC-DOM-Level-2-Views-20001113/>

The specification of DOM Level 1's various parts is at:  
<http://www.w3.org/TR/1998/REC-DOM-Level-1-19981001/level-one-html.html>

Links to all available W3C DOM Java Bindings can be found at:  
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The actual classes of The Simple API for CSS (SAC) came from:  
<http://www.w3.org/Style/CSS/SAC/>  
<http://www.w3.org/2002/06/sacjava-1.3.zip>

The actual DOM Java Language Binding classes for SMIL came from:  
<http://dev.w3.org/cvsweb/java/classes/org/w3c/dom/smil/>  
(both `ElementTimeControl.java` and `TimeEvent.java` were taken at revision 1.1)

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```
* /opt/cola/permits/1612247556_1680511980.2802966/0/libphonenumber-8-12-4-sources-1-
jar/com/google/i18n/phonenumbers/CountryCodeToRegionCodeMap.java
* /opt/cola/permits/1612247556_1680511980.2802966/0/libphonenumber-8-12-4-sources-1-
```

jar/com/google/i18n/phonenumbers/internal/RegexCache.java

\* /opt/cola/permits/1612247556\_1680511980.2802966/0/libphonenumbers-8-12-4-sources-1-

jar/com/google/i18n/phonenumbers/Phonemetadata.java

\* /opt/cola/permits/1612247556\_1680511980.2802966/0/libphonenumbers-8-12-4-sources-1-

jar/com/google/i18n/phonenumbers/Phonenumber.java

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jar/com/google/i18n/phonenumbers/internal/MatcherApi.java

\* /opt/cola/permits/1612247556\_1680511980.2802966/0/libphonenumbers-8-12-4-sources-1-

jar/com/google/i18n/phonenumbers/MetadataLoader.java

\* /opt/cola/permits/1612247556\_1680511980.2802966/0/libphonenumbers-8-12-4-sources-1-

jar/com/google/i18n/phonenumbers/internal/RegexBasedMatcher.java

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\* /opt/cola/permits/1612247556\_1680511980.2802966/0/libphonenumber-8-12-4-sources-1-jar/com/google/i18n/phonenumbers/MetadataSource.java

\* /opt/cola/permits/1612247556\_1680511980.2802966/0/libphonenumber-8-12-4-sources-1-jar/com/google/i18n/phonenumbers/MultiFileMetadataSourceImpl.java

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\* /opt/cola/permits/1612247556\_1680511980.2802966/0/libphonenumber-8-12-4-sources-1-jar/com/google/i18n/phonenumbers/PhoneNumberMatcher.java  
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\* /opt/cola/permits/1612247556\_1680511980.2802966/0/libphonenumber-8-12-4-sources-1-jar/com/google/i18n/phonenumbers/NumberParseException.java  
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```
* /opt/cola/permits/1612247556_1680511980.2802966/0/libphonenumber-8-12-4-sources-1-
jar/com/google/i18n/phonenumbers/AlternateFormatsCountryCodeSet.java
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*/
```

Found in path(s):

```
* /opt/cola/permits/1612247556_1680511980.2802966/0/libphonenumber-8-12-4-sources-1-
jar/com/google/i18n/phonenumbers/ShortNumberInfo.java
* /opt/cola/permits/1612247556_1680511980.2802966/0/libphonenumber-8-12-4-sources-1-
jar/com/google/i18n/phonenumbers/ShortNumbersRegionCodeSet.java
```

## 1.155 curvesapi 1.07

### 1.155.1 Available under license :

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```
<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd/maven-4.0.0.xsd">
 <modelVersion>4.0.0</modelVersion>
 <groupId>com.github.virtuald</groupId>
 <artifactId>curvesapi</artifactId>
 <version>1.07</version>
 <name>curvesapi</name>
 <description>Implementation of various mathematical curves that define themselves over a set of control points.
The API is written in Java. The curves supported are: Bezier, B-Spline, Cardinal Spline, Catmull-Rom Spline,
Lagrange, Natural Cubic Spline, and NURBS.</description>
 <url>https://github.com/virtuald/curvesapi</url>

 <build>
 <plugins>
 <plugin>
 <groupId>org.apache.maven.plugins</groupId>
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</plugin>
<plugin>
 <groupId>org.apache.maven.plugins</groupId>
 <artifactId>maven-jar-plugin</artifactId>
 <configuration>
 <archive>
 <manifestEntries>
 <Automatic-Module-Name>com.github.virtuald.curvesapi</Automatic-Module-Name>
 </manifestEntries>
 </archive>
 </configuration>
</plugin>
</plugins>
</build>

```

```

<profiles>
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 <id>release</id>
 <build>
 <plugins>
 <plugin>
 <groupId>org.sonatype.plugins</groupId>
 <artifactId>nexus-staging-maven-plugin</artifactId>
 <version>1.6.3</version>
 <extensions>true</extensions>
 <configuration>
 <serverId>ossrh</serverId>
 <nexusUrl>https://oss.sonatype.org/</nexusUrl>
 <autoReleaseAfterClose>true</autoReleaseAfterClose>
 </configuration>
 </plugin>
 <plugin>
 <groupId>org.apache.maven.plugins</groupId>
 <artifactId>maven-source-plugin</artifactId>
 <version>2.4</version>
 <executions>
 <execution>
 <id>attach-sources</id>
 <goals>
 <goal>jar-no-fork</goal>
 </goals>
 </execution>
 </executions>
 </plugin>
 </plugins>
 </build>
 </profile>
</profiles>

```

```

</plugin>
<plugin>
 <groupId>org.apache.maven.plugins</groupId>
 <artifactId>maven-javadoc-plugin</artifactId>
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 <executions>
 <execution>
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 </goals>
 <configuration>
 <additionalparam>-Xdoclint:none</additionalparam>
 </configuration>
 </execution>
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</plugin>
<plugin>
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 <artifactId>maven-gpg-plugin</artifactId>
 <version>1.6</version>
 <executions>
 <execution>
 <id>sign-artifacts</id>
 <phase>verify</phase>
 <goals>
 <goal>sign</goal>
 </goals>
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 </executions>
</plugin>
</plugins>
</build>
</profile>
</profiles>

<licenses>
 <license>
 <name>BSD License</name>
 <url>http://opensource.org/licenses/BSD-3-Clause</url>
 <distribution>repo</distribution>
 </license>
</licenses>

<scm>
 <url>https://github.com/virtuald/curvesapi</url>
 <connection>scm:git:git://github.com/virtuald/curvesapi.git</connection>
 <developerConnection>scm:git:git@github.com/virtuald/curvesapi.git</developerConnection>

```

```
</scm>

<developers>
 <developer>
 <name>stormdollar</name>
 <url>http://sourceforge.net/u/stormdollar/profile/</url>
 <id>stormdollar</id>
 </developer>
 <developer>
 <name>Dustin Spicuzza</name>
 <url>https://github.com/virtuald</url>
 <id>virtuald</id>
 </developer>
</developers>

<dependencies>
 <dependency>
 <groupId>junit</groupId>
 <artifactId>junit</artifactId>
 <version>4.13.2</version>
 <scope>test</scope>
 </dependency>
</dependencies>

</project>
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Found in path(s):

\* /opt/cola/permits/1437119490\_1665387004.428388/0/curvesapi-1-07-1-jar/META-INF/maven/com.github.virtuald/curvesapi/pom.xml

# 1.156 commons-jxpath 1.3

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# 1.157 commons-digester 1.8.1

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## 1.159 spring-web-mvc 5.3.25

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Other developers who have contributed code are:

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```
* /opt/cola/permits/1612247558_1679586998.2574816/0/failsafe-3-2-3-sources-
jar/dev/failsafe/internal/HalfOpenState.java
* /opt/cola/permits/1612247558_1679586998.2574816/0/failsafe-3-2-3-sources-jar/dev/failsafe/Functions.java
* /opt/cola/permits/1612247558_1679586998.2574816/0/failsafe-3-2-3-sources-
jar/dev/failsafe/function/ContextualRunnable.java
* /opt/cola/permits/1612247558_1679586998.2574816/0/failsafe-3-2-3-sources-
jar/dev/failsafe/FailsafeException.java
* /opt/cola/permits/1612247558_1679586998.2574816/0/failsafe-3-2-3-sources-
jar/dev/failsafe/internal/CircuitState.java
* /opt/cola/permits/1612247558_1679586998.2574816/0/failsafe-3-2-3-sources-
jar/dev/failsafe/function/CheckedRunnable.java
* /opt/cola/permits/1612247558_1679586998.2574816/0/failsafe-3-2-3-sources-
jar/dev/failsafe/ExecutionContext.java
* /opt/cola/permits/1612247558_1679586998.2574816/0/failsafe-3-2-3-sources-
jar/dev/failsafe/internal/ClosedState.java
* /opt/cola/permits/1612247558_1679586998.2574816/0/failsafe-3-2-3-sources-
jar/dev/failsafe/function/CheckedPredicate.java
* /opt/cola/permits/1612247558_1679586998.2574816/0/failsafe-3-2-3-sources-
jar/dev/failsafe/spi/DefaultScheduledFuture.java
* /opt/cola/permits/1612247558_1679586998.2574816/0/failsafe-3-2-3-sources-
jar/dev/failsafe/function/CheckedBiPredicate.java
* /opt/cola/permits/1612247558_1679586998.2574816/0/failsafe-3-2-3-sources-
jar/dev/failsafe/function/ContextualSupplier.java
* /opt/cola/permits/1612247558_1679586998.2574816/0/failsafe-3-2-3-sources-jar/dev/failsafe/RetryPolicy.java
* /opt/cola/permits/1612247558_1679586998.2574816/0/failsafe-3-2-3-sources-
jar/dev/failsafe/internal/util/Assert.java
* /opt/cola/permits/1612247558_1679586998.2574816/0/failsafe-3-2-3-sources-
jar/dev/failsafe/internal/OpenState.java
* /opt/cola/permits/1612247558_1679586998.2574816/0/failsafe-3-2-3-sources-jar/dev/failsafe/Fallback.java
```

\* /opt/cola/permits/1612247558\_1679586998.2574816/0/failsafe-3-2-3-sources-jar/dev/failsafe/CircuitBreakerOpenException.java

\* /opt/cola/permits/1612247558\_1679586998.2574816/0/failsafe-3-2-3-sources-jar/dev/failsafe/FallbackBuilder.java

\* /opt/cola/permits/1612247558\_1679586998.2574816/0/failsafe-3-2-3-sources-jar/dev/failsafe/CircuitBreaker.java

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\* /opt/cola/permits/1612247558\_1679586998.2574816/0/failsafe-3-2-3-sources-jar/dev/failsafe/CircuitBreakerBuilder.java

\* /opt/cola/permits/1612247558\_1679586998.2574816/0/failsafe-3-2-3-sources-jar/dev/failsafe/internal/CircuitBreakerImpl.java

\* /opt/cola/permits/1612247558\_1679586998.2574816/0/failsafe-3-2-3-sources-jar/dev/failsafe/AsyncExecutionImpl.java

\* /opt/cola/permits/1612247558\_1679586998.2574816/0/failsafe-3-2-3-sources-jar/dev/failsafe/function/CheckedFunction.java

\* /opt/cola/permits/1612247558\_1679586998.2574816/0/failsafe-3-2-3-sources-jar/dev/failsafe/FailsafeExecutor.java

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\* /opt/cola/permits/1612247558\_1679586998.2574816/0/failsafe-3-2-3-sources-jar/dev/failsafe/internal/RetryPolicyImpl.java

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org.apache.sshd 2.1 to 3

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| Gallium code   | src/ gallium/         | MIT            |
| Ext headers    | GL/ glxext.h          | Khronos        |
|                | GL/ glxext.h          | Khronos        |
|                | GL/ wglxext.h         | Khronos        |
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include/GL/gl.h :

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```
include/GL/glex.h
include/GL/glxext.h
include/GL/wglxext.h :
```

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```
include/KHR/khrplatform.h :
```

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### 1.167.1 Available under license :

```
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```

```
LCMS License
```

```
<pre>
```

Little Color Management System  
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c-libutl 20160225
```

```
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...

## ASM Bytecode Manipulation Framework v7.0

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## xwd v1.0.7

```
xwd utility
```

```
<pre>
```

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include/GL/glxext.h
include/GL/wglxext.h :
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```

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```
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Found in path(s):

```
* /opt/cola/permits/1612303964_1679589389.428236/0/jjwt-api-0-10-7-sources-1-
jar/io/jsonwebtoken/CompressionCodec.java
* /opt/cola/permits/1612303964_1679589389.428236/0/jjwt-api-0-10-7-sources-1-
jar/io/jsonwebtoken/CompressionException.java
* /opt/cola/permits/1612303964_1679589389.428236/0/jjwt-api-0-10-7-sources-1-
jar/io/jsonwebtoken/CompressionCodecResolver.java
* /opt/cola/permits/1612303964_1679589389.428236/0/jjwt-api-0-10-7-sources-1-
```

jar/io/jsonwebtoken/InvalidClaimException.java  
\* /opt/cola/permits/1612303964\_1679589389.428236/0/jjwt-api-0-10-7-sources-1-  
jar/io/jsonwebtoken/MissingClaimException.java  
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```
* /opt/cola/permits/1612303964_1679589389.428236/0/jjwt-api-0-10-7-sources-1-
jar/io/jsonwebtoken/JwsHeader.java
* /opt/cola/permits/1612303964_1679589389.428236/0/jjwt-api-0-10-7-sources-1-
jar/io/jsonwebtoken/PrematureJwtException.java
* /opt/cola/permits/1612303964_1679589389.428236/0/jjwt-api-0-10-7-sources-1-
jar/io/jsonwebtoken/JwtException.java
* /opt/cola/permits/1612303964_1679589389.428236/0/jjwt-api-0-10-7-sources-1-
jar/io/jsonwebtoken/JwtHandlerAdapter.java
* /opt/cola/permits/1612303964_1679589389.428236/0/jjwt-api-0-10-7-sources-1-
jar/io/jsonwebtoken/ClaimJwtException.java
* /opt/cola/permits/1612303964_1679589389.428236/0/jjwt-api-0-10-7-sources-1-
jar/io/jsonwebtoken/JwtBuilder.java
* /opt/cola/permits/1612303964_1679589389.428236/0/jjwt-api-0-10-7-sources-1-
jar/io/jsonwebtoken/lang/Objects.java
* /opt/cola/permits/1612303964_1679589389.428236/0/jjwt-api-0-10-7-sources-1-
jar/io/jsonwebtoken/ClaimsMutator.java
* /opt/cola/permits/1612303964_1679589389.428236/0/jjwt-api-0-10-7-sources-1-
jar/io/jsonwebtoken/lang/Collections.java
* /opt/cola/permits/1612303964_1679589389.428236/0/jjwt-api-0-10-7-sources-1-
jar/io/jsonwebtoken/lang/RuntimeEnvironment.java
* /opt/cola/permits/1612303964_1679589389.428236/0/jjwt-api-0-10-7-sources-1-
jar/io/jsonwebtoken/lang/UnknownClassException.java
* /opt/cola/permits/1612303964_1679589389.428236/0/jjwt-api-0-10-7-sources-1-jar/io/jsonwebtoken/Claims.java
* /opt/cola/permits/1612303964_1679589389.428236/0/jjwt-api-0-10-7-sources-1-
```



```
jar/io/jsonwebtoken/JwtHandler.java
* /opt/cola/permits/1612303964_1679589389.428236/0/jjwt-api-0-10-7-sources-1-
jar/io/jsonwebtoken/lang/Assert.java
* /opt/cola/permits/1612303964_1679589389.428236/0/jjwt-api-0-10-7-sources-1-jar/io/jsonwebtoken/Header.java
* /opt/cola/permits/1612303964_1679589389.428236/0/jjwt-api-0-10-7-sources-1-
jar/io/jsonwebtoken/UnsupportedJwtException.java
* /opt/cola/permits/1612303964_1679589389.428236/0/jjwt-api-0-10-7-sources-1-
jar/io/jsonwebtoken/SignatureAlgorithm.java
* /opt/cola/permits/1612303964_1679589389.428236/0/jjwt-api-0-10-7-sources-1-
jar/io/jsonwebtoken/SigningKeyResolver.java
* /opt/cola/permits/1612303964_1679589389.428236/0/jjwt-api-0-10-7-sources-1-
jar/io/jsonwebtoken/SignatureException.java
* /opt/cola/permits/1612303964_1679589389.428236/0/jjwt-api-0-10-7-sources-1-
jar/io/jsonwebtoken/lang/Classes.java
* /opt/cola/permits/1612303964_1679589389.428236/0/jjwt-api-0-10-7-sources-1-
jar/io/jsonwebtoken/JwtParser.java
* /opt/cola/permits/1612303964_1679589389.428236/0/jjwt-api-0-10-7-sources-1-jar/io/jsonwebtoken/Jws.java
* /opt/cola/permits/1612303964_1679589389.428236/0/jjwt-api-0-10-7-sources-1-
jar/io/jsonwebtoken/MalformedJwtException.java
* /opt/cola/permits/1612303964_1679589389.428236/0/jjwt-api-0-10-7-sources-1-
jar/io/jsonwebtoken/lang/InstantiationException.java
* /opt/cola/permits/1612303964_1679589389.428236/0/jjwt-api-0-10-7-sources-1-jar/io/jsonwebtoken/Jwts.java
* /opt/cola/permits/1612303964_1679589389.428236/0/jjwt-api-0-10-7-sources-1-
jar/io/jsonwebtoken/RequiredTypeException.java
* /opt/cola/permits/1612303964_1679589389.428236/0/jjwt-api-0-10-7-sources-1-
jar/io/jsonwebtoken/SigningKeyResolverAdapter.java
* /opt/cola/permits/1612303964_1679589389.428236/0/jjwt-api-0-10-7-sources-1-
jar/io/jsonwebtoken/ExpiredJwtException.java
* /opt/cola/permits/1612303964_1679589389.428236/0/jjwt-api-0-10-7-sources-1-
jar/io/jsonwebtoken/lang/Strings.java
* /opt/cola/permits/1612303964_1679589389.428236/0/jjwt-api-0-10-7-sources-1-jar/io/jsonwebtoken/Jwt.java
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-->
```

Found in path(s):

\* /opt/cola/permits/1612303964\_1679589389.428236/0/jjwt-api-0-10-7-sources-1-jar/META-INF/maven/io.jsonwebtoken/jjwt-api/pom.xml

# 1.172 spring-tx 5.3.25

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## 1.173 commons-fileupload 1.4

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Eclipse

The following artifacts are EPL.

\* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.

\* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.

\* org.eclipse.jetty.orbit:javax.mail.glassfish

-----

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

\* javax.servlet:javax.servlet-api

\* javax.annotation:javax.annotation-api

\* javax.transaction:javax.transaction-api

\* javax.websocket:javax.websocket-api

-----

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

\* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

-----

OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

org.ow2.asm:asm-commons

org.ow2.asm:asm

-----

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec

org.apache.taglibs:taglibs-standard-impl

-----

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper

org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api

org.apache.tomcat:tomcat-el-api

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan

org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

Permission to use, copy, modify and distribute UnixCrypt for non-commercial or commercial purposes and without fee is granted provided that the copyright notice appears in all copies.

## 1.176 jjwt 0.9.1

### 1.176.1 Available under license :

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

```
/*
 * Copyright (C) 2014 jsonwebtoken.io
 *
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 */
```

Found in path(s):

```
* /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-
jar/io/jsonwebtoken/impl/crypto/RsaSigner.java
* /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/JwtHandler.java
* /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-
jar/io/jsonwebtoken/SigningKeyResolverAdapter.java
* /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/ClaimJwtException.java
* /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/Jws.java
* /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-
jar/io/jsonwebtoken/impl/crypto/SignatureValidatorFactory.java
* /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/Claims.java
* /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-
jar/io/jsonwebtoken/lang/InstantiationException.java
* /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-
```



jar/io/jsonwebtoken/impl/crypto/DefaultJwtSigner.java  
\* /opt/cola/permits/1293953499\_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/ClaimsMutator.java  
\* /opt/cola/permits/1293953499\_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/crypto/DefaultJwtSignatureValidator.java  
\* /opt/cola/permits/1293953499\_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/UnsupportedJwtException.java  
\* /opt/cola/permits/1293953499\_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/crypto/MacValidator.java  
\* /opt/cola/permits/1293953499\_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/DefaultJwtBuilder.java  
\* /opt/cola/permits/1293953499\_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/crypto/JwtSigner.java  
\* /opt/cola/permits/1293953499\_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/DefaultJwsHeader.java  
\* /opt/cola/permits/1293953499\_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/ExpiredJwtException.java  
\* /opt/cola/permits/1293953499\_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/JwtException.java  
\* /opt/cola/permits/1293953499\_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/crypto/JwtSignatureValidator.java  
\* /opt/cola/permits/1293953499\_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/lang/Classes.java  
\* /opt/cola/permits/1293953499\_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/TextCodec.java  
\* /opt/cola/permits/1293953499\_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/DefaultHeader.java  
\* /opt/cola/permits/1293953499\_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/lang/UnknownClassException.java  
\* /opt/cola/permits/1293953499\_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/DefaultJwtParser.java  
\* /opt/cola/permits/1293953499\_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/crypto/DefaultSignerFactory.java  
\* /opt/cola/permits/1293953499\_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/crypto/RsaProvider.java  
\* /opt/cola/permits/1293953499\_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/Jwts.java  
\* /opt/cola/permits/1293953499\_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/crypto/Signer.java  
\* /opt/cola/permits/1293953499\_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/crypto/SignerFactory.java  
\* /opt/cola/permits/1293953499\_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/crypto/SignatureValidator.java  
\* /opt/cola/permits/1293953499\_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/crypto/DefaultSignatureValidatorFactory.java  
\* /opt/cola/permits/1293953499\_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/lang/RuntimeEnvironment.java  
\* /opt/cola/permits/1293953499\_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/MalformedJwtException.java  
\* /opt/cola/permits/1293953499\_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/SignatureException.java  
\* /opt/cola/permits/1293953499\_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/AbstractTextCodec.java  
\* /opt/cola/permits/1293953499\_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/lang/Collections.java  
\* /opt/cola/permits/1293953499\_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/crypto/RsaSignatureValidator.java

\* /opt/cola/permits/1293953499\_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/SignatureAlgorithm.java  
\* /opt/cola/permits/1293953499\_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/JwtParser.java  
\* /opt/cola/permits/1293953499\_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/crypto/MacSigner.java  
\* /opt/cola/permits/1293953499\_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/DefaultJwt.java  
\* /opt/cola/permits/1293953499\_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/JwtHandlerAdapter.java  
\* /opt/cola/permits/1293953499\_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/PrematureJwtException.java  
\* /opt/cola/permits/1293953499\_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/Header.java  
\* /opt/cola/permits/1293953499\_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/JwsHeader.java  
\* /opt/cola/permits/1293953499\_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/JwtBuilder.java  
\* /opt/cola/permits/1293953499\_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/Jwt.java  
\* /opt/cola/permits/1293953499\_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/lang/Strings.java  
\* /opt/cola/permits/1293953499\_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/crypto/SignatureProvider.java  
\* /opt/cola/permits/1293953499\_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/JwtMap.java  
\* /opt/cola/permits/1293953499\_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/RequiredTypeException.java  
\* /opt/cola/permits/1293953499\_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/lang/Objects.java  
\* /opt/cola/permits/1293953499\_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/lang/Assert.java  
\* /opt/cola/permits/1293953499\_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/Base64Codec.java  
\* /opt/cola/permits/1293953499\_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/crypto/MacProvider.java  
\* /opt/cola/permits/1293953499\_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/DefaultJws.java  
\* /opt/cola/permits/1293953499\_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/Base64UrlCodec.java  
\* /opt/cola/permits/1293953499\_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/SigningKeyResolver.java  
\* /opt/cola/permits/1293953499\_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/DefaultClaims.java  
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\* /opt/cola/permits/1293953499\_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/crypto/EllipticCurveProvider.java  
 \* /opt/cola/permits/1293953499\_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/crypto/EllipticCurveSignatureValidator.java  
 \* /opt/cola/permits/1293953499\_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/DefaultTextCodecFactory.java  
 \* /opt/cola/permits/1293953499\_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/TextCodecFactory.java  
 \* /opt/cola/permits/1293953499\_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/InvalidClaimException.java  
 \* /opt/cola/permits/1293953499\_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/crypto/EllipticCurveSigner.java  
 \* /opt/cola/permits/1293953499\_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/CompressionCodecResolver.java  
 \* /opt/cola/permits/1293953499\_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/compression/DefaultCompressionCodecResolver.java  
 \* /opt/cola/permits/1293953499\_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/IncorrectClaimException.java  
 \* /opt/cola/permits/1293953499\_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/compression/DeflateCompressionCodec.java  
 \* /opt/cola/permits/1293953499\_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/CompressionCodec.java  
 \* /opt/cola/permits/1293953499\_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/compression/GzipCompressionCodec.java  
 \* /opt/cola/permits/1293953499\_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/compression/CompressionCodecs.java  
 \* /opt/cola/permits/1293953499\_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/compression/AbstractCompressionCodec.java  
 \* /opt/cola/permits/1293953499\_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/MissingClaimException.java  
 \* /opt/cola/permits/1293953499\_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/AndroidBase64Codec.java  
 \* /opt/cola/permits/1293953499\_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/CompressionException.java

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\* /opt/cola/permits/1293953499\_1648136257.15/0/jjwt-0-9-1-sources-jar/META-INF/maven/io.jsonwebtoken/jjwt/pom.xml

## 1.177 selenium-devtools-v85 4.4.0

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```
* /opt/cola/permits/1612247570_1680503821.521763/0/selenium-devtools-v85-4-4-0-sources-
jar/org/openqa/selenium/devtools/v85/V85Network.java
* /opt/cola/permits/1612247570_1680503821.521763/0/selenium-devtools-v85-4-4-0-sources-
jar/org/openqa/selenium/devtools/v85/V85Target.java
* /opt/cola/permits/1612247570_1680503821.521763/0/selenium-devtools-v85-4-4-0-sources-
jar/org/openqa/selenium/devtools/v85/V85Log.java
* /opt/cola/permits/1612247570_1680503821.521763/0/selenium-devtools-v85-4-4-0-sources-
jar/org/openqa/selenium/devtools/v85/V85Domains.java
* /opt/cola/permits/1612247570_1680503821.521763/0/selenium-devtools-v85-4-4-0-sources-
jar/org/openqa/selenium/devtools/v85/V85CdpInfo.java
* /opt/cola/permits/1612247570_1680503821.521763/0/selenium-devtools-v85-4-4-0-sources-
jar/org/openqa/selenium/devtools/v85/V85Events.java
* /opt/cola/permits/1612247570_1680503821.521763/0/selenium-devtools-v85-4-4-0-sources-
jar/org/openqa/selenium/devtools/v85/V85Javascript.java
```

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```
public Domain(java.lang.String name, java.lang.String version) {
```

Found in path(s):

```
* /opt/cola/permits/1612247570_1680503821.521763/0/selenium-devtools-v85-4-4-0-sources-
jar/org/openqa/selenium/devtools/v85/schema/model/Domain.java
```

## 1.178 jsr311-api 1.1.1

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## 1.181 asm 9.1

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```
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jar/org/objectweb/asm/signature/SignatureWriter.java
* /opt/cola/permits/1146079232_1616457494.45/0/asm-9-1-sources-jar/org/objectweb/asm/TypePath.java
* /opt/cola/permits/1146079232_1616457494.45/0/asm-9-1-sources-
jar/org/objectweb/asm/RecordComponentVisitor.java
* /opt/cola/permits/1146079232_1616457494.45/0/asm-9-1-sources-
jar/org/objectweb/asm/signature/SignatureReader.java
* /opt/cola/permits/1146079232_1616457494.45/0/asm-9-1-sources-jar/org/objectweb/asm/Context.java
* /opt/cola/permits/1146079232_1616457494.45/0/asm-9-1-sources-jar/org/objectweb/asm/TypeReference.java
* /opt/cola/permits/1146079232_1616457494.45/0/asm-9-1-sources-jar/org/objectweb/asm/FieldVisitor.java
```

\* /opt/cola/permits/1146079232\_1616457494.45/0/asm-9-1-sources-jar/org/objectweb/asm/MethodTooLargeException.java  
\* /opt/cola/permits/1146079232\_1616457494.45/0/asm-9-1-sources-jar/org/objectweb/asm/ModuleVisitor.java  
\* /opt/cola/permits/1146079232\_1616457494.45/0/asm-9-1-sources-jar/org/objectweb/asm/ClassTooLargeException.java  
\* /opt/cola/permits/1146079232\_1616457494.45/0/asm-9-1-sources-jar/org/objectweb/asm/ClassWriter.java  
\* /opt/cola/permits/1146079232\_1616457494.45/0/asm-9-1-sources-jar/org/objectweb/asm/Attribute.java  
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\* /opt/cola/permits/1146079232\_1616457494.45/0/asm-9-1-sources-jar/org/objectweb/asm/FieldWriter.java  
\* /opt/cola/permits/1146079232\_1616457494.45/0/asm-9-1-sources-jar/org/objectweb/asm/Type.java  
\* /opt/cola/permits/1146079232\_1616457494.45/0/asm-9-1-sources-jar/org/objectweb/asm/AnnotationWriter.java  
\* /opt/cola/permits/1146079232\_1616457494.45/0/asm-9-1-sources-jar/org/objectweb/asm/Edge.java  
\* /opt/cola/permits/1146079232\_1616457494.45/0/asm-9-1-sources-jar/org/objectweb/asm/MethodWriter.java  
\* /opt/cola/permits/1146079232\_1616457494.45/0/asm-9-1-sources-jar/org/objectweb/asm/ByteVector.java  
\* /opt/cola/permits/1146079232\_1616457494.45/0/asm-9-1-sources-jar/org/objectweb/asm/Constants.java  
\* /opt/cola/permits/1146079232\_1616457494.45/0/asm-9-1-sources-jar/org/objectweb/asm/ConstantDynamic.java  
\* /opt/cola/permits/1146079232\_1616457494.45/0/asm-9-1-sources-jar/org/objectweb/asm/Label.java  
\* /opt/cola/permits/1146079232\_1616457494.45/0/asm-9-1-sources-jar/org/objectweb/asm/Handle.java  
\* /opt/cola/permits/1146079232\_1616457494.45/0/asm-9-1-sources-jar/org/objectweb/asm/Opcodes.java  
\* /opt/cola/permits/1146079232\_1616457494.45/0/asm-9-1-sources-jar/org/objectweb/asm/ClassReader.java  
\* /opt/cola/permits/1146079232\_1616457494.45/0/asm-9-1-sources-jar/org/objectweb/asm/AnnotationVisitor.java  
\* /opt/cola/permits/1146079232\_1616457494.45/0/asm-9-1-sources-jar/org/objectweb/asm/signature/SignatureVisitor.java  
\* /opt/cola/permits/1146079232\_1616457494.45/0/asm-9-1-sources-jar/org/objectweb/asm/Frame.java  
\* /opt/cola/permits/1146079232\_1616457494.45/0/asm-9-1-sources-jar/org/objectweb/asm/SymbolTable.java  
\* /opt/cola/permits/1146079232\_1616457494.45/0/asm-9-1-sources-jar/org/objectweb/asm/ModuleWriter.java  
\* /opt/cola/permits/1146079232\_1616457494.45/0/asm-9-1-sources-jar/org/objectweb/asm/MethodVisitor.java  
\* /opt/cola/permits/1146079232\_1616457494.45/0/asm-9-1-sources-jar/org/objectweb/asm/RecordComponentWriter.java  
\* /opt/cola/permits/1146079232\_1616457494.45/0/asm-9-1-sources-jar/org/objectweb/asm/Symbol.java  
\* /opt/cola/permits/1146079232\_1616457494.45/0/asm-9-1-sources-jar/org/objectweb/asm/CurrentFrame.java  
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Found in path(s):

\* /opt/cola/permits/1146079232\_1616457494.45/0/asm-9-1-sources-jar/org/objectweb/asm/package.html

\* /opt/cola/permits/1146079232\_1616457494.45/0/asm-9-1-sources-jar/org/objectweb/asm/signature/package.html

## 1.182 openssl 1.1.1q-r0

### 1.182.1 Available under license :

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Description: Bindings to OpenSSL libssl and libcrypto, plus custom SSH pubkey parsers. Supports RSA, DSA and EC curves P-256, P-384 and P-521. Cryptographic signatures can either be created and verified manually or via x509 certificates. AES can be used in cbc, ctr or gcm mode for symmetric encryption; RSA for asymmetric (public key) encryption or EC for Diffie Hellman. High-level envelope functions combine RSA and AES for encrypting arbitrary sized data. Other utilities include key generators, hash functions (md5, sha1, sha256, etc), base64 encoder, a secure random number generator, and 'bignum' math methods for manually performing crypto calculations on large multibyte integers.

Packaged: 2018-11-15 13:15:06 UTC; jeroen

License: MIT + file LICENSE

Title: Toolkit for Encryption, Signatures and Certificates Based on OpenSSL

URL: <https://github.com/jeroen/openssl#readme>

BugReports: <https://github.com/jeroen/openssl/issues>

SystemRequirements: OpenSSL >= 1.0.1

RoxygenNote: 6.1.1

VignetteBuilder: knitr

Maintainer: Jeroen Ooms <[jeroen@berkeley.edu](mailto:jeroen@berkeley.edu)>

Type: Package

Repository: CRAN

Version: 1.1

Suggests: testthat, digest, knitr, rmarkdown, jsonlite, jose

NeedsCompilation: yes

Author: Jeroen Ooms [aut, cre] (<<https://orcid.org/0000-0002-4035-0289>>), Oliver Keyes [ctb]

Package: openssl

Authors@R: c(person("Jeroen", "Ooms", role = c("aut", "cre"), email = "jeroen@berkeley.edu", comment = c(ORCID = "0000-0002-4035-0289")), person("Oliver", "Keyes", role = "ctb"))

Date/Publication: 2018-11-15 14:20:03 UTC

Found in path(s):

\* /opt/cola/permits/1357762054\_1657278687.5787704/0/openssl-1-1-b1-jar/org/renjin/cran/openssl/DESCRIPTION  
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/\*!

\* Bootstrap v3.3.5 (<http://getbootstrap.com>)

\* Copyright 2011-2015 Twitter, Inc.

\* Licensed under the MIT license

\*/

/\*! Respond.js v1.4.2: min/max-width media query polyfill \* Copyright 2013 Scott Jehl

\* Licensed under <https://github.com/scottjehl/Respond/blob/master/LICENSE-MIT>

\* \*/

Found in path(s):

\* /opt/cola/permits/1357762054\_1657278687.5787704/0/openssl-1-1-b1-

jar/org/renjin/cran/openssl/doc/secure\_rng.html

\* /opt/cola/permits/1357762054\_1657278687.5787704/0/openssl-1-1-b1-

jar/org/renjin/cran/openssl/doc/bignum.html

\* /opt/cola/permits/1357762054\_1657278687.5787704/0/openssl-1-1-b1-jar/org/renjin/cran/openssl/doc/keys.html

\* /opt/cola/permits/1357762054\_1657278687.5787704/0/openssl-1-1-b1-

jar/org/renjin/cran/openssl/doc/crypto\_hashing.html

## 1.183 simpleclient\_tracer\_otel 0.15.0

### 1.183.1 Available under license :

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\* /opt/cola/permits/1362667798\_1657728128.698827/0/simpleclient-tracer-otel-0-15-0-sources-1-jar/META-

INF/maven/io.prometheus/simpleclient\_tracer\_otel/pom.xml

## 1.184 netty-reactive-streams 2.0.0

### 1.184.1 Available under license :

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## 1.185 free-type 2.12.1-r0

## 1.185.1 Available under license :

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2006-Jan-27

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o freetype-devel@nongnu.org

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builds/unix/pkg.m4

#

docs/FTL.TXT

docs/GPLv2.TXT

#

include/freetype/internal/fthash.h

#

src/base/fthash.c

src/base/md5.c

src/base/md5.h

#

src/bdf/bdf.c

src/bdf/bdf.h

src/bdf/bdfdrivr.c

src/bdf/bdfdrivr.h

src/bdf/bdferror.h

src/bdf/bdflib.c

src/bdf/module.mk

src/bdf/README

```
src/bdf/rules.mk
#
src/pcf/module.mk
src/pcf/pcf.c
src/pcf/pcf.h
src/pcf/pcfdrivr.c
src/pcf/pcfdrivr.h
src/pcf/pcferror.h
src/pcf/pcfread.c
src/pcf/pcfread.h
src/pcf/pcfutil.c
src/pcf/pcfutil.h
src/pcf/README
src/pcf/rules.mk
#
src/gzip/adler32.c
src/gzip/infblock.c
src/gzip/infblock.h
src/gzip/infcodes.c
src/gzip/infcodes.h
src/gzip/inffixed.h
src/gzip/inflate.c
src/gzip/inftrees.c
src/gzip/inftrees.h
src/gzip/infutil.c
src/gzip/infutil.h
src/gzip/zconf.h
src/gzip/zlib.h
src/gzip/zutil.c
src/gzip/zutil.h
#
src/tools/apinames.c
src/tools/ftandom/ftandom.c
#
subprojects/dlg
#
EOF
```

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```
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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
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under certain conditions; type `show c' for details.
```

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```
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```

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

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# 1.191 okio 2.8.0

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* /opt/cola/permits/1096821398_1601900245.47/0/okio-2-8-0-sources-jar/commonMain/okio/-Util.kt
* /opt/cola/permits/1096821398_1601900245.47/0/okio-2-8-0-sources-jar/commonMain/okio/-Platform.kt
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## 1.192 selenium-api 4.1.4

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// **
* Click this element. If this causes a new page to load, you
* should discard all references to this element and any further
* operations performed on this element will throw a
* StaleElementReferenceException.
* <p>
* Note that if click() is done by sending a native event (which is
* the default on most browsers/platforms) then the method will
* _not_ wait for the next page to load and the caller should verify
* that themselves.
```



- \* <p>
- \* There are some preconditions for an element to be clicked. The
- \* element must be visible and it must have a height and width
- \* greater than 0.
- \* <p>
- \* See <a href="https://w3c.github.io/webdriver/#element-click">W3C WebDriver specification</a>
- \* for more details.
- \*
- \* @throws StaleElementReferenceException If the element no
- \* longer exists as initially defined
- \*/

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\* /opt/cola/permits/1612247603\_1680503819.7268128/0/selenium-api-4-1-4-sources-jar/org/openqa/selenium/logging/LoggingPreferences.java

\* /opt/cola/permits/1612247603\_1680503819.7268128/0/selenium-api-4-1-4-sources-jar/org/openqa/selenium/interactions/HasTouchScreen.java

\* /opt/cola/permits/1612247603\_1680503819.7268128/0/selenium-api-4-1-4-sources-jar/org/openqa/selenium/html5/Location.java

\* /opt/cola/permits/1612247603\_1680503819.7268128/0/selenium-api-4-1-4-sources-jar/org/openqa/selenium/interactions/Interaction.java

\* /opt/cola/permits/1612247603\_1680503819.7268128/0/selenium-api-4-1-4-sources-jar/org/openqa/selenium/InvalidArgumentException.java

\* /opt/cola/permits/1612247603\_1680503819.7268128/0/selenium-api-4-1-4-sources-jar/org/openqa/selenium/interactions/touch/MoveAction.java

\* /opt/cola/permits/1612247603\_1680503819.7268128/0/selenium-api-4-1-4-sources-jar/org/openqa/selenium/interactions/touch/SingleTapAction.java

\* /opt/cola/permits/1612247603\_1680503819.7268128/0/selenium-api-4-1-4-sources-jar/org/openqa/selenium/mobile/NetworkConnection.java

\* /opt/cola/permits/1612247603\_1680503819.7268128/0/selenium-api-4-1-4-sources-jar/org/openqa/selenium/PersistentCapabilities.java

\* /opt/cola/permits/1612247603\_1680503819.7268128/0/selenium-api-4-1-4-sources-jar/org/openqa/selenium/print/PageMargin.java

\* /opt/cola/permits/1612247603\_1680503819.7268128/0/selenium-api-4-1-4-sources-jar/org/openqa/selenium/interactions/Interactive.java

\* /opt/cola/permits/1612247603\_1680503819.7268128/0/selenium-api-4-1-4-sources-jar/org/openqa/selenium/NoSuchSessionException.java

\* /opt/cola/permits/1612247603\_1680503819.7268128/0/selenium-api-4-1-4-sources-jar/org/openqa/selenium/logging/Logs.java

\* /opt/cola/permits/1612247603\_1680503819.7268128/0/selenium-api-4-1-4-sources-jar/org/openqa/selenium/NotFoundException.java

\* /opt/cola/permits/1612247603\_1680503819.7268128/0/selenium-api-4-1-4-sources-jar/org/openqa/selenium/interactions/touch/ScrollAction.java

\* /opt/cola/permits/1612247603\_1680503819.7268128/0/selenium-api-4-1-4-sources-jar/org/openqa/selenium/logging/NeedsLocalLogs.java

\* /opt/cola/permits/1612247603\_1680503819.7268128/0/selenium-api-4-1-4-sources-jar/org/openqa/selenium/interactions/touch/UpAction.java

\* /opt/cola/permits/1612247603\_1680503819.7268128/0/selenium-api-4-1-4-sources-jar/org/openqa/selenium/internal/Debug.java

\* /opt/cola/permits/1612247603\_1680503819.7268128/0/selenium-api-4-1-4-sources-jar/org/openqa/selenium/net/LinuxEphemeralPortRangeDetector.java

\* /opt/cola/permits/1612247603\_1680503819.7268128/0/selenium-api-4-1-4-sources-jar/org/openqa/selenium/ScreenOrientation.java

\* /opt/cola/permits/1612247603\_1680503819.7268128/0/selenium-api-4-1-4-sources-jar/org/openqa/selenium/WrapsElement.java

\* /opt/cola/permits/1612247603\_1680503819.7268128/0/selenium-api-4-1-4-sources-jar/org/openqa/selenium/interactions/internal/SingleKeyAction.java

\* /opt/cola/permits/1612247603\_1680503819.7268128/0/selenium-api-4-1-4-sources-jar/org/openqa/selenium/InvalidSelectorException.java

\* /opt/cola/permits/1612247603\_1680503819.7268128/0/selenium-api-4-1-4-sources-jar/org/openqa/selenium/ScriptKey.java

\* /opt/cola/permits/1612247603\_1680503819.7268128/0/selenium-api-4-1-4-sources-jar/org/openqa/selenium/UnableToSetCookieException.java

\* /opt/cola/permits/1612247603\_1680503819.7268128/0/selenium-api-4-1-4-sources-jar/org/openqa/selenium/InvalidElementStateException.java

```
* /opt/cola/permits/1612247603_1680503819.7268128/0/selenium-api-4-1-4-sources-
jar/org/openqa/selenium/interactions/MoveTargetOutOfBoundsException.java
* /opt/cola/permits/1612247603_1680503819.7268128/0/selenium-api-4-1-4-sources-
jar/org/openqa/selenium/NoSuchFrameException.java
* /opt/cola/permits/1612247603_1680503819.7268128/0/selenium-api-4-1-4-sources-
jar/org/openqa/selenium/DeviceRotation.java
* /opt/cola/permits/1612247603_1680503819.7268128/0/selenium-api-4-1-4-sources-
jar/org/openqa/selenium/html5/LocalStorage.java
* /opt/cola/permits/1612247603_1680503819.7268128/0/selenium-api-4-1-4-sources-
jar/org/openqa/selenium/interactions/Coordinates.java
* /opt/cola/permits/1612247603_1680503819.7268128/0/selenium-api-4-1-4-sources-
jar/org/openqa/selenium/logging/CompositeLocalLogs.java
* /opt/cola/permits/1612247603_1680503819.7268128/0/selenium-api-4-1-4-sources-
jar/org/openqa/selenium/logging/profiler/EventType.java
* /opt/cola/permits/1612247603_1680503819.7268128/0/selenium-api-4-1-4-sources-
jar/org/openqa/selenium/interactions/SendKeysAction.java
* /opt/cola/permits/1612247603_1680503819.7268128/0/selenium-api-4-1-4-sources-
jar/org/openqa/selenium/logging/profiler/ProfilerLogEntry.java
```

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```
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// software distributed under the License is distributed on an
/**
```

```
* Load a new web page in the current browser window. This is done using an HTTP POST operation,
* and the method will block until the load is complete (with the default 'page load strategy'.
* This will follow redirects issued either by the server or as a meta-redirect from within the
* returned HTML. Should a meta-redirect "rest" for any duration of time, it is best to wait until
* this timeout is over, since should the underlying page change whilst your test is executing the
* results of future calls against this interface will be against the freshly loaded page. Synonym
* for { @link org.openqa.selenium.WebDriver.Navigation#to(String)}.
* <p>
* See W3C WebDriver specification
* for more details.
*
* @param url The URL to load. Must be a fully qualified URL
* @see org.openqa.selenium.PageLoadStrategy
*/
```

Found in path(s):

```
* /opt/cola/permits/1612247603_1680503819.7268128/0/selenium-api-4-1-4-sources-
jar/org/openqa/selenium/WebDriver.java
```



# 1.193 spring-cloud-sleuth-autoconfigure 3.1.7

## 1.193.1 Available under license :

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```
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 */
```

Found in path(s):

```
* /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-
jar/org/springframework/cloud/sleuth/autoconfig/instrument/batch/TraceStepBuilderFactoryBeanPostProcessor.java
* /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-
jar/org/springframework/cloud/sleuth/autoconfig/instrument/cassandra/TraceCassandraReactiveAutoConfiguration.j
ava
* /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-
jar/org/springframework/cloud/sleuth/autoconfig/instrument/task/TraceApplicationRunnerBeanPostProcessor.java
* /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-
jar/org/springframework/cloud/sleuth/autoconfig/brave/BraveBridgeConfiguration.java
* /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-
jar/org/springframework/cloud/sleuth/autoconfig/instrument/redis/TraceLettuceClientResourcesBeanPostProcessor.j
ava
* /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-
jar/org/springframework/cloud/sleuth/autoconfig/instrument/task/TraceCommandLineRunnerBeanPostProcessor.jav
a
* /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-
jar/org/springframework/cloud/sleuth/autoconfig/SingleSkipPattern.java
* /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-
jar/org/springframework/cloud/sleuth/autoconfig/instrument/tx/AbstractTransactionManagerInstrumenter.java
* /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-
jar/org/springframework/cloud/sleuth/autoconfig/instrument/mongodb/TraceMongoDbAutoConfiguration.java
* /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-
jar/org/springframework/cloud/sleuth/autoconfig/zipkin2/ZipkinSenderConfigurationImportSelector.java
* /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-
jar/org/springframework/cloud/sleuth/autoconfig/actuate/BufferingSpanReporter.java
```

\* /opt/cola/permits/1612247639\_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/brave/instrument/redis/TraceRedisProperties.java

\* /opt/cola/permits/1612247639\_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/instrument/web/client/TraceWebClientAutoConfiguration.java

\* /opt/cola/permits/1612247639\_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/instrument/async/TraceAsyncDefaultAutoConfiguration.java

\* /opt/cola/permits/1612247639\_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/instrument/web/SleuthHttpProperties.java

\* /opt/cola/permits/1612247639\_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/brave/SleuthProperties.java

\* /opt/cola/permits/1612247639\_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/instrument/rxjava/SleuthRxJavaSchedulersProperties.java

\* /opt/cola/permits/1612247639\_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/brave/instrument/grpc/BraveGrpcAutoConfiguration.java

\* /opt/cola/permits/1612247639\_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/actuate/SleuthActuatorProperties.java

\* /opt/cola/permits/1612247639\_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/instrument/circuitbreaker/TraceCircuitBreakerAutoConfiguration.java

\* /opt/cola/permits/1612247639\_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/instrument/kafka/TracingKafkaAutoConfiguration.java

\* /opt/cola/permits/1612247639\_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/instrument/jdbc/TraceDataSourceDecoratorBeanPostProcessor.java

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\* /opt/cola/permits/1612247639\_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/instrument/web/client/TraceGatewayEnvironmentPostProcessor.java

\* /opt/cola/permits/1612247639\_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/instrument/web/TraceWebServletConfiguration.java

\* /opt/cola/permits/1612247639\_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/brave/instrument/redis/BraveRedisAutoConfiguration.java

\* /opt/cola/permits/1612247639\_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/instrument/rsocket/SleuthRSocketProperties.java

\* /opt/cola/permits/1612247639\_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/brave/instrument/web/BraveHttpConfiguration.java

\* /opt/cola/permits/1612247639\_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/instrument/web/ConditionalOnSleuthWeb.java

\* /opt/cola/permits/1612247639\_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/zipkin2/ZipkinSenderProperties.java

\* /opt/cola/permits/1612247639\_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/brave/BraveAutoConfiguration.java

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\* /opt/cola/permits/1612247639\_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/instrument/redis/TraceRedisAutoConfiguration.java

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jar/org/springframework/cloud/sleuth/autoconfig/instrument/r2dbc/TraceConnectionFactoryBeanPostProcessor.java  
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jar/org/springframework/cloud/sleuth/autoconfig/instrument/jdbc/TraceJdbcAutoConfiguration.java  
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jar/org/springframework/cloud/sleuth/autoconfig/instrument/reactor/TraceReactorAutoConfigurationAccessorConf  
guration.java  
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jar/org/springframework/cloud/sleuth/autoconfig/instrument/web/ConditionalOnSleuthHttp.java  
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jar/org/springframework/cloud/sleuth/autoconfig/instrument/web/client/ConditionalOnSleuthWebClient.java  
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jar/org/springframework/cloud/sleuth/autoconfig/instrument/async/ExecutorBeanPostProcessor.java  
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jar/org/springframework/cloud/sleuth/autoconfig/brave/BraveSamplerConfiguration.java  
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\* /opt/cola/permits/1612247639\_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-  
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jar/org/springframework/cloud/sleuth/autoconfig/instrument/web/client/TraceWebAsyncClientAutoConfiguration.ja  
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jar/org/springframework/cloud/sleuth/autoconfig/instrument/web/TraceWebMvcConfigurer.java  
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jar/org/springframework/cloud/sleuth/autoconfig/instrument/session/TraceSessionAutoConfiguration.java  
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jar/org/springframework/cloud/sleuth/autoconfig/actuate/FinishedSpanWriter.java  
\* /opt/cola/permits/1612247639\_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-  
jar/org/springframework/cloud/sleuth/autoconfig/instrument/kafka/TracingReactorKafkaAutoConfiguration.java  
\* /opt/cola/permits/1612247639\_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-  
jar/org/springframework/cloud/sleuth/autoconfig/instrument/messaging/TraceSpringMessagingAutoConfiguration.ja  
va  
\* /opt/cola/permits/1612247639\_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-

jar/org/springframework/cloud/sleuth/autoconfig/instrument/web/client/feign/TraceFeignClientAutoConfiguration.java

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\* /opt/cola/permits/1612247639\_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/instrument/kafka/SpringKafkaFactoryBeanPostProcessor.java

\* /opt/cola/permits/1612247639\_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/instrument/messaging/TraceSpringIntegrationAutoConfiguration.java

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\* /opt/cola/permits/1612247639\_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/instrument/deployer/TraceAppDeployerBeanPostProcessor.java

\* /opt/cola/permits/1612247639\_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/instrument/tx/PlatformTransactionManagerInstrumenter.java

\* /opt/cola/permits/1612247639\_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/brave/SamplerCondition.java

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- \* /opt/cola/permits/1612247639\_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/brave/SleuthPropagationProperties.java
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jar/org/springframework/cloud/sleuth/autoconfig/instrument/deployer/TraceDeployerAutoConfiguration.java  
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jar/org/springframework/cloud/sleuth/autoconfig/instrument/prometheus/PrometheusExemplarsAutoConfiguration.j
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jar/org/springframework/cloud/loadbalancer/config/LoadBalancerZoneConfig.java
* /opt/cola/permits/1612248566_1679586979.445726/0/spring-cloud-loadbalancer-3-1-6-sources-
jar/org/springframework/cloud/loadbalancer/cache/CaffeineBasedLoadBalancerCacheManager.java
* /opt/cola/permits/1612248566_1679586979.445726/0/spring-cloud-loadbalancer-3-1-6-sources-
jar/org/springframework/cloud/loadbalancer/core/SelectedInstanceCallback.java
```

\* /opt/cola/permits/1612248566\_1679586979.445726/0/spring-cloud-loadbalancer-3-1-6-sources-jar/org/springframework/cloud/loadbalancer/core/ReactorServiceInstanceLoadBalancer.java  
\* /opt/cola/permits/1612248566\_1679586979.445726/0/spring-cloud-loadbalancer-3-1-6-sources-jar/org/springframework/cloud/loadbalancer/core/RequestBasedStickySessionServiceInstanceListSupplier.java  
\* /opt/cola/permits/1612248566\_1679586979.445726/0/spring-cloud-loadbalancer-3-1-6-sources-jar/org/springframework/cloud/loadbalancer/support/LoadBalancerClientFactory.java  
\* /opt/cola/permits/1612248566\_1679586979.445726/0/spring-cloud-loadbalancer-3-1-6-sources-jar/org/springframework/cloud/loadbalancer/cache/DefaultLoadBalancerCache.java  
\* /opt/cola/permits/1612248566\_1679586979.445726/0/spring-cloud-loadbalancer-3-1-6-sources-jar/org/springframework/cloud/loadbalancer/stats/LoadBalancerTags.java  
\* /opt/cola/permits/1612248566\_1679586979.445726/0/spring-cloud-loadbalancer-3-1-6-sources-jar/org/springframework/cloud/loadbalancer/cache/DefaultLoadBalancerCacheManager.java  
\* /opt/cola/permits/1612248566\_1679586979.445726/0/spring-cloud-loadbalancer-3-1-6-sources-jar/org/springframework/cloud/loadbalancer/core/XForwardedHeadersTransformer.java  
\* /opt/cola/permits/1612248566\_1679586979.445726/0/spring-cloud-loadbalancer-3-1-6-sources-jar/org/springframework/cloud/loadbalancer/blocking/retry/BlockingLoadBalancedRetryFactory.java  
\* /opt/cola/permits/1612248566\_1679586979.445726/0/spring-cloud-loadbalancer-3-1-6-sources-jar/org/springframework/cloud/loadbalancer/cache/LoadBalancerCacheProperties.java  
\* /opt/cola/permits/1612248566\_1679586979.445726/0/spring-cloud-loadbalancer-3-1-6-sources-jar/org/springframework/cloud/loadbalancer/core/ReactorLoadBalancer.java  
\* /opt/cola/permits/1612248566\_1679586979.445726/0/spring-cloud-loadbalancer-3-1-6-sources-jar/org/springframework/cloud/loadbalancer/support/ServiceInstanceListSuppliers.java  
\* /opt/cola/permits/1612248566\_1679586979.445726/0/spring-cloud-loadbalancer-3-1-6-sources-jar/org/springframework/cloud/loadbalancer/config/LoadBalancerCacheAutoConfiguration.java  
\* /opt/cola/permits/1612248566\_1679586979.445726/0/spring-cloud-loadbalancer-3-1-6-sources-jar/org/springframework/cloud/loadbalancer/core/NoopServiceInstanceListSupplier.java  
\* /opt/cola/permits/1612248566\_1679586979.445726/0/spring-cloud-loadbalancer-3-1-6-sources-jar/org/springframework/cloud/loadbalancer/support/LoadBalancerEnvironmentPropertyUtils.java  
\* /opt/cola/permits/1612248566\_1679586979.445726/0/spring-cloud-loadbalancer-3-1-6-sources-jar/org/springframework/cloud/loadbalancer/cache/LoadBalancerCacheManager.java  
\* /opt/cola/permits/1612248566\_1679586979.445726/0/spring-cloud-loadbalancer-3-1-6-sources-jar/org/springframework/cloud/loadbalancer/core/DiscoveryClientServiceInstanceListSupplier.java  
\* /opt/cola/permits/1612248566\_1679586979.445726/0/spring-cloud-loadbalancer-3-1-6-sources-jar/org/springframework/cloud/loadbalancer/core/ServiceInstanceListSupplier.java  
\* /opt/cola/permits/1612248566\_1679586979.445726/0/spring-cloud-loadbalancer-3-1-6-sources-jar/org/springframework/cloud/loadbalancer/core/RoundRobinLoadBalancer.java  
\* /opt/cola/permits/1612248566\_1679586979.445726/0/spring-cloud-loadbalancer-3-1-6-sources-jar/org/springframework/cloud/loadbalancer/core/CachingServiceInstanceListSupplier.java  
\* /opt/cola/permits/1612248566\_1679586979.445726/0/spring-cloud-loadbalancer-3-1-6-sources-jar/org/springframework/cloud/loadbalancer/config/LoadBalancerAutoConfiguration.java  
\* /opt/cola/permits/1612248566\_1679586979.445726/0/spring-cloud-loadbalancer-3-1-6-sources-jar/org/springframework/cloud/loadbalancer/blocking/client/BlockingLoadBalancerClient.java  
\* /opt/cola/permits/1612248566\_1679586979.445726/0/spring-cloud-loadbalancer-3-1-6-sources-jar/org/springframework/cloud/loadbalancer/config/LoadBalancerStatsAutoConfiguration.java  
\* /opt/cola/permits/1612248566\_1679586979.445726/0/spring-cloud-loadbalancer-3-1-6-sources-jar/org/springframework/cloud/loadbalancer/annotation/LoadBalancerClients.java

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```
*/opt/cola/permits/1612248566_1679586979.445726/0/spring-cloud-loadbalancer-3-1-6-sources-
jar/org/springframework/cloud/loadbalancer/security/OAuth2LoadBalancerClientAutoConfiguration.java
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*/opt/cola/permits/1612248566_1679586979.445726/0/spring-cloud-loadbalancer-3-1-6-sources-
jar/org/springframework/cloud/loadbalancer/core/RetryAwareServiceInstanceListSupplier.java
*/opt/cola/permits/1612248566_1679586979.445726/0/spring-cloud-loadbalancer-3-1-6-sources-
jar/org/springframework/cloud/loadbalancer/core/HintBasedServiceInstanceListSupplier.java
*/opt/cola/permits/1612248566_1679586979.445726/0/spring-cloud-loadbalancer-3-1-6-sources-
jar/org/springframework/cloud/loadbalancer/core/LoadBalancerServiceInstanceCookieTransformer.java
*/opt/cola/permits/1612248566_1679586979.445726/0/spring-cloud-loadbalancer-3-1-6-sources-
jar/org/springframework/cloud/loadbalancer/config/BlockingLoadBalancerClientAutoConfiguration.java
*/opt/cola/permits/1612248566_1679586979.445726/0/spring-cloud-loadbalancer-3-1-6-sources-
jar/org/springframework/cloud/loadbalancer/core/HealthCheckServiceInstanceListSupplier.java
```

\* /opt/cola/permits/1612248566\_1679586979.445726/0/spring-cloud-loadbalancer-3-1-6-sources-jar/org/springframework/cloud/loadbalancer/blocking/XForwardedHeadersTransformer.java

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\* /opt/cola/permits/1612248566\_1679586979.445726/0/spring-cloud-loadbalancer-3-1-6-sources-jar/org/springframework/cloud/loadbalancer/core/ServiceInstanceListSupplierBuilder.java

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\* /opt/cola/permits/1612248566\_1679586979.445726/0/spring-cloud-loadbalancer-3-1-6-sources-jar/META-INF/maven/org.springframework.cloud/spring-cloud-loadbalancer/pom.xml

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\* /opt/cola/permits/1612248566\_1679586979.445726/0/spring-cloud-loadbalancer-3-1-6-sources-jar/org.springframework.cloud.loadbalancer.core/DelegatingServiceInstanceListSupplier.java

## 1.199 netflix-eventbus 0.3.0

## 1.200 json-smart 2.4.8

### 1.200.1 Available under license :

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Manifest-Version: 1.0

Bnd-LastModified: 1644737862078

Build-Jdk: 11.0.14

Built-By: uriel

Bundle-Description: JSON (JavaScript Object Notation) is a lightweight

data-interchange format. It is easy for humans to read and write. It

is easy for machines to parse and generate. It is based on a subset

of the JavaScript Programming Language, Standard ECMA-262 3rd Edition

- December 1999. JSON is a text format that is completely language i

independent but uses conventions that are familiar to programmers of the C-family of languages, including C, C++, C#, Java, JavaScript, Perl, Python, and many others. These properties make JSON an ideal data-interchange language.

Bundle-DocURL: <https://urielch.github.io/>

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

Bundle-ManifestVersion: 2

Bundle-Name: json-smart

Bundle-SymbolicName: net.minidev.json-smart

Bundle-Vendor: Chemouni Uriel

Bundle-Version: 2.4.8

Created-By: Apache Maven Bundle Plugin

Export-Package: net.minidev.json;uses:="net.minidev.asm,net.minidev.json.parser,net.minidev.json.reader,net.minidev.json.writer";version="2.4.8",net.minidev.json.annotate;version="2.4.8",net.minidev.json.parser;uses:="net.minidev.json.writer";version="2.4.8",net.minidev.json.reader;uses:="net.minidev.json";version="2.4.8",net.minidev.json.writer;uses:="net.minidev.json,net.minidev.json.parser";version="2.4.8"

Import-Package: net.minidev.asm;version="[2.4,3)",net.minidev.json,net.minidev.json.annotate,net.minidev.json.parser,net.minidev.json.reader,net.minidev.json.writer

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

Tool: Bnd-5.1.1.202006162103

Found in path(s):

\* /opt/cola/permits/1301894975\_1649303968.12/0/json-smart-2-4-8-1-jar/META-INF/MANIFEST.MF

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\* /opt/cola/permits/1301894975\_1649303968.12/0/json-smart-2-4-8-1-jar/META-INF/maven/net.minidev/json-smart/pom.xml

## 1.201 simpleclient\_tracer\_otel\_agent 0.15.0

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Manifest-Version: 1.0

Bnd-LastModified: 1644098835491

Build-Jdk: 11.0.13

Built-By: fabian

Bundle-Description: The Prometheus Java Suite: Client Metrics, Exposition, and Examples

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

Bundle-ManifestVersion: 2

Bundle-Name: Prometheus Java Span Context Supplier - OpenTelemetry Agent  
Bundle-SymbolicName: io.prometheus.simpleclient\_tracer\_otel\_agent  
Bundle-Version: 0.15.0  
Created-By: Apache Maven Bundle Plugin  
Export-Package: io.prometheus.client.exemplars.tracer.otel\_agent;uses:="io.prometheus.client.exemplars.tracer.common";version="0.15.0"  
Import-Package: io.opentelemetry.api.trace,io.prometheus.client.exemplars.tracer.common;version="[0.15,1)"  
Tool: Bnd-2.1.0.20130426-122213

Found in path(s):

\* /opt/cola/permits/1362667461\_1657728042.0528543/0/simpleclient-tracer-otel-agent-0-15-0-2-jar/META-INF/MANIFEST.MF

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\* /opt/cola/permits/1362667461\_1657728042.0528543/0/simpleclient-tracer-otel-agent-0-15-0-2-jar/META-INF/maven/io.prometheus/simpleclient\_tracer\_otel\_agent/pom.xml

# 1.202 bson 4.8.0

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Ruby BSON

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## 1.203 jackson-annotations 2.13.5

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\* /opt/cola/permits/1612248574\_1679586974.7239923/0/spring-cloud-config-client-3-1-6-sources-jar/org/springframework/cloud/config/client/RetryProperties.java  
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\* /opt/cola/permits/1612248574\_1679586974.7239923/0/spring-cloud-config-client-3-1-6-sources-jar/org/springframework/cloud/config/client/ConfigServerConfigDataResource.java  
\* /opt/cola/permits/1612248574\_1679586974.7239923/0/spring-cloud-config-client-3-1-6-sources-jar/org/springframework/cloud/config/client/ConfigServerConfigDataLoader.java  
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\* /opt/cola/permits/1612248574\_1679586974.7239923/0/spring-cloud-config-client-3-1-6-sources-jar/org/springframework/cloud/config/client/ConfigServicePropertySourceLocator.java

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\* /opt/cola/permits/1612248574\_1679586974.7239923/0/spring-cloud-config-client-3-1-6-sources-jar/org/springframework/cloud/config/client/ConfigClientAutoConfiguration.java  
\* /opt/cola/permits/1612248574\_1679586974.7239923/0/spring-cloud-config-client-3-1-6-sources-jar/org/springframework/cloud/config/client/ConfigServiceBootstrapConfiguration.java

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* /opt/cola/permits/1568674786_1676616960.6248045/0/netty-transport-native-unix-common-4-1-89-final-sources-jar/io/netty/channel/unix/DomainDatagramSocketAddress.java
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* /opt/cola/permits/1568674786_1676616960.6248045/0/netty-transport-native-unix-common-4-1-89-final-sources-jar/io/netty/channel/unix/DomainDatagramChannelConfig.java
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Found in path(s):

\* /opt/cola/permits/1568674786\_1676616960.6248045/0/netty-transport-native-unix-common-4-1-89-final-sources-jar/netty\_unix\_filedescriptor.h

\* /opt/cola/permits/1568674786\_1676616960.6248045/0/netty-transport-native-unix-common-4-1-89-final-sources-jar/netty\_unix\_filedescriptor.c

\* /opt/cola/permits/1568674786\_1676616960.6248045/0/netty-transport-native-unix-common-4-1-89-final-sources-jar/netty\_unix\_errors.h

\* /opt/cola/permits/1568674786\_1676616960.6248045/0/netty-transport-native-unix-common-4-1-89-final-sources-jar/io/netty/channel/unix/DomainSocketAddress.java

\* /opt/cola/permits/1568674786\_1676616960.6248045/0/netty-transport-native-unix-common-4-1-89-final-sources-jar/io/netty/channel/unix/ServerDomainSocketChannel.java

\* /opt/cola/permits/1568674786\_1676616960.6248045/0/netty-transport-native-unix-common-4-1-89-final-sources-jar/io/netty/channel/unix/FileDescriptor.java

\* /opt/cola/permits/1568674786\_1676616960.6248045/0/netty-transport-native-unix-common-4-1-89-final-sources-jar/netty\_unix\_errors.c

\* /opt/cola/permits/1568674786\_1676616960.6248045/0/netty-transport-native-unix-common-4-1-89-final-sources-jar/io/netty/channel/unix/DomainSocketReadMode.java

\* /opt/cola/permits/1568674786\_1676616960.6248045/0/netty-transport-native-unix-common-4-1-89-final-sources-jar/io/netty/channel/unix/DatagramSocketAddress.java

\* /opt/cola/permits/1568674786\_1676616960.6248045/0/netty-transport-native-unix-common-4-1-89-final-sources-jar/io/netty/channel/unix/Socket.java

\* /opt/cola/permits/1568674786\_1676616960.6248045/0/netty-transport-native-unix-common-4-1-89-final-sources-jar/io/netty/channel/unix/UnixChannel.java

\* /opt/cola/permits/1568674786\_1676616960.6248045/0/netty-transport-native-unix-common-4-1-89-final-sources-jar/io/netty/channel/unix/NativeInetAddress.java

\* /opt/cola/permits/1568674786\_1676616960.6248045/0/netty-transport-native-unix-common-4-1-89-final-sources-jar/netty\_unix\_socket.c

\* /opt/cola/permits/1568674786\_1676616960.6248045/0/netty-transport-native-unix-common-4-1-89-final-sources-jar/io/netty/channel/unix/Errors.java

\* /opt/cola/permits/1568674786\_1676616960.6248045/0/netty-transport-native-unix-common-4-1-89-final-sources-jar/io/netty/channel/unix/DomainSocketChannel.java

\* /opt/cola/permits/1568674786\_1676616960.6248045/0/netty-transport-native-unix-common-4-1-89-final-sources-jar/io/netty/channel/unix/DomainSocketChannelConfig.java

\* /opt/cola/permits/1568674786\_1676616960.6248045/0/netty-transport-native-unix-common-4-1-89-final-sources-jar/netty\_unix\_socket.h

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\* /opt/cola/permits/1568674786\_1676616960.6248045/0/netty-transport-native-unix-common-4-1-89-final-sources-jar/io/netty/channel/unix/PreferredDirectByteBufferAllocator.java  
\* /opt/cola/permits/1568674786\_1676616960.6248045/0/netty-transport-native-unix-common-4-1-89-final-sources-jar/io/netty/channel/unix/Buffer.java  
\* /opt/cola/permits/1568674786\_1676616960.6248045/0/netty-transport-native-unix-common-4-1-89-final-sources-jar/netty\_unix\_buffer.c  
\* /opt/cola/permits/1568674786\_1676616960.6248045/0/netty-transport-native-unix-common-4-1-89-final-sources-jar/netty\_unix\_buffer.h

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\* /opt/cola/permits/1568674786\_1676616960.6248045/0/netty-transport-native-unix-common-4-1-89-final-sources-jar/io/netty/channel/unix/IovArray.java  
\* /opt/cola/permits/1568674786\_1676616960.6248045/0/netty-transport-native-unix-common-4-1-89-final-sources-jar/io/netty/channel/unix/package-info.java  
\* /opt/cola/permits/1568674786\_1676616960.6248045/0/netty-transport-native-unix-common-4-1-89-final-sources-jar/io/netty/channel/unix/Unix.java  
\* /opt/cola/permits/1568674786\_1676616960.6248045/0/netty-transport-native-unix-common-4-1-89-final-sources-jar/io/netty/channel/unix/UnixChannelOption.java

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\* /opt/cola/permits/1568674786\_1676616960.6248045/0/netty-transport-native-unix-common-4-1-89-final-sources-jar/io/netty/channel/unix/IntegerUnixChannelOption.java  
\* /opt/cola/permits/1568674786\_1676616960.6248045/0/netty-transport-native-unix-common-4-1-89-final-sources-jar/io/netty/channel/unix/RawUnixChannelOption.java  
\* /opt/cola/permits/1568674786\_1676616960.6248045/0/netty-transport-native-unix-common-4-1-89-final-sources-jar/io/netty/channel/unix/GenericUnixChannelOption.java  
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\* /opt/cola/permits/1568674786\_1676616960.6248045/0/netty-transport-native-unix-common-4-1-89-final-sources-jar/netty\_unix.h  
\* /opt/cola/permits/1568674786\_1676616960.6248045/0/netty-transport-native-unix-common-4-1-89-final-sources-jar/netty\_unix.c  
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*/
```

Found in path(s):

```
* /opt/cola/permits/1568674786_1676616960.6248045/0/netty-transport-native-unix-common-4-1-89-final-sources-
jar/netty_unix_jni.h
* /opt/cola/permits/1568674786_1676616960.6248045/0/netty-transport-native-unix-common-4-1-89-final-sources-
jar/io/netty/channel/unix/UnixChannelUtil.java
```

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Found in path(s):

```
* /opt/cola/permits/1568674786_1676616960.6248045/0/netty-transport-native-unix-common-4-1-89-final-sources-
jar/META-INF/maven/io.netty/netty-transport-native-unix-common/pom.xml
```

## 1.207 selenium-devtools-v100 4.2.2

### 1.207.1 Available under license :

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ATTRIBUTE\_REPORTING("attribution-reporting"),

Found in path(s):

```
* /opt/cola/permits/1612247583_1680503823.7549129/0/selenium-devtools-v100-4-2-2-sources-jar/org/openqa/selenium/devtools/v100/page/model/PermissionsPolicyFeature.java
```

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

```
package org.openqa.selenium.devtools.v100.audits.model;
```

```
import org.openqa.selenium.Beta;
```

```
import org.openqa.selenium.json.JsonInput;
```

```
public enum AttributionReportingIssueType {
```

```
 PERMISSIONPOLICYDISABLED("PermissionPolicyDisabled"),
 INVALIDATTRIBUTIONSOURCEEVENTID("InvalidAttributionSourceEventId"),
 INVALIDATTRIBUTIONDATA("InvalidAttributionData"),
 ATTRIBUTIONSOURCEUNTRUSTWORTHYORIGIN("AttributionSourceUntrustworthyOrigin"),
 ATTRIBUTIONUNTRUSTWORTHYORIGIN("AttributionUntrustworthyOrigin"),
 ATTRIBUTIONTRIGGERDATATOOLARGE("AttributionTriggerDataTooLarge"),
 ATTRIBUTIONEVENTSOURCETRIGGERDATATOOLARGE("AttributionEventSourceTriggerDataTooLarge"),
 INVALIDATTRIBUTIONSOURCEEXPIRY("InvalidAttributionSourceExpiry"),
 INVALIDATTRIBUTIONSOURCEPRIORITY("InvalidAttributionSourcePriority"),
 INVALIDEVENTSOURCETRIGGERDATA("InvalidEventSourceTriggerData"),
 INVALIDTRIGGERPRIORITY("InvalidTriggerPriority"),
 INVALIDTRIGGERDEDUPKEY("InvalidTriggerDedupKey");
```

```
 private String value;
```

```
 AttributionReportingIssueType(String value) {
```

```
 this.value = value;
```

```
 }
```

```
 public static AttributionReportingIssueType fromString(String s) {
```

```
 return java.util.Arrays.stream(AttributionReportingIssueType.values()).filter(rs ->
rs.value.equalsIgnoreCase(s)).findFirst().orElseThrow(() -> new
org.openqa.selenium.devtools.DevToolsException("Given value " + s + " is not found within
AttributionReportingIssueType "));
```

```
 }
```

```
 public String toString() {
```

```
 return value;
```

```
 }
```

```
 public String toJson() {
```

```
 return value;
```

```
 }
```

```
 private static AttributionReportingIssueType fromJson(JsonInput input) {
```

```
 return fromString(input.nextString());
 }
}
```

Found in path(s):

```
* /opt/cola/permits/1612247583_1680503823.7549129/0/selenium-devtools-v100-4-2-2-sources-
jar/org/openqa/selenium/devtools/v100/audits/model/AttributionReportingIssueType.java
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```

```
private final java.util.Optional<org.openqa.selenium.devtools.v100.audits.model.AttributionReportingIssueDetails>
attributionReportingIssueDetails;
public
InspectorIssueDetails(java.util.Optional<org.openqa.selenium.devtools.v100.audits.model.SameSiteCookieIssueDet
ails> sameSiteCookieIssueDetails,
java.util.Optional<org.openqa.selenium.devtools.v100.audits.model.MixedContentIssueDetails>
mixedContentIssueDetails,
java.util.Optional<org.openqa.selenium.devtools.v100.audits.model.BlockedByResponseIssueDetails>
blockedByResponseIssueDetails,
java.util.Optional<org.openqa.selenium.devtools.v100.audits.model.HeavyAdIssueDetails> heavyAdIssueDetails,
java.util.Optional<org.openqa.selenium.devtools.v100.audits.model.ContentSecurityPolicyIssueDetails>
contentSecurityPolicyIssueDetails,
java.util.Optional<org.openqa.selenium.devtools.v100.audits.model.SharedArrayBufferIssueDetails>
sharedArrayBufferIssueDetails,
java.util.Optional<org.openqa.selenium.devtools.v100.audits.model.TrustedWebActivityIssueDetails>
twaQualityEnforcementDetails,
java.util.Optional<org.openqa.selenium.devtools.v100.audits.model.LowTextContrastIssueDetails>
lowTextContrastIssueDetails,
java.util.Optional<org.openqa.selenium.devtools.v100.audits.model.CorsIssueDetails> corsIssueDetails,
java.util.Optional<org.openqa.selenium.devtools.v100.audits.model.AttributionReportingIssueDetails>
attributionReportingIssueDetails,
java.util.Optional<org.openqa.selenium.devtools.v100.audits.model.QuirksModeIssueDetails>
quirksModeIssueDetails,
java.util.Optional<org.openqa.selenium.devtools.v100.audits.model.NavigatorUserAgentIssueDetails>
navigatorUserAgentIssueDetails,
java.util.Optional<org.openqa.selenium.devtools.v100.audits.model.GenericIssueDetails> genericIssueDetails,
java.util.Optional<org.openqa.selenium.devtools.v100.audits.model.DeprecationIssueDetails>
deprecationIssueDetails,
java.util.Optional<org.openqa.selenium.devtools.v100.audits.model.ClientHintIssueDetails> clientHintIssueDetails,
java.util.Optional<org.openqa.selenium.devtools.v100.audits.model.FederatedAuthRequestIssueDetails>
federatedAuthRequestIssueDetails) {
this.attributionReportingIssueDetails = attributionReportingIssueDetails;
public java.util.Optional<org.openqa.selenium.devtools.v100.audits.model.AttributionReportingIssueDetails>
getAttributionReportingIssueDetails() {
return attributionReportingIssueDetails;
java.util.Optional<org.openqa.selenium.devtools.v100.audits.model.AttributionReportingIssueDetails>
attributionReportingIssueDetails = java.util.Optional.empty();
case "attributionReportingIssueDetails":
attributionReportingIssueDetails =
```

```
java.util.Optional.ofNullable(input.read(org.openqa.selenium.devtools.v100.audits.model.AttributionReportingIssue
Details.class));
return new InspectorIssueDetails(sameSiteCookieIssueDetails, mixedContentIssueDetails,
blockedByResponseIssueDetails, heavyAdIssueDetails, contentSecurityPolicyIssueDetails,
sharedArrayBufferIssueDetails, twaQualityEnforcementDetails, lowTextContrastIssueDetails, corsIssueDetails,
attributionReportingIssueDetails, quirksModeIssueDetails, navigatorUserAgentIssueDetails, genericIssueDetails,
deprecationIssueDetails, clientHintIssueDetails, federatedAuthRequestIssueDetails);
```

Found in path(s):

```
* /opt/cola/permits/1612247583_1680503823.7549129/0/selenium-devtools-v100-4-2-2-sources-
jar/org/openqa/selenium/devtools/v100/audits/model/InspectorIssueDetails.java
```

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```
public Domain(java.lang.String name, java.lang.String version) {
```

Found in path(s):

```
* /opt/cola/permits/1612247583_1680503823.7549129/0/selenium-devtools-v100-4-2-2-sources-
jar/org/openqa/selenium/devtools/v100/schema/model/Domain.java
```

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```
private final java.util.List<org.openqa.selenium.devtools.v100.performancetimeline.model.LayoutShiftAttribution>
sources;
public LayoutShift(java.lang.Number value, java.lang.Boolean hadRecentInput,
org.openqa.selenium.devtools.v100.network.model.TimeSinceEpoch lastInputTime,
java.util.List<org.openqa.selenium.devtools.v100.performancetimeline.model.LayoutShiftAttribution> sources) {
public java.util.List<org.openqa.selenium.devtools.v100.performancetimeline.model.LayoutShiftAttribution>
getSources() {
java.util.List<org.openqa.selenium.devtools.v100.performancetimeline.model.LayoutShiftAttribution> sources =
null;
sources = input.read(new
com.google.common.reflect.TypeToken<java.util.List<org.openqa.selenium.devtools.v100.performancetimeline.mo
del.LayoutShiftAttribution>>()) {
```

Found in path(s):

```
* /opt/cola/permits/1612247583_1680503823.7549129/0/selenium-devtools-v100-4-2-2-sources-
jar/org/openqa/selenium/devtools/v100/performancetimeline/model/LayoutShift.java
```

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jar/org/openqa/selenium/devtools/v100/V100Log.java
```

```
* /opt/cola/permits/1612247583_1680503823.7549129/0/selenium-devtools-v100-4-2-2-sources-
```

```
jar/org/openqa/selenium/devtools/v100/V100Network.java
* /opt/cola/permits/1612247583_1680503823.7549129/0/selenium-devtools-v100-4-2-2-sources-
jar/org/openqa/selenium/devtools/v100/V100Javascript.java
* /opt/cola/permits/1612247583_1680503823.7549129/0/selenium-devtools-v100-4-2-2-sources-
jar/org/openqa/selenium/devtools/v100/V100Domains.java
* /opt/cola/permits/1612247583_1680503823.7549129/0/selenium-devtools-v100-4-2-2-sources-
jar/org/openqa/selenium/devtools/v100/V100Events.java
* /opt/cola/permits/1612247583_1680503823.7549129/0/selenium-devtools-v100-4-2-2-sources-
jar/org/openqa/selenium/devtools/v100/V100CdpInfo.java
* /opt/cola/permits/1612247583_1680503823.7549129/0/selenium-devtools-v100-4-2-2-sources-
jar/org/openqa/selenium/devtools/v100/V100Target.java
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```

ATTRIBUTIONREPORTINGISSUE("AttributionReportingIssue"),

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jar/org/openqa/selenium/devtools/v100/audits/model/InspectorIssueCode.java
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```

```
package org.openqa.selenium.devtools.v100.performancetimeline.model;
```

```
import org.openqa.selenium.Beta;
import org.openqa.selenium.json.JsonInput;
```

```
public class LayoutShiftAttribution {

 private final org.openqa.selenium.devtools.v100.dom.model.Rect previousRect;

 private final org.openqa.selenium.devtools.v100.dom.model.Rect currentRect;

 private final java.util.Optional<org.openqa.selenium.devtools.v100.dom.model.BackendNodeId> nodeId;

 public LayoutShiftAttribution(org.openqa.selenium.devtools.v100.dom.model.Rect previousRect,
org.openqa.selenium.devtools.v100.dom.model.Rect currentRect,
java.util.Optional<org.openqa.selenium.devtools.v100.dom.model.BackendNodeId> nodeId) {
 this.previousRect = java.util.Objects.requireNonNull(previousRect, "previousRect is required");
 this.currentRect = java.util.Objects.requireNonNull(currentRect, "currentRect is required");
 this.nodeId = nodeId;
 }

 public org.openqa.selenium.devtools.v100.dom.model.Rect getPreviousRect() {
 return previousRect;
 }

 public org.openqa.selenium.devtools.v100.dom.model.Rect getCurrentRect() {
 return currentRect;
 }
}
```



```

public java.util.Optional<org.openqa.selenium.devtools.v100.dom.model.BackendNodeId> getNodeId() {
 return nodeId;
}

private static LayoutShiftAttribution fromJson(JsonInput input) {
 org.openqa.selenium.devtools.v100.dom.model.Rect previousRect = null;
 org.openqa.selenium.devtools.v100.dom.model.Rect currentRect = null;
 java.util.Optional<org.openqa.selenium.devtools.v100.dom.model.BackendNodeId> nodeId =
java.util.Optional.empty();
 input.beginObject();
 while (input.hasNext()) {
 switch(input.nextName()) {
 case "previousRect":
 previousRect = input.read(org.openqa.selenium.devtools.v100.dom.model.Rect.class);
 break;
 case "currentRect":
 currentRect = input.read(org.openqa.selenium.devtools.v100.dom.model.Rect.class);
 break;
 case "nodeId":
 nodeId =
java.util.Optional.ofNullable(input.read(org.openqa.selenium.devtools.v100.dom.model.BackendNodeId.class));
 break;
 default:
 input.skipValue();
 break;
 }
 }
 input.endObject();
 return new LayoutShiftAttribution(previousRect, currentRect, nodeId);
}
}

```

Found in path(s):

\* /opt/cola/permits/1612247583\_1680503823.7549129/0/selenium-devtools-v100-4-2-2-sources-jar/org/openqa/selenium/devtools/v100/performance/timeline/model/LayoutShiftAttribution.java

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```
package org.openqa.selenium.devtools.v100.audits.model;
```

```
import org.openqa.selenium.Beta;
import org.openqa.selenium.json.JsonInput;
```

```
public enum MixedContentResourceType {

 ATTRIBUTIONSRC("AttributionSrc"),
 AUDIO("Audio"),
 BEACON("Beacon"),

```

```

CSPREPORT("CSPReport"),
DOWNLOAD("Download"),
EVENTSOURCE("EventSource"),
FAVICON("Favicon"),
FONT("Font"),
FORM("Form"),
FRAME("Frame"),
IMAGE("Image"),
IMPORT("Import"),
MANIFEST("Manifest"),
PING("Ping"),
PLUGINDATA("PluginData"),
PLUGINRESOURCE("PluginResource"),
PREFETCH("Prefetch"),
RESOURCE("Resource"),
SCRIPT("Script"),
SERVICEWORKER("ServiceWorker"),
SHAREDWORKER("SharedWorker"),
STYLESHEET("Stylesheet"),
TRACK("Track"),
VIDEO("Video"),
WORKER("Worker"),
XMLHTTPREQUEST("XMLHttpRequest"),
XSLT("XSLT");

```

```
private String value;
```

```

MixedContentType(String value) {
 this.value = value;
}

```

```

public static MixedContentType fromString(String s) {
 return java.util.Arrays.stream(MixedContentType.values()).filter(rs ->
rs.value.equalsIgnoreCase(s)).findFirst().orElseThrow(() -> new
org.openqa.selenium.devtools.DevToolsException("Given value " + s + " is not found within
MixedContentType "));
}

```

```

public String toString() {
 return value;
}

```

```

public String toJson() {
 return value;
}

```

```

private static MixedContentType fromJson(JsonInput input) {
 return fromString(input.nextString());
}

```

```
}
}
```

Found in path(s):

```
* /opt/cola/permits/1612247583_1680503823.7549129/0/selenium-devtools-v100-4-2-2-sources-
jar/org/openqa/selenium/devtools/v100/audits/model/MixedContentType.java
```

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```
/**
```

```
* Details for issues around "Attribution Reporting API" usage.
```

```
* Explainer: https://github.com/WICG/conversion-measurement-api
```

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1612247583_1680503823.7549129/0/selenium-devtools-v100-4-2-2-sources-
jar/org/openqa/selenium/devtools/v100/audits/model/AttributionReportingIssueDetails.java
```

## 1.208 spring-cloud-context 3.1.6

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```
*/
```

Found in path(s):

```
* /opt/cola/permits/1594604586_1678981903.7485027/0/spring-cloud-context-3-1-6-sources-
jar/org/springframework/cloud/bootstrap/encrypt/TextEncryptorUtils.java
```

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```

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```

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Found in path(s):

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\* /opt/cola/permits/1594604586\_1678981903.7485027/0/spring-cloud-context-3-1-6-sources-jar/org/springframework/cloud/util/PropertyUtils.java  
\* /opt/cola/permits/1594604586\_1678981903.7485027/0/spring-cloud-context-3-1-6-sources-jar/org/springframework/cloud/bootstrap/encrypt/DecryptEnvironmentPostProcessor.java  
\* /opt/cola/permits/1594604586\_1678981903.7485027/0/spring-cloud-context-3-1-6-sources-jar/org/springframework/cloud/util/ConditionalOnBootstrapEnabled.java  
\* /opt/cola/permits/1594604586\_1678981903.7485027/0/spring-cloud-context-3-1-6-sources-jar/org/springframework/cloud/bootstrap/support/OriginTrackedCompositePropertySource.java  
\* /opt/cola/permits/1594604586\_1678981903.7485027/0/spring-cloud-context-3-1-6-sources-jar/org/springframework/cloud/bootstrap/TextEncryptorBindHandler.java  
\* /opt/cola/permits/1594604586\_1678981903.7485027/0/spring-cloud-context-3-1-6-sources-jar/org/springframework/cloud/bootstrap/encrypt/AbstractEnvironmentDecrypt.java  
\* /opt/cola/permits/1594604586\_1678981903.7485027/0/spring-cloud-context-3-1-6-sources-jar/org/springframework/cloud/util/ConditionalOnBootstrapDisabled.java  
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- \* /opt/cola/permits/1594604586\_1678981903.7485027/0/spring-cloud-context-3-1-6-sources-jar/org/springframework/cloud/bootstrap/BootstrapConfiguration.java
- \* /opt/cola/permits/1594604586\_1678981903.7485027/0/spring-cloud-context-3-1-6-sources-jar/org/springframework/cloud/context/environment/WritableEnvironmentEndpoint.java
- \* /opt/cola/permits/1594604586\_1678981903.7485027/0/spring-cloud-context-3-1-6-sources-jar/org/springframework/cloud/bootstrap/encrypt/EncryptionBootstrapConfiguration.java
- \* /opt/cola/permits/1594604586\_1678981903.7485027/0/spring-cloud-context-3-1-6-sources-jar/org/springframework/cloud/context/restart/RestartEndpoint.java
- \* /opt/cola/permits/1594604586\_1678981903.7485027/0/spring-cloud-context-3-1-6-sources-jar/org/springframework/cloud/context/scope/StandardScopeCache.java
- \* /opt/cola/permits/1594604586\_1678981903.7485027/0/spring-cloud-context-3-1-6-sources-jar/org/springframework/cloud/context/encrypt/KeyFormatException.java
- \* /opt/cola/permits/1594604586\_1678981903.7485027/0/spring-cloud-context-3-1-6-sources-jar/org/springframework/cloud/autoconfigure/RefreshAutoConfiguration.java
- \* /opt/cola/permits/1594604586\_1678981903.7485027/0/spring-cloud-context-3-1-6-sources-jar/org/springframework/cloud/bootstrap/encrypt/KeyProperties.java
- \* /opt/cola/permits/1594604586\_1678981903.7485027/0/spring-cloud-context-3-1-6-sources-jar/org/springframework/cloud/logging/LoggingRebinder.java
- \* /opt/cola/permits/1594604586\_1678981903.7485027/0/spring-cloud-context-3-1-6-sources-jar/org/springframework/cloud/bootstrap/config/PropertySourceLocator.java
- \* /opt/cola/permits/1594604586\_1678981903.7485027/0/spring-cloud-context-3-1-6-sources-jar/org/springframework/cloud/context/refresh/ConfigDataContextRefresher.java
- \* /opt/cola/permits/1594604586\_1678981903.7485027/0/spring-cloud-context-3-1-6-sources-jar/org/springframework/cloud/autoconfigure/WritableEnvironmentEndpointAutoConfiguration.java
- \* /opt/cola/permits/1594604586\_1678981903.7485027/0/spring-cloud-context-3-1-6-sources-jar/org/springframework/cloud/context/refresh/LegacyContextRefresher.java
- \* /opt/cola/permits/1594604586\_1678981903.7485027/0/spring-cloud-context-3-1-6-sources-jar/org/springframework/cloud/context/named/ClientFactoryObjectProvider.java
- \* /opt/cola/permits/1594604586\_1678981903.7485027/0/spring-cloud-context-3-1-6-sources-jar/org/springframework/cloud/context/scope/GenericScope.java
- \* /opt/cola/permits/1594604586\_1678981903.7485027/0/spring-cloud-context-3-1-6-sources-jar/org/springframework/cloud/context/scope/refresh/RefreshScopeRefreshedEvent.java
- \* /opt/cola/permits/1594604586\_1678981903.7485027/0/spring-cloud-context-3-1-6-sources-jar/org/springframework/cloud/context/encrypt/EncryptorFactory.java
- \* /opt/cola/permits/1594604586\_1678981903.7485027/0/spring-cloud-context-3-1-6-sources-jar/org/springframework/cloud/bootstrap/LoggingSystemShutdownListener.java
- \* /opt/cola/permits/1594604586\_1678981903.7485027/0/spring-cloud-context-3-1-6-sources-jar/org/springframework/cloud/bootstrap/config/PropertySourceBootstrapConfiguration.java
- \* /opt/cola/permits/1594604586\_1678981903.7485027/0/spring-cloud-context-3-1-6-sources-jar/org/springframework/cloud/context/config/annotation/RefreshScope.java
- \* /opt/cola/permits/1594604586\_1678981903.7485027/0/spring-cloud-context-3-1-6-sources-jar/org/springframework/cloud/bootstrap/TextEncryptorConfigBootstrapper.java
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\* /opt/cola/permits/1594604586\_1678981903.7485027/0/spring-cloud-context-3-1-6-sources-jar/org/springframework/cloud/autoconfigure/RefreshEndpointAutoConfiguration.java  
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\* /opt/cola/permits/1594604586\_1678981903.7485027/0/spring-cloud-context-3-1-6-sources-jar/org/springframework/cloud/health/RefreshScopeHealthIndicator.java  
\* /opt/cola/permits/1594604586\_1678981903.7485027/0/spring-cloud-context-3-1-6-sources-jar/org/springframework/cloud/context/properties/ConfigurationPropertiesRebinder.java  
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\* /opt/cola/permits/1594604586\_1678981903.7485027/0/spring-cloud-context-3-1-6-sources-jar/org/springframework/cloud/bootstrap/BootstrapImportSelectorConfiguration.java  
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\* /opt/cola/permits/1594604586\_1678981903.7485027/0/spring-cloud-context-3-1-6-sources-jar/org/springframework/cloud/endpoint/event/RefreshEvent.java  
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## 1.209 ssl-client 1.35.0-r17

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From network\_io/unix/inet\_ntop.c, network\_io/unix/inet\_pton.c:

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From dso/aix/dso.c:

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From strings/apr\_strnatcmp.c, include/apr\_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.  
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From strings/apr\_sprintf.c:

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*
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\*/

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```
import groovy.util.Node
import groovy.xml.XmlParser
import org.gradle.api.DefaultTask
import org.gradle.api.file.RegularFileProperty
import org.gradle.api.provider.Property
import org.gradle.api.tasks.Input
import org.gradle.api.tasks.InputFile
import org.gradle.api.tasks.OutputFile
import org.gradle.api.tasks.TaskAction
import java.util.*
```

```

abstract class WriteCopyrightToFile : DefaultTask() {
 @InputFile
 val path = project.file("${project.rootDir}/.idea/copyright/apache.xml")

 @get:OutputFile
 abstract val outputFile: RegularFileProperty

 @get:Input
 val commented: Property<Boolean> = project.objects.property(Boolean::class.java).convention(true)

 @TaskAction
 fun write() {
 val file = outputFile.asFile.get()
 file.writeText(if (commented.get()) readCopyrightCommented() else readCopyright())
 }

 private fun readCopyright(): String {
 assert(path.exists()) {
 "File $path with copyright not found"
 }

 val xmlParser = XmlParser()
 val node = xmlParser.parse(path)
 assert(node.attribute("name") == "CopyrightManager") {
 "Format changed occasionally?"
 }

 val copyrightBlock = node.children().filterIsInstance<Node>().single()
 val noticeNode = copyrightBlock.children().filterIsInstance<Node>().single { it.attribute("name") == "notice" }
 return noticeNode.attribute("value").toString().replace("$today.year",
GregorianCalendar()[Calendar.YEAR].toString())
 }

 private fun readCopyrightCommented(): String {
 return "/*\n" + readCopyright().prependIndent(" * ") + "\n */"
 }
}

```

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zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.2.11, January 15th, 2017

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```
*/opt/cola/permits/1606618231_1680504049.4803529/0/auto-common-1-2-sources-1-
jar/com/google/auto/common/MoreElements.java
```

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\* /opt/cola/permits/1606618231\_1680504049.4803529/0/auto-common-1-2-sources-1-jar/com/google/auto/common/GeneratedAnnotations.java

\* /opt/cola/permits/1606618231\_1680504049.4803529/0/auto-common-1-2-sources-1-jar/com/google/auto/common/SimpleTypeAnnotationValue.java

\* /opt/cola/permits/1606618231\_1680504049.4803529/0/auto-common-1-2-sources-1-jar/com/google/auto/common/GeneratedAnnotationSpecs.java

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\* /opt/cola/permits/1606618231\_1680504049.4803529/0/auto-common-1-2-sources-1-jar/com/google/auto/common/AnnotationValues.java  
\* /opt/cola/permits/1606618231\_1680504049.4803529/0/auto-common-1-2-sources-1-jar/com/google/auto/common/AnnotationMirrors.java  
\* /opt/cola/permits/1606618231\_1680504049.4803529/0/auto-common-1-2-sources-1-jar/com/google/auto/common/BasicAnnotationProcessor.java  
\* /opt/cola/permits/1606618231\_1680504049.4803529/0/auto-common-1-2-sources-1-jar/com/google/auto/common/SuperficialValidation.java  
\* /opt/cola/permits/1606618231\_1680504049.4803529/0/auto-common-1-2-sources-1-jar/com/google/auto/common/MoreTypes.java  
\* /opt/cola/permits/1606618231\_1680504049.4803529/0/auto-common-1-2-sources-1-jar/com/google/auto/common/Visibility.java  
\* /opt/cola/permits/1606618231\_1680504049.4803529/0/auto-common-1-2-sources-1-jar/com/google/auto/common/AnnotationOutput.java

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`src/test/org/apache/commons/codec/language/DoubleMetaphoneTest.java`

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\*

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\*

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\*

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\* @author Rainer Pruy

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jar/com/opencsv/bean/PositionToBeanField.java
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jar/com/opencsv/bean/BeanFieldJoinStringIndex.java
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jar/com/opencsv/bean/ConverterNumber.java
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jar/com/opencsv/bean/comparator/LiteralComparator.java
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jar/com/opencsv/bean/AbstractMappingStrategy.java
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jar/com/opencsv/bean/ComplexFieldMapEntry.java
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jar/com/opencsv/bean/AbstractFieldMap.java
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jar/com/opencsv/bean/FieldMapByPosition.java
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jar/com/opencsv/bean/BeanFieldJoinIntegerIndex.java
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jar/com/opencsv/bean/AbstractFieldMapEntry.java
* /opt/cola/permits/1258286328_1643052526.49/0/opencsv-5-4-sources-jar/com/opencsv/bean/CsvNumber.java
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\* /opt/cola/permits/1258286328\_1643052526.49/0/opencsv-5-4-sources-jar/com/opencsv/bean/customconverter/ConvertFrenchToBoolean.java

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\* /opt/cola/permits/1258286328\_1643052526.49/0/opencsv-5-4-sources-jar/com/opencsv/exceptions/CsvMultilineLimitBrokenException.java  
\* /opt/cola/permits/1258286328\_1643052526.49/0/opencsv-5-4-sources-jar/com/opencsv/exceptions/CsvDataTypeMismatchException.java  
\* /opt/cola/permits/1258286328\_1643052526.49/0/opencsv-5-4-sources-jar/com/opencsv/exceptions/CsvBeanIntrospectionException.java  
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\* /opt/cola/permits/1258286328\_1643052526.49/0/opencsv-5-4-sources-jar/com/opencsv/exceptions/CsvMalformedLineException.java  
\* /opt/cola/permits/1258286328\_1643052526.49/0/opencsv-5-4-sources-jar/com/opencsv/bean/StatefulBeanToCsv.java  
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\* /opt/cola/permits/1258286328\_1643052526.49/0/opencsv-5-4-sources-jar/com/opencsv/CSVParserBuilder.java

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## 1.216 async-http-client 2.8.1

## 1.217 websocket-api 9.4.50.v20221201

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Eclipse

The following artifacts are EPL.

\* org.eclipse.jetty.orbit;org.eclipse.jdt.core

The following artifacts are EPL and ASL2.

\* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.

\* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

\* javax.servlet:javax.servlet-api

\* javax.annotation:javax.annotation-api

\* javax.transaction:javax.transaction-api

\* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

\* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

org.ow2.asm:asm-commons

org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec  
org.apache.taglibs:taglibs-standard-impl

-----

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp  
org.apache.tomcat:tomcat-jasper  
org.apache.tomcat:tomcat-juli  
org.apache.tomcat:tomcat-jsp-api  
org.apache.tomcat:tomcat-el-api  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-api  
org.apache.tomcat:tomcat-util-scan  
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-el-api

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Mortbay

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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## 1.218 neko-html 1.9.22.noko2

## 1.218.1 Available under license :

Apache-2.0

# 1.219 jakarta-annotation-api 1.3.5

## 1.219.1 Available under license :

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## 1.220 libpng 1.6.37

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```

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```
* /opt/cola/permits/1612280040_1679588346.8530915/0/org-eclipse-jgit-ssh-apache-5-13-1-202206130422-r-
sources-1-jar/org/eclipse/jgit/internal/transport/sshd/JGitServerKeyVerifier.java
* /opt/cola/permits/1612280040_1679588346.8530915/0/org-eclipse-jgit-ssh-apache-5-13-1-202206130422-r-
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```
* /opt/cola/permits/1612280040_1679588346.8530915/0/org-eclipse-jgit-ssh-apache-5-13-1-202206130422-r-
```

sources-1-jar/org/eclipse/jgit/internal/transport/sshd/AuthenticationCanceledException.java

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\* /opt/cola/permits/1612280040\_1679588346.8530915/0/org-eclipse-jgit-ssh-apache-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/transport/sshd/proxy/AuthenticationChallenge.java

\* /opt/cola/permits/1612280040\_1679588346.8530915/0/org-eclipse-jgit-ssh-apache-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/transport/sshd/proxy/StatefulProxyConnector.java

\* /opt/cola/permits/1612280040\_1679588346.8530915/0/org-eclipse-jgit-ssh-apache-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/transport/sshd/proxy/HttpClientConnector.java

\* /opt/cola/permits/1612280040\_1679588346.8530915/0/org-eclipse-jgit-ssh-apache-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/transport/sshd/auth/AbstractAuthenticationHandler.java

\* /opt/cola/permits/1612280040\_1679588346.8530915/0/org-eclipse-jgit-ssh-apache-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/transport/sshd/GssApiWithMicAuthFactory.java

\* /opt/cola/permits/1612280040\_1679588346.8530915/0/org-eclipse-jgit-ssh-apache-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/transport/sshd/JGitHostConfigEntry.java

\* /opt/cola/permits/1612280040\_1679588346.8530915/0/org-eclipse-jgit-ssh-apache-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/transport/sshd/IdentityPasswordProvider.java

\* /opt/cola/permits/1612280040\_1679588346.8530915/0/org-eclipse-jgit-ssh-apache-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/transport/sshd/auth/GssApiAuthentication.java

\* /opt/cola/permits/1612280040\_1679588346.8530915/0/org-eclipse-jgit-ssh-apache-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/transport/sshd/JGitUserInteraction.java

\* /opt/cola/permits/1612280040\_1679588346.8530915/0/org-eclipse-jgit-ssh-apache-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/transport/sshd/SessionCloseListener.java

\* /opt/cola/permits/1612280040\_1679588346.8530915/0/org-eclipse-jgit-ssh-apache-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/transport/sshd/KeyCache.java

\* /opt/cola/permits/1612280040\_1679588346.8530915/0/org-eclipse-jgit-ssh-apache-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/transport/sshd/JGitPasswordAuthentication.java

\* /opt/cola/permits/1612280040\_1679588346.8530915/0/org-eclipse-jgit-ssh-apache-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/transport/sshd/CachingKeyPairProvider.java

\* /opt/cola/permits/1612280040\_1679588346.8530915/0/org-eclipse-jgit-ssh-apache-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/transport/sshd/proxy/Socks5ClientConnector.java

\* /opt/cola/permits/1612280040\_1679588346.8530915/0/org-eclipse-jgit-ssh-apache-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/transport/sshd/ServerKeyLookup.java

\* /opt/cola/permits/1612280040\_1679588346.8530915/0/org-eclipse-jgit-ssh-apache-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/transport/sshd/proxy/AbstractClientProxyConnector.java

\* /opt/cola/permits/1612280040\_1679588346.8530915/0/org-eclipse-jgit-ssh-apache-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/transport/sshd/GssApiWithMicAuthentication.java

\* /opt/cola/permits/1612280040\_1679588346.8530915/0/org-eclipse-jgit-ssh-apache-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/transport/sshd/JGitKeyCache.java  
\* /opt/cola/permits/1612280040\_1679588346.8530915/0/org-eclipse-jgit-ssh-apache-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/transport/sshd/GssApiMechanisms.java  
\* /opt/cola/permits/1612280040\_1679588346.8530915/0/org-eclipse-jgit-ssh-apache-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/transport/sshd/JGitPasswordAuthFactory.java  
\* /opt/cola/permits/1612280040\_1679588346.8530915/0/org-eclipse-jgit-ssh-apache-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/transport/sshd/proxy/StatusLine.java  
\* /opt/cola/permits/1612280040\_1679588346.8530915/0/org-eclipse-jgit-ssh-apache-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/transport/sshd/auth/BasicAuthentication.java  
\* /opt/cola/permits/1612280040\_1679588346.8530915/0/org-eclipse-jgit-ssh-apache-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/transport/sshd/ProxyDataFactory.java  
\* /opt/cola/permits/1612280040\_1679588346.8530915/0/org-eclipse-jgit-ssh-apache-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/transport/sshd/DefaultProxyDataFactory.java  
\* /opt/cola/permits/1612280040\_1679588346.8530915/0/org-eclipse-jgit-ssh-apache-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/transport/sshd/proxy/HttpParser.java  
\* /opt/cola/permits/1612280040\_1679588346.8530915/0/org-eclipse-jgit-ssh-apache-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/transport/sshd/KeyPasswordProvider.java  
\* /opt/cola/permits/1612280040\_1679588346.8530915/0/org-eclipse-jgit-ssh-apache-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/transport/sshd/KnownHostEntryReader.java  
\* /opt/cola/permits/1612280040\_1679588346.8530915/0/org-eclipse-jgit-ssh-apache-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/transport/sshd/ProxyData.java  
\* /opt/cola/permits/1612280040\_1679588346.8530915/0/org-eclipse-jgit-ssh-apache-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/transport/sshd/auth/AuthenticationHandler.java

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```
* /opt/cola/permits/1612280040_1679588346.8530915/0/org-eclipse-jgit-ssh-apache-5-13-1-202206130422-r-
sources-1-jar/org/eclipse/jgit/internal/transport/sshd/JGitPublicKeyAuthFactory.java
* /opt/cola/permits/1612280040_1679588346.8530915/0/org-eclipse-jgit-ssh-apache-5-13-1-202206130422-r-
sources-1-jar/org/eclipse/jgit/internal/transport/sshd/JGitPublicKeyAuthentication.java
* /opt/cola/permits/1612280040_1679588346.8530915/0/org-eclipse-jgit-ssh-apache-5-13-1-202206130422-r-
sources-1-jar/org/eclipse/jgit/internal/transport/sshd/JGitSshClient.java
* /opt/cola/permits/1612280040_1679588346.8530915/0/org-eclipse-jgit-ssh-apache-5-13-1-202206130422-r-
sources-1-jar/org/eclipse/jgit/internal/transport/sshd/JGitClientSession.java
* /opt/cola/permits/1612280040_1679588346.8530915/0/org-eclipse-jgit-ssh-apache-5-13-1-202206130422-r-
sources-1-jar/org/eclipse/jgit/internal/transport/sshd/OpenSshServerKeyDatabase.java
```

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```
* /opt/cola/permits/1612280040_1679588346.8530915/0/org-eclipse-jgit-ssh-apache-5-13-1-202206130422-r-
sources-1-jar/META-INF/maven/org.eclipse.jgit/org.eclipse.jgit.ssh.apache/pom.xml
```

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\* /opt/cola/permits/1612280040\_1679588346.8530915/0/org-eclipse-jgit-ssh-apache-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/transport/sshd/SshdSessionFactoryBuilder.java

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\* /opt/cola/permits/1612280040\_1679588346.8530915/0/org-eclipse-jgit-ssh-apache-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/transport/sshd/SshdSessionFactory.java

\* /opt/cola/permits/1612280040\_1679588346.8530915/0/org-eclipse-jgit-ssh-apache-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/transport/sshd/SshdSession.java

\* /opt/cola/permits/1612280040\_1679588346.8530915/0/org-eclipse-jgit-ssh-apache-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/transport/sshd/PasswordProviderWrapper.java

# 1.230 jaxb-core 2.3.8

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```
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```
* /opt/cola/permits/1612277511_1680503823.8770304/0/spring-cloud-sleuth-zipkin-3-1-7-sources-jar/org/springframework/cloud/sleuth/zipkin2/EndpointLocator.java
* /opt/cola/permits/1612277511_1680503823.8770304/0/spring-cloud-sleuth-zipkin-3-1-7-sources-
```

```

jar/org/springframework/cloud/sleuth/zipkin2/HttpSender.java
* /opt/cola/permits/1612277511_1680503823.8770304/0/spring-cloud-sleuth-zipkin-3-1-7-sources-
jar/org/springframework/cloud/sleuth/zipkin2/ZipkinHttpClientSender.java
* /opt/cola/permits/1612277511_1680503823.8770304/0/spring-cloud-sleuth-zipkin-3-1-7-sources-
jar/org/springframework/cloud/sleuth/zipkin2/CachingZipkinUrlExtractor.java
* /opt/cola/permits/1612277511_1680503823.8770304/0/spring-cloud-sleuth-zipkin-3-1-7-sources-
jar/org/springframework/cloud/sleuth/zipkin2/ZipkinUrlExtractor.java
* /opt/cola/permits/1612277511_1680503823.8770304/0/spring-cloud-sleuth-zipkin-3-1-7-sources-
jar/org/springframework/cloud/sleuth/zipkin2/WebClientSender.java
* /opt/cola/permits/1612277511_1680503823.8770304/0/spring-cloud-sleuth-zipkin-3-1-7-sources-
jar/org/springframework/cloud/sleuth/zipkin2/ZipkinLoadBalancer.java
* /opt/cola/permits/1612277511_1680503823.8770304/0/spring-cloud-sleuth-zipkin-3-1-7-sources-
jar/org/springframework/cloud/sleuth/zipkin2/DefaultEndpointLocator.java
* /opt/cola/permits/1612277511_1680503823.8770304/0/spring-cloud-sleuth-zipkin-3-1-7-sources-
jar/org/springframework/cloud/sleuth/zipkin2/ZipkinWebClientBuilderProvider.java
* /opt/cola/permits/1612277511_1680503823.8770304/0/spring-cloud-sleuth-zipkin-3-1-7-sources-
jar/org/springframework/cloud/sleuth/zipkin2/ZipkinRestTemplateCustomizer.java
* /opt/cola/permits/1612277511_1680503823.8770304/0/spring-cloud-sleuth-zipkin-3-1-7-sources-
jar/org/springframework/cloud/sleuth/zipkin2/LoadBalancerClientZipkinLoadBalancer.java
* /opt/cola/permits/1612277511_1680503823.8770304/0/spring-cloud-sleuth-zipkin-3-1-7-sources-
jar/org/springframework/cloud/sleuth/zipkin2/StaticInstanceZipkinLoadBalancer.java
* /opt/cola/permits/1612277511_1680503823.8770304/0/spring-cloud-sleuth-zipkin-3-1-7-sources-
jar/org/springframework/cloud/sleuth/zipkin2/ZipkinRestTemplateProvider.java
* /opt/cola/permits/1612277511_1680503823.8770304/0/spring-cloud-sleuth-zipkin-3-1-7-sources-
jar/org/springframework/cloud/sleuth/zipkin2/ZipkinRestTemplateWrapper.java
* /opt/cola/permits/1612277511_1680503823.8770304/0/spring-cloud-sleuth-zipkin-3-1-7-sources-
jar/org/springframework/cloud/sleuth/zipkin2/RestTemplateSender.java
* /opt/cola/permits/1612277511_1680503823.8770304/0/spring-cloud-sleuth-zipkin-3-1-7-sources-
jar/org/springframework/cloud/sleuth/zipkin2/ZipkinProperties.java
* /opt/cola/permits/1612277511_1680503823.8770304/0/spring-cloud-sleuth-zipkin-3-1-7-sources-
jar/org/springframework/cloud/sleuth/zipkin2/DefaultZipkinRestTemplateCustomizer.java

```

# 1.232 libjpeg 6b

## 1.232.1 Notifications :

This software is based in part on the work of the Independent JPEG Group.

## 1.232.2 Available under license :

The Independent JPEG Group's JPEG software

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README for release 6b of 27-Mar-1998

=====

This distribution contains the sixth public release of the Independent JPEG Group's free JPEG software. You are welcome to redistribute this software and to use it for any purpose, subject to the conditions under LEGAL ISSUES, below.

Serious users of this software (particularly those incorporating it into larger programs) should contact IJG at [jpeg-info@uunet.uu.net](mailto:jpeg-info@uunet.uu.net) to be added to our electronic mailing list. Mailing list members are notified of updates and have a chance to participate in technical discussions, etc.

This software is the work of Tom Lane, Philip Gladstone, Jim Boucher, Lee Crocker, Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi, Guido Vollbeding, Ge' Weijers, and other members of the Independent JPEG Group.

IJG is not affiliated with the official ISO JPEG standards committee.

## DOCUMENTATION ROADMAP

=====

This file contains the following sections:

OVERVIEW        General description of JPEG and the IJG software.  
LEGAL ISSUES    Copyright, lack of warranty, terms of distribution.  
REFERENCES     Where to learn more about JPEG.  
ARCHIVE LOCATIONS Where to find newer versions of this software.  
RELATED SOFTWARE Other stuff you should get.  
FILE FORMAT WARS Software \*not\* to get.  
TO DO          Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:

install.doc    How to configure and install the IJG software.  
usage.doc     Usage instructions for cjpeg, djpeg, jpegtran,  
              rdjpgcom, and wrjpgcom.  
\*.1            Unix-style man pages for programs (same info as usage.doc).  
wizard.doc    Advanced usage instructions for JPEG wizards only.  
change.log    Version-to-version change highlights.

Programmer and internal documentation:

libjpeg.doc   How to use the JPEG library in your own programs.  
example.c     Sample code for calling the JPEG library.  
structure.doc  Overview of the JPEG library's internal structure.  
filelist.doc   Road map of IJG files.  
coderules.doc Coding style rules --- please read if you contribute code.

Please read at least the files `install.doc` and `usage.doc`. Useful information can also be found in the JPEG FAQ (Frequently Asked Questions) article. See ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or more of the REFERENCES, then looking at the documentation files (in roughly

the order listed) before diving into the code.

## OVERVIEW

=====

This package contains C software to implement JPEG image compression and decompression. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and gray-scale images. JPEG is intended for compressing "real-world" scenes; line drawings, cartoons and other non-realistic images are not its strong suit. JPEG is lossy, meaning that the output image is not exactly identical to the input image. Hence you must not use JPEG if you have to have identical output bits. However, on typical photographic images, very good compression levels can be obtained with no visible change, and remarkably high compression levels are possible if you can tolerate a low-quality image. For more details, see the references, or just experiment with various compression settings.

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. For legal reasons, we are not distributing code for the arithmetic-coding variants of JPEG; see LEGAL ISSUES. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpeg" and "djpeg", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application. We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

We welcome the use of this software as a component of commercial products.

No royalty is required, but we do ask for an acknowledgement in product documentation, as described under LEGAL ISSUES.

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The Unix configuration script "configure" was produced with GNU Autoconf. It is copyright by the Free Software Foundation but is freely distributable. The same holds for its supporting scripts (config.guess, config.sub, ltconfig, ltmain.sh). Another support script, install-sh, is copyright by M.I.T. but is also freely distributable.

It appears that the arithmetic coding option of the JPEG spec is covered by patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic coding cannot legally be used without obtaining one or more licenses. For this reason, support for arithmetic coding has been removed from the free JPEG software. (Since arithmetic coding provides only a marginal gain over the unpatented Huffman mode, it is unlikely that very many implementations will support it.) So far as we are aware, there are no patent restrictions on the remaining code.

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent, GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

We are required to state that

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## REFERENCES

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We highly recommend reading one or more of these references before trying to understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is Wallace, Gregory K. "The JPEG Still Picture Compression Standard", Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44. (Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PostScript file containing a revised version of Wallace's article is available at <ftp://ftp.uu.net/graphics/jpeg/wallace.ps.gz>. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...

The best full description of JPEG is the textbook "JPEG Still Image Data Compression Standard" by William B. Pennebaker and Joan L. Mitchell, published by Van Nostrand Reinhold, 1993, ISBN 0-442-01272-1. Price US\$59.95, 638 pp. The book includes the complete text of the ISO JPEG standards (DIS 10918-1 and draft DIS 10918-2). This is by far the most complete exposition of JPEG in existence, and we highly recommend it.

The JPEG standard itself is not available electronically; you must order a paper copy through ISO or ITU. (Unless you feel a need to own a certified official copy, we recommend buying the Pennebaker and Mitchell book instead; it's much cheaper and includes a great deal of useful explanatory material.) In the USA, copies of the standard may be ordered from ANSI Sales at (212) 642-4900, or from Global Engineering Documents at (800) 854-7179. (ANSI doesn't take credit card orders, but Global does.) It's not cheap: as of 1992, ANSI was charging \$95 for Part 1 and \$47 for Part 2, plus 7% shipping/handling. The standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 2: Compliance testing" and has document numbers ISO/IEC IS 10918-2, ITU-T T.83.

Some extensions to the original JPEG standard are defined in JPEG Part 3, a newer ISO standard numbered ISO/IEC IS 10918-3 and ITU-T T.84. IJG currently does not support any Part 3 extensions.



The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. A copy of the JFIF spec is available from:

Literature Department  
C-Cube Microsystems, Inc.  
1778 McCarthy Blvd.  
Milpitas, CA 95035  
phone (408) 944-6300, fax (408) 944-6314

A PostScript version of this document is available by FTP at <ftp://ftp.uu.net/graphics/jpeg/jfif.ps.gz>. There is also a plain text version at <ftp://ftp.uu.net/graphics/jpeg/jfif.txt.gz>, but it is missing the figures.

The TIFF 6.0 file format specification can be obtained by FTP from <ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz>. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from [ftp.sgi.com](ftp://ftp.sgi.com) or from <ftp://ftp.uu.net/graphics/jpeg/>. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note. libtiff is available from <ftp://ftp.sgi.com/graphics/tiff/>.

## ARCHIVE LOCATIONS

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The "official" archive site for this software is [ftp.uu.net](ftp://ftp.uu.net) (Internet address 192.48.96.9). The most recent released version can always be found there in directory [graphics/jpeg](ftp://ftp.uu.net/graphics/jpeg/). This particular version will be archived as <ftp://ftp.uu.net/graphics/jpeg/jpegsrc.v6b.tar.gz>. If you don't have direct Internet access, UUNET's archives are also available via UUCP; contact [help@uunet.uu.net](mailto:help@uunet.uu.net) for information on retrieving files that way.

Numerous Internet sites maintain copies of the UUNET files. However, only [ftp.uu.net](ftp://ftp.uu.net) is guaranteed to have the latest official version.

You can also obtain this software in DOS-compatible "zip" archive format from the SimTel archives (<ftp://ftp.simtel.net/pub/simtelnet/msdos/graphics/>), or on CompuServe in the Graphics Support forum (GO CIS:GRAPHSUP), library 12 "JPEG Tools". Again, these versions may sometimes lag behind the [ftp.uu.net](ftp://ftp.uu.net) release.

The JPEG FAQ (Frequently Asked Questions) article is a useful source of general information about JPEG. It is updated constantly and therefore is

not included in this distribution. The FAQ is posted every two weeks to Usenet newsgroups comp.graphics.misc, news.answers, and other groups. It is available on the World Wide Web at <http://www.faqs.org/faqs/jpeg-faq/> and other news.answers archive sites, including the official news.answers archive at [rtfm.mit.edu: ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/](ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/). If you don't have Web or FTP access, send e-mail to [mail-server@rtfm.mit.edu](mailto:mail-server@rtfm.mit.edu) with body  
send usenet/news.answers/jpeg-faq/part1  
send usenet/news.answers/jpeg-faq/part2

## RELATED SOFTWARE

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Numerous viewing and image manipulation programs now support JPEG. (Quite a few of them use this library to do so.) The JPEG FAQ described above lists some of the more popular free and shareware viewers, and tells where to obtain them on Internet.

If you are on a Unix machine, we highly recommend Jef Poskanzer's free PBPLUS software, which provides many useful operations on PPM-format image files. In particular, it can convert PPM images to and from a wide range of other formats, thus making cjpeg/djpeg considerably more useful. The latest version is distributed by the NetPBM group, and is available from numerous sites, notably <ftp://wuarchive.wustl.edu/graphics/graphics/packages/NetPBM/>. Unfortunately PBPLUS/NETPBM is not nearly as portable as the IJG software is; you are likely to have difficulty making it work on any non-Unix machine.

A different free JPEG implementation, written by the PVRG group at Stanford, is available from <ftp://havefun.stanford.edu/pub/jpeg/>. This program is designed for research and experimentation rather than production use; it is slower, harder to use, and less portable than the IJG code, but it is easier to read and modify. Also, the PVRG code supports lossless JPEG, which we do not. (On the other hand, it doesn't do progressive JPEG.)

## FILE FORMAT WARS

=====

Some JPEG programs produce files that are not compatible with our library. The root of the problem is that the ISO JPEG committee failed to specify a concrete file format. Some vendors "filled in the blanks" on their own, creating proprietary formats that no one else could read. (For example, none of the early commercial JPEG implementations for the Macintosh were able to exchange compressed files.)

The file format we have adopted is called JFIF (see REFERENCES). This format has been agreed to by a number of major commercial JPEG vendors, and it has

become the de facto standard. JFIF is a minimal or "low end" representation. We recommend the use of TIFF/JPEG (TIFF revision 6.0 as modified by TIFF Technical Note #2) for "high end" applications that need to record a lot of additional data about an image. TIFF/JPEG is fairly new and not yet widely supported, unfortunately.

The upcoming JPEG Part 3 standard defines a file format called SPIFF. SPIFF is interoperable with JFIF, in the sense that most JFIF decoders should be able to read the most common variant of SPIFF. SPIFF has some technical advantages over JFIF, but its major claim to fame is simply that it is an official standard rather than an informal one. At this point it is unclear whether SPIFF will supersede JFIF or whether JFIF will remain the de-facto standard. IJG intends to support SPIFF once the standard is frozen, but we have not decided whether it should become our default output format or not. (In any case, our decoder will remain capable of reading JFIF indefinitely.)

Various proprietary file formats incorporating JPEG compression also exist. We have little or no sympathy for the existence of these formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, open format standards for JPEG files. Don't use a proprietary file format!

TO DO

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The major thrust for v7 will probably be improvement of visual quality. The current method for scaling the quantization tables is known not to be very good at low Q values. We also intend to investigate block boundary smoothing, "poor man's variable quantization", and other means of improving quality-vs-file-size performance without sacrificing compatibility.

In future versions, we are considering supporting some of the upcoming JPEG Part 3 extensions --- principally, variable quantization and the SPIFF file format.

As always, speeding things up is of great interest.

Please send bug reports, offers of help, etc. to [jpeg-info@uunet.uu.net](mailto:jpeg-info@uunet.uu.net).

## 1.233 okhttp 4.9.3

### 1.233.1 Available under license :

Note that `publicsuffixes.gz` is compiled from The Public Suffix List:  
[https://publicsuffix.org/list/public\\_suffix\\_list.dat](https://publicsuffix.org/list/public_suffix_list.dat)

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Version 2.0

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\* /opt/cola/permits/1568674941\_1676617019.7658393/0/netty-codec-socks-4-1-89-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5Message.java  
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\* /opt/cola/permits/1568674941\_1676617019.7658393/0/netty-codec-socks-4-1-89-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5PasswordAuthResponseDecoder.java  
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\* /opt/cola/permits/1568674941\_1676617019.7658393/0/netty-codec-socks-4-1-89-final-sources-jar/io/netty/handler/codec/socksx/v5/AbstractSocks5Message.java  
\* /opt/cola/permits/1568674941\_1676617019.7658393/0/netty-codec-socks-4-1-89-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5CommandRequestDecoder.java  
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\* /opt/cola/permits/1568674941\_1676617019.7658393/0/netty-codec-socks-4-1-89-final-sources-jar/io/netty/handler/codec/socksx/SocksVersion.java  
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\* /opt/cola/permits/1568674941\_1676617019.7658393/0/netty-codec-socks-4-1-89-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5AuthMethod.java  
\* /opt/cola/permits/1568674941\_1676617019.7658393/0/netty-codec-socks-4-1-89-final-sources-jar/io/netty/handler/codec/socks/SocksCmdStatus.java  
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\* /opt/cola/permits/1568674941\_1676617019.7658393/0/netty-codec-socks-4-1-89-final-sources-jar/io/netty/handler/codec/socks/SocksCmdType.java  
\* /opt/cola/permits/1568674941\_1676617019.7658393/0/netty-codec-socks-4-1-89-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5CommandType.java  
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\* /opt/cola/permits/1568674941\_1676617019.7658393/0/netty-codec-socks-4-1-89-final-sources-jar/io/netty/handler/codec/socks/SocksAddressType.java  
\* /opt/cola/permits/1568674941\_1676617019.7658393/0/netty-codec-socks-4-1-89-final-sources-jar/io/netty/handler/codec/socks/SocksRequestType.java

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* /opt/cola/permits/1568674941_1676617019.7658393/0/netty-codec-socks-4-1-89-final-sources-
jar/io/netty/handler/codec/socksx/v5/DefaultSocks5InitialRequest.java
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\* /opt/cola/permits/1568674941\_1676617019.7658393/0/netty-codec-socks-4-1-89-final-sources-jar/io/netty/handler/codec/socks/SocksCmdRequestDecoder.java

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\* /opt/cola/permits/1568674941\_1676617019.7658393/0/netty-codec-socks-4-1-89-final-sources-jar/io/netty/handler/codec/socks/SocksInitRequest.java

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* /opt/cola/permits/1612247512_1680503819.5551913/0/selenium-support-4-1-4-sources-
jar/org/openqa/selenium/support/ui/WebDriverWait.java
* /opt/cola/permits/1612247512_1680503819.5551913/0/selenium-support-4-1-4-sources-
jar/org/openqa/selenium/support/pagefactory/AjaxElementLocator.java
* /opt/cola/permits/1612247512_1680503819.5551913/0/selenium-support-4-1-4-sources-
jar/org/openqa/selenium/support/ui/ISelect.java
* /opt/cola/permits/1612247512_1680503819.5551913/0/selenium-support-4-1-4-sources-
jar/org/openqa/selenium/support/pagefactory/internal/LocatingElementHandler.java
* /opt/cola/permits/1612247512_1680503819.5551913/0/selenium-support-4-1-4-sources-
jar/org/openqa/selenium/support/FindAll.java
* /opt/cola/permits/1612247512_1680503819.5551913/0/selenium-support-4-1-4-sources-
jar/org/openqa/selenium/support/pagefactory/internal/LocatingElementListHandler.java
* /opt/cola/permits/1612247512_1680503819.5551913/0/selenium-support-4-1-4-sources-
jar/org/openqa/selenium/support/pagefactory/Annotations.java
* /opt/cola/permits/1612247512_1680503819.5551913/0/selenium-support-4-1-4-sources-
jar/org/openqa/selenium/support/ui/Quotes.java
* /opt/cola/permits/1612247512_1680503819.5551913/0/selenium-support-4-1-4-sources-
jar/org/openqa/selenium/support/decorators/DefaultDecorated.java
* /opt/cola/permits/1612247512_1680503819.5551913/0/selenium-support-4-1-4-sources-
jar/org/openqa/selenium/support/locators/RelativeLocatorScript.java
* /opt/cola/permits/1612247512_1680503819.5551913/0/selenium-support-4-1-4-sources-
jar/org/openqa/selenium/support/ui/Wait.java
* /opt/cola/permits/1612247512_1680503819.5551913/0/selenium-support-4-1-4-sources-
```



jar/org/openqa/selenium/support/pagefactory/DefaultElementLocator.java  
\* /opt/cola/permits/1612247512\_1680503819.5551913/0/selenium-support-4-1-4-sources-  
jar/org/openqa/selenium/support/FindBy.java  
\* /opt/cola/permits/1612247512\_1680503819.5551913/0/selenium-support-4-1-4-sources-  
jar/org/openqa/selenium/support/pagefactory/ByAll.java  
\* /opt/cola/permits/1612247512\_1680503819.5551913/0/selenium-support-4-1-4-sources-  
jar/org/openqa/selenium/support/events/AbstractWebDriverEventListener.java  
\* /opt/cola/permits/1612247512\_1680503819.5551913/0/selenium-support-4-1-4-sources-  
jar/org/openqa/selenium/support/events/internal/EventFiringKeyboard.java  
\* /opt/cola/permits/1612247512\_1680503819.5551913/0/selenium-support-4-1-4-sources-  
jar/org/openqa/selenium/support/locators/RelativeLocatorServerSide.java  
\* /opt/cola/permits/1612247512\_1680503819.5551913/0/selenium-support-4-1-4-sources-  
jar/org/openqa/selenium/support/ui/LoadableComponent.java  
\* /opt/cola/permits/1612247512\_1680503819.5551913/0/selenium-support-4-1-4-sources-  
jar/org/openqa/selenium/support/pagefactory/DefaultFieldDecorator.java  
\* /opt/cola/permits/1612247512\_1680503819.5551913/0/selenium-support-4-1-4-sources-  
jar/org/openqa/selenium/support/PageFactory.java  
\* /opt/cola/permits/1612247512\_1680503819.5551913/0/selenium-support-4-1-4-sources-  
jar/org/openqa/selenium/support/decorators/WebDriverDecorator.java  
\* /opt/cola/permits/1612247512\_1680503819.5551913/0/selenium-support-4-1-4-sources-  
jar/org/openqa/selenium/support/events/EventFiringWebDriver.java  
\* /opt/cola/permits/1612247512\_1680503819.5551913/0/selenium-support-4-1-4-sources-  
jar/org/openqa/selenium/support/ui/SlowLoadableComponent.java  
\* /opt/cola/permits/1612247512\_1680503819.5551913/0/selenium-support-4-1-4-sources-  
jar/org/openqa/selenium/support/CacheLookup.java  
\* /opt/cola/permits/1612247512\_1680503819.5551913/0/selenium-support-4-1-4-sources-  
jar/org/openqa/selenium/support/ThreadGuard.java  
\* /opt/cola/permits/1612247512\_1680503819.5551913/0/selenium-support-4-1-4-sources-  
jar/org/openqa/selenium/support/events/internal/EventFiringTouch.java  
\* /opt/cola/permits/1612247512\_1680503819.5551913/0/selenium-support-4-1-4-sources-  
jar/org/openqa/selenium/support/ui/ExpectedConditions.java  
\* /opt/cola/permits/1612247512\_1680503819.5551913/0/selenium-support-4-1-4-sources-  
jar/org/openqa/selenium/support/locators/RelativeLocator.java  
\* /opt/cola/permits/1612247512\_1680503819.5551913/0/selenium-support-4-1-4-sources-  
jar/org/openqa/selenium/support/ui/FluentWait.java  
\* /opt/cola/permits/1612247512\_1680503819.5551913/0/selenium-support-4-1-4-sources-  
jar/org/openqa/selenium/support/ui/UnexpectedTagNameException.java  
\* /opt/cola/permits/1612247512\_1680503819.5551913/0/selenium-support-4-1-4-sources-  
jar/org/openqa/selenium/support/pagefactory/ByChained.java  
\* /opt/cola/permits/1612247512\_1680503819.5551913/0/selenium-support-4-1-4-sources-  
jar/org/openqa/selenium/support/ByIdOrName.java  
\* /opt/cola/permits/1612247512\_1680503819.5551913/0/selenium-support-4-1-4-sources-  
jar/org/openqa/selenium/support/events/EventFiringDecorator.java  
\* /opt/cola/permits/1612247512\_1680503819.5551913/0/selenium-support-4-1-4-sources-  
jar/org/openqa/selenium/support/events/internal/EventFiringMouse.java  
\* /opt/cola/permits/1612247512\_1680503819.5551913/0/selenium-support-4-1-4-sources-  
jar/org/openqa/selenium/support/PageFactoryFinder.java  
\* /opt/cola/permits/1612247512\_1680503819.5551913/0/selenium-support-4-1-4-sources-

jar/org/openqa/selenium/support/decorators/Decorated.java  
\* /opt/cola/permits/1612247512\_1680503819.5551913/0/selenium-support-4-1-4-sources-  
jar/org/openqa/selenium/support/ui/Sleeper.java  
\* /opt/cola/permits/1612247512\_1680503819.5551913/0/selenium-support-4-1-4-sources-  
jar/org/openqa/selenium/support/How.java  
\* /opt/cola/permits/1612247512\_1680503819.5551913/0/selenium-support-4-1-4-sources-  
jar/org/openqa/selenium/support/pagefactory/AbstractAnnotations.java  
\* /opt/cola/permits/1612247512\_1680503819.5551913/0/selenium-support-4-1-4-sources-  
jar/org/openqa/selenium/support/AbstractFindByBuilder.java  
\* /opt/cola/permits/1612247512\_1680503819.5551913/0/selenium-support-4-1-4-sources-  
jar/org/openqa/selenium/support/Colors.java  
\* /opt/cola/permits/1612247512\_1680503819.5551913/0/selenium-support-4-1-4-sources-  
jar/org/openqa/selenium/support/pagefactory/ElementLocator.java  
\* /opt/cola/permits/1612247512\_1680503819.5551913/0/selenium-support-4-1-4-sources-  
jar/org/openqa/selenium/support/events/WebDriverListener.java  
\* /opt/cola/permits/1612247512\_1680503819.5551913/0/selenium-support-4-1-4-sources-  
jar/org/openqa/selenium/support/FindBy.java  
\* /opt/cola/permits/1612247512\_1680503819.5551913/0/selenium-support-4-1-4-sources-  
jar/org/openqa/selenium/support/ui/Select.java  
\* /opt/cola/permits/1612247512\_1680503819.5551913/0/selenium-support-4-1-4-sources-  
jar/org/openqa/selenium/support/Color.java  
\* /opt/cola/permits/1612247512\_1680503819.5551913/0/selenium-support-4-1-4-sources-  
jar/org/openqa/selenium/support/ui/ExpectedCondition.java  
\* /opt/cola/permits/1612247512\_1680503819.5551913/0/selenium-support-4-1-4-sources-  
jar/org/openqa/selenium/support/pagefactory/ElementLocatorFactory.java  
\* /opt/cola/permits/1612247512\_1680503819.5551913/0/selenium-support-4-1-4-sources-  
jar/org/openqa/selenium/support/pagefactory/DefaultElementLocatorFactory.java

# 1.237 listenablefuture 9999.0-empty-to-avoid-conflict-with-guava

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# 1.238 reactive-streams 1.0.4

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# 1.239 encodings 1.0.5-r0

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Juliusz Chroboczek

# 1.240 mongo-java-driver 3.12.10

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 * https://github.com/marianobarrios/tls-channel
 */
/**
```

```

* Writes a sequence of bytesProduced to this channel from a subsequence of the
* given buffers.
*
* <p>
* See { @link GatheringByteChannel#write(ByteBuffer[], int, int) } for more
* details of the meaning of this signature.
*
* <p>
* This method behaves slightly different than the interface specification,
* with respect to non-blocking responses, see { @link #write(ByteBuffer) }
* for more details.
*
* @param srcs The buffers from which bytesProduced are to be retrieved
* @param offset The offset within the buffer array of the first buffer from
* which bytesProduced are to be retrieved; must be non-negative and no
* larger than <tt>srcs.length</tt>
* @param length The maximum number of buffers to be accessed; must be
* non-negative and no larger than <tt>srcs.length</tt>
* - <tt>offset</tt>
* @return The number of bytesProduced written, contrary to the behavior specified
* in { @link ByteChannel}, this method never returns 0, but throws
* { @link WouldBlockException}
* @throws IndexOutOfBoundsException If the preconditions on the <tt>offset</tt> and
* <tt>length</tt> parameters do not hold
* @throws WouldBlockException if the channel is in non-blocking mode and the IO operation
* cannot be completed immediately
* @throws NeedsTaskException if the channel is not configured to run tasks automatically
* and a task needs to be executed to complete the operation
* @throws SSLException if the { @link SSLEngine} throws a SSLException
* @throws IOException if the underlying channel throws an IOException
*/
/**
* Reads a sequence of bytesProduced from this channel into a subsequence of the
* given buffers.
*
* <p>
* See { @link ScatteringByteChannel#read(ByteBuffer[], int, int) } for more
* details of the meaning of this signature.
*
* <p>
* This method behaves slightly different than the interface specification,
* with respect to non-blocking responses, see { @link #read(ByteBuffer) } for
* more details.
*
* @param dsts The buffers into which bytesProduced are to be transferred
* @param offset The offset within the buffer array of the first buffer into
* which bytesProduced are to be transferred; must be non-negative and no
* larger than <tt>dsts.length</tt>

```



\* @param length The maximum number of buffers to be accessed; must be  
\* non-negative and no larger than <tt>dsts.length</tt>  
\* &nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;<tt>offset</tt>  
\* @return The number of bytesProduced read, or <tt>-1</tt> if the channel has  
\* reached end-of-stream; contrary to the behavior specified in  
\* { @link ByteChannel }, this method never returns 0, but throws  
\* { @link WouldBlockException }  
\* @throws IndexOutOfBoundsException If the preconditions on the <tt>offset</tt> and  
\* <tt>length</tt> parameters do not hold  
\* @throws WouldBlockException if the channel is in non-blocking mode and the IO operation  
\* cannot be completed immediately  
\* @throws NeedsTaskException if the channel is not configured to run tasks automatically  
\* and a task needs to be executed to complete the operation  
\* @throws SSLException if the { @link SSLEngine } throws a SSLException  
\* @throws IOException if the underlying channel throws an IOException  
\*/

Found in path(s):

\* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/tlschannel/TlsChannel.java

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\* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/pojo/IdGenerator.java

\* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/pojo/IdPropertyModelHolder.java

\* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/BsonCodec.java

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\* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-

jar/org/bson/codecs/pojo/ConventionObjectIdGeneratorsImpl.java  
\* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-  
jar/org/bson/codecs/pojo/IdGenerators.java  
\* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-  
jar/com/mongodb/client/model/AggregationLevel.java  
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\* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-  
jar/org/bson/codecs/jsr310/LocalDateTimeCodec.java  
\* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-  
jar/org/bson/codecs/jsr310/InstantCodec.java  
\* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-  
jar/org/bson/codecs/jsr310/LocalTimeCodec.java  
\* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-  
jar/org/bson/codecs/jsr310/Js310CodecProvider.java  
\* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-  
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\* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-  
jar/com/mongodb/internal/authentication/SaslPrep.java  
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\*/

/\*\*

\* Returns an array containing all of the elements in this deque, in

\* proper sequence (from first to last element).

\*

\* <p>The returned array will be "safe" in that no references to it are

\* maintained by this deque. (In other words, this method must allocate

\* a new array). The caller is thus free to modify the returned array.

\*

\* <p>This method acts as bridge between array-based and collection-based

\* APIs.

\*

\* @return an array containing all of the elements in this deque

\*/

Found in path(s):

\* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-  
jar/com/mongodb/internal/connection/ConcurrentLinkedDeque.java

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```
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jar/org/bson/assertions/Assertions.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/com/mongodb/assertions/Assertions.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/org/bson/util/CopyOnWriteMap.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/org/bson/util/AbstractCopyOnWriteMap.java
```

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- \* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/internal/UnsignedLongs.java
- \* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/annotations/Beta.java

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- \* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/annotations/NotThreadSafe.java
- \* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/annotations/ThreadSafe.java
- \* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/annotations/Immutable.java

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- \* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/ReadConcernHelper.java
- \* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/operation/TransactionOperation.java
- \* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-

jar/com/mongodb/client/internal/FallbackMongoIterableFactory.java  
\* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-  
jar/com/mongodb/operation/OperationReadConcernHelper.java  
\* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-  
jar/com/mongodb/operation/CommitTransactionOperation.java  
\* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-  
jar/com/mongodb/internal/operation/ServerVersionHelper.java  
\* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-  
jar/com/mongodb/lang/NonNullApi.java  
\* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-  
jar/com/mongodb/client/internal/Java8ChangeStreamIterableImpl.java  
\* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-  
jar/com/mongodb/TransactionOptions.java  
\* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-  
jar/com/mongodb/client/internal/Java8MapReduceIterableImpl.java  
\* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-  
jar/com/mongodb/internal/connection/ReadConcernAwareNoOpSessionContext.java  
\* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-  
jar/com/mongodb/client/internal/Java8DistinctIterableImpl.java  
\* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-  
jar/com/mongodb/client/internal/package-info.java  
\* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-  
jar/com/mongodb/operation/AbortTransactionOperation.java  
\* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-  
jar/com/mongodb/lang/package-info.java  
\* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-  
jar/com/mongodb/lang/Nullable.java  
\* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-  
jar/com/mongodb/client/internal/MongoIterableFactory.java  
\* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-  
jar/com/mongodb/client/internal/Java8FindIterableImpl.java  
\* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-  
jar/com/mongodb/client/internal/ClientSessionClock.java  
\* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-  
jar/com/mongodb/client/internal/Java8ListIndexesIterableImpl.java  
\* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-  
jar/com/mongodb/client/internal/Java8AggregateIterableImpl.java  
\* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-  
jar/com/mongodb/client/internal/Java8ListCollectionsIterableImpl.java  
\* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-  
jar/com/mongodb/lang/NonNull.java  
\* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-  
jar/com/mongodb/client/internal/Java8ListDatabasesIterableImpl.java  
\* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-  
jar/com/mongodb/client/internal/MongoIterables.java  
\* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-  
jar/com/mongodb/client/ClientSession.java  
\* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-

jar/com/mongodb/internal/operation/WriteConcernHelper.java  
\* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-  
jar/com/mongodb/client/internal/Java8MongoIterableFactory.java  
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jar/com/mongodb/client/TransactionBody.java  
\* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-  
jar/com/mongodb/client/internal/ClientSessionImpl.java  
\* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-  
jar/com/mongodb/client/internal/Java8ForEachHelper.java  
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jar/org/bson/codecs/pojo/PojoCodecProvider.java  
\* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-  
jar/org/bson/codecs/pojo/InstanceCreatorFactory.java  
\* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-  
jar/com/mongodb/internal/connection/SingleServerCluster.java  
\* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-  
jar/org/bson/codecs/Encoder.java  
\* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-  
jar/com/mongodb/client/internal/CryptConnection.java  
\* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-  
jar/org/bson/EmptyBSONCallback.java  
\* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-  
jar/org/bson/codecs/MapCodecProvider.java  
\* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-  
jar/com/mongodb/internal/connection/AsynchronousSocketChannelStream.java  
\* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-  
jar/com/mongodb/client/internal/Crypt.java  
\* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-  
jar/org/bson/json/JsonToken.java

\* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/event/ServerHeartbeatFailedEvent.java  
\* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/SniSslHelper.java  
\* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/model/changestream/OperationType.java  
\* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/selector/ServerAddressSelector.java  
\* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/BsonUndefinedCodec.java  
\* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/Java8SniSslHelper.java  
\* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/PowerOfTwoBufferPool.java  
\* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/LazyDBList.java  
\* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/operation/Operations.java  
\* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/UpdateMessage.java  
\* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/event/ConnectionAddedEvent.java  
\* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/connection/netty/NettyBufferProvider.java  
\* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/jsr310/package-info.java  
\* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/pojo/ConventionDefaultsImpl.java  
\* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/model/gejson/codecs/PointCodec.java  
\* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/MapReduceCommand.java  
\* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/model/DeleteOneModel.java  
\* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/BsonBinaryCodec.java  
\* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/json/ExtendedJsonBinaryConverter.java  
\* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/model/ParallelCollectionScanOptions.java  
\* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/operation/DistinctOperation.java  
\* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/model/FindOneAndUpdateOptions.java  
\* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/DBObject.java  
\* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/pojo/Convention.java



- \* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/io/BsonInputMark.java
- \* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/diagnostics/logging/SLF4JLogger.java
- \* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/json/LegacyExtendedJsonDateTimeConverter.java
- \* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/connection/ServerVersion.java
- \* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/capi/MongoCryptHelper.java
- \* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/types/Code.java
- \* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/Compressor.java
- \* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/model/FindOptions.java
- \* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/ProtocolExecutor.java
- \* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/event/ServerDescriptionChangedEvent.java
- \* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/gridfs/GridFSDownloadStreamImpl.java
- \* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/MongoException.java
- \* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/session/ClientSessionContext.java
- \* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/io/ByteBufferBsonInput.java
- \* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/json/JsonInt32Converter.java
- \* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/binding/AsyncReadWriteBinding.java
- \* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/operation/ListIndexesOperation.java
- \* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/BasicBSONCallback.java
- \* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/pojo/annotations/BsonId.java
- \* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/FieldTrackingBsonWriter.java
- \* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/event/ConnectionOpenedEvent.java
- \* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/model/ReplaceOneModel.java
- \* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/DBRef.java
- \* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/CollectibleCodec.java

- \* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/event/ClusterListenerAdapter.java
- \* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/bulk/BulkWriteResult.java
- \* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/BsonNullCodec.java
- \* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/operation/ChangeStreamBatchCursorHelper.java
- \* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/operation/BsonDocumentWrapperHelper.java
- \* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/BsonDbPointer.java
- \* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/event/ConnectionPoolWaitQueueExitedEvent.java
- \* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/validator/CollectibleDocumentFieldNameValidator.java
- \* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/gridfs/GridFSInputFile.java
- \* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/MongoCommandException.java
- \* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/event/ServerMonitorListenerMulticaster.java
- \* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/connection/ConnectionDescription.java
- \* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/Authenticator.java
- \* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/internal/ClientSessionBinding.java
- \* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/BSONDecoder.java
- \* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/binding/WriteBinding.java
- \* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/async/AsyncBatchCursor.java
- \* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/ClusterClock.java
- \* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/ServerAddressHelper.java
- \* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/diagnostics/SLF4JLogger.java
- \* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/Tag.java
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- \* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/json/JsonWriterSettings.java
- \* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/operation/CountOperation.java
- \* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-

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- \* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/model/geojson/codecs/GeometryCodec.java
- \* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/UpdateRequest.java
- \* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/model/changestream/package-info.java
- \* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/json/ExtendedJsonMaxKeyConverter.java
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- \* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/binding/ReadBinding.java
- \* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/DBObjectFactory.java
- \* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/pojo/PropertyMetadata.java
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\* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/model/geojson/MultiPolygon.java

\* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/NoOpCommandEventSender.java

\* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/json/ExtendedJsonTimestampConverter.java

\* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/gridfs/GridFSFile.java

\* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/internal/MongoClientDelegate.java

\* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/util/JSONSerializers.java

\* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/event/ConnectionPoolListenerMulticaster.java

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\* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/connection/ClusterFactory.java

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- \* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/RawBsonArray.java
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\* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-  
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\* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-  
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jar/com/mongodb/client/model/InsertManyOptions.java

- \* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/BsonElement.java
- \* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/client/model/CountOptionsHelper.java
- \* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/session/BaseClientSessionImpl.java
- \* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/ErrorCategory.java
- \* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/ByteBufBsonDocument.java
- \* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/event/CommandListenerMulticaster.java
- \* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/management/JMXConnectionPoolListener.java
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- \* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/annotations/package-info.java
- \* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/json/JsonReader.java
- \* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/model/InsertOneOptions.java
- \* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/MongoClientOptions.java
- \* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/GSSAPIAuthenticator.java
- \* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/session/package-info.java
- \* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/KillCursorsMessage.java
- \* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/pojo/PropertyModel.java
- \* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/AbstractMultiServerCluster.java
- \* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/configuration/CodecRegistries.java
- \* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/pojo/EnumPropertyCodecProvider.java
- \* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/model/geojson/GeometryCollection.java
- \* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/pojo/LazyMissingCodec.java
- \* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/MongoDriverInformation.java
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\* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/model/DBCcollectionUpdateOptions.java

\* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/Mongo.java

\* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/model/gejson/Point.java

\* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/bulk/WriteRequest.java

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\* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/internal/ChildCodecRegistry.java

\* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/gridfs/package-info.java

\* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/pojo/PojoBuilderHelper.java

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\* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/BsonWriterSettings.java

\* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/InternalConnection.java

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\* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/event/ServerListener.java

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jar/com/mongodb/DBDecoderAdapter.java  
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```

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\* /opt/cola/permits/1195437062\_1631558702.46/0/mongo-java-driver-3-12-10-sources-  
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jar/com/mongodb/internal/connection/tlschannel/impl/ByteBufferSet.java
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* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
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* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
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* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
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* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
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* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/com/mongodb/internal/connection/tlschannel/util/Util.java
```

## 1.241 logback-core 1.2.11

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## 1.242 jsr305 3.0.2

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## 1.243 selenium-edge-driver 4.2.0

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## 1.244 spring-cloud-config-server 3.1.6

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Found in path(s):

```
* /opt/cola/permits/1612280032_1679588342.6157959/0/spring-cloud-config-server-3-1-6-jar/META-INF/maven/org.springframework.cloud/spring-cloud-config-server/pom.xml
```

# 1.245 mongodb-driver-sync 4.8.0

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```
*/
```

Found in path(s):

```
* /opt/cola/permits/1612284805_1680503840.9540892/0/mongodb-driver-sync-4-8-0-sources-jar/com/mongodb/client/TransactionBody.java
```

```
* /opt/cola/permits/1612284805_1680503840.9540892/0/mongodb-driver-sync-4-8-0-sources-jar/com/mongodb/client/internal/package-info.java
```

```
* /opt/cola/permits/1612284805_1680503840.9540892/0/mongodb-driver-sync-4-8-0-sources-jar/com/mongodb/client/internal/ClientSessionClock.java
```

```
* /opt/cola/permits/1612284805_1680503840.9540892/0/mongodb-driver-sync-4-8-0-sources-jar/com/mongodb/client/ClientSession.java
```

```
* /opt/cola/permits/1612284805_1680503840.9540892/0/mongodb-driver-sync-4-8-0-sources-jar/com/mongodb/client/internal/ClientSessionImpl.java
```

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```

Found in path(s):

```
* /opt/cola/permits/1612284805_1680503840.9540892/0/mongodb-driver-sync-4-8-0-sources-
jar/com/mongodb/client/SynchronousContextProvider.java
* /opt/cola/permits/1612284805_1680503840.9540892/0/mongodb-driver-sync-4-8-0-sources-
jar/com/mongodb/client/gridfs/GridFSUploadStreamImpl.java
* /opt/cola/permits/1612284805_1680503840.9540892/0/mongodb-driver-sync-4-8-0-sources-
jar/com/mongodb/client/internal/ClientEncryptionImpl.java
* /opt/cola/permits/1612284805_1680503840.9540892/0/mongodb-driver-sync-4-8-0-sources-
jar/com/mongodb/client/internal/MappingIterable.java
* /opt/cola/permits/1612284805_1680503840.9540892/0/mongodb-driver-sync-4-8-0-sources-
jar/com/mongodb/client/internal/MongoDatabaseImpl.java
* /opt/cola/permits/1612284805_1680503840.9540892/0/mongodb-driver-sync-4-8-0-sources-
jar/com/mongodb/client/MongoClients.java
* /opt/cola/permits/1612284805_1680503840.9540892/0/mongodb-driver-sync-4-8-0-sources-
jar/com/mongodb/client/internal/MongoBatchCursorAdapter.java
* /opt/cola/permits/1612284805_1680503840.9540892/0/mongodb-driver-sync-4-8-0-sources-
jar/com/mongodb/client/gridfs/GridFSBucketImpl.java
* /opt/cola/permits/1612284805_1680503840.9540892/0/mongodb-driver-sync-4-8-0-sources-
jar/com/mongodb/client/internal/ClientSessionBinding.java
* /opt/cola/permits/1612284805_1680503840.9540892/0/mongodb-driver-sync-4-8-0-sources-
jar/com/mongodb/client/internal/MapReduceIterableImpl.java
* /opt/cola/permits/1612284805_1680503840.9540892/0/mongodb-driver-sync-4-8-0-sources-
jar/com/mongodb/client/ListIndexesIterable.java
* /opt/cola/permits/1612284805_1680503840.9540892/0/mongodb-driver-sync-4-8-0-sources-
jar/com/mongodb/client/internal/KeyRetriever.java
* /opt/cola/permits/1612284805_1680503840.9540892/0/mongodb-driver-sync-4-8-0-sources-
jar/com/mongodb/client/vault/ClientEncryptions.java
* /opt/cola/permits/1612284805_1680503840.9540892/0/mongodb-driver-sync-4-8-0-sources-
jar/com/mongodb/client/gridfs/GridFSBucket.java
* /opt/cola/permits/1612284805_1680503840.9540892/0/mongodb-driver-sync-4-8-0-sources-
jar/com/mongodb/client/internal/MongoIterableImpl.java
* /opt/cola/permits/1612284805_1680503840.9540892/0/mongodb-driver-sync-4-8-0-sources-
```



jar/com/mongodb/client/internal/ListDatabasesIterableImpl.java  
\* /opt/cola/permits/1612284805\_1680503840.9540892/0/mongodb-driver-sync-4-8-0-sources-  
jar/com/mongodb/client/internal/MongoClientDelegate.java  
\* /opt/cola/permits/1612284805\_1680503840.9540892/0/mongodb-driver-sync-4-8-0-sources-  
jar/com/mongodb/client/FindIterable.java  
\* /opt/cola/permits/1612284805\_1680503840.9540892/0/mongodb-driver-sync-4-8-0-sources-  
jar/com/mongodb/client/gridfs/GridFSDownloadStreamImpl.java  
\* /opt/cola/permits/1612284805\_1680503840.9540892/0/mongodb-driver-sync-4-8-0-sources-  
jar/com/mongodb/client/gridfs/GridFSDownloadStream.java  
\* /opt/cola/permits/1612284805\_1680503840.9540892/0/mongodb-driver-sync-4-8-0-sources-  
jar/com/mongodb/client/internal/ChangeStreamIterableImpl.java  
\* /opt/cola/permits/1612284805\_1680503840.9540892/0/mongodb-driver-sync-4-8-0-sources-  
jar/com/mongodb/client/MongoClientFactory.java  
\* /opt/cola/permits/1612284805\_1680503840.9540892/0/mongodb-driver-sync-4-8-0-sources-  
jar/com/mongodb/client/MongoCollection.java  
\* /opt/cola/permits/1612284805\_1680503840.9540892/0/mongodb-driver-sync-4-8-0-sources-  
jar/com/mongodb/client/vault/ClientEncryption.java  
\* /opt/cola/permits/1612284805\_1680503840.9540892/0/mongodb-driver-sync-4-8-0-sources-  
jar/com/mongodb/client/internal/ListIndexesIterableImpl.java  
\* /opt/cola/permits/1612284805\_1680503840.9540892/0/mongodb-driver-sync-4-8-0-sources-  
jar/com/mongodb/client/internal/MongoCollectionImpl.java  
\* /opt/cola/permits/1612284805\_1680503840.9540892/0/mongodb-driver-sync-4-8-0-sources-  
jar/com/mongodb/client/MongoCursor.java  
\* /opt/cola/permits/1612284805\_1680503840.9540892/0/mongodb-driver-sync-4-8-0-sources-  
jar/com/mongodb/client/gridfs/GridFSFindIterableImpl.java  
\* /opt/cola/permits/1612284805\_1680503840.9540892/0/mongodb-driver-sync-4-8-0-sources-  
jar/com/mongodb/client/internal/MongoClientImpl.java  
\* /opt/cola/permits/1612284805\_1680503840.9540892/0/mongodb-driver-sync-4-8-0-sources-  
jar/com/mongodb/client/ListCollectionsIterable.java  
\* /opt/cola/permits/1612284805\_1680503840.9540892/0/mongodb-driver-sync-4-8-0-sources-  
jar/com/mongodb/client/internal/Crypts.java  
\* /opt/cola/permits/1612284805\_1680503840.9540892/0/mongodb-driver-sync-4-8-0-sources-  
jar/com/mongodb/client/gridfs/GridFSBuckets.java  
\* /opt/cola/permits/1612284805\_1680503840.9540892/0/mongodb-driver-sync-4-8-0-sources-  
jar/com/mongodb/client/MongoIterable.java  
\* /opt/cola/permits/1612284805\_1680503840.9540892/0/mongodb-driver-sync-4-8-0-sources-  
jar/com/mongodb/client/internal/MongoChangeStreamCursorImpl.java  
\* /opt/cola/permits/1612284805\_1680503840.9540892/0/mongodb-driver-sync-4-8-0-sources-  
jar/com/mongodb/client/gridfs/GridFSUploadStream.java  
\* /opt/cola/permits/1612284805\_1680503840.9540892/0/mongodb-driver-sync-4-8-0-sources-  
jar/com/mongodb/client/MongoChangeStreamCursor.java  
\* /opt/cola/permits/1612284805\_1680503840.9540892/0/mongodb-driver-sync-4-8-0-sources-  
jar/com/mongodb/client/package-info.java  
\* /opt/cola/permits/1612284805\_1680503840.9540892/0/mongodb-driver-sync-4-8-0-sources-  
jar/com/mongodb/client/MongoClient.java  
\* /opt/cola/permits/1612284805\_1680503840.9540892/0/mongodb-driver-sync-4-8-0-sources-  
jar/com/mongodb/client/internal/DistinctIterableImpl.java  
\* /opt/cola/permits/1612284805\_1680503840.9540892/0/mongodb-driver-sync-4-8-0-sources-

jar/com/mongodb/client/gridfs/package-info.java  
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jar/com/mongodb/client/ChangeStreamIterable.java  
\* /opt/cola/permits/1612284805\_16805038840.9540892/0/mongodb-driver-sync-4-8-0-sources-  
jar/com/mongodb/client/ListDatabasesIterable.java  
\* /opt/cola/permits/1612284805\_16805038840.9540892/0/mongodb-driver-sync-4-8-0-sources-  
jar/com/mongodb/client/MapReduceIterable.java  
\* /opt/cola/permits/1612284805\_16805038840.9540892/0/mongodb-driver-sync-4-8-0-sources-  
jar/com/mongodb/client/internal/ListCollectionsIterableImpl.java  
\* /opt/cola/permits/1612284805\_16805038840.9540892/0/mongodb-driver-sync-4-8-0-sources-  
jar/com/mongodb/client/internal/OperationExecutor.java  
\* /opt/cola/permits/1612284805\_16805038840.9540892/0/mongodb-driver-sync-4-8-0-sources-  
jar/com/mongodb/client/internal/CollectionInfoRetriever.java  
\* /opt/cola/permits/1612284805\_16805038840.9540892/0/mongodb-driver-sync-4-8-0-sources-  
jar/com/mongodb/client/vault/package-info.java  
\* /opt/cola/permits/1612284805\_16805038840.9540892/0/mongodb-driver-sync-4-8-0-sources-  
jar/com/mongodb/client/gridfs/GridFSFindIterable.java  
\* /opt/cola/permits/1612284805\_16805038840.9540892/0/mongodb-driver-sync-4-8-0-sources-  
jar/com/mongodb/client/internal/AggregateIterableImpl.java  
\* /opt/cola/permits/1612284805\_16805038840.9540892/0/mongodb-driver-sync-4-8-0-sources-  
jar/com/mongodb/client/internal/KeyManagementService.java  
\* /opt/cola/permits/1612284805\_16805038840.9540892/0/mongodb-driver-sync-4-8-0-sources-  
jar/com/mongodb/client/internal/MongoMappingCursor.java  
\* /opt/cola/permits/1612284805\_16805038840.9540892/0/mongodb-driver-sync-4-8-0-sources-  
jar/com/mongodb/client/internal/CommandMarker.java  
\* /opt/cola/permits/1612284805\_16805038840.9540892/0/mongodb-driver-sync-4-8-0-sources-  
jar/com/mongodb/client/DistinctIterable.java  
\* /opt/cola/permits/1612284805\_16805038840.9540892/0/mongodb-driver-sync-4-8-0-sources-  
jar/com/mongodb/client/internal/Crypt.java  
\* /opt/cola/permits/1612284805\_16805038840.9540892/0/mongodb-driver-sync-4-8-0-sources-  
jar/com/mongodb/client/MongoDatabase.java  
\* /opt/cola/permits/1612284805\_16805038840.9540892/0/mongodb-driver-sync-4-8-0-sources-  
jar/com/mongodb/client/internal/FindIterableImpl.java  
\* /opt/cola/permits/1612284805\_16805038840.9540892/0/mongodb-driver-sync-4-8-0-sources-  
jar/com/mongodb/client/internal/CryptBinding.java  
\* /opt/cola/permits/1612284805\_16805038840.9540892/0/mongodb-driver-sync-4-8-0-sources-  
jar/com/mongodb/client/AggregateIterable.java  
\* /opt/cola/permits/1612284805\_16805038840.9540892/0/mongodb-driver-sync-4-8-0-sources-  
jar/com/mongodb/client/internal/CryptConnection.java

## 1.246 brave-instrumentation-http 5.13.9

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```
* /opt/cola/permits/1612247510_1680505595.8061311/0/selenium-chromium-driver-4-2-0-sources-
jar/org/openqa/selenium/chromium/AddHasLaunchApp.java
* /opt/cola/permits/1612247510_1680505595.8061311/0/selenium-chromium-driver-4-2-0-sources-
jar/org/openqa/selenium/chromium/HasCasting.java
* /opt/cola/permits/1612247510_1680505595.8061311/0/selenium-chromium-driver-4-2-0-sources-
```

jar/org/openqa/selenium/chromium/HasLaunchApp.java  
\* /opt/cola/permits/1612247510\_1680505595.8061311/0/selenium-chromium-driver-4-2-0-sources-  
jar/org/openqa/selenium/chromium/AddHasPermissions.java  
\* /opt/cola/permits/1612247510\_1680505595.8061311/0/selenium-chromium-driver-4-2-0-sources-  
jar/org/openqa/selenium/chromium/AddHasCdp.java  
\* /opt/cola/permits/1612247510\_1680505595.8061311/0/selenium-chromium-driver-4-2-0-sources-  
jar/org/openqa/selenium/chromium/ChromiumDriver.java  
\* /opt/cola/permits/1612247510\_1680505595.8061311/0/selenium-chromium-driver-4-2-0-sources-  
jar/org/openqa/selenium/chromium/ChromiumDriverInfo.java  
\* /opt/cola/permits/1612247510\_1680505595.8061311/0/selenium-chromium-driver-4-2-0-sources-  
jar/org/openqa/selenium/chromium/HasCdp.java  
\* /opt/cola/permits/1612247510\_1680505595.8061311/0/selenium-chromium-driver-4-2-0-sources-  
jar/org/openqa/selenium/chromium/ChromiumDriverCommandExecutor.java  
\* /opt/cola/permits/1612247510\_1680505595.8061311/0/selenium-chromium-driver-4-2-0-sources-  
jar/org/openqa/selenium/chromium/HasNetworkConditions.java  
\* /opt/cola/permits/1612247510\_1680505595.8061311/0/selenium-chromium-driver-4-2-0-sources-  
jar/org/openqa/selenium/chromium/HasPermissions.java  
\* /opt/cola/permits/1612247510\_1680505595.8061311/0/selenium-chromium-driver-4-2-0-sources-  
jar/org/openqa/selenium/chromium/AddHasNetworkConditions.java  
\* /opt/cola/permits/1612247510\_1680505595.8061311/0/selenium-chromium-driver-4-2-0-sources-  
jar/org/openqa/selenium/chromium/ChromiumOptions.java  
\* /opt/cola/permits/1612247510\_1680505595.8061311/0/selenium-chromium-driver-4-2-0-sources-  
jar/org/openqa/selenium/chromium/AddHasCasting.java  
\* /opt/cola/permits/1612247510\_1680505595.8061311/0/selenium-chromium-driver-4-2-0-sources-  
jar/org/openqa/selenium/chromium/ChromiumNetworkConditions.java

## 1.259 jtoml 2.0.0

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## 1.260 zlib 1.2.12-r3

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```

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```
* /opt/cola/permits/1513322575_1671462922.666743/0/springdoc-openapi-webmvc-core-1-6-14-sources-jar/org/springdoc/webmvc/core/fn/SpringdocRouteBuilder.java
* /opt/cola/permits/1513322575_1671462922.666743/0/springdoc-openapi-webmvc-core-1-6-14-sources-jar/org/springdoc/webmvc/api/OpenApiActuatorResource.java
* /opt/cola/permits/1513322575_1671462922.666743/0/springdoc-openapi-webmvc-core-1-6-14-sources-jar/org/springdoc/webmvc/api/OpenApiWebMvcResource.java
* /opt/cola/permits/1513322575_1671462922.666743/0/springdoc-openapi-webmvc-core-1-6-14-sources-
```

jar/org/springdoc/webmvc/core/RouterFunctionWebMvcProvider.java  
\* /opt/cola/permits/1513322575\_1671462922.666743/0/springdoc-openapi-webmvc-core-1-6-14-sources-  
jar/org/springdoc/webmvc/core/SpringDocWebMvcConfiguration.java  
\* /opt/cola/permits/1513322575\_1671462922.666743/0/springdoc-openapi-webmvc-core-1-6-14-sources-  
jar/org/springdoc/webmvc/api/MultipleOpenApiResource.java  
\* /opt/cola/permits/1513322575\_1671462922.666743/0/springdoc-openapi-webmvc-core-1-6-14-sources-  
jar/org/springdoc/webmvc/api/MultipleOpenApiWebMvcResource.java  
\* /opt/cola/permits/1513322575\_1671462922.666743/0/springdoc-openapi-webmvc-core-1-6-14-sources-  
jar/org/springdoc/webmvc/api/MultipleOpenApiActuatorResource.java  
\* /opt/cola/permits/1513322575\_1671462922.666743/0/springdoc-openapi-webmvc-core-1-6-14-sources-  
jar/org/springdoc/webmvc/core/RequestService.java  
\* /opt/cola/permits/1513322575\_1671462922.666743/0/springdoc-openapi-webmvc-core-1-6-14-sources-  
jar/org/springdoc/webmvc/core/SpringWebMvcProvider.java  
\* /opt/cola/permits/1513322575\_1671462922.666743/0/springdoc-openapi-webmvc-core-1-6-14-sources-  
jar/org/springdoc/webmvc/api/OpenApiResource.java  
\* /opt/cola/permits/1513322575\_1671462922.666743/0/springdoc-openapi-webmvc-core-1-6-14-sources-  
jar/org/springdoc/webmvc/core/ActuatorWebMvcProvider.java  
\* /opt/cola/permits/1513322575\_1671462922.666743/0/springdoc-openapi-webmvc-core-1-6-14-sources-  
jar/org/springdoc/webmvc/core/MultipleOpenApiSupportConfiguration.java

## 1.262 spring-cloud-netflix-eureka-server 3.1.5

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 */
/**
 * Creates a new authenticated pushed authorisation request for a
 * confidential client.
 *
 * @param uri The URI of the token endpoint. May be
 * {@code null} if the {@code #toHttpRequest}
 * method will not be used.
 * @param clientAuth The client authentication. Must not be
 * {@code null}.
 * @param authzRequest The authorisation request. Must not be
 * {@code null}.
 */
```

Found in path(s):

```
*/opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/PushedAuthorizationRequest.java
```

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```

Found in path(s):

```

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/client/ClientType.java

```

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* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/META-
INF/maven/com.nimbusds/oauth2-oidc-sdk/pom.xml

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jar/com/nimbusds/openid/connect/sdk/validators/BadJWTExceptions.java  
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/\*\*

\* OpenID Connect client information. Encapsulates the registration and  
\* metadata details of an OpenID Connect client:

\*

\* <ul>

\* <li>The client identifier.

\* <li>The client OpenID Connect metadata.

\* <li>The optional client secret for a confidential client.

\* <li>The optional registration URI and access token if dynamic client  
\* registration is permitted.

\* </ul>

\*

\* <p>Related specifications:

\*

\* <ul>

\* <li>OpenID Connect Dynamic Client Registration 1.0.

\* <li>OAuth 2.0 Dynamic Client Registration Protocol (RFC 7591), section  
\* 3.2.1.

\* <li>OAuth 2.0 Dynamic Client Registration Management Protocol (RFC  
\* 7592), section 3.

\* </ul>

\*/

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\* /opt/cola/permits/1446393945\_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/rp/OIDCClientInformation.java  
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\* /opt/cola/permits/1446393945\_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/oauth2/sdk/SerializeException.java  
\* /opt/cola/permits/1446393945\_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/oauth2/sdk/token/AccessTokenType.java  
\* /opt/cola/permits/1446393945\_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/oauth2/sdk/AuthorizationCodeGrant.java  
\* /opt/cola/permits/1446393945\_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/claims/AggregatedClaims.java  
\* /opt/cola/permits/1446393945\_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/federation/policy/language/PolicyOperation.java  
\* /opt/cola/permits/1446393945\_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/oauth2/sdk/AuthorizationGrant.java  
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\* /opt/cola/permits/1446393945\_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/oauth2/sdk/http/package-info.java  
\* /opt/cola/permits/1446393945\_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/oauth2/sdk/jose/package-info.java  
\* /opt/cola/permits/1446393945\_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/oauth2/sdk/RequestObjectPOSTResponse.java  
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jar/com/nimbusds/openid/connect/sdk/claims/ACR.java  
\* /opt/cola/permits/1446393945\_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-  
jar/com/nimbusds/oauth2/sdk/ciba/CIBAGrant.java  
\* /opt/cola/permits/1446393945\_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-  
jar/com/nimbusds/oauth2/sdk/SAML2BearerGrant.java  
\* /opt/cola/permits/1446393945\_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-  
jar/com/nimbusds/oauth2/sdk/RequestObjectPOSTSuccessResponse.java  
\* /opt/cola/permits/1446393945\_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-  
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\* /opt/cola/permits/1446393945\_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-  
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\* /opt/cola/permits/1446393945\_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-  
jar/com/nimbusds/openid/connect/sdk/federation/entities/EntityStatementClaimsSet.java  
\* /opt/cola/permits/1446393945\_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-  
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\* /opt/cola/permits/1446393945\_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-  
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\* /opt/cola/permits/1446393945\_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-  
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\* /opt/cola/permits/1446393945\_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-  
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\* /opt/cola/permits/1446393945\_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-  
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\* /opt/cola/permits/1446393945\_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-  
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\* /opt/cola/permits/1446393945\_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-  
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\* /opt/cola/permits/1446393945\_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-  
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\* /opt/cola/permits/1446393945\_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-  
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\* /opt/cola/permits/1446393945\_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-  
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\* /opt/cola/permits/1446393945\_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-  
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\* /opt/cola/permits/1446393945\_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-  
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\* /opt/cola/permits/1446393945\_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-  
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\* /opt/cola/permits/1446393945\_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-  
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\* /opt/cola/permits/1446393945\_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-  
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\* /opt/cola/permits/1446393945\_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-  
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\* /opt/cola/permits/1446393945\_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-  
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\* /opt/cola/permits/1446393945\_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-  
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\* /opt/cola/permits/1446393945\_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-  
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jar/com/nimbusds/openid/connect/sdk/claims/DistributedClaims.java  
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```
/*
 * oauth2-oidc-sdk
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 */
/**
 * Client information. Encapsulates the registration and metadata details of
 * an OAuth 2.0 client:
 *
 *
 * The client identifier.
 * The client metadata.
 * The optional client secret for a confidential client.
 * The optional registration URI and access token if dynamic client
 * registration is permitted.
 *
 *
 * <p>Related specifications:
 *
 *
 * OAuth 2.0 Dynamic Client Registration Protocol (RFC 7591), section
 * 3.2.1.
 * OAuth 2.0 Dynamic Client Registration Management Protocol (RFC
 * 7592), section 3.
 *
 */
```



// The client must be unambiguously public, else it is marked as confidential

Found in path(s):

\* /opt/cola/permits/1446393945\_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/oauth2/sdk/client/ClientInformation.java

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\* oauth2-oidc-sdk

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\* /opt/cola/permits/1446393945\_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/assurance/Policy.java

\* /opt/cola/permits/1446393945\_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/assurance/Procedure.java

\* /opt/cola/permits/1446393945\_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/oauth2/sdk/ciba/CIBAError.java

\* /opt/cola/permits/1446393945\_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/assurance/evidences/attachment/EmbeddedAttachment.java

\* /opt/cola/permits/1446393945\_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/oauth2/sdk/dpop/verifiers/DPoPProtectedResourceRequestVerifier.java

\* /opt/cola/permits/1446393945\_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/assurance/evidences/PersonalNumber.java

\* /opt/cola/permits/1446393945\_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/assurance/evidences/ValidationMethodType.java

\* /opt/cola/permits/1446393945\_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/assurance/claims/MSISDN.java

\* /opt/cola/permits/1446393945\_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/assurance/evidences/attachment/HashAlgorithm.java

\* /opt/cola/permits/1446393945\_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/op/ReadOnlyOIDCProviderMetadata.java

\* /opt/cola/permits/1446393945\_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/assurance/IdentityAssuranceProcess.java

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\* /opt/cola/permits/1446393945\_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-  
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jar/com/nimbusds/oauth2/sdk/dpop/verifiers/DPoPKeySelector.java
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* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
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* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/ciba/CIBAResponseAcknowledgement.java
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```

/*
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*/

```

```

/**
* Creates a new request object POST request where the parameters are
* submitted as plain JSON object, and the client authenticates by
* means of mutual TLS. TLS also ensures the integrity and
* confidentiality of the request parameters. This method is not
* standard.
*
* @param uri The URI of the request object endpoint. May
* be { @code null } if the
* { @link #toHTTPRequest } method will not be
* used.
* @param tlsClientAuth The mutual TLS client authentication. Must
* not be { @code null }.
* @param requestJSONObject The request parameters as plain JSON
* object. Must not be { @code null }.

```

\*/

Found in path(s):

\* /opt/cola/permits/1446393945\_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/oauth2/sdk/RequestObjectPOSTRequest.java

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\* oauth2-oidc-sdk

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\* /opt/cola/permits/1446393945\_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/federation/api/TrustNegotiationSuccessResponse.java

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\* /opt/cola/permits/1446393945\_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/federation/policy/factories/RPMetadataPolicyFactory.java

\* /opt/cola/permits/1446393945\_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/federation/trust/package-info.java

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\* /opt/cola/permits/1446393945\_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-  
jar/com/nimbusds/openid/connect/sdk/federation/registration/ExplicitClientRegistrationRequest.java  
\* /opt/cola/permits/1446393945\_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-  
jar/com/nimbusds/openid/connect/sdk/federation/api/EntityListingSuccessResponse.java  
\* /opt/cola/permits/1446393945\_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-  
jar/com/nimbusds/openid/connect/sdk/federation/trust/ResolveException.java  
\* /opt/cola/permits/1446393945\_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-  
jar/com/nimbusds/openid/connect/sdk/federation/trust/marks/package-info.java  
\* /opt/cola/permits/1446393945\_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-  
jar/com/nimbusds/openid/connect/sdk/federation/policy/operations/PolicyOperationFactory.java  
\* /opt/cola/permits/1446393945\_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-  
jar/com/nimbusds/openid/connect/sdk/federation/policy/operations/PolicyOperationCombinationValidator.java  
\* /opt/cola/permits/1446393945\_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-  
jar/com/nimbusds/openid/connect/sdk/federation/trust/constraints/TrustChainConstraints.java  
\* /opt/cola/permits/1446393945\_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-  
jar/com/nimbusds/openid/connect/sdk/federation/api/TrustNegotiationRequest.java  
\* /opt/cola/permits/1446393945\_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-  
jar/com/nimbusds/openid/connect/sdk/federation/api/EntityListingErrorResponse.java

\* /opt/cola/permits/1446393945\_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/federation/api/OperationType.java  
\* /opt/cola/permits/1446393945\_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/rp/statement/InvalidSoftwareStatementException.java  
\* /opt/cola/permits/1446393945\_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/federation/api/FederationAPIError.java  
\* /opt/cola/permits/1446393945\_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/assurance/request/VerifiedClaimsSetRequest.java  
\* /opt/cola/permits/1446393945\_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/federation/policy/MetadataPolicy.java  
\* /opt/cola/permits/1446393945\_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/federation/policy/operations/package-info.java  
\* /opt/cola/permits/1446393945\_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/federation/entities/EntityStatementClaimsVerifier.java  
\* /opt/cola/permits/1446393945\_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/federation/trust/constraints/SubtreeEntityIDConstraint.java  
\* /opt/cola/permits/1446393945\_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/federation/policy/factories/DefaultRPMetadataPolicyFactory.java  
\* /opt/cola/permits/1446393945\_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/federation/api/FetchEntityStatementRequest.java  
\* /opt/cola/permits/1446393945\_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/federation/trust/TrustChainResolver.java  
\* /opt/cola/permits/1446393945\_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/rp/statement/SoftwareStatementProcessor.java  
\* /opt/cola/permits/1446393945\_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/federation/api/EntityListingRequest.java  
\* /opt/cola/permits/1446393945\_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/federation/trust/TrustChain.java  
\* /opt/cola/permits/1446393945\_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/federation/trust/DefaultTrustChainRetriever.java  
\* /opt/cola/permits/1446393945\_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/oauth2/sdk/ciba/package-info.java  
\* /opt/cola/permits/1446393945\_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/assurance/claims/VerifiedClaimsSetRequest.java  
\* /opt/cola/permits/1446393945\_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/federation/api/TrustNegotiationResponse.java  
\* /opt/cola/permits/1446393945\_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/federation/api/EntityListingResponse.java  
\* /opt/cola/permits/1446393945\_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/federation/registration/ClientRegistrationType.java  
\* /opt/cola/permits/1446393945\_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/OIDCClaimsRequest.java  
\* /opt/cola/permits/1446393945\_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/federation/trust/EntityStatementRetriever.java  
\* /opt/cola/permits/1446393945\_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/federation/trust/constraints/EntityIDConstraint.java  
\* /opt/cola/permits/1446393945\_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/federation/entities/EntityStatement.java

\* /opt/cola/permits/1446393945\_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/federation/api/FetchEntityStatementSuccessResponse.java  
\* /opt/cola/permits/1446393945\_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/federation/entities/EntityRole.java  
\* /opt/cola/permits/1446393945\_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/federation/trust/InvalidEntityMetadataException.java  
\* /opt/cola/permits/1446393945\_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/federation/api/FetchEntityStatementErrorResponse.java  
\* /opt/cola/permits/1446393945\_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/federation/api/FetchEntityStatementResponse.java  
\* /opt/cola/permits/1446393945\_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/oauth2/sdk/dpop/DPoPProofFactory.java  
\* /opt/cola/permits/1446393945\_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/federation/policy/MetadataPolicyEntry.java  
\* /opt/cola/permits/1446393945\_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/rp/statement/package-info.java  
No license file was found, but licenses were detected in source scan.

```
/*
 * oauth2-oidc-sdk
 *
 * Copyright 2012-2016, Connect2id Ltd and contributors.
 *
 * Licensed under the Apache License, Version 2.0 (the "License"); you may not use
 * this file except in compliance with the License. You may obtain a copy of the
 * License at
 *
 * http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software distributed
 * under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR
 * CONDITIONS OF ANY KIND, either express or implied. See the License for the
 * specific language governing permissions and limitations under the License.
 */
/**
 * Token revocation request. Used to revoke an issued access or refresh token.
 *
 * <p>Example token revocation request for a confidential client:
 *
 * <pre>
 * POST /revoke HTTP/1.1
 * Host: server.example.com
 * Content-Type: application/x-www-form-urlencoded
 * Authorization: Basic czZCaGRSa3F0MzpnWDFmQmF0M2JW
 *
 * token=45ghiukldjahdnhdauz&token_type_hint=refresh_token
 * </pre>
 *
```



```

* <p>Example token revocation request for a public client:
*
* <pre>
* POST /revoke HTTP/1.1
* Host: server.example.com
* Content-Type: application/x-www-form-urlencoded
*
* token=45ghiukldjahdnhzdauz&token_type_hint=refresh_token&client_id=123456
* </pre>

```

```

* <p>Related specifications:

```

```

*
* OAuth 2.0 Token Revocation (RFC 7009), section 2.1.
*

```

```

*/
/**

```

```

* Creates a new token revocation request for a confidential client.

```

```

* @param uri The URI of the token revocation endpoint. May be
* { @code null } if the { @link #toHTTPRequest } method
* will not be used.

```

```

* @param clientAuth The client authentication. Must not be
* { @code null }.

```

```

* @param token The access or refresh token to revoke. Must not be
* { @code null }.

```

```

*/
// confidential client

```

```

Found in path(s):

```

```

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/TokenRevocationRequest.java

```

```

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```

```

/*

```

```

* oauth2-oidc-sdk

```

```

*

```

```

* Copyright 2012-2021, Connect2id Ltd and contributors.

```

```

*

```

```

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```

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```

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```

```

*

```

```

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* under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR

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* CONDITIONS OF ANY KIND, either express or implied. See the License for the

```

\* specific language governing permissions and limitations under the License.

\*/

/\*\*

\* Authorisation code. Client authentication required only for  
\* confidential clients.

\*/

/\*\*

\* Refresh token. Client authentication required only for confidential  
\* clients.

\*/

/\*\*

\* Password. Client authentication required only for confidential  
\* clients.

\*/

Found in path(s):

\* /opt/cola/permits/1446393945\_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-  
jar/com/nimbusds/oauth2/sdk/GrantType.java

## 1.264 ca-certificates 20220614-r0

### 1.264.1 Available under license :

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/\* c\_rehash.c - Create hash symlinks for certificates

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

\*

\* Copyright (c) 2013-2014 Timo Teräs <timo.teras@iki.fi>

\* All rights reserved.

\*

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\*/

Found in path(s):

\* /opt/cola/permits/1376394069\_1659497040.3993607/0/ca-certificates-20220614-tar-bz2/ca-certificates-  
20220614/c\_rehash.c

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#

# 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
\031\060\027\006\003\125\004\012\023\020\107\154\157\142\141\154
\123\151\147\156\040\156\166\055\163\141\061\020\060\016\006\003
\125\004\013\023\007\122\157\157\164\040\103\101\061\033\060\031
\006\003\125\004\003\023\022\107\154\157\142\141\154\123\151\147
\156\040\122\157\157\164\040\103\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\127\061\013\060\011\006\003\125\004\006\023\002\102\105\061
\031\060\027\006\003\125\004\012\023\020\107\154\157\142\141\154
\123\151\147\156\040\156\166\055\163\141\061\020\060\016\006\003
\125\004\013\023\007\122\157\157\164\040\103\101\061\033\060\031

```

\006\003\125\004\003\023\022\107\154\157\142\141\154\123\151\147  
\156\040\122\157\157\164\040\103\101

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

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

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\003\165\060\202\002\135\240\003\002\001\002\002\013\004  
\000\000\000\000\001\025\113\132\303\224\060\015\006\011\052\206  
\110\206\367\015\001\001\005\005\000\060\127\061\013\060\011\006  
\003\125\004\006\023\002\102\105\061\031\060\027\006\003\125\004  
\012\023\020\107\154\157\142\141\154\123\151\147\156\040\156\166  
\055\163\141\061\020\060\016\006\003\125\004\013\023\007\122\157  
\157\164\040\103\101\061\033\060\031\006\003\125\004\003\023\022  
\107\154\157\142\141\154\123\151\147\156\040\122\157\157\164\040  
\103\101\060\036\027\015\071\070\060\071\060\061\061\062\060\060  
\060\060\132\027\015\062\070\060\061\062\070\061\062\060\060\060  
\060\132\060\127\061\013\060\011\006\003\125\004\006\023\002\102  
\105\061\031\060\027\006\003\125\004\012\023\020\107\154\157\142  
\141\154\123\151\147\156\040\156\166\055\163\141\061\020\060\016  
\006\003\125\004\013\023\007\122\157\157\164\040\103\101\061\033  
\060\031\006\003\125\004\003\023\022\107\154\157\142\141\154\123  
\151\147\156\040\122\157\157\164\040\103\101\060\202\001\042\060  
\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003\202  
\001\017\000\060\202\001\012\002\202\001\001\000\332\016\346\231  
\215\316\243\343\117\212\176\373\361\213\203\045\153\352\110\037  
\361\052\260\271\225\021\004\275\360\143\321\342\147\146\317\034  
\335\317\033\110\053\356\215\211\216\232\257\051\200\145\253\351  
\307\055\022\313\253\034\114\160\007\241\075\012\060\315\025\215  
\117\370\335\324\214\120\025\034\357\120\356\304\056\367\374\351  
\122\362\221\175\340\155\325\065\060\216\136\103\163\362\101\351  
\325\152\343\262\211\072\126\071\070\157\006\074\210\151\133\052  
\115\305\247\124\270\154\211\314\233\371\074\312\345\375\211\365  
\022\074\222\170\226\326\334\164\156\223\104\141\321\215\307\106  
\262\165\016\206\350\031\212\325\155\154\325\170\026\225\242\351  
\310\012\070\353\362\044\023\117\163\124\223\023\205\072\033\274  
\036\064\265\213\005\214\271\167\213\261\333\037\040\221\253\011  
\123\156\220\316\173\067\164\271\160\107\221\042\121\143\026\171  
\256\261\256\101\046\010\310\031\053\321\106\252\110\326\144\052  
\327\203\064\377\054\052\301\154\031\103\112\007\205\347\323\174  
\366\041\150\357\352\362\122\237\177\223\220\317\002\003\001\000  
\001\243\102\060\100\060\016\006\003\125\035\017\001\001\377\004  
\004\003\002\001\006\060\017\006\003\125\035\023\001\001\377\004  
\005\060\003\001\001\377\060\035\006\003\125\035\016\004\026\004  
\024\140\173\146\032\105\015\227\312\211\120\057\175\004\315\064  
\250\377\374\375\113\060\015\006\011\052\206\110\206\367\015\001  
\001\005\005\000\003\202\001\001\000\326\163\347\174\117\166\320  
\215\277\354\272\242\276\064\305\050\062\265\174\374\154\234\054

```
\053\275\011\236\123\277\153\136\252\021\110\266\345\010\243\263
\312\075\141\115\323\106\011\263\076\303\240\343\143\125\033\362
\272\357\255\071\341\103\271\070\243\346\057\212\046\073\357\240
\120\126\371\306\012\375\070\315\304\013\160\121\224\227\230\004
\337\303\137\224\325\025\311\024\101\234\304\135\165\144\025\015
\377\125\060\354\206\217\377\015\357\054\271\143\106\366\252\374
\337\274\151\375\056\022\110\144\232\340\225\360\246\357\051\217
\001\261\025\265\014\035\245\376\151\054\151\044\170\036\263\247
\034\161\142\356\312\310\227\254\027\135\212\302\370\107\206\156
\052\304\126\061\225\320\147\211\205\053\371\154\246\135\106\235
\014\252\202\344\231\121\335\160\267\333\126\075\141\344\152\341
\134\326\366\376\075\336\101\314\007\256\143\122\277\123\123\364
\053\351\307\375\266\367\202\137\205\322\101\030\333\201\263\004
\034\305\037\244\200\157\025\040\311\336\014\210\012\035\326\146
\125\342\374\110\311\051\046\151\340
```

END

```
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRICT_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRICT_AFTER CK_BBOOL CK_FALSE
```

# Trust for "GlobalSign Root CA"

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

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

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

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

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

# Fingerprint (SHA-256):

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

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

```
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
```

```
CKA_TOKEN CK_BBOOL CK_TRUE
```

```
CKA_PRIVATE CK_BBOOL CK_FALSE
```

```
CKA_MODIFIABLE CK_BBOOL CK_FALSE
```

```
CKA_LABEL UTF8 "GlobalSign Root CA"
```

```
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
```

```
\261\274\226\213\324\364\235\142\052\250\232\201\362\025\001\122
```

```
\244\035\202\234
```

END

```
CKA_CERT_MD5_HASH MULTILINE_OCTAL
```

```
\076\105\122\025\011\121\222\341\267\135\067\237\261\207\051\212
```

END

```
CKA_ISSUER MULTILINE_OCTAL
```

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

```
\031\060\027\006\003\125\004\012\023\020\107\154\157\142\141\154
```

```
\123\151\147\156\040\156\166\055\163\141\061\020\060\016\006\003
```

```
\125\004\013\023\007\122\157\157\164\040\103\101\061\033\060\031
```

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

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

```

END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\013\004\000\000\000\000\000\001\025\113\132\303\224
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Verisign Class 1 Public Primary Certification Authority - G3"
#
Issuer: CN=VeriSign Class 1 Public Primary Certification Authority - G3,OU="(c) 1999 VeriSign, Inc. - For
authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US
Serial Number:00:8b:5b:75:56:84:54:85:0b:00:cf:af:38:48:ce:b1:a4
Subject: CN=VeriSign Class 1 Public Primary Certification Authority - G3,OU="(c) 1999 VeriSign, Inc. - For
authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US
Not Valid Before: Fri Oct 01 00:00:00 1999
Not Valid After : Wed Jul 16 23:59:59 2036
Fingerprint (SHA-256):
CB:B5:AF:18:5E:94:2A:24:02:F9:EA:CB:C0:ED:5B:B8:76:EE:A3:C1:22:36:23:D0:04:47:E4:F3:BA:55:4B:65
Fingerprint (SHA1): 20:42:85:DC:F7:EB:76:41:95:57:8E:13:6B:D4:B7:D1:E9:8E:46:A5
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Verisign Class 1 Public Primary Certification Authority - G3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\312\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\027\060\025\006\003\125\004\012\023\016\126\145\162\151\123
\151\147\156\054\040\111\156\143\056\061\037\060\035\006\003\125
\004\013\023\026\126\145\162\151\123\151\147\156\040\124\162\165
\163\164\040\116\145\164\167\157\162\153\061\072\060\070\006\003
\125\004\013\023\061\050\143\051\040\061\071\071\071\040\126\145
\162\151\123\151\147\156\054\040\111\156\143\056\040\055\040\106
\157\162\040\141\165\164\150\157\162\151\172\145\144\040\165\163
\145\040\157\156\154\171\061\105\060\103\006\003\125\004\003\023
\074\126\145\162\151\123\151\147\156\040\103\154\141\163\163\040
\061\040\120\165\142\154\151\143\040\120\162\151\155\141\162\171
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171\040\055\040\107\063
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\312\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\027\060\025\006\003\125\004\012\023\016\126\145\162\151\123
\151\147\156\054\040\111\156\143\056\061\037\060\035\006\003\125

```

\004\013\023\026\126\145\162\151\123\151\147\156\040\124\162\165  
\163\164\040\116\145\164\167\157\162\153\061\072\060\070\006\003  
\125\004\013\023\061\050\143\051\040\061\071\071\071\040\126\145  
\162\151\123\151\147\156\054\040\111\156\143\056\040\055\040\106  
\157\162\040\141\165\164\150\157\162\151\172\145\144\040\165\163  
\145\040\157\156\154\171\061\105\060\103\006\003\125\004\003\023  
\074\126\145\162\151\123\151\147\156\040\103\154\141\163\163\040  
\061\040\120\165\142\154\151\143\040\120\162\151\155\141\162\171  
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101  
\165\164\150\157\162\151\164\171\040\055\040\107\063

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

\002\021\000\213\133\165\126\204\124\205\013\000\317\257\070\110  
\316\261\244

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\004\032\060\202\003\002\002\021\000\213\133\165\126\204  
\124\205\013\000\317\257\070\110\316\261\244\060\015\006\011\052  
\206\110\206\367\015\001\001\005\005\000\060\201\312\061\013\060  
\011\006\003\125\004\006\023\002\125\123\061\027\060\025\006\003  
\125\004\012\023\016\126\145\162\151\123\151\147\156\054\040\111  
\156\143\056\061\037\060\035\006\003\125\004\013\023\026\126\145  
\162\151\123\151\147\156\040\124\162\165\163\164\040\116\145\164  
\167\157\162\153\061\072\060\070\006\003\125\004\013\023\061\050  
\143\051\040\061\071\071\071\040\126\145\162\151\123\151\147\156  
\054\040\111\156\143\056\040\055\040\106\157\162\040\141\165\164  
\150\157\162\151\172\145\144\040\165\163\145\040\157\156\154\171  
\061\105\060\103\006\003\125\004\003\023\074\126\145\162\151\123  
\151\147\156\040\103\154\141\163\163\040\061\040\120\165\142\154  
\151\143\040\120\162\151\155\141\162\171\040\103\145\162\164\151  
\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151  
\164\171\040\055\040\107\063\060\036\027\015\071\071\061\060\060  
\061\060\060\060\060\060\060\132\027\015\063\066\060\067\061\066  
\062\063\065\071\065\071\132\060\201\312\061\013\060\011\006\003  
\125\004\006\023\002\125\123\061\027\060\025\006\003\125\004\012  
\023\016\126\145\162\151\123\151\147\156\054\040\111\156\143\056  
\061\037\060\035\006\003\125\004\013\023\026\126\145\162\151\123  
\151\147\156\040\124\162\165\163\164\040\116\145\164\167\157\162  
\153\061\072\060\070\006\003\125\004\013\023\061\050\143\051\040  
\061\071\071\071\040\126\145\162\151\123\151\147\156\054\040\111  
\156\143\056\040\055\040\106\157\162\040\141\165\164\150\157\162  
\151\172\145\144\040\165\163\145\040\157\156\154\171\061\105\060  
\103\006\003\125\004\003\023\074\126\145\162\151\123\151\147\156  
\040\103\154\141\163\163\040\061\040\120\165\142\154\151\143\040  
\120\162\151\155\141\162\171\040\103\145\162\164\151\146\151\143  
\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171\040  
\055\040\107\063\060\202\001\042\060\015\006\011\052\206\110\206  
\367\015\001\001\001\005\000\003\202\001\017\000\060\202\001\012



\002\202\001\001\000\335\204\324\271\264\371\247\330\363\004\170  
\234\336\075\334\154\023\026\331\172\335\044\121\146\300\307\046  
\131\015\254\006\010\302\224\321\063\037\360\203\065\037\156\033  
\310\336\252\156\025\116\124\047\357\304\155\032\354\013\343\016  
\360\104\245\127\307\100\130\036\243\107\037\161\354\140\366\155  
\224\310\030\071\355\376\102\030\126\337\344\114\111\020\170\116  
\001\166\065\143\022\066\335\146\274\001\004\066\243\125\150\325  
\242\066\011\254\253\041\046\124\006\255\077\312\024\340\254\312  
\255\006\035\225\342\370\235\361\340\140\377\302\177\165\053\114  
\314\332\376\207\231\041\352\272\376\076\124\327\322\131\170\333  
\074\156\317\240\023\000\032\270\047\241\344\276\147\226\312\240  
\305\263\234\335\311\165\236\353\060\232\137\243\315\331\256\170  
\031\077\043\351\134\333\051\275\255\125\310\033\124\214\143\366  
\350\246\352\307\067\022\134\243\051\036\002\331\333\037\073\264  
\327\017\126\107\201\025\004\112\257\203\047\321\305\130\210\301  
\335\366\252\247\243\030\332\150\252\155\021\121\341\277\145\153  
\237\226\166\321\075\002\003\001\000\001\060\015\006\011\052\206  
\110\206\367\015\001\001\005\005\000\003\202\001\001\000\253\146  
\215\327\263\272\307\232\266\346\125\320\005\361\237\061\215\132  
\252\331\252\106\046\017\161\355\245\255\123\126\142\001\107\052  
\104\351\376\077\164\013\023\233\271\364\115\033\262\321\137\262  
\266\322\210\134\263\237\315\313\324\247\331\140\225\204\072\370  
\301\067\035\141\312\347\260\305\345\221\332\124\246\254\061\201  
\256\227\336\315\010\254\270\300\227\200\177\156\162\244\347\151  
\023\225\145\037\304\223\074\375\171\217\004\324\076\117\352\367  
\236\316\315\147\174\117\145\002\377\221\205\124\163\307\377\066  
\367\206\055\354\320\136\117\377\021\237\162\006\326\270\032\361  
\114\015\046\145\342\104\200\036\307\237\343\335\350\012\332\354  
\245\040\200\151\150\241\117\176\341\153\317\007\101\372\203\216  
\274\070\335\260\056\021\261\153\262\102\314\232\274\371\110\042  
\171\112\031\017\262\034\076\040\164\331\152\303\276\362\050\170  
\023\126\171\117\155\120\352\033\260\265\127\261\067\146\130\043  
\363\334\017\337\012\207\304\357\206\005\325\070\024\140\231\243  
\113\336\006\226\161\054\362\333\266\037\244\357\077\356

END

CKA\_NSS\_MOZILLA\_CA\_POLICY CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

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

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER MULTILINE\_OCTAL

\062\062\060\070\063\061\060\060\060\060\060\060\132

END

# Trust for "Verisign Class 1 Public Primary Certification Authority - G3"

# Issuer: CN=VeriSign Class 1 Public Primary Certification Authority - G3,OU="(c) 1999 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US

# Serial Number:00:8b:5b:75:56:84:54:85:0b:00:cf:af:38:48:ce:b1:a4

# Subject: CN=VeriSign Class 1 Public Primary Certification Authority - G3,OU="(c) 1999 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US

```

Not Valid Before: Fri Oct 01 00:00:00 1999
Not Valid After : Wed Jul 16 23:59:59 2036
Fingerprint (SHA-256):
CB:B5:AF:18:5E:94:2A:24:02:F9:EA:CB:C0:ED:5B:B8:76:EE:A3:C1:22:36:23:D0:04:47:E4:F3:BA:55:4B:65
Fingerprint (SHA1): 20:42:85:DC:F7:EB:76:41:95:57:8E:13:6B:D4:B7:D1:E9:8E:46:A5
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Verisign Class 1 Public Primary Certification Authority - G3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\040\102\205\334\367\353\166\101\225\127\216\023\153\324\267\321
\351\216\106\245
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\261\107\274\030\127\321\030\240\170\055\354\161\350\052\225\163
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\312\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\027\060\025\006\003\125\004\012\023\016\126\145\162\151\123
\151\147\156\054\040\111\156\143\056\061\037\060\035\006\003\125
\004\013\023\026\126\145\162\151\123\151\147\156\040\124\162\165
\163\164\040\116\145\164\167\157\162\153\061\072\060\070\006\003
\125\004\013\023\061\050\143\051\040\061\071\071\071\040\126\145
\162\151\123\151\147\156\054\040\111\156\143\056\040\055\040\106
\157\162\040\141\165\164\150\157\162\151\172\145\144\040\165\163
\145\040\157\156\154\171\061\105\060\103\006\003\125\004\003\023
\074\126\145\162\151\123\151\147\156\040\103\154\141\163\163\040
\061\040\120\165\142\154\151\143\040\120\162\151\155\141\162\171
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171\040\055\040\107\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\021\000\213\133\165\126\204\124\205\013\000\317\257\070\110
\316\261\244
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Verisign Class 2 Public Primary Certification Authority - G3"
#
Issuer: CN=VeriSign Class 2 Public Primary Certification Authority - G3,OU="(c) 1999 VeriSign, Inc. - For
authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US
Serial Number:61:70:cb:49:8c:5f:98:45:29:e7:b0:a6:d9:50:5b:7a
Subject: CN=VeriSign Class 2 Public Primary Certification Authority - G3,OU="(c) 1999 VeriSign, Inc. - For

```

```
authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US
Not Valid Before: Fri Oct 01 00:00:00 1999
Not Valid After : Wed Jul 16 23:59:59 2036
Fingerprint (SHA-256):
92:A9:D9:83:3F:E1:94:4D:B3:66:E8:BF:AE:7A:95:B6:48:0C:2D:6C:6C:2A:1B:E6:5D:42:36:B6:08:FC:A1:BB
Fingerprint (SHA1): 61:EF:43:D7:7F:CA:D4:61:51:BC:98:E0:C3:59:12:AF:9F:EB:63:11
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Verisign Class 2 Public Primary Certification Authority - G3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\312\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\027\060\025\006\003\125\004\012\023\016\126\145\162\151\123
\151\147\156\054\040\111\156\143\056\061\037\060\035\006\003\125
\004\013\023\026\126\145\162\151\123\151\147\156\040\124\162\165
\163\164\040\116\145\164\167\157\162\153\061\072\060\070\006\003
\125\004\013\023\061\050\143\051\040\061\071\071\071\040\126\145
\162\151\123\151\147\156\054\040\111\156\143\056\040\055\040\106
\157\162\040\141\165\164\150\157\162\151\172\145\144\040\165\163
\145\040\157\156\154\171\061\105\060\103\006\003\125\004\003\023
\074\126\145\162\151\123\151\147\156\040\103\154\141\163\163\040
\062\040\120\165\142\154\151\143\040\120\162\151\155\141\162\171
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171\040\055\040\107\063
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\312\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\027\060\025\006\003\125\004\012\023\016\126\145\162\151\123
\151\147\156\054\040\111\156\143\056\061\037\060\035\006\003\125
\004\013\023\026\126\145\162\151\123\151\147\156\040\124\162\165
\163\164\040\116\145\164\167\157\162\153\061\072\060\070\006\003
\125\004\013\023\061\050\143\051\040\061\071\071\071\040\126\145
\162\151\123\151\147\156\054\040\111\156\143\056\040\055\040\106
\157\162\040\141\165\164\150\157\162\151\172\145\144\040\165\163
\145\040\157\156\154\171\061\105\060\103\006\003\125\004\003\023
\074\126\145\162\151\123\151\147\156\040\103\154\141\163\163\040
\062\040\120\165\142\154\151\143\040\120\162\151\155\141\162\171
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171\040\055\040\107\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\141\160\313\111\214\137\230\105\051\347\260\246\331\120
\133\172
END
CKA_VALUE MULTILINE_OCTAL
```

\060\202\004\031\060\202\003\001\002\020\141\160\313\111\214\137  
\230\105\051\347\260\246\331\120\133\172\060\015\006\011\052\206  
\110\206\367\015\001\001\005\005\000\060\201\312\061\013\060\011  
\006\003\125\004\006\023\002\125\123\061\027\060\025\006\003\125  
\004\012\023\016\126\145\162\151\123\151\147\156\054\040\111\156  
\143\056\061\037\060\035\006\003\125\004\013\023\026\126\145\162  
\151\123\151\147\156\040\124\162\165\163\164\040\116\145\164\167  
\157\162\153\061\072\060\070\006\003\125\004\013\023\061\050\143  
\051\040\061\071\071\071\040\126\145\162\151\123\151\147\156\054  
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\172\145\144\040\165\163\145\040\157\156\154\171\061\105\060\103  
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\162\151\155\141\162\171\040\103\145\162\164\151\146\151\143\141  
\164\151\157\156\040\101\165\164\150\157\162\151\164\171\040\055  
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\015\001\001\001\005\000\003\202\001\017\000\060\202\001\012\002  
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\047\335\245\276\340\260\115\217\263\141\126\074\326\174\303\364  
\315\076\206\313\242\210\342\341\330\244\151\305\265\342\277\301  
\246\107\120\136\106\071\213\325\226\272\265\157\024\277\020\316  
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\301\221\173\013\325\023\000\233\274\357\303\110\076\106\140\040  
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\305\371\021\140\250\137\004\175\362\032\366\045\102\141\017\304

\112\270\076\211\002\003\001\000\001\060\015\006\011\052\206\110  
\206\367\015\001\001\005\005\000\003\202\001\001\000\064\046\025  
\074\300\215\115\103\111\035\275\351\041\222\327\146\234\267\336  
\305\270\320\344\135\137\166\042\300\046\371\204\072\072\371\214  
\265\373\354\140\361\350\316\004\260\310\335\247\003\217\060\363  
\230\337\244\346\244\061\337\323\034\013\106\334\162\040\077\256  
\356\005\074\244\063\077\013\071\254\160\170\163\113\231\053\337  
\060\302\124\260\250\073\125\241\376\026\050\315\102\275\164\156  
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\301\155\142\153\151\165\375\135\160\101\271\365\277\174\337\276  
\301\062\163\042\041\213\130\201\173\025\221\172\272\343\144\110  
\260\177\373\066\045\332\225\320\361\044\024\027\335\030\200\153  
\106\043\071\124\365\216\142\011\004\035\224\220\246\233\346\045  
\342\102\105\252\270\220\255\276\010\217\251\013\102\030\224\317  
\162\071\341\261\103\340\050\317\267\347\132\154\023\153\111\263  
\377\343\030\174\211\213\063\135\254\063\327\247\371\332\072\125  
\311\130\020\371\252\357\132\266\317\113\113\337\052

END

CKA\_NSS\_MOZILLA\_CA\_POLICY CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

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

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER MULTILINE\_OCTAL

\062\062\060\070\063\061\060\060\060\060\060\060\132

END

# Trust for "Verisign Class 2 Public Primary Certification Authority - G3"

# Issuer: CN=VeriSign Class 2 Public Primary Certification Authority - G3,OU="(c) 1999 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US

# Serial Number:61:70:cb:49:8c:5f:98:45:29:e7:b0:a6:d9:50:5b:7a

# Subject: CN=VeriSign Class 2 Public Primary Certification Authority - G3,OU="(c) 1999 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US

# Not Valid Before: Fri Oct 01 00:00:00 1999

# Not Valid After : Wed Jul 16 23:59:59 2036

# Fingerprint (SHA-256):

92:A9:D9:83:3F:E1:94:4D:B3:66:E8:BF:AE:7A:95:B6:48:0C:2D:6C:6C:2A:1B:E6:5D:42:36:B6:08:FC:A1:BB

# Fingerprint (SHA1): 61:EF:43:D7:7F:CA:D4:61:51:BC:98:E0:C3:59:12:AF:9F:EB:63:11

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "Verisign Class 2 Public Primary Certification Authority - G3"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

\141\357\103\327\177\312\324\141\121\274\230\340\303\131\022\257  
\237\353\143\021

END

CKA\_CERT\_MD5\_HASH MULTILINE\_OCTAL

\370\276\304\143\042\311\250\106\164\213\270\035\036\112\053\366

END

CKA\_ISSUER MULTILINE\_OCTAL

\060\201\312\061\013\060\011\006\003\125\004\006\023\002\125\123  
\061\027\060\025\006\003\125\004\012\023\016\126\145\162\151\123  
\151\147\156\054\040\111\156\143\056\061\037\060\035\006\003\125  
\004\013\023\026\126\145\162\151\123\151\147\156\040\124\162\165  
\163\164\040\116\145\164\167\157\162\153\061\072\060\070\006\003  
\125\004\013\023\061\050\143\051\040\061\071\071\071\040\126\145  
\162\151\123\151\147\156\054\040\111\156\143\056\040\055\040\106  
\157\162\040\141\165\164\150\157\162\151\172\145\144\040\165\163  
\145\040\157\156\154\171\061\105\060\103\006\003\125\004\003\023  
\074\126\145\162\151\123\151\147\156\040\103\154\141\163\163\040  
\062\040\120\165\142\154\151\143\040\120\162\151\155\141\162\171  
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101  
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END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

\002\020\141\160\313\111\214\137\230\105\051\347\260\246\331\120  
\133\172

END

CKA\_TRUST\_SERVER\_AUTH CK\_TRUST CKT\_NSS\_MUST\_VERIFY\_TRUST

CKA\_TRUST\_EMAIL\_PROTECTION CK\_TRUST CKT\_NSS\_TRUSTED\_DELEGATOR

CKA\_TRUST\_CODE\_SIGNING CK\_TRUST CKT\_NSS\_MUST\_VERIFY\_TRUST

CKA\_TRUST\_STEP\_UP\_APPROVED CK\_BBOOL CK\_FALSE

#

# Certificate "Entrust.net Premium 2048 Secure Server CA"

#

# Issuer: CN=Entrust.net Certification Authority (2048),OU=(c) 1999 Entrust.net  
Limited,OU=www.entrust.net/CPS\_2048 incorp. by ref. (limits liab.),O=Entrust.net

# Serial Number: 946069240 (0x3863def8)

# Subject: CN=Entrust.net Certification Authority (2048),OU=(c) 1999 Entrust.net  
Limited,OU=www.entrust.net/CPS\_2048 incorp. by ref. (limits liab.),O=Entrust.net

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

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

# Fingerprint (SHA-256):

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

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

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_CERTIFICATE

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "Entrust.net Premium 2048 Secure Server CA"

CKA\_CERTIFICATE\_TYPE CK\_CERTIFICATE\_TYPE CKC\_X\_509

CKA\_SUBJECT MULTILINE\_OCTAL

\060\201\264\061\024\060\022\006\003\125\004\012\023\013\105\156  
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\004\013\024\067\167\167\167\056\145\156\164\162\165\163\164\056

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

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

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

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\004\052\060\202\003\022\240\003\002\001\002\002\004\070  
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\005\000\060\201\264\061\024\060\022\006\003\125\004\012\023\013  
\105\156\164\162\165\163\164\056\156\145\164\061\100\060\076\006  
\003\125\004\013\024\067\167\167\167\056\145\156\164\162\165\163  
\164\056\156\145\164\057\103\120\123\137\062\060\064\070\040\151  
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\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  
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\151\164\145\144\061\063\060\061\006\003\125\004\003\023\052\105  
\156\164\162\165\163\164\056\156\145\164\040\103\145\162\164\151  
\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151  
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\062\062\064\061\067\065\060\065\061\132\027\015\062\071\060\067  
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\145\164\061\100\060\076\006\003\125\004\013\024\067\167\167\167  
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\101\165\164\150\157\162\151\164\171\040\050\062\060\064\070\051  
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\115\337\157\046\317\303\030\041\142\146\103\160\326\325\300\007  
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\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  
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\220\373\006\037\312\063\174\106\143\217\226\146\044\372\100\033  
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\123\306\200\202\023\230\372\266\255\332\135\075\361\316\156\366  
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\326\236\321\154\171\136\171\034\024\305\343\320\114\223\073\145  
\074\355\337\075\276\246\345\225\032\303\265\031\303\275\136\133  
\273\377\043\357\150\031\313\022\223\047\134\003\055\157\060\320  
\036\266\032\254\336\132\367\321\252\250\047\246\376\171\201\304  
\171\231\063\127\272\022\260\251\340\102\154\223\312\126\336\376  
\155\204\013\010\213\176\215\352\327\230\041\306\363\347\074\171  
\057\136\234\321\114\025\215\341\354\042\067\314\232\103\013\227  
\334\200\220\215\263\147\233\157\110\010\025\126\317\277\361\053  
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```

END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRICT_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRICT_AFTER CK_BBOOL CK_FALSE

Trust for "Entrust.net Premium 2048 Secure Server CA"
Issuer: CN=Entrust.net Certification Authority (2048),OU=(c) 1999 Entrust.net
Limited,OU=www.entrust.net/CPS_2048 incorp. by ref. (limits liab.),O=Entrust.net
Serial Number: 946069240 (0x3863def8)
Subject: CN=Entrust.net Certification Authority (2048),OU=(c) 1999 Entrust.net
Limited,OU=www.entrust.net/CPS_2048 incorp. by ref. (limits liab.),O=Entrust.net
Not Valid Before: Fri Dec 24 17:50:51 1999
Not Valid After : Tue Jul 24 14:15:12 2029
Fingerprint (SHA-256):
6D:C4:71:72:E0:1C:BC:B0:BF:62:58:0D:89:5F:E2:B8:AC:9A:D4:F8:73:80:1E:0C:10:B9:C8:37:D2:1E:B1:77
Fingerprint (SHA1): 50:30:06:09:1D:97:D4:F5:AE:39:F7:CB:E7:92:7D:7D:65:2D:34:31
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Entrust.net Premium 2048 Secure Server CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\120\060\006\011\035\227\324\365\256\071\367\313\347\222\175\175
\145\055\064\061
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\356\051\061\274\062\176\232\346\350\265\367\121\264\064\161\220
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\264\061\024\060\022\006\003\125\004\012\023\013\105\156
\164\162\165\163\164\056\156\145\164\061\100\060\076\006\003\125
\004\013\024\067\167\167\167\056\145\156\164\162\165\163\164\056
\156\145\164\057\103\120\123\137\062\060\064\070\040\151\156\143
\157\162\160\056\040\142\171\040\162\145\146\056\040\050\154\151
\155\151\164\163\040\154\151\141\142\056\051\061\045\060\043\006
\003\125\004\013\023\034\050\143\051\040\061\071\071\071\040\105
\156\164\162\165\163\164\056\156\145\164\040\114\151\155\151\164
\145\144\061\063\060\061\006\003\125\004\003\023\052\105\156\164
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\040\050\062\060\064\070\051
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\070\143\336\370
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST

```

CKA\_TRUST\_STEP\_UP\_APPROVED CK\_BBOOL CK\_FALSE

#

# Certificate "Baltimore CyberTrust Root"

#

# Issuer: CN=Baltimore CyberTrust Root,OU=CyberTrust,O=Baltimore,C=IE

# Serial Number: 33554617 (0x20000b9)

# Subject: CN=Baltimore CyberTrust Root,OU=CyberTrust,O=Baltimore,C=IE

# Not Valid Before: Fri May 12 18:46:00 2000

# Not Valid After : Mon May 12 23:59:00 2025

# Fingerprint (SHA-256):

16:AF:57:A9:F6:76:B0:AB:12:60:95:AA:5E:BA:DE:F2:2A:B3:11:19:D6:44:AC:95:CD:4B:93:DB:F3:F2:6A:EB

# Fingerprint (SHA1): D4:DE:20:D0:5E:66:FC:53:FE:1A:50:88:2C:78:DB:28:52:CA:E4:74

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_CERTIFICATE

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "Baltimore CyberTrust Root"

CKA\_CERTIFICATE\_TYPE CK\_CERTIFICATE\_TYPE CKC\_X\_509

CKA\_SUBJECT MULTILINE\_OCTAL

\060\132\061\013\060\011\006\003\125\004\006\023\002\111\105\061  
\022\060\020\006\003\125\004\012\023\011\102\141\154\164\151\155  
\157\162\145\061\023\060\021\006\003\125\004\013\023\012\103\171  
\142\145\162\124\162\165\163\164\061\042\060\040\006\003\125\004  
\003\023\031\102\141\154\164\151\155\157\162\145\040\103\171\142  
\145\162\124\162\165\163\164\040\122\157\157\164

END

CKA\_ID UTF8 "0"

CKA\_ISSUER MULTILINE\_OCTAL

\060\132\061\013\060\011\006\003\125\004\006\023\002\111\105\061  
\022\060\020\006\003\125\004\012\023\011\102\141\154\164\151\155  
\157\162\145\061\023\060\021\006\003\125\004\013\023\012\103\171  
\142\145\162\124\162\165\163\164\061\042\060\040\006\003\125\004  
\003\023\031\102\141\154\164\151\155\157\162\145\040\103\171\142  
\145\162\124\162\165\163\164\040\122\157\157\164

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

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

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\003\167\060\202\002\137\240\003\002\001\002\002\004\002  
\000\000\271\060\015\006\011\052\206\110\206\367\015\001\001\005  
\005\000\060\132\061\013\060\011\006\003\125\004\006\023\002\111  
\105\061\022\060\020\006\003\125\004\012\023\011\102\141\154\164  
\151\155\157\162\145\061\023\060\021\006\003\125\004\013\023\012  
\103\171\142\145\162\124\162\165\163\164\061\042\060\040\006\003  
\125\004\003\023\031\102\141\154\164\151\155\157\162\145\040\103  
\171\142\145\162\124\162\165\163\164\040\122\157\157\164\060\036

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

```

END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRICT_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRICT_AFTER CK_BBOOL CK_FALSE

Trust for "Baltimore CyberTrust Root"
Issuer: CN=Baltimore CyberTrust Root,OU=CyberTrust,O=Baltimore,C=IE
Serial Number: 33554617 (0x20000b9)
Subject: CN=Baltimore CyberTrust Root,OU=CyberTrust,O=Baltimore,C=IE
Not Valid Before: Fri May 12 18:46:00 2000
Not Valid After : Mon May 12 23:59:00 2025
Fingerprint (SHA-256):
16:AF:57:A9:F6:76:B0:AB:12:60:95:AA:5E:BA:DE:F2:2A:B3:11:19:D6:44:AC:95:CD:4B:93:DB:F3:F2:6A:EB
Fingerprint (SHA1): D4:DE:20:D0:5E:66:FC:53:FE:1A:50:88:2C:78:DB:28:52:CA:E4:74
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Baltimore CyberTrust Root"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\324\336\040\320\136\146\374\123\376\032\120\210\054\170\333\050
\122\312\344\164
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\254\266\224\245\234\027\340\327\221\122\233\261\227\006\246\344
END
CKA_ISSUER MULTILINE_OCTAL
\060\132\061\013\060\011\006\003\125\004\006\023\002\111\105\061
\022\060\020\006\003\125\004\012\023\011\102\141\154\164\151\155
\157\162\145\061\023\060\021\006\003\125\004\013\023\012\103\171
\142\145\162\124\162\165\163\164\061\042\060\040\006\003\125\004
\003\023\031\102\141\154\164\151\155\157\162\145\040\103\171\142
\145\162\124\162\165\163\164\040\122\157\157\164
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\002\000\000\271
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Entrust Root Certification Authority"
#
Issuer: CN=Entrust Root Certification Authority,OU="(c) 2006 Entrust, Inc.",OU=www.entrust.net/CPS is
incorporated by reference,O="Entrust, Inc.",C=US
Serial Number: 1164660820 (0x456b5054)

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```
Subject: CN=Entrust Root Certification Authority,OU="(c) 2006 Entrust, Inc.",OU=www.entrust.net/CPS is
incorporated by reference,O="Entrust, Inc.",C=US
Not Valid Before: Mon Nov 27 20:23:42 2006
Not Valid After : Fri Nov 27 20:53:42 2026
Fingerprint (SHA-256):
73:C1:76:43:4F:1B:C6:D5:AD:F4:5B:0E:76:E7:27:28:7C:8D:E5:76:16:C1:E6:E6:14:1A:2B:2C:BC:7D:8E:4C
Fingerprint (SHA1): B3:1E:B1:B7:40:E3:6C:84:02:DA:DC:37:D4:4D:F5:D4:67:49:52:F9
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Entrust Root Certification Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\260\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\026\060\024\006\003\125\004\012\023\015\105\156\164\162\165
\163\164\054\040\111\156\143\056\061\071\060\067\006\003\125\004
\013\023\060\167\167\167\056\145\156\164\162\165\163\164\056\156
\145\164\057\103\120\123\040\151\163\040\151\156\143\157\162\160
\157\162\141\164\145\144\040\142\171\040\162\145\146\145\162\145
\156\143\145\061\037\060\035\006\003\125\004\013\023\026\050\143
\051\040\062\060\060\066\040\105\156\164\162\165\163\164\054\040
\111\156\143\056\061\055\060\053\006\003\125\004\003\023\044\105
\156\164\162\165\163\164\040\122\157\157\164\040\103\145\162\164
\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162
\151\164\171
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\260\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\026\060\024\006\003\125\004\012\023\015\105\156\164\162\165
\163\164\054\040\111\156\143\056\061\071\060\067\006\003\125\004
\013\023\060\167\167\167\056\145\156\164\162\165\163\164\056\156
\145\164\057\103\120\123\040\151\163\040\151\156\143\157\162\160
\157\162\141\164\145\144\040\142\171\040\162\145\146\145\162\145
\156\143\145\061\037\060\035\006\003\125\004\013\023\026\050\143
\051\040\062\060\060\066\040\105\156\164\162\165\163\164\054\040
\111\156\143\056\061\055\060\053\006\003\125\004\003\023\044\105
\156\164\162\165\163\164\040\122\157\157\164\040\103\145\162\164
\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162
\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\105\153\120\124
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\221\060\202\003\171\240\003\002\001\002\002\004\105
\153\120\124\060\015\006\011\052\206\110\206\367\015\001\001\005
```

\005\000\060\201\260\061\013\060\011\006\003\125\004\006\023\002  
\125\123\061\026\060\024\006\003\125\004\012\023\015\105\156\164  
\162\165\163\164\054\040\111\156\143\056\061\071\060\067\006\003  
\125\004\013\023\060\167\167\167\056\145\156\164\162\165\163\164  
\056\156\145\164\057\103\120\123\040\151\163\040\151\156\143\157  
\162\160\157\162\141\164\145\144\040\142\171\040\162\145\146\145  
\162\145\156\143\145\061\037\060\035\006\003\125\004\013\023\026  
\050\143\051\040\062\060\060\066\040\105\156\164\162\165\163\164  
\054\040\111\156\143\056\061\055\060\053\006\003\125\004\003\023  
\044\105\156\164\162\165\163\164\040\122\157\157\164\040\103\145  
\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150  
\157\162\151\164\171\060\036\027\015\060\066\061\061\062\067\062  
\060\062\063\064\062\132\027\015\062\066\061\061\062\067\062\060  
\065\063\064\062\132\060\201\260\061\013\060\011\006\003\125\004  
\006\023\002\125\123\061\026\060\024\006\003\125\004\012\023\015  
\105\156\164\162\165\163\164\054\040\111\156\143\056\061\071\060  
\067\006\003\125\004\013\023\060\167\167\167\056\145\156\164\162  
\165\163\164\056\156\145\164\057\103\120\123\040\151\163\040\151  
\156\143\157\162\160\157\162\141\164\145\144\040\142\171\040\162  
\145\146\145\162\145\156\143\145\061\037\060\035\006\003\125\004  
\013\023\026\050\143\051\040\062\060\060\066\040\105\156\164\162  
\165\163\164\054\040\111\156\143\056\061\055\060\053\006\003\125  
\004\003\023\044\105\156\164\162\165\163\164\040\122\157\157\164  
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101  
\165\164\150\157\162\151\164\171\060\202\001\042\060\015\006\011  
\052\206\110\206\367\015\001\001\001\005\000\003\202\001\017\000  
\060\202\001\012\002\202\001\001\000\266\225\266\103\102\372\306  
\155\052\157\110\337\224\114\071\127\005\356\303\171\021\101\150  
\066\355\354\376\232\001\217\241\070\050\374\367\020\106\146\056  
\115\036\032\261\032\116\306\321\300\225\210\260\311\377\061\213  
\063\003\333\267\203\173\076\040\204\136\355\262\126\050\247\370  
\340\271\100\161\067\305\313\107\016\227\052\150\300\042\225\142  
\025\333\107\331\365\320\053\377\202\113\311\255\076\336\114\333  
\220\200\120\077\011\212\204\000\354\060\012\075\030\315\373\375  
\052\131\232\043\225\027\054\105\236\037\156\103\171\155\014\134  
\230\376\110\247\305\043\107\134\136\375\156\347\036\264\366\150  
\105\321\206\203\133\242\212\215\261\343\051\200\376\045\161\210  
\255\276\274\217\254\122\226\113\252\121\215\344\023\061\031\350  
\116\115\237\333\254\263\152\325\274\071\124\161\312\172\172\177  
\220\335\175\035\200\331\201\273\131\046\302\021\376\346\223\342  
\367\200\344\145\373\064\067\016\051\200\160\115\257\070\206\056  
\236\177\127\257\236\027\256\353\034\313\050\041\137\266\034\330  
\347\242\004\042\371\323\332\330\313\002\003\001\000\001\243\201  
\260\060\201\255\060\016\006\003\125\035\017\001\001\377\004\004  
\003\002\001\006\060\017\006\003\125\035\023\001\001\377\004\005  
\060\003\001\001\377\060\053\006\003\125\035\020\004\044\060\042  
\200\017\062\060\060\066\061\061\062\067\062\060\062\063\064\062  
\132\201\017\062\060\062\066\061\061\062\067\062\060\065\063\064

\062\132\060\037\006\003\125\035\043\004\030\060\026\200\024\150  
\220\344\147\244\246\123\200\307\206\146\244\361\367\113\103\373  
\204\275\155\060\035\006\003\125\035\016\004\026\004\024\150\220  
\344\147\244\246\123\200\307\206\146\244\361\367\113\103\373\204  
\275\155\060\035\006\011\052\206\110\206\366\175\007\101\000\004  
\020\060\016\033\010\126\067\056\061\072\064\056\060\003\002\004  
\220\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000  
\003\202\001\001\000\223\324\060\260\327\003\040\052\320\371\143  
\350\221\014\005\040\251\137\031\312\173\162\116\324\261\333\320  
\226\373\124\132\031\054\014\010\367\262\274\205\250\235\177\155  
\073\122\263\052\333\347\324\204\214\143\366\017\313\046\001\221  
\120\154\364\137\024\342\223\164\300\023\236\060\072\120\343\264  
\140\305\034\360\042\104\215\161\107\254\310\032\311\351\233\232  
\000\140\023\377\160\176\137\021\115\111\033\263\025\122\173\311  
\124\332\277\235\225\257\153\232\330\236\351\361\344\103\215\342  
\021\104\072\277\257\275\203\102\163\122\213\252\273\247\051\317  
\365\144\034\012\115\321\274\252\254\237\052\320\377\177\177\332  
\175\352\261\355\060\045\301\204\332\064\322\133\170\203\126\354  
\234\066\303\046\342\021\366\147\111\035\222\253\214\373\353\377  
\172\356\205\112\247\120\200\360\247\134\112\224\056\137\005\231  
\074\122\101\340\315\264\143\317\001\103\272\234\203\334\217\140  
\073\363\132\264\264\173\256\332\013\220\070\165\357\201\035\146  
\322\367\127\160\066\263\277\374\050\257\161\045\205\133\023\376  
\036\177\132\264\074

END

CKA\_NSS\_MOZILLA\_CA\_POLICY CK\_BBOOL CK\_TRUE  
CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE  
CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "Entrust Root Certification Authority"

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

# Serial Number: 1164660820 (0x456b5054)

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

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

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

# Fingerprint (SHA-256):

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

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

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "Entrust Root Certification Authority"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

\263\036\261\267\100\343\154\204\002\332\334\067\324\115\365\324  
\147\111\122\371

```

END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\326\245\303\355\135\335\076\000\301\075\207\222\037\035\077\344
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\260\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\026\060\024\006\003\125\004\012\023\015\105\156\164\162\165
\163\164\054\040\111\156\143\056\061\071\060\067\006\003\125\004
\013\023\060\167\167\167\056\145\156\164\162\165\163\164\056\156
\145\164\057\103\120\123\040\151\163\040\151\156\143\157\162\160
\157\162\141\164\145\144\040\142\171\040\162\145\146\145\162\145
\156\143\145\061\037\060\035\006\003\125\004\013\023\026\050\143
\051\040\062\060\060\066\040\105\156\164\162\165\163\164\054\040
\111\156\143\056\061\055\060\053\006\003\125\004\003\023\044\105
\156\164\162\165\163\164\040\122\157\157\164\040\103\145\162\164
\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162
\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\105\153\120\124
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Certum Root CA"
#
Issuer: CN=Certum CA,O=Unizeto Sp. z o.o.,C=PL
Serial Number: 65568 (0x10020)
Subject: CN=Certum CA,O=Unizeto Sp. z o.o.,C=PL
Not Valid Before: Tue Jun 11 10:46:39 2002
Not Valid After : Fri Jun 11 10:46:39 2027
Fingerprint (SHA-256):
D8:E0:FE:BC:1D:B2:E3:8D:00:94:0F:37:D2:7D:41:34:4D:99:3E:73:4B:99:D5:65:6D:97:78:D4:D8:14:36:24
Fingerprint (SHA1): 62:52:DC:40:F7:11:43:A2:2F:DE:9E:F7:34:8E:06:42:51:B1:81:18
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certum Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\076\061\013\060\011\006\003\125\004\006\023\002\120\114\061
\033\060\031\006\003\125\004\012\023\022\125\156\151\172\145\164
\157\040\123\160\056\040\172\040\157\056\157\056\061\022\060\020
\006\003\125\004\003\023\011\103\145\162\164\165\155\040\103\101

```



END

CKA\_ID UTF8 "0"

CKA\_ISSUER MULTILINE\_OCTAL

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

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

\002\003\001\000\040

END

CKA\_VALUE MULTILINE\_OCTAL

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

```
\114\353\075\252\147\157\055\324\315\376\145\061\160\305\033\246
\002\012\272\140\173\155\130\302\232\111\376\143\062\013\153\343
\072\300\254\253\073\260\350\323\011\121\214\020\203\306\064\340
\305\053\340\032\266\140\024\047\154\062\167\214\274\262\162\230
\317\315\314\077\271\310\044\102\024\326\127\374\346\046\103\251
\035\345\200\220\316\003\124\050\076\367\077\323\370\115\355\152
\012\072\223\023\233\073\024\043\023\143\234\077\321\207\047\171
\345\114\121\343\001\255\205\135\032\073\261\325\163\020\244\323
\362\274\156\144\365\132\126\220\250\307\016\114\164\017\056\161
\073\367\310\107\364\151\157\025\362\021\136\203\036\234\174\122
\256\375\002\332\022\250\131\147\030\333\274\160\335\233\261\151
\355\200\316\211\100\110\152\016\065\312\051\146\025\041\224\054
\350\140\052\233\205\112\100\363\153\212\044\354\006\026\054\163
END
```

```
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRICT_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRICT_AFTER CK_BBOOL CK_FALSE
```

```
Trust for "Certum Root CA"
```

```
Issuer: CN=Certum CA,O=Unizeto Sp. z o.o.,C=PL
```

```
Serial Number: 65568 (0x10020)
```

```
Subject: CN=Certum CA,O=Unizeto Sp. z o.o.,C=PL
```

```
Not Valid Before: Tue Jun 11 10:46:39 2002
```

```
Not Valid After : Fri Jun 11 10:46:39 2027
```

```
Fingerprint (SHA-256):
```

```
D8:E0:FE:BC:1D:B2:E3:8D:00:94:0F:37:D2:7D:41:34:4D:99:3E:73:4B:99:D5:65:6D:97:78:D4:D8:14:36:24
```

```
Fingerprint (SHA1): 62:52:DC:40:F7:11:43:A2:2F:DE:9E:F7:34:8E:06:42:51:B1:81:18
```

```
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
```

```
CKA_TOKEN CK_BBOOL CK_TRUE
```

```
CKA_PRIVATE CK_BBOOL CK_FALSE
```

```
CKA_MODIFIABLE CK_BBOOL CK_FALSE
```

```
CKA_LABEL UTF8 "Certum Root CA"
```

```
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
```

```
\142\122\334\100\367\021\103\242\057\336\236\367\064\216\006\102
\121\261\201\030
```

```
END
```

```
CKA_CERT_MD5_HASH MULTILINE_OCTAL
```

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

```
END
```

```
CKA_ISSUER MULTILINE_OCTAL
```

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

```
END
```

```
CKA_SERIAL_NUMBER MULTILINE_OCTAL
```

```
\002\003\001\000\040
```

```
END
```

```

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

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

```

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

\146\151\143\141\164\145\123\145\162\166\151\143\145\163\056\143  
\162\154\060\015\006\011\052\206\110\206\367\015\001\001\005\005  
\000\003\202\001\001\000\010\126\374\002\360\233\350\377\244\372  
\326\173\306\104\200\316\117\304\305\366\000\130\314\246\266\274  
\024\111\150\004\166\350\346\356\135\354\002\017\140\326\215\120  
\030\117\046\116\001\343\346\260\245\356\277\274\164\124\101\277  
\375\374\022\270\307\117\132\364\211\140\005\177\140\267\005\112  
\363\366\361\302\277\304\271\164\206\266\055\175\153\314\322\363  
\106\335\057\306\340\152\303\303\064\003\054\175\226\335\132\302  
\016\247\012\231\301\005\213\253\014\057\363\134\072\317\154\067  
\125\011\207\336\123\100\154\130\357\374\266\253\145\156\004\366  
\033\334\074\340\132\025\306\236\331\361\131\110\060\041\145\003  
\154\354\351\041\163\354\233\003\241\340\067\255\240\025\030\217  
\372\272\002\316\247\054\251\020\023\054\324\345\010\046\253\042  
\227\140\370\220\136\164\324\242\232\123\275\362\251\150\340\242  
\156\302\327\154\261\243\017\236\277\353\150\347\126\362\256\362  
\343\053\070\072\011\201\265\153\205\327\276\055\355\077\032\267  
\262\143\342\365\142\054\202\324\152\000\101\120\361\071\203\237  
\225\351\066\226\230\156

END

CKA\_NSS\_MOZILLA\_CA\_POLICY CK\_BBOOL CK\_TRUE  
CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE  
CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "Comodo AAA Services root"

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

# Serial Number: 1 (0x1)

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

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

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

# Fingerprint (SHA-256):

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

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

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "Comodo AAA Services root"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

\321\353\043\244\155\027\326\217\331\045\144\302\361\361\140\027  
\144\330\343\111

END

CKA\_CERT\_MD5\_HASH MULTILINE\_OCTAL

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

END

CKA\_ISSUER MULTILINE\_OCTAL

\060\173\061\013\060\011\006\003\125\004\006\023\002\107\102\061  
\033\060\031\006\003\125\004\010\014\022\107\162\145\141\164\145

```
\162\040\115\141\156\143\150\145\163\164\145\162\061\020\060\016
\006\003\125\004\007\014\007\123\141\154\146\157\162\144\061\032
\060\030\006\003\125\004\012\014\021\103\157\155\157\144\157\040
\103\101\040\114\151\155\151\164\145\144\061\041\060\037\006\003
\125\004\003\014\030\101\101\101\040\103\145\162\164\151\146\151
\143\141\164\145\040\123\145\162\166\151\143\145\163
```

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

```
\002\001\001
```

END

CKA\_TRUST\_SERVER\_AUTH CK\_TRUST CKT\_NSS\_TRUSTED\_DELEGATOR

CKA\_TRUST\_EMAIL\_PROTECTION CK\_TRUST CKT\_NSS\_TRUSTED\_DELEGATOR

CKA\_TRUST\_CODE\_SIGNING CK\_TRUST CKT\_NSS\_MUST\_VERIFY\_TRUST

CKA\_TRUST\_STEP\_UP\_APPROVED CK\_BBOOL CK\_FALSE

#

# Certificate "QuoVadis Root CA 2"

#

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

# Serial Number: 1289 (0x509)

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

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

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

# Fingerprint (SHA-256):

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

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

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_CERTIFICATE

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "QuoVadis Root CA 2"

CKA\_CERTIFICATE\_TYPE CK\_CERTIFICATE\_TYPE CKC\_X\_509

CKA\_SUBJECT MULTILINE\_OCTAL

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

CKA\_ID UTF8 "0"

CKA\_ISSUER MULTILINE\_OCTAL

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

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

\002\002\005\011

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\005\267\060\202\003\237\240\003\002\001\002\002\002\005  
\011\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000  
\060\105\061\013\060\011\006\003\125\004\006\023\002\102\115\061  
\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144  
\151\163\040\114\151\155\151\164\145\144\061\033\060\031\006\003  
\125\004\003\023\022\121\165\157\126\141\144\151\163\040\122\157  
\157\164\040\103\101\040\062\060\036\027\015\060\066\061\061\062  
\064\061\070\062\067\060\060\132\027\015\063\061\061\061\062\064  
\061\070\062\063\063\063\132\060\105\061\013\060\011\006\003\125  
\004\006\023\002\102\115\061\031\060\027\006\003\125\004\012\023  
\020\121\165\157\126\141\144\151\163\040\114\151\155\151\164\145  
\144\061\033\060\031\006\003\125\004\003\023\022\121\165\157\126  
\141\144\151\163\040\122\157\157\164\040\103\101\040\062\060\202  
\002\042\060\015\006\011\052\206\110\206\367\015\001\001\001\005  
\000\003\202\002\017\000\060\202\002\012\002\202\002\001\000\232  
\030\312\113\224\015\000\055\257\003\051\212\360\017\201\310\256  
\114\031\205\035\010\237\253\051\104\205\363\057\201\255\062\036  
\220\106\277\243\206\046\032\036\376\176\034\030\072\134\234\140  
\027\052\072\164\203\063\060\175\141\124\021\313\355\253\340\346  
\322\242\176\365\153\157\030\267\012\013\055\375\351\076\357\012  
\306\263\020\351\334\302\106\027\370\135\375\244\332\377\236\111  
\132\234\346\063\346\044\226\367\077\272\133\053\034\172\065\302  
\326\147\376\253\146\120\213\155\050\140\053\357\327\140\303\307  
\223\274\215\066\221\363\177\370\333\021\023\304\234\167\166\301  
\256\267\002\152\201\172\251\105\203\342\005\346\271\126\301\224  
\067\217\110\161\143\042\354\027\145\007\225\212\113\337\217\306  
\132\012\345\260\343\137\136\153\021\253\014\371\205\353\104\351  
\370\004\163\362\351\376\134\230\214\365\163\257\153\264\176\315  
\324\134\002\053\114\071\341\262\225\225\055\102\207\327\325\263  
\220\103\267\154\023\361\336\335\366\304\370\211\077\321\165\365  
\222\303\221\325\212\210\320\220\354\334\155\336\211\302\145\161  
\226\213\015\003\375\234\277\133\026\254\222\333\352\376\171\174  
\255\353\257\367\026\313\333\315\045\053\345\037\373\232\237\342  
\121\314\072\123\014\110\346\016\275\311\264\166\006\122\346\021  
\023\205\162\143\003\004\340\004\066\053\040\031\002\350\164\247  
\037\266\311\126\146\360\165\045\334\147\301\016\141\140\210\263  
\076\321\250\374\243\332\035\260\321\261\043\124\337\104\166\155  
\355\101\330\301\262\042\266\123\034\337\065\035\334\241\167\052  
\061\344\055\365\345\345\333\310\340\377\345\200\327\013\143\240  
\377\063\241\017\272\054\025\025\352\227\263\322\242\265\276\362  
\214\226\036\032\217\035\154\244\141\067\271\206\163\063\327\227  
\226\236\043\175\202\244\114\201\342\241\321\272\147\137\225\007  
\243\047\021\356\026\020\173\274\105\112\114\262\004\322\253\357  
\325\375\014\121\316\120\152\010\061\371\221\332\014\217\144\134  
\003\303\072\213\040\077\156\215\147\075\072\326\376\175\133\210

\311\136\373\314\141\334\213\063\167\323\104\062\065\011\142\004  
\222\026\020\330\236\047\107\373\073\041\343\370\353\035\133\002  
\003\001\000\001\243\201\260\060\201\255\060\017\006\003\125\035  
\023\001\001\377\004\005\060\003\001\001\377\060\013\006\003\125  
\035\017\004\004\003\002\001\006\060\035\006\003\125\035\016\004  
\026\004\024\032\204\142\274\110\114\063\045\004\324\356\320\366  
\003\304\031\106\321\224\153\060\156\006\003\125\035\043\004\147  
\060\145\200\024\032\204\142\274\110\114\063\045\004\324\356\320  
\366\003\304\031\106\321\224\153\241\111\244\107\060\105\061\013  
\060\011\006\003\125\004\006\023\002\102\115\061\031\060\027\006  
\003\125\004\012\023\020\121\165\157\126\141\144\151\163\040\114  
\151\155\151\164\145\144\061\033\060\031\006\003\125\004\003\023  
\022\121\165\157\126\141\144\151\163\040\122\157\157\164\040\103  
\101\040\062\202\002\005\011\060\015\006\011\052\206\110\206\367  
\015\001\001\005\005\000\003\202\002\001\000\076\012\026\115\237  
\006\133\250\256\161\135\057\005\057\147\346\023\105\203\304\066  
\366\363\300\046\014\015\265\107\144\135\370\264\162\311\106\245  
\003\030\047\125\211\170\175\166\352\226\064\200\027\040\334\347  
\203\370\215\374\007\270\332\137\115\056\147\262\204\375\331\104  
\374\167\120\201\346\174\264\311\015\013\162\123\370\166\007\007  
\101\107\226\014\373\340\202\046\223\125\214\376\042\037\140\145  
\174\137\347\046\263\367\062\220\230\120\324\067\161\125\366\222  
\041\170\367\225\171\372\370\055\046\207\146\126\060\167\246\067  
\170\063\122\020\130\256\077\141\216\362\152\261\357\030\176\112  
\131\143\312\215\242\126\325\247\057\274\126\037\317\071\301\342  
\373\012\250\025\054\175\115\172\143\306\154\227\104\074\322\157  
\303\112\027\012\370\220\322\127\242\031\121\245\055\227\101\332  
\007\117\251\120\332\220\215\224\106\341\076\360\224\375\020\000  
\070\365\073\350\100\341\264\156\126\032\040\314\157\130\215\355  
\056\105\217\326\351\223\077\347\261\054\337\072\326\042\214\334  
\204\273\042\157\320\370\344\306\071\351\004\210\074\303\272\353  
\125\172\155\200\231\044\365\154\001\373\370\227\260\224\133\353  
\375\322\157\361\167\150\015\065\144\043\254\270\125\241\003\321  
\115\102\031\334\370\165\131\126\243\371\250\111\171\370\257\016  
\271\021\240\174\267\152\355\064\320\266\046\142\070\032\207\014  
\370\350\375\056\323\220\177\007\221\052\035\326\176\134\205\203  
\231\260\070\010\077\351\136\371\065\007\344\311\142\156\127\177  
\247\120\225\367\272\310\233\346\216\242\001\305\326\146\277\171  
\141\363\074\034\341\271\202\134\135\240\303\351\330\110\275\031  
\242\021\024\031\156\262\206\033\150\076\110\067\032\210\267\135  
\226\136\234\307\357\047\142\010\342\221\031\134\322\361\041\335  
\272\027\102\202\227\161\201\123\061\251\237\366\175\142\277\162  
\341\243\223\035\314\212\046\132\011\070\320\316\327\015\200\026  
\264\170\245\072\207\114\215\212\245\325\106\227\362\054\020\271  
\274\124\042\300\001\120\151\103\236\364\262\357\155\370\354\332  
\361\343\261\357\337\221\217\124\052\013\045\301\046\031\304\122  
\020\005\145\325\202\020\352\302\061\315\056

END



CKA\_NSS\_MOZILLA\_CA\_POLICY CK\_BBOOL CK\_TRUE  
CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE  
CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "QuoVadis Root CA 2"

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

# Serial Number: 1289 (0x509)

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

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

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

# Fingerprint (SHA-256):

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

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

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "QuoVadis Root CA 2"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

\312\072\373\317\022\100\066\113\104\262\026\040\210\200\110\071  
\031\223\174\367

END

CKA\_CERT\_MD5\_HASH MULTILINE\_OCTAL

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

END

CKA\_ISSUER MULTILINE\_OCTAL

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

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

\002\002\005\011

END

CKA\_TRUST\_SERVER\_AUTH CK\_TRUST CKT\_NSS\_TRUSTED\_DELEGATOR

CKA\_TRUST\_EMAIL\_PROTECTION CK\_TRUST CKT\_NSS\_TRUSTED\_DELEGATOR

CKA\_TRUST\_CODE\_SIGNING CK\_TRUST CKT\_NSS\_MUST\_VERIFY\_TRUST

CKA\_TRUST\_STEP\_UP\_APPROVED CK\_BBOOL CK\_FALSE

#

# Certificate "QuoVadis Root CA 3"

#

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

# Serial Number: 1478 (0x5c6)

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

# Not Valid Before: Fri Nov 24 19:11:23 2006

# Not Valid After : Mon Nov 24 19:06:44 2031

```
Fingerprint (SHA-256):
18:F1:FC:7F:20:5D:F8:AD:DD:EB:7F:E0:07:DD:57:E3:AF:37:5A:9C:4D:8D:73:54:6B:F4:F1:FE:D1:E1:8D:35
Fingerprint (SHA1): 1F:49:14:F7:D8:74:95:1D:DD:AE:02:C0:BE:FD:3A:2D:82:75:51:85
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "QuoVadis Root CA 3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\105\061\013\060\011\006\003\125\004\006\023\002\102\115\061
\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144
\151\163\040\114\151\155\151\164\145\144\061\033\060\031\006\003
\125\004\003\023\022\121\165\157\126\141\144\151\163\040\122\157
\157\164\040\103\101\040\063
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\105\061\013\060\011\006\003\125\004\006\023\002\102\115\061
\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144
\151\163\040\114\151\155\151\164\145\144\061\033\060\031\006\003
\125\004\003\023\022\121\165\157\126\141\144\151\163\040\122\157
\157\164\040\103\101\040\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\002\005\306
END
CKA_VALUE MULTILINE_OCTAL
\060\202\006\235\060\202\004\205\240\003\002\001\002\002\002\005
\306\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000
\060\105\061\013\060\011\006\003\125\004\006\023\002\102\115\061
\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144
\151\163\040\114\151\155\151\164\145\144\061\033\060\031\006\003
\125\004\003\023\022\121\165\157\126\141\144\151\163\040\122\157
\157\164\040\103\101\040\063\060\036\027\015\060\066\061\061\062
\064\061\071\061\061\062\063\132\027\015\063\061\061\061\062\064
\061\071\060\066\064\064\132\060\105\061\013\060\011\006\003\125
\004\006\023\002\102\115\061\031\060\027\006\003\125\004\012\023
\020\121\165\157\126\141\144\151\163\040\114\151\155\151\164\145
\144\061\033\060\031\006\003\125\004\003\023\022\121\165\157\126
\141\144\151\163\040\122\157\157\164\040\103\101\040\063\060\202
\002\042\060\015\006\011\052\206\110\206\367\015\001\001\001\005
\000\003\202\002\017\000\060\202\002\012\002\202\002\001\000\314
\127\102\026\124\234\346\230\323\323\115\356\376\355\307\237\103
\071\112\145\263\350\026\210\064\333\015\131\221\164\317\222\270
\004\100\255\002\113\061\253\274\215\221\150\330\040\016\032\001
\342\032\173\116\027\135\342\212\267\077\231\032\315\353\141\253
\302\145\246\037\267\267\275\267\217\374\375\160\217\013\240\147
```

\276\001\242\131\317\161\346\017\051\166\377\261\126\171\105\053  
\037\236\172\124\350\243\051\065\150\244\001\117\017\244\056\067  
\357\033\277\343\217\020\250\162\253\130\127\347\124\206\310\311  
\363\133\332\054\332\135\216\156\074\243\076\332\373\202\345\335  
\362\134\262\005\063\157\212\066\316\320\023\116\377\277\112\014  
\064\114\246\303\041\275\120\004\125\353\261\273\235\373\105\036  
\144\025\336\125\001\214\002\166\265\313\241\077\102\151\274\057  
\275\150\103\026\126\211\052\067\141\221\375\246\256\116\300\313  
\024\145\224\067\113\222\006\357\004\320\310\234\210\333\013\173  
\201\257\261\075\052\304\145\072\170\266\356\334\200\261\322\323  
\231\234\072\356\153\132\153\263\215\267\325\316\234\302\276\245  
\113\057\026\261\236\150\073\006\157\256\175\237\370\336\354\314  
\051\247\230\243\045\103\057\357\361\137\046\341\210\115\370\136  
\156\327\331\024\156\031\063\151\247\073\204\211\223\304\123\125  
\023\241\121\170\100\370\270\311\242\356\173\272\122\102\203\236  
\024\355\005\122\132\131\126\247\227\374\235\077\012\051\330\334  
\117\221\016\023\274\336\225\244\337\213\231\276\254\233\063\210  
\357\265\201\257\033\306\042\123\310\366\307\356\227\024\260\305  
\174\170\122\310\360\316\156\167\140\204\246\351\052\166\040\355  
\130\001\027\060\223\351\032\213\340\163\143\331\152\222\224\111  
\116\264\255\112\205\304\243\042\060\374\011\355\150\042\163\246  
\210\014\125\041\130\305\341\072\237\052\335\312\341\220\340\331  
\163\253\154\200\270\350\013\144\223\240\234\214\031\377\263\322  
\014\354\221\046\207\212\263\242\341\160\217\054\012\345\315\155  
\150\121\353\332\077\005\177\213\062\346\023\134\153\376\137\100  
\342\042\310\264\264\144\117\326\272\175\110\076\250\151\014\327  
\273\206\161\311\163\270\077\073\235\045\113\332\377\100\353\002  
\003\001\000\001\243\202\001\225\060\202\001\221\060\017\006\003  
\125\035\023\001\001\377\004\005\060\003\001\001\377\060\201\341  
\006\003\125\035\040\004\201\331\060\201\326\060\201\323\006\011  
\053\006\001\004\001\276\130\000\003\060\201\305\060\201\223\006  
\010\053\006\001\005\005\007\002\002\060\201\206\032\201\203\101  
\156\171\040\165\163\145\040\157\146\040\164\150\151\163\040\103  
\145\162\164\151\146\151\143\141\164\145\040\143\157\156\163\164  
\151\164\165\164\145\163\040\141\143\143\145\160\164\141\156\143  
\145\040\157\146\040\164\150\145\040\121\165\157\126\141\144\151  
\163\040\122\157\157\164\040\103\101\040\063\040\103\145\162\164  
\151\146\151\143\141\164\145\040\120\157\154\151\143\171\040\057  
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\120  
\162\141\143\164\151\143\145\040\123\164\141\164\145\155\145\156  
\164\056\060\055\006\010\053\006\001\005\005\007\002\001\026\041  
\150\164\164\160\072\057\057\167\167\167\056\161\165\157\166\141  
\144\151\163\147\154\157\142\141\154\056\143\157\155\057\143\160  
\163\060\013\006\003\125\035\017\004\004\003\002\001\006\060\035  
\006\003\125\035\016\004\026\004\024\362\300\023\340\202\103\076  
\373\356\057\147\062\226\065\134\333\270\313\002\320\060\156\006  
\003\125\035\043\004\147\060\145\200\024\362\300\023\340\202\103  
\076\373\356\057\147\062\226\065\134\333\270\313\002\320\241\111

\244\107\060\105\061\013\060\011\006\003\125\004\006\023\002\102  
\115\061\031\060\027\006\003\125\004\012\023\020\121\165\157\126  
\141\144\151\163\040\114\151\155\151\164\145\144\061\033\060\031  
\006\003\125\004\003\023\022\121\165\157\126\141\144\151\163\040  
\122\157\157\164\040\103\101\040\063\202\002\005\306\060\015\006  
\011\052\206\110\206\367\015\001\001\005\005\000\003\202\002\001  
\000\117\255\240\054\114\372\300\362\157\367\146\125\253\043\064  
\356\347\051\332\303\133\266\260\203\331\320\320\342\041\373\363  
\140\247\073\135\140\123\047\242\233\366\010\042\052\347\277\240  
\162\345\234\044\152\061\261\220\172\047\333\204\021\211\047\246  
\167\132\070\327\277\254\206\374\356\135\203\274\006\306\321\167  
\153\017\155\044\057\113\172\154\247\007\226\312\343\204\237\255  
\210\213\035\253\026\215\133\146\027\331\026\364\213\200\322\335  
\370\262\166\303\374\070\023\252\014\336\102\151\053\156\363\074  
\353\200\047\333\365\246\104\015\237\132\125\131\013\325\015\122  
\110\305\256\237\362\057\200\305\352\062\120\065\022\227\056\301  
\341\377\361\043\210\121\070\237\362\146\126\166\347\017\121\227  
\245\122\014\115\111\121\225\066\075\277\242\113\014\020\035\206  
\231\114\252\363\162\021\223\344\352\366\233\332\250\135\247\115  
\267\236\002\256\163\000\310\332\043\003\350\371\352\031\164\142  
\000\224\313\042\040\276\224\247\131\265\202\152\276\231\171\172  
\251\362\112\044\122\367\164\375\272\116\346\250\035\002\156\261  
\015\200\104\301\256\323\043\067\137\273\205\174\053\222\056\350  
\176\245\213\335\231\341\277\047\157\055\135\252\173\207\376\012  
\335\113\374\216\365\046\344\156\160\102\156\063\354\061\236\173  
\223\301\344\311\151\032\075\300\153\116\042\155\356\253\130\115  
\306\320\101\301\053\352\117\022\207\136\353\105\330\154\365\230  
\002\323\240\330\125\212\006\231\031\242\240\167\321\060\236\254  
\314\165\356\203\365\260\142\071\317\154\127\342\114\322\221\013  
\016\165\050\033\232\277\375\032\103\361\312\167\373\073\217\141  
\270\151\050\026\102\004\136\160\052\034\041\330\217\341\275\043  
\133\055\164\100\222\331\143\031\015\163\335\151\274\142\107\274  
\340\164\053\262\353\175\276\101\033\265\300\106\305\241\042\313  
\137\116\301\050\222\336\030\272\325\052\050\273\021\213\027\223  
\230\231\140\224\134\043\317\132\047\227\136\013\005\006\223\067  
\036\073\151\066\353\251\236\141\035\217\062\332\216\014\326\164  
\076\173\011\044\332\001\167\107\304\073\315\064\214\231\365\312  
\341\045\141\063\262\131\033\342\156\327\067\127\266\015\251\022  
\332

END

CKA\_NSS\_MOZILLA\_CA\_POLICY CK\_BBOOL CK\_TRUE  
CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE  
CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "QuoVadis Root CA 3"

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

# Serial Number: 1478 (0x5c6)

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

```

Not Valid Before: Fri Nov 24 19:11:23 2006
Not Valid After : Mon Nov 24 19:06:44 2031
Fingerprint (SHA-256):
18:F1:FC:7F:20:5D:F8:AD:DD:EB:7F:E0:07:DD:57:E3:AF:37:5A:9C:4D:8D:73:54:6B:F4:F1:FE:D1:E1:8D:35
Fingerprint (SHA1): 1F:49:14:F7:D8:74:95:1D:DD:AE:02:C0:BE:FD:3A:2D:82:75:51:85
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "QuoVadis Root CA 3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\037\111\024\367\330\164\225\035\335\256\002\300\276\375\072\055
\202\165\121\205
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\061\205\074\142\224\227\143\271\252\375\211\116\257\157\340\317
END
CKA_ISSUER MULTILINE_OCTAL
\060\105\061\013\060\011\006\003\125\004\006\023\002\102\115\061
\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144
\151\163\040\114\151\155\151\164\145\144\061\033\060\031\006\003
\125\004\003\023\022\121\165\157\126\141\144\151\163\040\122\157
\157\164\040\103\101\040\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\002\005\306
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Security Communication Root CA"
#
Issuer: OU=Security Communication RootCA1,O=SECOM Trust.net,C=JP
Serial Number: 0 (0x0)
Subject: OU=Security Communication RootCA1,O=SECOM Trust.net,C=JP
Not Valid Before: Tue Sep 30 04:20:49 2003
Not Valid After : Sat Sep 30 04:20:49 2023
Fingerprint (SHA-256):
E7:5E:72:ED:9F:56:0E:EC:6E:B4:80:00:73:A4:3F:C3:AD:19:19:5A:39:22:82:01:78:95:97:4A:99:02:6B:6C
Fingerprint (SHA1): 36:B1:2B:49:F9:81:9E:D7:4C:9E:BC:38:0F:C6:56:8F:5D:AC:B2:F7
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Security Communication Root CA"

```

CKA\_CERTIFICATE\_TYPE CK\_CERTIFICATE\_TYPE CKC\_X\_509

CKA\_SUBJECT MULTILINE\_OCTAL

\060\120\061\013\060\011\006\003\125\004\006\023\002\112\120\061  
\030\060\026\006\003\125\004\012\023\017\123\105\103\117\115\040  
\124\162\165\163\164\056\156\145\164\061\047\060\045\006\003\125  
\004\013\023\036\123\145\143\165\162\151\164\171\040\103\157\155  
\155\165\156\151\143\141\164\151\157\156\040\122\157\157\164\103  
\101\061

END

CKA\_ID UTF8 "0"

CKA\_ISSUER MULTILINE\_OCTAL

\060\120\061\013\060\011\006\003\125\004\006\023\002\112\120\061  
\030\060\026\006\003\125\004\012\023\017\123\105\103\117\115\040  
\124\162\165\163\164\056\156\145\164\061\047\060\045\006\003\125  
\004\013\023\036\123\145\143\165\162\151\164\171\040\103\157\155  
\155\165\156\151\143\141\164\151\157\156\040\122\157\157\164\103  
\101\061

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

\002\001\000

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\003\132\060\202\002\102\240\003\002\001\002\002\001\000  
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060  
\120\061\013\060\011\006\003\125\004\006\023\002\112\120\061\030  
\060\026\006\003\125\004\012\023\017\123\105\103\117\115\040\124  
\162\165\163\164\056\156\145\164\061\047\060\045\006\003\125\004  
\013\023\036\123\145\143\165\162\151\164\171\040\103\157\155\155  
\165\156\151\143\141\164\151\157\156\040\122\157\157\164\103\101  
\061\060\036\027\015\060\063\060\071\063\060\060\064\062\060\064  
\071\132\027\015\062\063\060\071\063\060\060\064\062\060\064\071  
\132\060\120\061\013\060\011\006\003\125\004\006\023\002\112\120  
\061\030\060\026\006\003\125\004\012\023\017\123\105\103\117\115  
\040\124\162\165\163\164\056\156\145\164\061\047\060\045\006\003  
\125\004\013\023\036\123\145\143\165\162\151\164\171\040\103\157  
\155\155\165\156\151\143\141\164\151\157\156\040\122\157\157\164  
\103\101\061\060\202\001\042\060\015\006\011\052\206\110\206\367  
\015\001\001\001\005\000\003\202\001\017\000\060\202\001\012\002  
\202\001\001\000\263\263\376\177\323\155\261\357\026\174\127\245  
\014\155\166\212\057\113\277\144\373\114\356\212\360\363\051\174  
\365\377\356\052\340\351\351\272\133\144\042\232\232\157\054\072  
\046\151\121\005\231\046\334\325\034\152\161\306\232\175\036\235  
\335\174\154\306\214\147\147\112\076\370\161\260\031\047\251\011  
\014\246\225\277\113\214\014\372\125\230\073\330\350\042\241\113  
\161\070\171\254\227\222\151\263\211\176\352\041\150\006\230\024  
\226\207\322\141\066\274\155\047\126\236\127\356\300\300\126\375  
\062\317\244\331\216\302\043\327\215\250\363\330\045\254\227\344  
\160\070\364\266\072\264\235\073\227\046\103\243\241\274\111\131

\162\114\043\060\207\001\130\366\116\276\034\150\126\146\257\315  
\101\135\310\263\115\052\125\106\253\037\332\036\342\100\075\333  
\315\175\271\222\200\234\067\335\014\226\144\235\334\042\367\144  
\213\337\141\336\025\224\122\025\240\175\122\311\113\250\041\311  
\306\261\355\313\303\225\140\321\017\360\253\160\370\337\313\115  
\176\354\326\372\253\331\275\177\124\362\245\351\171\372\331\326  
\166\044\050\163\002\003\001\000\001\243\077\060\075\060\035\006  
\003\125\035\016\004\026\004\024\240\163\111\231\150\334\205\133  
\145\343\233\050\057\127\237\275\063\274\007\110\060\013\006\003  
\125\035\017\004\004\003\002\001\006\060\017\006\003\125\035\023  
\001\001\377\004\005\060\003\001\001\377\060\015\006\011\052\206  
\110\206\367\015\001\001\005\005\000\003\202\001\001\000\150\100  
\251\250\273\344\117\135\171\263\005\265\027\263\140\023\353\306  
\222\135\340\321\323\152\376\373\276\233\155\277\307\005\155\131  
\040\304\034\360\267\332\204\130\002\143\372\110\026\357\117\245  
\013\367\112\230\362\077\236\033\255\107\153\143\316\010\107\353  
\122\077\170\234\257\115\256\370\325\117\317\232\230\052\020\101  
\071\122\304\335\331\233\016\357\223\001\256\262\056\312\150\102  
\044\102\154\260\263\072\076\315\351\332\110\304\025\313\351\371  
\007\017\222\120\111\212\335\061\227\137\311\351\067\252\073\131  
\145\227\224\062\311\263\237\076\072\142\130\305\111\255\142\016  
\161\245\062\252\057\306\211\166\103\100\023\023\147\075\242\124  
\045\020\313\361\072\362\331\372\333\111\126\273\246\376\247\101  
\065\303\340\210\141\311\210\307\337\066\020\042\230\131\352\260  
\112\373\126\026\163\156\254\115\367\042\241\117\255\035\172\055  
\105\047\345\060\301\136\362\332\023\313\045\102\121\225\107\003  
\214\154\041\314\164\102\355\123\377\063\213\217\017\127\001\026  
\057\317\246\356\311\160\042\024\275\375\276\154\013\003

END

CKA\_NSS\_MOZILLA\_CA\_POLICY CK\_BBOOL CK\_TRUE  
CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE  
CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "Security Communication Root CA"

# Issuer: OU=Security Communication RootCA1,O=SECOM Trust.net,C=JP

# Serial Number: 0 (0x0)

# Subject: OU=Security Communication RootCA1,O=SECOM Trust.net,C=JP

# Not Valid Before: Tue Sep 30 04:20:49 2003

# Not Valid After : Sat Sep 30 04:20:49 2023

# Fingerprint (SHA-256):

E7:5E:72:ED:9F:56:0E:EC:6E:B4:80:00:73:A4:3F:C3:AD:19:19:5A:39:22:82:01:78:95:97:4A:99:02:6B:6C

# Fingerprint (SHA1): 36:B1:2B:49:F9:81:9E:D7:4C:9E:BC:38:0F:C6:56:8F:5D:AC:B2:F7

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "Security Communication Root CA"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

\066\261\053\111\371\201\236\327\114\236\274\070\017\306\126\217  
\135\254\262\367

END

CKA\_CERT\_MD5\_HASH MULTILINE\_OCTAL

\361\274\143\152\124\340\265\047\365\315\347\032\343\115\156\112  
END

CKA\_ISSUER MULTILINE\_OCTAL

\060\120\061\013\060\011\006\003\125\004\006\023\002\112\120\061  
\030\060\026\006\003\125\004\012\023\017\123\105\103\117\115\040  
\124\162\165\163\164\056\156\145\164\061\047\060\045\006\003\125  
\004\013\023\036\123\145\143\165\162\151\164\171\040\103\157\155  
\155\165\156\151\143\141\164\151\157\156\040\122\157\157\164\103  
\101\061

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

\002\001\000

END

CKA\_TRUST\_SERVER\_AUTH CK\_TRUST CKT\_NSS\_TRUSTED\_DELEGATOR

CKA\_TRUST\_EMAIL\_PROTECTION CK\_TRUST CKT\_NSS\_TRUSTED\_DELEGATOR

CKA\_TRUST\_CODE\_SIGNING CK\_TRUST CKT\_NSS\_MUST\_VERIFY\_TRUST

CKA\_TRUST\_STEP\_UP\_APPROVED CK\_BBOOL CK\_FALSE

#

# Certificate "Camerfirma Chambers of Commerce Root"

#

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

# Serial Number: 0 (0x0)

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

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

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

# Fingerprint (SHA-256):

0C:25:8A:12:A5:67:4A:EF:25:F2:8B:A7:DC:FA:EC:EE:A3:48:E5:41:E6:F5:CC:4E:E6:3B:71:B3:61:60:6A:C3

# Fingerprint (SHA1): 6E:3A:55:A4:19:0C:19:5C:93:84:3C:C0:DB:72:2E:31:30:61:F0:B1

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_CERTIFICATE

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "Camerfirma Chambers of Commerce Root"

CKA\_CERTIFICATE\_TYPE CK\_CERTIFICATE\_TYPE CKC\_X\_509

CKA\_SUBJECT MULTILINE\_OCTAL

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



```
\040\006\003\125\004\003\023\031\103\150\141\155\142\145\162\163
\040\157\146\040\103\157\155\155\145\162\143\145\040\122\157\157
\164
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\177\061\013\060\011\006\003\125\004\006\023\002\105\125\061
\047\060\045\006\003\125\004\012\023\036\101\103\040\103\141\155
\145\162\146\151\162\155\141\040\123\101\040\103\111\106\040\101
\070\062\067\064\063\062\070\067\061\043\060\041\006\003\125\004
\013\023\032\150\164\164\160\072\057\057\167\167\167\056\143\150
\141\155\142\145\162\163\151\147\156\056\157\162\147\061\042\060
\040\006\003\125\004\003\023\031\103\150\141\155\142\145\162\163
\040\157\146\040\103\157\155\155\145\162\143\145\040\122\157\157
\164
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\275\060\202\003\245\240\003\002\001\002\002\001\000
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060
\177\061\013\060\011\006\003\125\004\006\023\002\105\125\061\047
\060\045\006\003\125\004\012\023\036\101\103\040\103\141\155\145
\162\146\151\162\155\141\040\123\101\040\103\111\106\040\101\070
\062\067\064\063\062\070\067\061\043\060\041\006\003\125\004\013
\023\032\150\164\164\160\072\057\057\167\167\167\056\143\150\141
\155\142\145\162\163\151\147\156\056\157\162\147\061\042\060\040
\006\003\125\004\003\023\031\103\150\141\155\142\145\162\163\040
\157\146\040\103\157\155\155\145\162\143\145\040\122\157\157\164
\060\036\027\015\060\063\060\071\063\060\061\066\061\063\064\063
\132\027\015\063\067\060\071\063\060\061\066\061\063\064\064\132
\060\177\061\013\060\011\006\003\125\004\006\023\002\105\125\061
\047\060\045\006\003\125\004\012\023\036\101\103\040\103\141\155
\145\162\146\151\162\155\141\040\123\101\040\103\111\106\040\101
\070\062\067\064\063\062\070\067\061\043\060\041\006\003\125\004
\013\023\032\150\164\164\160\072\057\057\167\167\167\056\143\150
\141\155\142\145\162\163\151\147\156\056\157\162\147\061\042\060
\040\006\003\125\004\003\023\031\103\150\141\155\142\145\162\163
\040\157\146\040\103\157\155\155\145\162\143\145\040\122\157\157
\164\060\202\001\040\060\015\006\011\052\206\110\206\367\015\001
\001\001\005\000\003\202\001\015\000\060\202\001\010\002\202\001
\001\000\267\066\125\345\245\135\030\060\340\332\211\124\221\374
\310\307\122\370\057\120\331\357\261\165\163\145\107\175\033\133
\272\165\305\374\241\210\044\372\057\355\312\010\112\071\124\304
\121\172\265\332\140\352\070\074\201\262\313\361\273\331\221\043
\077\110\001\160\165\251\005\052\255\037\161\363\311\124\075\035
\006\152\100\076\263\014\205\356\134\033\171\302\142\304\270\066
```

\216\065\135\001\014\043\004\107\065\252\233\140\116\240\146\075  
\313\046\012\234\100\241\364\135\230\277\161\253\245\000\150\052  
\355\203\172\017\242\024\265\324\042\263\200\260\074\014\132\121  
\151\055\130\030\217\355\231\236\361\256\342\225\346\366\107\250  
\326\014\017\260\130\130\333\303\146\067\236\233\221\124\063\067  
\322\224\034\152\110\311\311\362\245\332\245\014\043\367\043\016  
\234\062\125\136\161\234\204\005\121\232\055\375\346\116\052\064  
\132\336\312\100\067\147\014\124\041\125\167\332\012\014\314\227  
\256\200\334\224\066\112\364\076\316\066\023\036\123\344\254\116  
\072\005\354\333\256\162\234\070\213\320\071\073\211\012\076\167  
\376\165\002\001\003\243\202\001\104\060\202\001\100\060\022\006  
\003\125\035\023\001\001\377\004\010\060\006\001\001\377\002\001  
\014\060\074\006\003\125\035\037\004\065\060\063\060\061\240\057  
\240\055\206\053\150\164\164\160\072\057\057\143\162\154\056\143  
\150\141\155\142\145\162\163\151\147\156\056\157\162\147\057\143  
\150\141\155\142\145\162\163\162\157\157\164\056\143\162\154\060  
\035\006\003\125\035\016\004\026\004\024\343\224\365\261\115\351  
\333\241\051\133\127\213\115\166\006\166\341\321\242\212\060\016  
\006\003\125\035\017\001\001\377\004\004\003\002\001\006\060\021  
\006\011\140\206\110\001\206\370\102\001\001\004\004\003\002\000  
\007\060\047\006\003\125\035\021\004\040\060\036\201\034\143\150  
\141\155\142\145\162\163\162\157\157\164\100\143\150\141\155\142  
\145\162\163\151\147\156\056\157\162\147\060\047\006\003\125\035  
\022\004\040\060\036\201\034\143\150\141\155\142\145\162\163\162  
\157\157\164\100\143\150\141\155\142\145\162\163\151\147\156\056  
\157\162\147\060\130\006\003\125\035\040\004\121\060\117\060\115  
\006\013\053\006\001\004\001\201\207\056\012\003\001\060\076\060  
\074\006\010\053\006\001\005\005\007\002\001\026\060\150\164\164  
\160\072\057\057\143\160\163\056\143\150\141\155\142\145\162\163  
\151\147\156\056\157\162\147\057\143\160\163\057\143\150\141\155  
\142\145\162\163\162\157\157\164\056\150\164\155\154\060\015\006  
\011\052\206\110\206\367\015\001\001\005\005\000\003\202\001\001  
\000\014\101\227\302\032\206\300\042\174\237\373\220\363\032\321  
\003\261\357\023\371\041\137\004\234\332\311\245\215\047\154\226  
\207\221\276\101\220\001\162\223\347\036\175\137\366\211\306\135  
\247\100\011\075\254\111\105\105\334\056\215\060\150\262\011\272  
\373\303\057\314\272\013\337\077\167\173\106\175\072\022\044\216  
\226\217\074\005\012\157\322\224\050\035\155\014\300\056\210\042  
\325\330\317\035\023\307\360\110\327\327\005\247\317\307\107\236  
\073\074\064\310\200\117\324\024\273\374\015\120\367\372\263\354  
\102\137\251\335\155\310\364\165\317\173\301\162\046\261\001\034  
\134\054\375\172\116\264\001\305\005\127\271\347\074\252\005\331  
\210\351\007\106\101\316\357\101\201\256\130\337\203\242\256\312  
\327\167\037\347\000\074\235\157\216\344\062\011\035\115\170\064  
\170\064\074\224\233\046\355\117\161\306\031\172\275\040\042\110  
\132\376\113\175\003\267\347\130\276\306\062\116\164\036\150\335  
\250\150\133\263\076\356\142\175\331\200\350\012\165\172\267\356  
\264\145\232\041\220\340\252\320\230\274\070\265\163\074\213\370

```

\334
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRICT_AFTER CK_BBOOL CK_FALSE
For Email Distrust After: Mon Mar 01 00:00:00 2021
CKA_NSS_EMAIL_DISTRICT_AFTER MULTILINE_OCTAL
\062\061\060\063\060\061\060\060\060\060\060\132
END

Trust for "Camerfirma Chambers of Commerce Root"
Issuer: CN=Chambers of Commerce Root,OU=http://www.chambersign.org,O=AC Camerfirma SA CIF
A82743287,C=EU
Serial Number: 0 (0x0)
Subject: CN=Chambers of Commerce Root,OU=http://www.chambersign.org,O=AC Camerfirma SA CIF
A82743287,C=EU
Not Valid Before: Tue Sep 30 16:13:43 2003
Not Valid After : Wed Sep 30 16:13:44 2037
Fingerprint (SHA-256):
0C:25:8A:12:A5:67:4A:EF:25:F2:8B:A7:DC:FA:EC:EE:A3:48:E5:41:E6:F5:CC:4E:E6:3B:71:B3:61:60:6A:C3
Fingerprint (SHA1): 6E:3A:55:A4:19:0C:19:5C:93:84:3C:C0:DB:72:2E:31:30:61:F0:B1
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Camerfirma Chambers of Commerce Root"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\156\072\125\244\031\014\031\134\223\204\074\300\333\162\056\061
\060\141\360\261
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\260\001\356\024\331\257\051\030\224\166\216\361\151\063\052\204
END
CKA_ISSUER MULTILINE_OCTAL
\060\177\061\013\060\011\006\003\125\004\006\023\002\105\125\061
\047\060\045\006\003\125\004\012\023\036\101\103\040\103\141\155
\145\162\146\151\162\155\141\040\123\101\040\103\111\106\040\101
\070\062\067\064\063\062\070\067\061\043\060\041\006\003\125\004
\013\023\032\150\164\164\160\072\057\057\167\167\167\056\143\150
\141\155\142\145\162\163\151\147\156\056\157\162\147\061\042\060
\040\006\003\125\004\003\023\031\103\150\141\155\142\145\162\163
\040\157\146\040\103\157\155\155\145\162\143\145\040\122\157\157
\164
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR

```

CKA\_TRUST\_CODE\_SIGNING CK\_TRUST CKT\_NSS\_MUST\_VERIFY\_TRUST  
CKA\_TRUST\_STEP\_UP\_APPROVED CK\_BBOOL CK\_FALSE

#

# Certificate "Camerfirma Global Chambersign Root"

#

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

# Serial Number: 0 (0x0)

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

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

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

# Fingerprint (SHA-256):

EF:3C:B4:17:FC:8E:BF:6F:97:87:6C:9E:4E:CE:39:DE:1E:A5:FE:64:91:41:D1:02:8B:7D:11:C0:B2:29:8C:ED

# Fingerprint (SHA1): 33:9B:6B:14:50:24:9B:55:7A:01:87:72:84:D9:E0:2F:C3:D2:D8:E9

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_CERTIFICATE

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "Camerfirma Global Chambersign Root"

CKA\_CERTIFICATE\_TYPE CK\_CERTIFICATE\_TYPE CKC\_X\_509

CKA\_SUBJECT MULTILINE\_OCTAL

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

END

CKA\_ID UTF8 "0"

CKA\_ISSUER MULTILINE\_OCTAL

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

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

\002\001\000

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\004\305\060\202\003\255\240\003\002\001\002\002\001\000

\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060  
\175\061\013\060\011\006\003\125\004\006\023\002\105\125\061\047  
\060\045\006\003\125\004\012\023\036\101\103\040\103\141\155\145  
\162\146\151\162\155\141\040\123\101\040\103\111\106\040\101\070  
\062\067\064\063\062\070\067\061\043\060\041\006\003\125\004\013  
\023\032\150\164\164\160\072\057\057\167\167\167\056\143\150\141  
\155\142\145\162\163\151\147\156\056\157\162\147\061\040\060\036  
\006\003\125\004\003\023\027\107\154\157\142\141\154\040\103\150  
\141\155\142\145\162\163\151\147\156\040\122\157\157\164\060\036  
\027\015\060\063\060\071\063\060\061\066\061\064\061\070\132\027  
\015\063\067\060\071\063\060\061\066\061\064\061\070\132\060\175  
\061\013\060\011\006\003\125\004\006\023\002\105\125\061\047\060  
\045\006\003\125\004\012\023\036\101\103\040\103\141\155\145\162  
\146\151\162\155\141\040\123\101\040\103\111\106\040\101\070\062  
\067\064\063\062\070\067\061\043\060\041\006\003\125\004\013\023  
\032\150\164\164\160\072\057\057\167\167\167\056\143\150\141\155  
\142\145\162\163\151\147\156\056\157\162\147\061\040\060\036\006  
\003\125\004\003\023\027\107\154\157\142\141\154\040\103\150\141  
\155\142\145\162\163\151\147\156\040\122\157\157\164\060\202\001  
\040\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000  
\003\202\001\015\000\060\202\001\010\002\202\001\001\000\242\160  
\242\320\237\102\256\133\027\307\330\175\317\024\203\374\117\311  
\241\267\023\257\212\327\236\076\004\012\222\213\140\126\372\264  
\062\057\210\115\241\140\010\364\267\011\116\240\111\057\111\326  
\323\337\235\227\132\237\224\004\160\354\077\131\331\267\314\146  
\213\230\122\050\011\002\337\305\057\204\215\172\227\167\277\354  
\100\235\045\162\253\265\077\062\230\373\267\267\374\162\204\345  
\065\207\371\125\372\243\037\016\157\056\050\335\151\240\331\102  
\020\306\370\265\104\302\320\103\177\333\274\344\242\074\152\125  
\170\012\167\251\330\352\031\062\267\057\376\134\077\033\356\261  
\230\354\312\255\172\151\105\343\226\017\125\366\346\355\165\352  
\145\350\062\126\223\106\211\250\045\212\145\006\356\153\277\171  
\007\320\361\267\257\355\054\115\222\273\300\250\137\247\147\175  
\004\362\025\010\160\254\222\326\175\004\322\063\373\114\266\013  
\013\373\032\311\304\215\003\251\176\134\362\120\253\022\245\241  
\317\110\120\245\357\322\310\032\023\372\260\177\261\202\034\167  
\152\017\137\334\013\225\217\357\103\176\346\105\011\045\002\001  
\003\243\202\001\120\060\202\001\114\060\022\006\003\125\035\023  
\001\001\377\004\010\060\006\001\001\377\002\001\014\060\077\006  
\003\125\035\037\004\070\060\066\060\064\240\062\240\060\206\056  
\150\164\164\160\072\057\057\143\162\154\056\143\150\141\155\142  
\145\162\163\151\147\156\056\157\162\147\057\143\150\141\155\142  
\145\162\163\151\147\156\162\157\157\164\056\143\162\154\060\035  
\006\003\125\035\016\004\026\004\024\103\234\066\237\260\236\060  
\115\306\316\137\255\020\253\345\003\245\372\251\024\060\016\006  
\003\125\035\017\001\001\377\004\004\003\002\001\006\060\021\006  
\011\140\206\110\001\206\370\102\001\001\004\004\003\002\000\007  
\060\052\006\003\125\035\021\004\043\060\041\201\037\143\150\141

\155\142\145\162\163\151\147\156\162\157\157\164\100\143\150\141  
\155\142\145\162\163\151\147\156\056\157\162\147\060\052\006\003  
\125\035\022\004\043\060\041\201\037\143\150\141\155\142\145\162  
\163\151\147\156\162\157\157\164\100\143\150\141\155\142\145\162  
\163\151\147\156\056\157\162\147\060\133\006\003\125\035\040\004  
\124\060\122\060\120\006\013\053\006\001\004\001\201\207\056\012  
\001\001\060\101\060\077\006\010\053\006\001\005\005\007\002\001  
\026\063\150\164\164\160\072\057\057\143\160\163\056\143\150\141  
\155\142\145\162\163\151\147\156\056\157\162\147\057\143\160\163  
\057\143\150\141\155\142\145\162\163\151\147\156\162\157\157\164  
\056\150\164\155\154\060\015\006\011\052\206\110\206\367\015\001  
\001\005\005\000\003\202\001\001\000\074\073\160\221\371\004\124  
\047\221\341\355\355\376\150\177\141\135\345\101\145\117\062\361  
\030\005\224\152\034\336\037\160\333\076\173\062\002\064\265\014  
\154\241\212\174\245\364\217\377\324\330\255\027\325\055\004\321  
\077\130\200\342\201\131\210\276\300\343\106\223\044\376\220\275  
\046\242\060\055\350\227\046\127\065\211\164\226\030\366\025\342  
\257\044\031\126\002\002\262\272\017\024\352\306\212\146\301\206  
\105\125\213\276\222\276\234\244\004\307\111\074\236\350\051\172  
\211\327\376\257\377\150\365\245\027\220\275\254\231\314\245\206  
\127\011\147\106\333\326\026\302\106\361\344\251\120\365\217\321  
\222\025\323\137\076\306\000\111\072\156\130\262\321\321\047\015  
\045\310\062\370\040\021\315\175\062\063\110\224\124\114\335\334  
\171\304\060\237\353\216\270\125\265\327\210\134\305\152\044\075  
\262\323\005\003\121\306\007\357\314\024\162\164\075\156\162\316  
\030\050\214\112\240\167\345\011\053\105\104\107\254\267\147\177  
\001\212\005\132\223\276\241\301\377\370\347\016\147\244\107\111  
\166\135\165\220\032\365\046\217\360

END

CKA\_NSS\_MOZILLA\_CA\_POLICY CK\_BBOOL CK\_TRUE  
CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE  
# For Email Distrust After: Mon Mar 01 00:00:00 2021  
CKA\_NSS\_EMAIL\_DISTRICT\_AFTER MULTILINE\_OCTAL  
\062\061\060\063\060\061\060\060\060\060\060\060\132  
END

# Trust for "Camerfirma Global Chambersign Root"  
# Issuer: CN=Global Chambersign Root,OU=http://www.chambersign.org,O=AC Camerfirma SA CIF  
A82743287,C=EU  
# Serial Number: 0 (0x0)  
# Subject: CN=Global Chambersign Root,OU=http://www.chambersign.org,O=AC Camerfirma SA CIF  
A82743287,C=EU  
# Not Valid Before: Tue Sep 30 16:14:18 2003  
# Not Valid After : Wed Sep 30 16:14:18 2037  
# Fingerprint (SHA-256):  
EF:3C:B4:17:FC:8E:BF:6F:97:87:6C:9E:4E:CE:39:DE:1E:A5:FE:64:91:41:D1:02:8B:7D:11:C0:B2:29:8C:ED  
# Fingerprint (SHA1): 33:9B:6B:14:50:24:9B:55:7A:01:87:72:84:D9:E0:2F:C3:D2:D8:E9  
CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

```

CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Camerfirma Global Chambersign Root"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\063\233\153\024\120\044\233\125\172\001\207\162\204\331\340\057
\303\322\330\351
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\305\346\173\277\006\320\117\103\355\304\172\145\212\373\153\031
END
CKA_ISSUER MULTILINE_OCTAL
\060\175\061\013\060\011\006\003\125\004\006\023\002\105\125\061
\047\060\045\006\003\125\004\012\023\036\101\103\040\103\141\155
\145\162\146\151\162\155\141\040\123\101\040\103\111\106\040\101
\070\062\067\064\063\062\070\067\061\043\060\041\006\003\125\004
\013\023\032\150\164\164\160\072\057\057\167\167\167\056\143\150
\141\155\142\145\162\163\151\147\156\056\157\162\147\061\040\060
\036\006\003\125\004\003\023\027\107\154\157\142\141\154\040\103
\150\141\155\142\145\162\163\151\147\156\040\122\157\157\164
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "XRamp Global CA Root"
#
Issuer: CN=XRamp Global Certification Authority,O=XRamp Security Services
Inc,OU=www.xrampsecurity.com,C=US
Serial Number:50:94:6c:ec:18:ea:d5:9c:4d:d5:97:ef:75:8f:a0:ad
Subject: CN=XRamp Global Certification Authority,O=XRamp Security Services
Inc,OU=www.xrampsecurity.com,C=US
Not Valid Before: Mon Nov 01 17:14:04 2004
Not Valid After : Mon Jan 01 05:37:19 2035
Fingerprint (SHA-256):
CE:CD:DC:90:50:99:D8:DA:DF:C5:B1:D2:09:B7:37:CB:E2:C1:8C:FB:2C:10:C0:FF:0B:CF:0D:32:86:FC:1A:A2
Fingerprint (SHA1): B8:01:86:D1:EB:9C:86:A5:41:04:CF:30:54:F3:4C:52:B7:E5:58:C6
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "XRamp Global CA Root"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

```

CKA\_SUBJECT MULTILINE\_OCTAL

\060\201\202\061\013\060\011\006\003\125\004\006\023\002\125\123  
\061\036\060\034\006\003\125\004\013\023\025\167\167\167\056\170  
\162\141\155\160\163\145\143\165\162\151\164\171\056\143\157\155  
\061\044\060\042\006\003\125\004\012\023\033\130\122\141\155\160  
\040\123\145\143\165\162\151\164\171\040\123\145\162\166\151\143  
\145\163\040\111\156\143\061\055\060\053\006\003\125\004\003\023  
\044\130\122\141\155\160\040\107\154\157\142\141\154\040\103\145  
\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150  
\157\162\151\164\171

END

CKA\_ID UTF8 "0"

CKA\_ISSUER MULTILINE\_OCTAL

\060\201\202\061\013\060\011\006\003\125\004\006\023\002\125\123  
\061\036\060\034\006\003\125\004\013\023\025\167\167\167\056\170  
\162\141\155\160\163\145\143\165\162\151\164\171\056\143\157\155  
\061\044\060\042\006\003\125\004\012\023\033\130\122\141\155\160  
\040\123\145\143\165\162\151\164\171\040\123\145\162\166\151\143  
\145\163\040\111\156\143\061\055\060\053\006\003\125\004\003\023  
\044\130\122\141\155\160\040\107\154\157\142\141\154\040\103\145  
\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150  
\157\162\151\164\171

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

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

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\004\060\060\202\003\030\240\003\002\001\002\002\020\120  
\224\154\354\030\352\325\234\115\325\227\357\165\217\240\255\060  
\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060\201  
\202\061\013\060\011\006\003\125\004\006\023\002\125\123\061\036  
\060\034\006\003\125\004\013\023\025\167\167\167\056\170\162\141  
\155\160\163\145\143\165\162\151\164\171\056\143\157\155\061\044  
\060\042\006\003\125\004\012\023\033\130\122\141\155\160\040\123  
\145\143\165\162\151\164\171\040\123\145\162\166\151\143\145\163  
\040\111\156\143\061\055\060\053\006\003\125\004\003\023\044\130  
\122\141\155\160\040\107\154\157\142\141\154\040\103\145\162\164  
\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162  
\151\164\171\060\036\027\015\060\064\061\061\060\061\061\067\061  
\064\060\064\132\027\015\063\065\060\061\060\061\060\065\063\067  
\061\071\132\060\201\202\061\013\060\011\006\003\125\004\006\023  
\002\125\123\061\036\060\034\006\003\125\004\013\023\025\167\167  
\167\056\170\162\141\155\160\163\145\143\165\162\151\164\171\056  
\143\157\155\061\044\060\042\006\003\125\004\012\023\033\130\122  
\141\155\160\040\123\145\143\165\162\151\164\171\040\123\145\162  
\166\151\143\145\163\040\111\156\143\061\055\060\053\006\003\125  
\004\003\023\044\130\122\141\155\160\040\107\154\157\142\141\154



\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101  
\165\164\150\157\162\151\164\171\060\202\001\042\060\015\006\011  
\052\206\110\206\367\015\001\001\001\005\000\003\202\001\017\000  
\060\202\001\012\002\202\001\001\000\230\044\036\275\025\264\272  
\337\307\214\245\047\266\070\013\151\363\266\116\250\054\056\041  
\035\134\104\337\041\135\176\043\164\376\136\176\264\112\267\246  
\255\037\256\340\006\026\342\233\133\331\147\164\153\135\200\217  
\051\235\206\033\331\234\015\230\155\166\020\050\130\344\145\260  
\177\112\230\171\237\340\303\061\176\200\053\265\214\300\100\073  
\021\206\320\313\242\206\066\140\244\325\060\202\155\331\156\320  
\017\022\004\063\227\137\117\141\132\360\344\371\221\253\347\035  
\073\274\350\317\364\153\055\064\174\342\110\141\034\216\363\141  
\104\314\157\240\112\251\224\260\115\332\347\251\064\172\162\070  
\250\101\314\074\224\021\175\353\310\246\214\267\206\313\312\063  
\073\331\075\067\213\373\172\076\206\054\347\163\327\012\127\254  
\144\233\031\353\364\017\004\010\212\254\003\027\031\144\364\132  
\045\042\215\064\054\262\366\150\035\022\155\323\212\036\024\332  
\304\217\246\342\043\205\325\172\015\275\152\340\351\354\354\027  
\273\102\033\147\252\045\355\105\203\041\374\301\311\174\325\142  
\076\372\362\305\055\323\375\324\145\002\003\001\000\001\243\201  
\237\060\201\234\060\023\006\011\053\006\001\004\001\202\067\024  
\002\004\006\036\004\000\103\000\101\060\013\006\003\125\035\017  
\004\004\003\002\001\206\060\017\006\003\125\035\023\001\001\377  
\004\005\060\003\001\001\377\060\035\006\003\125\035\016\004\026  
\004\024\306\117\242\075\006\143\204\011\234\316\142\344\004\254  
\215\134\265\351\266\033\060\066\006\003\125\035\037\004\057\060  
\055\060\053\240\051\240\047\206\045\150\164\164\160\072\057\057  
\143\162\154\056\170\162\141\155\160\163\145\143\165\162\151\164  
\171\056\143\157\155\057\130\107\103\101\056\143\162\154\060\020  
\006\011\053\006\001\004\001\202\067\025\001\004\003\002\001\001  
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\003  
\202\001\001\000\221\025\071\003\001\033\147\373\112\034\371\012  
\140\133\241\332\115\227\142\371\044\123\047\327\202\144\116\220  
\056\303\111\033\053\232\334\374\250\170\147\065\361\035\360\021  
\275\267\110\343\020\366\015\337\077\322\311\266\252\125\244\110  
\272\002\333\336\131\056\025\133\073\235\026\175\107\327\067\352  
\137\115\166\022\066\273\037\327\241\201\004\106\040\243\054\155  
\251\236\001\176\077\051\316\000\223\337\375\311\222\163\211\211  
\144\236\347\053\344\034\221\054\322\271\316\175\316\157\061\231  
\323\346\276\322\036\220\360\011\024\171\134\043\253\115\322\332  
\041\037\115\231\171\235\341\317\047\237\020\233\034\210\015\260  
\212\144\101\061\270\016\154\220\044\244\233\134\161\217\272\273  
\176\034\033\333\152\200\017\041\274\351\333\246\267\100\364\262  
\213\251\261\344\357\232\032\320\075\151\231\356\250\050\243\341  
\074\263\360\262\021\234\317\174\100\346\335\347\103\175\242\330  
\072\265\251\215\362\064\231\304\324\020\341\006\375\011\204\020  
\073\356\304\114\364\354\047\174\102\302\164\174\202\212\011\311  
\264\003\045\274

```

END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRICT_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRICT_AFTER CK_BBOOL CK_FALSE

Trust for "XRamp Global CA Root"
Issuer: CN=XRamp Global Certification Authority,O=XRamp Security Services
Inc,OU=www.xrampsecurity.com,C=US
Serial Number:50:94:6c:ec:18:ea:d5:9c:4d:d5:97:ef:75:8f:a0:ad
Subject: CN=XRamp Global Certification Authority,O=XRamp Security Services
Inc,OU=www.xrampsecurity.com,C=US
Not Valid Before: Mon Nov 01 17:14:04 2004
Not Valid After : Mon Jan 01 05:37:19 2035
Fingerprint (SHA-256):
CE:CD:DC:90:50:99:D8:DA:DF:C5:B1:D2:09:B7:37:CB:E2:C1:8C:FB:2C:10:C0:FF:0B:CF:0D:32:86:FC:1A:A2
Fingerprint (SHA1): B8:01:86:D1:EB:9C:86:A5:41:04:CF:30:54:F3:4C:52:B7:E5:58:C6
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "XRamp Global CA Root"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\270\001\206\321\353\234\206\245\101\004\317\060\124\363\114\122
\267\345\130\306
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\241\013\104\263\312\020\330\000\156\235\017\330\017\222\012\321
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\202\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\036\060\034\006\003\125\004\013\023\025\167\167\167\056\170
\162\141\155\160\163\145\143\165\162\151\164\171\056\143\157\155
\061\044\060\042\006\003\125\004\012\023\033\130\122\141\155\160
\040\123\145\143\165\162\151\164\171\040\123\145\162\166\151\143
\145\163\040\111\156\143\061\055\060\053\006\003\125\004\003\023
\044\130\122\141\155\160\040\107\154\157\142\141\154\040\103\145
\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150
\157\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\120\224\154\354\030\352\325\234\115\325\227\357\165\217
\240\255
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

```

```
#
Certificate "Go Daddy Class 2 CA"
#
Issuer: OU=Go Daddy Class 2 Certification Authority,O="The Go Daddy Group, Inc.",C=US
Serial Number: 0 (0x0)
Subject: OU=Go Daddy Class 2 Certification Authority,O="The Go Daddy Group, Inc.",C=US
Not Valid Before: Tue Jun 29 17:06:20 2004
Not Valid After : Thu Jun 29 17:06:20 2034
Fingerprint (SHA-256):
C3:84:6B:F2:4B:9E:93:CA:64:27:4C:0E:C6:7C:1E:CC:5E:02:4F:FC:AC:D2:D7:40:19:35:0E:81:FE:54:6A:E4
Fingerprint (SHA1): 27:96:BA:E6:3F:18:01:E2:77:26:1B:A0:D7:77:70:02:8F:20:EE:E4
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Go Daddy Class 2 CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\143\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\041\060\037\006\003\125\004\012\023\030\124\150\145\040\107\157
\040\104\141\144\144\171\040\107\162\157\165\160\054\040\111\156
\143\056\061\061\060\057\006\003\125\004\013\023\050\107\157\040
\104\141\144\144\171\040\103\154\141\163\163\040\062\040\103\145
\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150
\157\162\151\164\171
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\143\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\041\060\037\006\003\125\004\012\023\030\124\150\145\040\107\157
\040\104\141\144\144\171\040\107\162\157\165\160\054\040\111\156
\143\056\061\061\060\057\006\003\125\004\013\023\050\107\157\040
\104\141\144\144\171\040\103\154\141\163\163\040\062\040\103\145
\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150
\157\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\000\060\202\002\350\240\003\002\001\002\002\001\000
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060
\143\061\013\060\011\006\003\125\004\006\023\002\125\123\061\041
\060\037\006\003\125\004\012\023\030\124\150\145\040\107\157\040
\104\141\144\144\171\040\107\162\157\165\160\054\040\111\156\143
\056\061\061\060\057\006\003\125\004\013\023\050\107\157\040\104
\141\144\144\171\040\103\154\141\163\163\040\062\040\103\145\162
\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157
```

\162\151\164\171\060\036\027\015\060\064\060\066\062\071\061\067  
\060\066\062\060\132\027\015\063\064\060\066\062\071\061\067\060  
\066\062\060\132\060\143\061\013\060\011\006\003\125\004\006\023  
\002\125\123\061\041\060\037\006\003\125\004\012\023\030\124\150  
\145\040\107\157\040\104\141\144\144\171\040\107\162\157\165\160  
\054\040\111\156\143\056\061\061\060\057\006\003\125\004\013\023  
\050\107\157\040\104\141\144\144\171\040\103\154\141\163\163\040  
\062\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040  
\101\165\164\150\157\162\151\164\171\060\202\001\040\060\015\006  
\011\052\206\110\206\367\015\001\001\001\005\000\003\202\001\015  
\000\060\202\001\010\002\202\001\001\000\336\235\327\352\127\030  
\111\241\133\353\327\137\110\206\352\276\335\377\344\357\147\034  
\364\145\150\263\127\161\240\136\167\273\355\233\111\351\160\200  
\075\126\030\143\010\157\332\362\314\320\077\177\002\124\042\124  
\020\330\262\201\324\300\165\075\113\177\307\167\303\076\170\253  
\032\003\265\040\153\057\152\053\261\305\210\176\304\273\036\260  
\301\330\105\047\157\252\067\130\367\207\046\327\330\055\366\251  
\027\267\037\162\066\116\246\027\077\145\230\222\333\052\156\135  
\242\376\210\340\013\336\177\345\215\025\341\353\313\072\325\342  
\022\242\023\055\330\216\257\137\022\075\240\010\005\010\266\134  
\245\145\070\004\105\231\036\243\140\140\164\305\101\245\162\142  
\033\142\305\037\157\137\032\102\276\002\121\145\250\256\043\030  
\152\374\170\003\251\115\177\200\303\372\253\132\374\241\100\244  
\312\031\026\376\262\310\357\136\163\015\356\167\275\232\366\171  
\230\274\261\007\147\242\025\015\335\240\130\306\104\173\012\076  
\142\050\137\272\101\007\123\130\317\021\176\070\164\305\370\377  
\265\151\220\217\204\164\352\227\033\257\002\001\003\243\201\300  
\060\201\275\060\035\006\003\125\035\016\004\026\004\024\322\304  
\260\322\221\324\114\021\161\263\141\313\075\241\376\335\250\152  
\324\343\060\201\215\006\003\125\035\043\004\201\205\060\201\202  
\200\024\322\304\260\322\221\324\114\021\161\263\141\313\075\241  
\376\335\250\152\324\343\241\147\244\145\060\143\061\013\060\011  
\006\003\125\004\006\023\002\125\123\061\041\060\037\006\003\125  
\004\012\023\030\124\150\145\040\107\157\040\104\141\144\144\171  
\040\107\162\157\165\160\054\040\111\156\143\056\061\061\060\057  
\006\003\125\004\013\023\050\107\157\040\104\141\144\144\171\040  
\103\154\141\163\163\040\062\040\103\145\162\164\151\146\151\143  
\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171\202  
\001\000\060\014\006\003\125\035\023\004\005\060\003\001\001\377  
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\003  
\202\001\001\000\062\113\363\262\312\076\221\374\022\306\241\007  
\214\216\167\240\063\006\024\134\220\036\030\367\010\246\075\012  
\031\371\207\200\021\156\151\344\226\027\060\377\064\221\143\162  
\070\356\314\034\001\243\035\224\050\244\061\366\172\304\124\327  
\366\345\061\130\003\242\314\316\142\333\224\105\163\265\277\105  
\311\044\265\325\202\002\255\043\171\151\215\270\266\115\316\317  
\114\312\063\043\350\034\210\252\235\213\101\156\026\311\040\345  
\211\236\315\073\332\160\367\176\231\046\040\024\124\045\253\156

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

END

CKA\_NSS\_MOZILLA\_CA\_POLICY CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "Go Daddy Class 2 CA"

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

# Serial Number: 0 (0x0)

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

# Not Valid Before: Tue Jun 29 17:06:20 2004

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

# Fingerprint (SHA-256):

C3:84:6B:F2:4B:9E:93:CA:64:27:4C:0E:C6:7C:1E:CC:5E:02:4F:FC:AC:D2:D7:40:19:35:0E:81:FE:54:6A:E4

# Fingerprint (SHA1): 27:96:BA:E6:3F:18:01:E2:77:26:1B:A0:D7:77:70:02:8F:20:EE:E4

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "Go Daddy Class 2 CA"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

```
\047\226\272\346\077\030\001\342\167\046\033\240\327\167\160\002
\217\040\356\344
```

END

CKA\_CERT\_MD5\_HASH MULTILINE\_OCTAL

```
\221\336\006\045\253\332\375\062\027\014\273\045\027\052\204\147
END
```

CKA\_ISSUER MULTILINE\_OCTAL

```
\060\143\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\041\060\037\006\003\125\004\012\023\030\124\150\145\040\107\157
\040\104\141\144\144\171\040\107\162\157\165\160\054\040\111\156
\143\056\061\061\060\057\006\003\125\004\013\023\050\107\157\040
\104\141\144\144\171\040\103\154\141\163\163\040\062\040\103\145
\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150
\157\162\151\164\171
```

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

```
\002\001\000
```

END

CKA\_TRUST\_SERVER\_AUTH CK\_TRUST CKT\_NSS\_TRUSTED\_DELEGATOR

```

CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Starfield Class 2 CA"
#
Issuer: OU=Starfield Class 2 Certification Authority,O="Starfield Technologies, Inc.",C=US
Serial Number: 0 (0x0)
Subject: OU=Starfield Class 2 Certification Authority,O="Starfield Technologies, Inc.",C=US
Not Valid Before: Tue Jun 29 17:39:16 2004
Not Valid After : Thu Jun 29 17:39:16 2034
Fingerprint (SHA-256):
14:65:FA:20:53:97:B8:76:FA:A6:F0:A9:95:8E:55:90:E4:0F:CC:7F:AA:4F:B7:C2:C8:67:75:21:FB:5F:B6:58
Fingerprint (SHA1): AD:7E:1C:28:B0:64:EF:8F:60:03:40:20:14:C3:D0:E3:37:0E:B5:8A
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Starfield Class 2 CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\150\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\045\060\043\006\003\125\004\012\023\034\123\164\141\162\146\151
\145\154\144\040\124\145\143\150\156\157\154\157\147\151\145\163
\054\040\111\156\143\056\061\062\060\060\006\003\125\004\013\023
\051\123\164\141\162\146\151\145\154\144\040\103\154\141\163\163
\040\062\040\103\145\162\164\151\146\151\143\141\164\151\157\156
\040\101\165\164\150\157\162\151\164\171
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\150\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\045\060\043\006\003\125\004\012\023\034\123\164\141\162\146\151
\145\154\144\040\124\145\143\150\156\157\154\157\147\151\145\163
\054\040\111\156\143\056\061\062\060\060\006\003\125\004\013\023
\051\123\164\141\162\146\151\145\154\144\040\103\154\141\163\163
\040\062\040\103\145\162\164\151\146\151\143\141\164\151\157\156
\040\101\165\164\150\157\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\017\060\202\002\367\240\003\002\001\002\002\001\000
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060
\150\061\013\060\011\006\003\125\004\006\023\002\125\123\061\045
\060\043\006\003\125\004\012\023\034\123\164\141\162\146\151\145

```

\154\144\040\124\145\143\150\156\157\154\157\147\151\145\163\054  
\040\111\156\143\056\061\062\060\060\006\003\125\004\013\023\051  
\123\164\141\162\146\151\145\154\144\040\103\154\141\163\163\040  
\062\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040  
\101\165\164\150\157\162\151\164\171\060\036\027\015\060\064\060  
\066\062\071\061\067\063\071\061\066\132\027\015\063\064\060\066  
\062\071\061\067\063\071\061\066\132\060\150\061\013\060\011\006  
\003\125\004\006\023\002\125\123\061\045\060\043\006\003\125\004  
\012\023\034\123\164\141\162\146\151\145\154\144\040\124\145\143  
\150\156\157\154\157\147\151\145\163\054\040\111\156\143\056\061  
\062\060\060\006\003\125\004\013\023\051\123\164\141\162\146\151  
\145\154\144\040\103\154\141\163\163\040\062\040\103\145\162\164  
\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162  
\151\164\171\060\202\001\040\060\015\006\011\052\206\110\206\367  
\015\001\001\001\005\000\003\202\001\015\000\060\202\001\010\002  
\202\001\001\000\267\062\310\376\351\161\246\004\205\255\014\021  
\144\337\316\115\357\310\003\030\207\077\241\253\373\074\246\237  
\360\303\241\332\324\330\156\053\123\220\373\044\244\076\204\360  
\236\350\137\354\345\047\104\365\050\246\077\173\336\340\052\360  
\310\257\123\057\236\312\005\001\223\036\217\146\034\071\247\115  
\372\132\266\163\004\045\146\353\167\177\347\131\306\112\231\045  
\024\124\353\046\307\363\177\031\325\060\160\217\257\260\106\052  
\377\255\353\051\355\327\237\252\004\207\243\324\371\211\245\064  
\137\333\103\221\202\066\331\146\074\261\270\271\202\375\234\072  
\076\020\310\073\357\006\145\146\172\233\031\030\075\377\161\121  
\074\060\056\137\276\075\167\163\262\135\006\154\303\043\126\232  
\053\205\046\222\034\247\002\263\344\077\015\257\010\171\202\270  
\066\075\352\234\323\065\263\274\151\312\365\314\235\350\375\144  
\215\027\200\063\156\136\112\135\231\311\036\207\264\235\032\300  
\325\156\023\065\043\136\337\233\137\075\357\326\367\166\302\352  
\076\273\170\015\034\102\147\153\004\330\370\326\332\157\213\362  
\104\240\001\253\002\001\003\243\201\305\060\201\302\060\035\006  
\003\125\035\016\004\026\004\024\277\137\267\321\316\335\037\206  
\364\133\125\254\334\327\020\302\016\251\210\347\060\201\222\006  
\003\125\035\043\004\201\212\060\201\207\200\024\277\137\267\321  
\316\335\037\206\364\133\125\254\334\327\020\302\016\251\210\347  
\241\154\244\152\060\150\061\013\060\011\006\003\125\004\006\023  
\002\125\123\061\045\060\043\006\003\125\004\012\023\034\123\164  
\141\162\146\151\145\154\144\040\124\145\143\150\156\157\154\157  
\147\151\145\163\054\040\111\156\143\056\061\062\060\060\006\003  
\125\004\013\023\051\123\164\141\162\146\151\145\154\144\040\103  
\154\141\163\163\040\062\040\103\145\162\164\151\146\151\143\141  
\164\151\157\156\040\101\165\164\150\157\162\151\164\171\202\001  
\000\060\014\006\003\125\035\023\004\005\060\003\001\001\377\060  
\015\006\011\052\206\110\206\367\015\001\001\005\005\000\003\202  
\001\001\000\005\235\077\210\235\321\311\032\125\241\254\151\363  
\363\131\332\233\001\207\032\117\127\251\241\171\011\052\333\367  
\057\262\036\314\307\136\152\330\203\207\241\227\357\111\065\076

```
\167\006\101\130\142\277\216\130\270\012\147\077\354\263\335\041
\146\037\311\124\372\162\314\075\114\100\330\201\257\167\236\203
\172\273\242\307\365\064\027\216\331\021\100\364\374\054\052\115
\025\177\247\142\135\056\045\323\000\013\040\032\035\150\371\027
\270\364\275\213\355\050\131\335\115\026\213\027\203\310\262\145
\307\055\172\245\252\274\123\206\155\335\127\244\312\370\040\101
\013\150\360\364\373\164\276\126\135\172\171\365\371\035\205\343
\055\225\276\365\161\220\103\314\215\037\232\000\012\207\051\351
\125\042\130\000\043\352\343\022\103\051\133\107\010\335\214\101
\152\145\006\250\345\041\252\101\264\225\041\225\271\175\321\064
\253\023\326\255\274\334\342\075\071\315\275\076\165\160\241\030
\131\003\311\042\264\217\234\325\136\052\327\245\266\324\012\155
\370\267\100\021\106\232\037\171\016\142\277\017\227\354\340\057
\037\027\224
```

END

```
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRICT_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRICT_AFTER CK_BBOOL CK_FALSE
```

```
Trust for "Starfield Class 2 CA"
```

```
Issuer: OU=Starfield Class 2 Certification Authority,O="Starfield Technologies, Inc.",C=US
```

```
Serial Number: 0 (0x0)
```

```
Subject: OU=Starfield Class 2 Certification Authority,O="Starfield Technologies, Inc.",C=US
```

```
Not Valid Before: Tue Jun 29 17:39:16 2004
```

```
Not Valid After : Thu Jun 29 17:39:16 2034
```

```
Fingerprint (SHA-256):
```

```
14:65:FA:20:53:97:B8:76:FA:A6:F0:A9:95:8E:55:90:E4:0F:CC:7F:AA:4F:B7:C2:C8:67:75:21:FB:5F:B6:58
```

```
Fingerprint (SHA1): AD:7E:1C:28:B0:64:EF:8F:60:03:40:20:14:C3:D0:E3:37:0E:B5:8A
```

```
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
```

```
CKA_TOKEN CK_BBOOL CK_TRUE
```

```
CKA_PRIVATE CK_BBOOL CK_FALSE
```

```
CKA_MODIFIABLE CK_BBOOL CK_FALSE
```

```
CKA_LABEL UTF8 "Starfield Class 2 CA"
```

```
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
```

```
\255\176\034\050\260\144\357\217\140\003\100\040\024\303\320\343
\067\016\265\212
```

END

```
CKA_CERT_MD5_HASH MULTILINE_OCTAL
```

```
\062\112\113\273\310\143\151\233\276\164\232\306\335\035\106\044
```

END

```
CKA_ISSUER MULTILINE_OCTAL
```

```
\060\150\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\045\060\043\006\003\125\004\012\023\034\123\164\141\162\146\151
\145\154\144\040\124\145\143\150\156\157\154\157\147\151\145\163
\054\040\111\156\143\056\061\062\060\060\006\003\125\004\013\023
\051\123\164\141\162\146\151\145\154\144\040\103\154\141\163\163
\040\062\040\103\145\162\164\151\146\151\143\141\164\151\157\156
\040\101\165\164\150\157\162\151\164\171
```



```

END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "DigiCert Assured ID Root CA"
#
Issuer: CN=DigiCert Assured ID Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
Serial Number:0c:e7:e0:e5:17:d8:46:fe:8f:e5:60:fc:1b:f0:30:39
Subject: CN=DigiCert Assured ID Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
Not Valid Before: Fri Nov 10 00:00:00 2006
Not Valid After : Mon Nov 10 00:00:00 2031
Fingerprint (SHA-256):
3E:90:99:B5:01:5E:8F:48:6C:00:BC:EA:9D:11:1E:E7:21:FA:BA:35:5A:89:BC:F1:DF:69:56:1E:3D:C6:32:5C
Fingerprint (SHA1): 05:63:B8:63:0D:62:D7:5A:BB:C8:AB:1E:4B:DF:B5:A8:99:B2:4D:43
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Assured ID Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\145\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\044\060\042\006\003\125\004\003\023\033\104\151\147\151
\103\145\162\164\040\101\163\163\165\162\145\144\040\111\104\040
\122\157\157\164\040\103\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\145\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\044\060\042\006\003\125\004\003\023\033\104\151\147\151
\103\145\162\164\040\101\163\163\165\162\145\144\040\111\104\040
\122\157\157\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\014\347\340\345\027\330\106\376\217\345\140\374\033\360
\060\071

```

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\003\267\060\202\002\237\240\003\002\001\002\002\020\014  
\347\340\345\027\330\106\376\217\345\140\374\033\360\060\071\060  
\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060\145  
\061\013\060\011\006\003\125\004\006\023\002\125\123\061\025\060  
\023\006\003\125\004\012\023\014\104\151\147\151\103\145\162\164  
\040\111\156\143\061\031\060\027\006\003\125\004\013\023\020\167  
\167\167\056\144\151\147\151\143\145\162\164\056\143\157\155\061  
\044\060\042\006\003\125\004\003\023\033\104\151\147\151\103\145  
\162\164\040\101\163\163\165\162\145\144\040\111\104\040\122\157  
\157\164\040\103\101\060\036\027\015\060\066\061\061\061\060\060  
\060\060\060\060\060\132\027\015\063\061\061\061\061\060\060\060  
\060\060\060\060\132\060\145\061\013\060\011\006\003\125\004\006  
\023\002\125\123\061\025\060\023\006\003\125\004\012\023\014\104  
\151\147\151\103\145\162\164\040\111\156\143\061\031\060\027\006  
\003\125\004\013\023\020\167\167\167\056\144\151\147\151\143\145  
\162\164\056\143\157\155\061\044\060\042\006\003\125\004\003\023  
\033\104\151\147\151\103\145\162\164\040\101\163\163\165\162\145  
\144\040\111\104\040\122\157\157\164\040\103\101\060\202\001\042  
\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003  
\202\001\017\000\060\202\001\012\002\202\001\001\000\255\016\025  
\316\344\103\200\134\261\207\363\267\140\371\161\022\245\256\334  
\046\224\210\252\364\316\365\040\071\050\130\140\014\370\200\332  
\251\025\225\062\141\074\265\261\050\204\212\212\334\237\012\014  
\203\027\172\217\220\254\212\347\171\123\134\061\204\052\366\017  
\230\062\066\166\314\336\335\074\250\242\357\152\373\041\362\122  
\141\337\237\040\327\037\342\261\331\376\030\144\322\022\133\137  
\371\130\030\065\274\107\315\241\066\371\153\177\324\260\070\076  
\301\033\303\214\063\331\330\057\030\376\050\017\263\247\203\326  
\303\156\104\300\141\065\226\026\376\131\234\213\166\155\327\361  
\242\113\015\053\377\013\162\332\236\140\320\216\220\065\306\170  
\125\207\040\241\317\345\155\012\310\111\174\061\230\063\154\042  
\351\207\320\062\132\242\272\023\202\021\355\071\027\235\231\072  
\162\241\346\372\244\331\325\027\061\165\256\205\175\042\256\077  
\001\106\206\366\050\171\310\261\332\344\127\027\304\176\034\016  
\260\264\222\246\126\263\275\262\227\355\252\247\360\267\305\250  
\077\225\026\320\377\241\226\353\010\137\030\167\117\002\003\001  
\000\001\243\143\060\141\060\016\006\003\125\035\017\001\001\377  
\004\004\003\002\001\206\060\017\006\003\125\035\023\001\001\377  
\004\005\060\003\001\001\377\060\035\006\003\125\035\016\004\026  
\004\024\105\353\242\257\364\222\313\202\061\055\121\213\247\247  
\041\235\363\155\310\017\060\037\006\003\125\035\043\004\030\060  
\026\200\024\105\353\242\257\364\222\313\202\061\055\121\213\247  
\247\041\235\363\155\310\017\060\015\006\011\052\206\110\206\367  
\015\001\001\005\005\000\003\202\001\001\000\242\016\274\337\342  
\355\360\343\162\163\172\144\224\277\367\162\146\330\062\344\102  
\165\142\256\207\353\362\325\331\336\126\263\237\314\316\024\050

```
\271\015\227\140\134\022\114\130\344\323\075\203\111\105\130\227
\065\151\032\250\107\352\126\306\171\253\022\330\147\201\204\337
\177\011\074\224\346\270\046\054\040\275\075\263\050\211\367\137
\377\042\342\227\204\037\351\145\357\207\340\337\301\147\111\263
\135\353\262\011\052\353\046\355\170\276\175\077\053\363\267\046
\065\155\137\211\001\266\111\133\237\001\005\233\253\075\045\301
\314\266\177\302\361\157\206\306\372\144\150\353\201\055\224\353
\102\267\372\214\036\335\142\361\276\120\147\267\154\275\363\361
\037\153\014\066\007\026\177\067\174\251\133\155\172\361\022\106
\140\203\327\047\004\276\113\316\227\276\303\147\052\150\021\337
\200\347\014\063\146\277\023\015\024\156\363\177\037\143\020\036
\372\215\033\045\155\154\217\245\267\141\001\261\322\243\046\241
\020\161\235\255\342\303\371\303\231\121\267\053\007\010\316\056
\346\120\262\247\372\012\105\057\242\360\362
```

END

```
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRICT_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRICT_AFTER CK_BBOOL CK_FALSE
```

```
Trust for "DigiCert Assured ID Root CA"
```

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

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

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

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

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

```
Fingerprint (SHA-256):
```

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

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

```
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
```

```
CKA_TOKEN CK_BBOOL CK_TRUE
```

```
CKA_PRIVATE CK_BBOOL CK_FALSE
```

```
CKA_MODIFIABLE CK_BBOOL CK_FALSE
```

```
CKA_LABEL UTF8 "DigiCert Assured ID Root CA"
```

```
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
```

```
\005\143\270\143\015\142\327\132\273\310\253\036\113\337\265\250
\231\262\115\103
```

END

```
CKA_CERT_MD5_HASH MULTILINE_OCTAL
```

```
\207\316\013\173\052\016\111\000\341\130\161\233\067\250\223\162
END
```

```
CKA_ISSUER MULTILINE_OCTAL
```

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

```

END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\014\347\340\345\027\330\106\376\217\345\140\374\033\360
\060\071
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "DigiCert Global Root CA"
#
Issuer: CN=DigiCert Global Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
Serial Number:08:3b:e0:56:90:42:46:b1:a1:75:6a:c9:59:91:c7:4a
Subject: CN=DigiCert Global Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
Not Valid Before: Fri Nov 10 00:00:00 2006
Not Valid After : Mon Nov 10 00:00:00 2031
Fingerprint (SHA-256):
43:48:A0:E9:44:4C:78:CB:26:5E:05:8D:5E:89:44:B4:D8:4F:96:62:BD:26:DB:25:7F:89:34:A4:43:C7:01:61
Fingerprint (SHA1): A8:98:5D:3A:65:E5:E5:C4:B2:D7:D6:6D:40:C6:DD:2F:B1:9C:54:36
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Global Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\141\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\040\060\036\006\003\125\004\003\023\027\104\151\147\151
\103\145\162\164\040\107\154\157\142\141\154\040\122\157\157\164
\040\103\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\141\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\040\060\036\006\003\125\004\003\023\027\104\151\147\151
\103\145\162\164\040\107\154\157\142\141\154\040\122\157\157\164
\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\010\073\340\126\220\102\106\261\241\165\152\311\131\221

```

\307\112

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\003\257\060\202\002\227\240\003\002\001\002\002\020\010  
\073\340\126\220\102\106\261\241\165\152\311\131\221\307\112\060  
\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060\141  
\061\013\060\011\006\003\125\004\006\023\002\125\123\061\025\060  
\023\006\003\125\004\012\023\014\104\151\147\151\103\145\162\164  
\040\111\156\143\061\031\060\027\006\003\125\004\013\023\020\167  
\167\167\056\144\151\147\151\143\145\162\164\056\143\157\155\061  
\040\060\036\006\003\125\004\003\023\027\104\151\147\151\103\145  
\162\164\040\107\154\157\142\141\154\040\122\157\157\164\040\103  
\101\060\036\027\015\060\066\061\061\061\060\060\060\060\060\060  
\060\132\027\015\063\061\061\061\061\060\060\060\060\060\060  
\132\060\141\061\013\060\011\006\003\125\004\006\023\002\125\123  
\061\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103  
\145\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013  
\023\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143  
\157\155\061\040\060\036\006\003\125\004\003\023\027\104\151\147  
\151\103\145\162\164\040\107\154\157\142\141\154\040\122\157\157  
\164\040\103\101\060\202\001\042\060\015\006\011\052\206\110\206  
\367\015\001\001\001\005\000\003\202\001\017\000\060\202\001\012  
\002\202\001\001\000\342\073\341\021\162\336\250\244\323\243\127  
\252\120\242\217\013\167\220\311\242\245\356\022\316\226\133\001  
\011\040\314\001\223\247\116\060\267\123\367\103\304\151\000\127  
\235\342\215\042\335\207\006\100\000\201\011\316\316\033\203\277  
\337\315\073\161\106\342\326\146\307\005\263\166\047\026\217\173  
\236\036\225\175\356\267\110\243\010\332\326\257\172\014\071\006  
\145\177\112\135\037\274\027\370\253\276\356\050\327\164\177\172  
\170\231\131\205\150\156\134\043\062\113\277\116\300\350\132\155  
\343\160\277\167\020\277\374\001\366\205\331\250\104\020\130\062  
\251\165\030\325\321\242\276\107\342\047\152\364\232\063\370\111  
\010\140\213\324\137\264\072\204\277\241\252\112\114\175\076\317  
\117\137\154\166\136\240\113\067\221\236\334\042\346\155\316\024  
\032\216\152\313\376\315\263\024\144\027\307\133\051\236\062\277  
\362\356\372\323\013\102\324\253\267\101\062\332\014\324\357\370  
\201\325\273\215\130\077\265\033\350\111\050\242\160\332\061\004  
\335\367\262\026\362\114\012\116\007\250\355\112\075\136\265\177  
\243\220\303\257\047\002\003\001\000\001\243\143\060\141\060\016  
\006\003\125\035\017\001\001\377\004\004\003\002\001\206\060\017  
\006\003\125\035\023\001\001\377\004\005\060\003\001\001\377\060  
\035\006\003\125\035\016\004\026\004\024\003\336\120\065\126\321  
\114\273\146\360\243\342\033\033\303\227\262\075\321\125\060\037  
\006\003\125\035\043\004\030\060\026\200\024\003\336\120\065\126  
\321\114\273\146\360\243\342\033\033\303\227\262\075\321\125\060  
\015\006\011\052\206\110\206\367\015\001\001\005\005\000\003\202  
\001\001\000\313\234\067\252\110\023\022\012\372\335\104\234\117  
\122\260\364\337\256\004\365\171\171\010\243\044\030\374\113\053

```
\204\300\055\271\325\307\376\364\301\037\130\313\270\155\234\172
\164\347\230\051\253\021\265\343\160\240\241\315\114\210\231\223
\214\221\160\342\253\017\034\276\223\251\377\143\325\344\007\140
\323\243\277\235\133\011\361\325\216\343\123\364\216\143\372\077
\247\333\264\146\337\142\146\326\321\156\101\215\362\055\265\352
\167\112\237\235\130\342\053\131\300\100\043\355\055\050\202\105
\076\171\124\222\046\230\340\200\110\250\067\357\360\326\171\140
\026\336\254\350\016\315\156\254\104\027\070\057\111\332\341\105
\076\052\271\066\123\317\072\120\006\367\056\350\304\127\111\154
\141\041\030\325\004\255\170\074\054\072\200\153\247\353\257\025
\024\351\330\211\301\271\070\154\342\221\154\212\377\144\271\167
\045\127\060\300\033\044\243\341\334\351\337\107\174\265\264\044
\010\005\060\354\055\275\013\277\105\277\120\271\251\363\353\230
\001\022\255\310\210\306\230\064\137\215\012\074\306\351\325\225
\225\155\336
```

END

```
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
```

# Trust for "DigiCert Global Root CA"

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

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

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

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

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

# Fingerprint (SHA-256):

43:48:A0:E9:44:4C:78:CB:26:5E:05:8D:5E:89:44:B4:D8:4F:96:62:BD:26:DB:25:7F:89:34:A4:43:C7:01:61

# Fingerprint (SHA1): A8:98:5D:3A:65:E5:E5:C4:B2:D7:D6:6D:40:C6:DD:2F:B1:9C:54:36

```
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
```

```
CKA_TOKEN CK_BBOOL CK_TRUE
```

```
CKA_PRIVATE CK_BBOOL CK_FALSE
```

```
CKA_MODIFIABLE CK_BBOOL CK_FALSE
```

```
CKA_LABEL UTF8 "DigiCert Global Root CA"
```

```
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
```

```
\250\230\135\072\145\345\345\304\262\327\326\155\100\306\335\057
\261\234\124\066
```

END

```
CKA_CERT_MD5_HASH MULTILINE_OCTAL
```

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

END

```
CKA_ISSUER MULTILINE_OCTAL
```

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

```

\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\010\073\340\126\220\102\106\261\241\165\152\311\131\221
\307\112
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "DigiCert High Assurance EV Root CA"
#
Issuer: CN=DigiCert High Assurance EV Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
Serial Number:02:ac:5c:26:6a:0b:40:9b:8f:0b:79:f2:ae:46:25:77
Subject: CN=DigiCert High Assurance EV Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
Not Valid Before: Fri Nov 10 00:00:00 2006
Not Valid After : Mon Nov 10 00:00:00 2031
Fingerprint (SHA-256):
74:31:E5:F4:C3:C1:CE:46:90:77:4F:0B:61:E0:54:40:88:3B:A9:A0:1E:D0:0B:A6:AB:D7:80:6E:D3:B1:18:CF
Fingerprint (SHA1): 5F:B7:EE:06:33:E2:59:DB:AD:0C:4C:9A:E6:D3:8F:1A:61:C7:DC:25
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert High Assurance EV Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\154\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\053\060\051\006\003\125\004\003\023\042\104\151\147\151
\103\145\162\164\040\110\151\147\150\040\101\163\163\165\162\141
\156\143\145\040\105\126\040\122\157\157\164\040\103\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\154\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\053\060\051\006\003\125\004\003\023\042\104\151\147\151
\103\145\162\164\040\110\151\147\150\040\101\163\163\165\162\141
\156\143\145\040\105\126\040\122\157\157\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL

```

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

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\003\305\060\202\002\255\240\003\002\001\002\002\020\002  
\254\134\046\152\013\100\233\217\013\171\362\256\106\045\167\060  
\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060\154  
\061\013\060\011\006\003\125\004\006\023\002\125\123\061\025\060  
\023\006\003\125\004\012\023\014\104\151\147\151\103\145\162\164  
\040\111\156\143\061\031\060\027\006\003\125\004\013\023\020\167  
\167\167\056\144\151\147\151\143\145\162\164\056\143\157\155\061  
\053\060\051\006\003\125\004\003\023\042\104\151\147\151\103\145  
\162\164\040\110\151\147\150\040\101\163\163\165\162\141\156\143  
\145\040\105\126\040\122\157\157\164\040\103\101\060\036\027\015  
\060\066\061\061\061\060\060\060\060\060\060\060\132\027\015\063  
\061\061\061\061\060\060\060\060\060\060\060\132\060\154\061\013  
\060\011\006\003\125\004\006\023\002\125\123\061\025\060\023\006  
\003\125\004\012\023\014\104\151\147\151\103\145\162\164\040\111  
\156\143\061\031\060\027\006\003\125\004\013\023\020\167\167\167  
\056\144\151\147\151\143\145\162\164\056\143\157\155\061\053\060  
\051\006\003\125\004\003\023\042\104\151\147\151\103\145\162\164  
\040\110\151\147\150\040\101\163\163\165\162\141\156\143\145\040  
\105\126\040\122\157\157\164\040\103\101\060\202\001\042\060\015  
\006\011\052\206\110\206\367\015\001\001\001\005\000\003\202\001  
\017\000\060\202\001\012\002\202\001\001\000\306\314\345\163\346  
\373\324\273\345\055\055\062\246\337\345\201\077\311\315\045\111  
\266\161\052\303\325\224\064\147\242\012\034\260\137\151\246\100  
\261\304\267\262\217\320\230\244\251\101\131\072\323\334\224\326  
\074\333\164\070\244\112\314\115\045\202\367\112\245\123\022\070  
\356\363\111\155\161\221\176\143\266\253\246\137\303\244\204\370  
\117\142\121\276\370\305\354\333\070\222\343\006\345\010\221\014  
\304\050\101\125\373\313\132\211\025\176\161\350\065\277\115\162  
\011\075\276\072\070\120\133\167\061\033\215\263\307\044\105\232  
\247\254\155\000\024\132\004\267\272\023\353\121\012\230\101\101  
\042\116\145\141\207\201\101\120\246\171\134\211\336\031\112\127  
\325\056\346\135\034\123\054\176\230\315\032\006\026\244\150\163  
\320\064\004\023\134\241\161\323\132\174\125\333\136\144\341\067  
\207\060\126\004\345\021\264\051\200\022\361\171\071\210\242\002  
\021\174\047\146\267\210\267\170\362\312\012\250\070\253\012\144  
\302\277\146\135\225\204\301\241\045\036\207\135\032\120\013\040  
\022\314\101\273\156\013\121\070\270\113\313\002\003\001\000\001  
\243\143\060\141\060\016\006\003\125\035\017\001\001\377\004\004  
\003\002\001\206\060\017\006\003\125\035\023\001\001\377\004\005  
\060\003\001\001\377\060\035\006\003\125\035\016\004\026\004\024  
\261\076\303\151\003\370\277\107\001\324\230\046\032\010\002\357  
\143\144\053\303\060\037\006\003\125\035\043\004\030\060\026\200  
\024\261\076\303\151\003\370\277\107\001\324\230\046\032\010\002  
\357\143\144\053\303\060\015\006\011\052\206\110\206\367\015\001



\001\005\005\000\003\202\001\001\000\034\032\006\227\334\327\234  
\237\074\210\146\006\010\127\041\333\041\107\370\052\147\252\277  
\030\062\166\100\020\127\301\212\363\172\331\021\145\216\065\372  
\236\374\105\265\236\331\114\061\113\270\221\350\103\054\216\263  
\170\316\333\343\123\171\161\326\345\041\224\001\332\125\207\232  
\044\144\366\212\146\314\336\234\067\315\250\064\261\151\233\043  
\310\236\170\042\053\160\103\343\125\107\061\141\031\357\130\305  
\205\057\116\060\366\240\061\026\043\310\347\342\145\026\063\313  
\277\032\033\240\075\370\312\136\213\061\213\140\010\211\055\014  
\006\134\122\267\304\371\012\230\321\025\137\237\022\276\174\066  
\143\070\275\104\244\177\344\046\053\012\304\227\151\015\351\214  
\342\300\020\127\270\310\166\022\221\125\362\110\151\330\274\052  
\002\133\017\104\324\040\061\333\364\272\160\046\135\220\140\236  
\274\113\027\011\057\264\313\036\103\150\311\007\047\301\322\134  
\367\352\041\271\150\022\234\074\234\277\236\374\200\134\233\143  
\315\354\107\252\045\047\147\240\067\363\000\202\175\124\327\251  
\370\351\056\023\243\167\350\037\112

END

CKA\_NSS\_MOZILLA\_CA\_POLICY CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "DigiCert High Assurance EV Root CA"

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

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

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

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

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

# Fingerprint (SHA-256):

74:31:E5:F4:C3:C1:CE:46:90:77:4F:0B:61:E0:54:40:88:3B:A9:A0:1E:D0:0B:A6:AB:D7:80:6E:D3:B1:18:CF

# Fingerprint (SHA1): 5F:B7:EE:06:33:E2:59:DB:AD:0C:4C:9A:E6:D3:8F:1A:61:C7:DC:25

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "DigiCert High Assurance EV Root CA"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

\137\267\356\006\063\342\131\333\255\014\114\232\346\323\217\032  
\141\307\334\045

END

CKA\_CERT\_MD5\_HASH MULTILINE\_OCTAL

\324\164\336\127\134\071\262\323\234\205\203\305\300\145\111\212

END

CKA\_ISSUER MULTILINE\_OCTAL

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

```
\155\061\053\060\051\006\003\125\004\003\023\042\104\151\147\151
\103\145\162\164\040\110\151\147\150\040\101\163\163\165\162\141
\156\143\145\040\105\126\040\122\157\157\164\040\103\101
```

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

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

END

CKA\_TRUST\_SERVER\_AUTH CK\_TRUST CKT\_NSS\_TRUSTED\_DELEGATOR

CKA\_TRUST\_EMAIL\_PROTECTION CK\_TRUST CKT\_NSS\_TRUSTED\_DELEGATOR

CKA\_TRUST\_CODE\_SIGNING CK\_TRUST CKT\_NSS\_MUST\_VERIFY\_TRUST

CKA\_TRUST\_STEP\_UP\_APPROVED CK\_BBOOL CK\_FALSE

#

# Certificate "SwissSign Platinum CA - G2"

#

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

# Serial Number:4e:b2:00:67:0c:03:5d:4f

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

# Not Valid Before: Wed Oct 25 08:36:00 2006

# Not Valid After : Sat Oct 25 08:36:00 2036

# Fingerprint (SHA-256):

3B:22:2E:56:67:11:E9:92:30:0D:C0:B1:5A:B9:47:3D:AF:DE:F8:C8:4D:0C:EF:7D:33:17:B4:C1:82:1D:14:36

# Fingerprint (SHA1): 56:E0:FA:C0:3B:8F:18:23:55:18:E5:D3:11:CA:E8:C2:43:31:AB:66

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_CERTIFICATE

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "SwissSign Platinum CA - G2"

CKA\_CERTIFICATE\_TYPE CK\_CERTIFICATE\_TYPE CKC\_X\_509

CKA\_SUBJECT MULTILINE\_OCTAL

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

END

CKA\_ID UTF8 "0"

CKA\_ISSUER MULTILINE\_OCTAL

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

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

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

CKA\_VALUE MULTILINE\_OCTAL

\060\202\005\301\060\202\003\251\240\003\002\001\002\002\010\116  
\262\000\147\014\003\135\117\060\015\006\011\052\206\110\206\367  
\015\001\001\005\005\000\060\111\061\013\060\011\006\003\125\004  
\006\023\002\103\110\061\025\060\023\006\003\125\004\012\023\014  
\123\167\151\163\163\123\151\147\156\040\101\107\061\043\060\041  
\006\003\125\004\003\023\032\123\167\151\163\163\123\151\147\156  
\040\120\154\141\164\151\156\165\155\040\103\101\040\055\040\107  
\062\060\036\027\015\060\066\061\060\062\065\060\070\063\066\060  
\060\132\027\015\063\066\061\060\062\065\060\070\063\066\060\060  
\132\060\111\061\013\060\011\006\003\125\004\006\023\002\103\110  
\061\025\060\023\006\003\125\004\012\023\014\123\167\151\163\163  
\123\151\147\156\040\101\107\061\043\060\041\006\003\125\004\003  
\023\032\123\167\151\163\163\123\151\147\156\040\120\154\141\164  
\151\156\165\155\040\103\101\040\055\040\107\062\060\202\002\042  
\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003  
\202\002\017\000\060\202\002\012\002\202\002\001\000\312\337\242  
\002\342\332\370\374\007\026\261\336\140\252\336\226\134\144\037  
\307\057\176\317\147\372\104\102\326\166\143\225\256\353\257\162  
\040\212\105\107\206\142\170\206\326\040\071\046\364\256\243\375  
\043\347\245\234\265\042\041\031\267\067\223\042\300\120\234\202  
\173\324\325\004\104\134\313\264\302\237\222\276\044\330\173\147  
\042\342\151\137\345\005\170\324\207\331\161\160\063\045\123\264  
\207\073\051\220\050\066\232\125\104\060\150\244\203\227\177\015  
\036\234\166\377\025\235\140\227\000\215\212\205\003\354\200\276  
\352\054\156\020\121\222\314\176\325\243\063\330\326\111\336\130  
\052\257\366\026\353\113\173\220\062\227\271\272\235\130\361\370  
\127\111\004\036\242\135\006\160\335\161\333\371\335\213\232\033  
\214\317\075\243\115\316\313\174\366\273\234\240\372\011\316\043  
\142\262\351\015\037\342\162\050\217\237\254\150\040\175\157\073  
\250\205\061\011\177\013\307\350\145\351\343\170\016\011\147\060  
\213\064\202\373\135\340\314\235\201\155\142\356\010\036\004\054  
\116\233\354\376\251\117\137\375\151\170\357\011\037\241\264\277  
\372\363\357\220\036\114\005\213\036\352\172\221\172\303\327\345  
\373\060\274\154\033\020\130\230\367\032\137\320\051\062\003\023  
\106\115\141\152\205\114\122\164\057\006\037\173\021\342\204\227  
\306\231\363\155\177\327\147\203\176\023\150\330\161\050\132\330  
\316\335\350\020\024\232\376\155\043\207\156\216\132\160\074\325  
\215\011\000\247\252\274\260\061\067\155\310\204\024\036\133\275  
\105\143\040\153\113\164\214\275\333\072\016\301\317\132\026\217  
\245\230\362\166\211\262\023\022\073\013\167\167\254\273\345\074  
\051\112\222\162\312\141\032\053\136\114\342\203\164\167\372\065  
\110\172\205\115\215\232\123\304\337\170\312\227\221\110\053\105  
\053\001\367\034\032\242\355\030\272\012\275\203\372\157\274\215  
\127\223\073\324\324\246\316\036\361\240\261\316\253\375\053\050  
\232\117\033\327\303\162\333\244\304\277\135\114\365\335\173\226  
\151\356\150\200\346\347\230\272\066\267\376\156\355\053\275\040  
\370\145\031\332\125\011\176\045\334\376\141\142\162\371\176\030

\002\357\143\264\320\373\257\345\073\143\214\147\217\002\003\001  
\000\001\243\201\254\060\201\251\060\016\006\003\125\035\017\001  
\001\377\004\004\003\002\001\006\060\017\006\003\125\035\023\001  
\001\377\004\005\060\003\001\001\377\060\035\006\003\125\035\016  
\004\026\004\024\120\257\314\007\207\025\107\157\070\305\264\145  
\321\336\225\252\351\337\234\314\060\037\006\003\125\035\043\004  
\030\060\026\200\024\120\257\314\007\207\025\107\157\070\305\264  
\145\321\336\225\252\351\337\234\314\060\106\006\003\125\035\040  
\004\077\060\075\060\073\006\011\140\205\164\001\131\001\001\001  
\001\060\056\060\054\006\010\053\006\001\005\005\007\002\001\026  
\040\150\164\164\160\072\057\057\162\145\160\157\163\151\164\157  
\162\171\056\163\167\151\163\163\163\151\147\156\056\143\157\155  
\057\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000  
\003\202\002\001\000\010\205\246\365\026\014\374\104\032\301\143  
\340\371\125\106\010\374\160\034\102\050\226\216\267\305\301\101  
\165\116\011\161\171\345\155\226\312\113\245\210\140\320\060\164  
\270\312\010\334\264\060\236\100\007\026\153\145\225\167\001\256  
\244\267\065\013\201\332\161\025\251\164\027\070\173\130\312\371  
\057\373\300\145\166\215\133\001\271\175\336\202\075\144\270\276  
\024\164\243\012\124\323\054\225\030\027\065\365\121\153\077\217  
\242\226\141\071\170\153\113\345\246\240\370\123\337\121\020\223  
\142\347\200\057\342\321\340\274\216\066\106\167\063\354\270\373  
\216\232\054\211\115\061\021\017\046\236\004\273\267\004\215\013  
\362\271\374\132\235\073\026\267\057\310\230\253\376\212\120\131  
\056\243\073\374\051\135\213\301\113\311\342\212\023\035\261\277  
\273\102\035\122\335\116\330\024\136\020\306\061\007\357\161\047  
\367\033\071\011\334\202\352\213\263\225\206\136\375\365\332\135  
\061\246\340\061\266\224\346\104\111\164\305\026\345\367\037\003  
\141\050\305\310\313\022\240\102\113\371\153\210\010\215\264\062  
\030\363\165\237\304\177\000\117\005\225\234\243\027\002\303\263  
\123\233\252\040\071\051\053\146\372\235\257\136\263\222\322\265  
\246\341\032\371\055\101\151\201\024\264\264\265\355\211\075\316  
\373\251\235\065\102\104\261\034\024\163\201\317\052\001\065\232  
\061\325\055\217\155\204\337\200\115\127\343\077\305\204\165\332  
\211\306\060\273\353\217\313\042\010\240\256\252\361\003\154\072  
\113\115\011\245\016\162\306\126\153\041\102\116\043\045\024\150  
\256\166\012\174\014\007\160\144\371\232\057\366\005\071\046\306  
\014\217\031\177\103\136\156\364\133\025\057\333\141\135\346\147  
\057\077\010\224\371\140\264\230\061\332\164\361\204\223\161\115  
\137\373\140\130\321\373\304\301\155\211\242\273\040\037\235\161  
\221\313\062\233\023\075\076\175\222\122\065\254\222\224\242\323  
\030\302\174\307\352\257\166\005\026\335\147\047\302\176\034\007  
\042\041\363\100\012\033\064\007\104\023\302\204\152\216\337\031  
\132\277\177\353\035\342\032\070\321\134\257\107\222\153\200\265  
\060\245\311\215\330\253\061\201\037\337\302\146\067\323\223\251  
\205\206\171\145\322

END

CKA\_NSS\_MOZILLA\_CA\_POLICY CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "SwissSign Platinum CA - G2"

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

# Serial Number:4e:b2:00:67:0c:03:5d:4f

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

# Not Valid Before: Wed Oct 25 08:36:00 2006

# Not Valid After : Sat Oct 25 08:36:00 2036

# Fingerprint (SHA-256):

3B:22:2E:56:67:11:E9:92:30:0D:C0:B1:5A:B9:47:3D:AF:DE:F8:C8:4D:0C:EF:7D:33:17:B4:C1:82:1D:14:36

# Fingerprint (SHA1): 56:E0:FA:C0:3B:8F:18:23:55:18:E5:D3:11:CA:E8:C2:43:31:AB:66

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "SwissSign Platinum CA - G2"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

\126\340\372\300\073\217\030\043\125\030\345\323\021\312\350\302

\103\061\253\146

END

CKA\_CERT\_MD5\_HASH MULTILINE\_OCTAL

\311\230\047\167\050\036\075\016\025\074\204\000\270\205\003\346

END

CKA\_ISSUER MULTILINE\_OCTAL

\060\111\061\013\060\011\006\003\125\004\006\023\002\103\110\061

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

\151\147\156\040\101\107\061\043\060\041\006\003\125\004\003\023

\032\123\167\151\163\163\123\151\147\156\040\120\154\141\164\151

\156\165\155\040\103\101\040\055\040\107\062

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

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

END

CKA\_TRUST\_SERVER\_AUTH CK\_TRUST CKT\_NSS\_MUST\_VERIFY\_TRUST

CKA\_TRUST\_EMAIL\_PROTECTION CK\_TRUST CKT\_NSS\_TRUSTED\_DELEGATOR

CKA\_TRUST\_CODE\_SIGNING CK\_TRUST CKT\_NSS\_MUST\_VERIFY\_TRUST

CKA\_TRUST\_STEP\_UP\_APPROVED CK\_BBOOL CK\_FALSE

#

# Certificate "SwissSign Gold CA - G2"

#

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

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

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

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

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

# Fingerprint (SHA-256):

62:DD:0B:E9:B9:F5:0A:16:3E:A0:F8:E7:5C:05:3B:1E:CA:57:EA:55:C8:68:8F:64:7C:68:81:F2:C8:35:7B:95  
# Fingerprint (SHA1): D8:C5:38:8A:B7:30:1B:1B:6E:D4:7A:E6:45:25:3A:6F:9F:1A:27:61  
CKA\_CLASS CK\_OBJECT\_CLASS CKO\_CERTIFICATE  
CKA\_TOKEN CK\_BBOOL CK\_TRUE  
CKA\_PRIVATE CK\_BBOOL CK\_FALSE  
CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE  
CKA\_LABEL UTF8 "SwissSign Gold CA - G2"  
CKA\_CERTIFICATE\_TYPE CK\_CERTIFICATE\_TYPE CKC\_X\_509  
CKA\_SUBJECT MULTILINE\_OCTAL  
\060\105\061\013\060\011\006\003\125\004\006\023\002\103\110\061  
\025\060\023\006\003\125\004\012\023\014\123\167\151\163\163\123  
\151\147\156\040\101\107\061\037\060\035\006\003\125\004\003\023  
\026\123\167\151\163\163\123\151\147\156\040\107\157\154\144\040  
\103\101\040\055\040\107\062  
END  
CKA\_ID UTF8 "0"  
CKA\_ISSUER MULTILINE\_OCTAL  
\060\105\061\013\060\011\006\003\125\004\006\023\002\103\110\061  
\025\060\023\006\003\125\004\012\023\014\123\167\151\163\163\123  
\151\147\156\040\101\107\061\037\060\035\006\003\125\004\003\023  
\026\123\167\151\163\163\123\151\147\156\040\107\157\154\144\040  
\103\101\040\055\040\107\062  
END  
CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL  
\002\011\000\273\100\034\103\365\136\117\260  
END  
CKA\_VALUE MULTILINE\_OCTAL  
\060\202\005\272\060\202\003\242\240\003\002\001\002\002\011\000  
\273\100\034\103\365\136\117\260\060\015\006\011\052\206\110\206  
\367\015\001\001\005\005\000\060\105\061\013\060\011\006\003\125  
\004\006\023\002\103\110\061\025\060\023\006\003\125\004\012\023  
\014\123\167\151\163\163\123\151\147\156\040\101\107\061\037\060  
\035\006\003\125\004\003\023\026\123\167\151\163\163\123\151\147  
\156\040\107\157\154\144\040\103\101\040\055\040\107\062\060\036  
\027\015\060\066\061\060\062\065\060\070\063\060\063\065\132\027  
\015\063\066\061\060\062\065\060\070\063\060\063\065\132\060\105  
\061\013\060\011\006\003\125\004\006\023\002\103\110\061\025\060  
\023\006\003\125\004\012\023\014\123\167\151\163\163\123\151\147  
\156\040\101\107\061\037\060\035\006\003\125\004\003\023\026\123  
\167\151\163\163\123\151\147\156\040\107\157\154\144\040\103\101  
\040\055\040\107\062\060\202\002\042\060\015\006\011\052\206\110  
\206\367\015\001\001\001\005\000\003\202\002\017\000\060\202\002  
\012\002\202\002\001\000\257\344\356\176\213\044\016\022\156\251  
\120\055\026\104\073\222\222\134\312\270\135\204\222\102\023\052  
\274\145\127\202\100\076\127\044\315\120\213\045\052\267\157\374  
\357\242\320\300\037\002\044\112\023\226\217\043\023\346\050\130  
\000\243\107\307\006\247\204\043\053\273\275\226\053\177\125\314  
\213\301\127\037\016\142\145\017\335\075\126\212\163\332\256\176

\155\272\201\034\176\102\214\040\065\331\103\115\204\372\204\333  
\122\054\363\016\047\167\013\153\277\021\057\162\170\237\056\330  
\076\346\030\067\132\052\162\371\332\142\220\222\225\312\037\234  
\351\263\074\053\313\363\001\023\277\132\317\301\265\012\140\275  
\335\265\231\144\123\270\240\226\263\157\342\046\167\221\214\340  
\142\020\002\237\064\017\244\325\222\063\121\336\276\215\272\204  
\172\140\074\152\333\237\053\354\336\336\001\077\156\115\345\120  
\206\313\264\257\355\104\100\305\312\132\214\332\322\053\174\250  
\356\276\246\345\012\252\016\245\337\005\122\267\125\307\042\135  
\062\152\227\227\143\023\333\311\333\171\066\173\205\072\112\305  
\122\211\371\044\347\235\167\251\202\377\125\034\245\161\151\053  
\321\002\044\362\263\046\324\153\332\004\125\345\301\012\307\155  
\060\067\220\052\344\236\024\063\136\026\027\125\305\133\265\313  
\064\211\222\361\235\046\217\241\007\324\306\262\170\120\333\014  
\014\013\174\013\214\101\327\271\351\335\214\210\367\243\115\262  
\062\314\330\027\332\315\267\316\146\235\324\375\136\377\275\227  
\076\051\165\347\176\247\142\130\257\045\064\245\101\307\075\274  
\015\120\312\003\003\017\010\132\037\225\163\170\142\277\257\162  
\024\151\016\245\345\003\016\170\216\046\050\102\360\007\013\142  
\040\020\147\071\106\372\251\003\314\004\070\172\146\357\040\203  
\265\214\112\126\216\221\000\374\216\134\202\336\210\240\303\342  
\150\156\175\215\357\074\335\145\364\135\254\121\357\044\200\256  
\252\126\227\157\371\255\175\332\141\077\230\167\074\245\221\266  
\034\214\046\332\145\242\011\155\301\342\124\343\271\312\114\114  
\200\217\167\173\140\232\036\337\266\362\110\036\016\272\116\124  
\155\230\340\341\242\032\242\167\120\317\304\143\222\354\107\031  
\235\353\346\153\316\301\002\003\001\000\001\243\201\254\060\201  
\251\060\016\006\003\125\035\017\001\001\377\004\004\003\002\001  
\006\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001  
\001\377\060\035\006\003\125\035\016\004\026\004\024\133\045\173  
\226\244\145\121\176\270\071\363\300\170\146\136\350\072\347\360  
\356\060\037\006\003\125\035\043\004\030\060\026\200\024\133\045  
\173\226\244\145\121\176\270\071\363\300\170\146\136\350\072\347  
\360\356\060\106\006\003\125\035\040\004\077\060\075\060\073\006  
\011\140\205\164\001\131\001\002\001\001\060\056\060\054\006\010  
\053\006\001\005\005\007\002\001\026\040\150\164\164\160\072\057  
\057\162\145\160\157\163\151\164\157\162\171\056\163\167\151\163  
\163\163\151\147\156\056\143\157\155\057\060\015\006\011\052\206  
\110\206\367\015\001\001\005\005\000\003\202\002\001\000\047\272  
\343\224\174\361\256\300\336\027\346\345\330\325\365\124\260\203  
\364\273\315\136\005\173\117\237\165\146\257\074\350\126\176\374  
\162\170\070\003\331\053\142\033\000\271\370\351\140\315\314\316  
\121\212\307\120\061\156\341\112\176\030\057\151\131\266\075\144  
\201\053\343\203\204\346\042\207\216\175\340\356\002\231\141\270  
\036\364\270\053\210\022\026\204\302\061\223\070\226\061\246\271  
\073\123\077\303\044\223\126\133\151\222\354\305\301\273\070\000  
\343\354\027\251\270\334\307\174\001\203\237\062\107\272\122\042  
\064\035\062\172\011\126\247\174\045\066\251\075\113\332\300\202

```
\157\012\273\022\310\207\113\047\021\371\036\055\307\223\077\236
\333\137\046\153\122\331\056\212\361\024\306\104\215\025\251\267
\277\275\336\246\032\356\256\055\373\110\167\027\376\273\354\257
\030\365\052\121\360\071\204\227\225\154\156\033\303\053\304\164
\140\171\045\260\012\047\337\337\136\322\071\317\105\175\102\113
\337\263\054\036\305\306\135\312\125\072\240\234\151\232\217\332
\357\262\260\074\237\207\154\022\053\145\160\025\122\061\032\044
\317\157\061\043\120\037\214\117\217\043\303\164\101\143\034\125
\250\024\335\076\340\121\120\317\361\033\060\126\016\222\260\202
\205\330\203\313\042\144\274\055\270\045\325\124\242\270\006\352
\255\222\244\044\240\301\206\265\112\023\152\107\317\056\013\126
\225\124\313\316\232\333\152\264\246\262\333\101\010\206\047\167
\367\152\240\102\154\013\070\316\327\165\120\062\222\302\337\053
\060\042\110\320\325\101\070\045\135\244\351\135\237\306\224\165
\320\105\375\060\227\103\217\220\253\012\307\206\163\140\112\151
\055\336\245\170\327\006\332\152\236\113\076\167\072\040\023\042
\001\320\277\150\236\143\140\153\065\115\013\155\272\241\075\300
\223\340\177\043\263\125\255\162\045\116\106\371\322\026\357\260
\144\301\001\236\351\312\240\152\230\016\317\330\140\362\057\111
\270\344\102\341\070\065\026\364\310\156\117\367\201\126\350\272
\243\276\043\257\256\375\157\003\340\002\073\060\166\372\033\155
\101\317\001\261\351\270\311\146\364\333\046\363\072\244\164\362
\111\044\133\311\260\320\127\301\372\076\172\341\227\311
```

END

```
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRICT_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRICT_AFTER CK_BBOOL CK_FALSE
```

```
Trust for "SwissSign Gold CA - G2"
```

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

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

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

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

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

```
Fingerprint (SHA-256):
```

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

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

```
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
```

```
CKA_TOKEN CK_BBOOL CK_TRUE
```

```
CKA_PRIVATE CK_BBOOL CK_FALSE
```

```
CKA_MODIFIABLE CK_BBOOL CK_FALSE
```

```
CKA_LABEL UTF8 "SwissSign Gold CA - G2"
```

```
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
```

```
\330\305\070\212\267\060\033\033\156\324\172\346\105\045\072\157
\237\032\047\141
```

END

```
CKA_CERT_MD5_HASH MULTILINE_OCTAL
```

```
\044\167\331\250\221\321\073\372\210\055\302\377\370\315\063\223
```



```

END
CKA_ISSUER MULTILINE_OCTAL
\060\105\061\013\060\011\006\003\125\004\006\023\002\103\110\061
\025\060\023\006\003\125\004\012\023\014\123\167\151\163\163\123
\151\147\156\040\101\107\061\037\060\035\006\003\125\004\003\023
\026\123\167\151\163\163\123\151\147\156\040\107\157\154\144\040
\103\101\040\055\040\107\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\011\000\273\100\034\103\365\136\117\260
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

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

```

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

\002\010\117\033\324\057\124\273\057\113

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\005\275\060\202\003\245\240\003\002\001\002\002\010\117  
\033\324\057\124\273\057\113\060\015\006\011\052\206\110\206\367  
\015\001\001\005\005\000\060\107\061\013\060\011\006\003\125\004  
\006\023\002\103\110\061\025\060\023\006\003\125\004\012\023\014  
\123\167\151\163\163\123\151\147\156\040\101\107\061\041\060\037  
\006\003\125\004\003\023\030\123\167\151\163\163\123\151\147\156  
\040\123\151\154\166\145\162\040\103\101\040\055\040\107\062\060  
\036\027\015\060\066\061\060\062\065\060\070\063\062\064\066\132  
\027\015\063\066\061\060\062\065\060\070\063\062\064\066\132\060  
\107\061\013\060\011\006\003\125\004\006\023\002\103\110\061\025  
\060\023\006\003\125\004\012\023\014\123\167\151\163\163\123\151  
\147\156\040\101\107\061\041\060\037\006\003\125\004\003\023\030  
\123\167\151\163\163\123\151\147\156\040\123\151\154\166\145\162  
\040\103\101\040\055\040\107\062\060\202\002\042\060\015\006\011  
\052\206\110\206\367\015\001\001\001\005\000\003\202\002\017\000  
\060\202\002\012\002\202\002\001\000\304\361\207\177\323\170\061  
\367\070\311\370\303\231\103\274\307\367\274\067\347\116\161\272  
\113\217\245\163\035\134\156\230\256\003\127\256\070\067\103\057  
\027\075\037\310\316\150\020\301\170\256\031\003\053\020\372\054  
\171\203\366\350\271\150\271\125\362\004\104\247\071\371\374\004  
\213\036\361\242\115\047\371\141\173\272\267\345\242\023\266\353  
\141\076\320\154\321\346\373\372\136\355\035\264\236\240\065\133  
\241\222\313\360\111\222\376\205\012\005\076\346\331\013\342\117  
\273\334\225\067\374\221\351\062\065\042\321\037\072\116\047\205  
\235\260\025\224\062\332\141\015\107\115\140\102\256\222\107\350  
\203\132\120\130\351\212\213\271\135\241\334\335\231\112\037\066  
\147\273\110\344\203\266\067\353\110\072\257\017\147\217\027\007  
\350\004\312\357\152\061\207\324\300\266\371\224\161\173\147\144  
\270\266\221\112\102\173\145\056\060\152\014\365\220\356\225\346  
\362\315\202\354\331\241\112\354\366\262\113\345\105\205\346\155  
\170\223\004\056\234\202\155\066\251\304\061\144\037\206\203\013  
\052\364\065\012\170\311\125\317\101\260\107\351\060\237\231\276  
\141\250\006\204\271\050\172\137\070\331\033\251\070\260\203\177  
\163\301\303\073\110\052\202\017\041\233\270\314\250\065\303\204  
\033\203\263\076\276\244\225\151\001\072\211\000\170\004\331\311  
\364\231\031\253\126\176\133\213\206\071\025\221\244\020\054\011  
\062\200\140\263\223\300\052\266\030\013\235\176\215\111\362\020  
\112\177\371\325\106\057\031\222\243\231\247\046\254\273\214\074  
\346\016\274\107\007\334\163\121\361\160\144\057\010\371\264\107  
\035\060\154\104\352\051\067\205\222\150\146\274\203\070\376\173  
\071\056\323\120\360\037\373\136\140\266\251\246\372\047\101\361  
\233\030\162\362\365\204\164\112\311\147\304\124\256\110\144\337  
\214\321\156\260\035\341\007\217\010\036\231\234\161\351\114\330  
\245\367\107\022\037\164\321\121\236\206\363\302\242\043\100\013

\163\333\113\246\347\163\006\214\301\240\351\301\131\254\106\372  
\346\057\370\317\161\234\106\155\271\304\025\215\070\171\1003\105  
\110\357\304\135\327\010\356\207\071\042\206\262\015\017\130\103  
\367\161\251\110\056\375\352\326\037\002\003\001\000\001\243\201  
\254\060\201\251\060\016\006\003\125\035\017\001\001\377\004\004  
\003\002\001\006\060\017\006\003\125\035\023\001\001\377\004\005  
\060\003\001\001\377\060\035\006\003\125\035\016\004\026\004\024  
\027\240\315\301\344\101\266\072\133\073\313\105\235\275\034\302  
\230\372\206\130\060\037\006\003\125\035\043\004\030\060\026\200  
\024\027\240\315\301\344\101\266\072\133\073\313\105\235\275\034  
\302\230\372\206\130\060\106\006\003\125\035\040\004\077\060\075  
\060\073\006\011\140\205\164\001\131\001\003\001\001\060\056\060  
\054\006\010\053\006\001\005\005\007\002\001\026\040\150\164\164  
\160\072\057\057\162\145\160\157\163\151\164\157\162\171\056\163  
\167\151\163\163\163\151\147\156\056\143\157\155\057\060\015\006  
\011\052\206\110\206\367\015\001\001\005\005\000\003\202\002\001  
\000\163\306\201\340\047\322\055\017\340\225\060\342\232\101\177  
\120\054\137\137\142\141\251\206\152\151\030\014\164\111\326\135  
\204\352\101\122\030\157\130\255\120\126\040\152\306\275\050\151  
\130\221\334\221\021\065\251\072\035\274\032\245\140\236\330\037  
\177\105\221\151\331\176\273\170\162\301\006\017\052\316\217\205  
\160\141\254\240\315\013\270\071\051\126\204\062\116\206\273\075  
\304\052\331\327\037\162\356\376\121\241\042\101\261\161\002\143  
\032\202\260\142\253\136\127\022\037\337\313\335\165\240\300\135  
\171\220\214\033\340\120\346\336\061\376\230\173\160\137\245\220  
\330\255\370\002\266\157\323\140\335\100\113\042\305\075\255\072  
\172\237\032\032\107\221\171\063\272\202\334\062\151\003\226\156  
\037\113\360\161\376\343\147\162\240\261\277\134\213\344\372\231  
\042\307\204\271\033\215\043\227\077\355\045\340\317\145\273\365  
\141\004\357\335\036\262\132\101\042\132\241\237\135\054\350\133  
\311\155\251\014\014\170\252\140\306\126\217\001\132\014\150\274  
\151\031\171\304\037\176\227\005\277\305\351\044\121\136\324\325  
\113\123\355\331\043\132\066\003\145\243\301\003\255\101\060\363  
\106\033\205\220\257\145\265\325\261\344\026\133\170\165\035\227  
\172\155\131\251\052\217\173\336\303\207\211\020\231\111\163\170  
\310\075\275\121\065\164\052\325\361\176\151\033\052\273\073\275  
\045\270\232\132\075\162\141\220\146\207\356\014\326\115\324\021  
\164\013\152\376\013\003\374\243\125\127\211\376\112\313\256\133  
\027\005\310\362\215\043\061\123\070\322\055\152\077\202\271\215  
\010\152\367\136\101\164\156\303\021\176\007\254\051\140\221\077  
\070\312\127\020\015\275\060\057\307\245\346\101\240\332\256\005  
\207\232\240\244\145\154\114\011\014\211\272\270\323\271\300\223  
\212\060\372\215\345\232\153\025\001\116\147\252\332\142\126\076  
\204\010\146\322\304\066\175\247\076\020\374\210\340\324\200\345  
\000\275\252\363\116\006\243\172\152\371\142\162\343\011\117\353  
\233\016\001\043\361\237\273\174\334\334\154\021\227\045\262\362  
\264\143\024\322\006\052\147\214\203\365\316\352\007\330\232\152  
\036\354\344\012\273\052\114\353\011\140\071\316\312\142\330\056

```

\156
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRICT_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRICT_AFTER CK_BBOOL CK_FALSE

Trust for "SwissSign Silver CA - G2"
Issuer: CN=SwissSign Silver CA - G2,O=SwissSign AG,C=CH
Serial Number:4f:1b:d4:2f:54:bb:2f:4b
Subject: CN=SwissSign Silver CA - G2,O=SwissSign AG,C=CH
Not Valid Before: Wed Oct 25 08:32:46 2006
Not Valid After : Sat Oct 25 08:32:46 2036
Fingerprint (SHA-256):
BE:6C:4D:A2:BB:B9:BA:59:B6:F3:93:97:68:37:42:46:C3:C0:05:99:3F:A9:8F:02:0D:1D:ED:BE:D4:8A:81:D5
Fingerprint (SHA1): 9B:AA:E5:9F:56:EE:21:CB:43:5A:BE:25:93:DF:A7:F0:40:D1:1D:CB
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SwissSign Silver CA - G2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\233\252\345\237\126\356\041\313\103\132\276\045\223\337\247\360
\100\321\035\313
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\340\006\241\311\175\317\311\374\015\300\126\165\226\330\142\023
END
CKA_ISSUER MULTILINE_OCTAL
\060\107\061\013\060\011\006\003\125\004\006\023\002\103\110\061
\025\060\023\006\003\125\004\012\023\014\123\167\151\163\163\123
\151\147\156\040\101\107\061\041\060\037\006\003\125\004\003\023
\030\123\167\151\163\163\123\151\147\156\040\123\151\154\166\145
\162\040\103\101\040\055\040\107\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\117\033\324\057\124\273\057\113
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "SecureTrust CA"
#
Issuer: CN=SecureTrust CA,O=SecureTrust Corporation,C=US
Serial Number:0c:f0:8e:5c:08:16:a5:ad:42:7f:f0:eb:27:18:59:d0
Subject: CN=SecureTrust CA,O=SecureTrust Corporation,C=US

```

```
Not Valid Before: Tue Nov 07 19:31:18 2006
Not Valid After : Mon Dec 31 19:40:55 2029
Fingerprint (SHA-256):
F1:C1:B5:0A:E5:A2:0D:D8:03:0E:C9:F6:BC:24:82:3D:D3:67:B5:25:57:59:B4:E7:1B:61:FC:E9:F7:37:5D:73
Fingerprint (SHA1): 87:82:C6:C3:04:35:3B:CF:D2:96:92:D2:59:3E:7D:44:D9:34:FF:11
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SecureTrust CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\110\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\040\060\036\006\003\125\004\012\023\027\123\145\143\165\162\145
\124\162\165\163\164\040\103\157\162\160\157\162\141\164\151\157
\156\061\027\060\025\006\003\125\004\003\023\016\123\145\143\165
\162\145\124\162\165\163\164\040\103\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\110\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\040\060\036\006\003\125\004\012\023\027\123\145\143\165\162\145
\124\162\165\163\164\040\103\157\162\160\157\162\141\164\151\157
\156\061\027\060\025\006\003\125\004\003\023\016\123\145\143\165
\162\145\124\162\165\163\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\014\360\216\134\010\026\245\255\102\177\360\353\047\030
\131\320
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\270\060\202\002\240\240\003\002\001\002\002\020\014
\360\216\134\010\026\245\255\102\177\360\353\047\030\131\320\060
\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060\110
\061\013\060\011\006\003\125\004\006\023\002\125\123\061\040\060
\036\006\003\125\004\012\023\027\123\145\143\165\162\145\124\162
\165\163\164\040\103\157\162\160\157\162\141\164\151\157\156\061
\027\060\025\006\003\125\004\003\023\016\123\145\143\165\162\145
\124\162\165\163\164\040\103\101\060\036\027\015\060\066\061\061
\060\067\061\071\063\061\061\070\132\027\015\062\071\061\062\063
\061\061\071\064\060\065\065\132\060\110\061\013\060\011\006\003
\125\004\006\023\002\125\123\061\040\060\036\006\003\125\004\012
\023\027\123\145\143\165\162\145\124\162\165\163\164\040\103\157
\162\160\157\162\141\164\151\157\156\061\027\060\025\006\003\125
\004\003\023\016\123\145\143\165\162\145\124\162\165\163\164\040
\103\101\060\202\001\042\060\015\006\011\052\206\110\206\367\015
\001\001\001\005\000\003\202\001\017\000\060\202\001\012\002\202
\001\001\000\253\244\201\345\225\315\365\366\024\216\302\117\312
```

\324\342\170\225\130\234\101\341\015\231\100\044\027\071\221\063  
\146\351\276\341\203\257\142\134\211\321\374\044\133\141\263\340  
\021\021\101\034\035\156\360\270\273\370\336\247\201\272\246\110  
\306\237\035\275\276\216\251\101\076\270\224\355\051\032\324\216  
\322\003\035\003\357\155\015\147\034\127\327\006\255\312\310\365  
\376\016\257\146\045\110\004\226\013\135\243\272\026\303\010\117  
\321\106\370\024\134\362\310\136\001\231\155\375\210\314\206\250  
\301\157\061\102\154\122\076\150\313\363\031\064\337\273\207\030  
\126\200\046\304\320\334\300\157\337\336\240\302\221\026\240\144  
\021\113\104\274\036\366\347\372\143\336\146\254\166\244\161\243  
\354\066\224\150\172\167\244\261\347\016\057\201\172\342\265\162  
\206\357\242\153\213\360\017\333\323\131\077\272\162\274\104\044  
\234\343\163\263\367\257\127\057\102\046\235\251\164\272\000\122  
\362\113\315\123\174\107\013\066\205\016\146\251\010\227\026\064  
\127\301\146\367\200\343\355\160\124\307\223\340\056\050\025\131  
\207\272\273\002\003\001\000\001\243\201\235\060\201\232\060\023  
\006\011\053\006\001\004\001\202\067\024\002\004\006\036\004\000  
\103\000\101\060\013\006\003\125\035\017\004\004\003\002\001\206  
\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001  
\377\060\035\006\003\125\035\016\004\026\004\024\102\062\266\026  
\372\004\375\376\135\113\172\303\375\367\114\100\035\132\103\257  
\060\064\006\003\125\035\037\004\055\060\053\060\051\240\047\240  
\045\206\043\150\164\164\160\072\057\057\143\162\154\056\163\145  
\143\165\162\145\164\162\165\163\164\056\143\157\155\057\123\124  
\103\101\056\143\162\154\060\020\006\011\053\006\001\004\001\202  
\067\025\001\004\003\002\001\000\060\015\006\011\052\206\110\206  
\367\015\001\001\005\005\000\003\202\001\001\000\060\355\117\112  
\341\130\072\122\162\133\265\246\243\145\030\246\273\121\073\167  
\351\235\352\323\237\134\340\105\145\173\015\312\133\342\160\120  
\262\224\005\024\256\111\307\215\101\007\022\163\224\176\014\043  
\041\375\274\020\177\140\020\132\162\365\230\016\254\354\271\177  
\335\172\157\135\323\034\364\377\210\005\151\102\251\005\161\310  
\267\254\046\350\056\264\214\152\377\161\334\270\261\337\231\274  
\174\041\124\053\344\130\242\273\127\051\256\236\251\243\031\046  
\017\231\056\010\260\357\375\151\317\231\032\011\215\343\247\237  
\053\311\066\064\173\044\263\170\114\225\027\244\006\046\036\266  
\144\122\066\137\140\147\331\234\305\005\164\013\347\147\043\322  
\010\374\210\351\256\213\177\341\060\364\067\176\375\306\062\332  
\055\236\104\060\060\154\356\007\336\322\064\374\322\377\100\366  
\113\364\146\106\006\124\246\362\062\012\143\046\060\153\233\321  
\334\213\107\272\341\271\325\142\320\242\240\364\147\005\170\051  
\143\032\157\004\326\370\306\114\243\232\261\067\264\215\345\050  
\113\035\236\054\302\270\150\274\355\002\356\061

END

CKA\_NSS\_MOZILLA\_CA\_POLICY CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

```

Trust for "SecureTrust CA"
Issuer: CN=SecureTrust CA,O=SecureTrust Corporation,C=US
Serial Number:0c:f0:8e:5c:08:16:a5:ad:42:7f:f0:eb:27:18:59:d0
Subject: CN=SecureTrust CA,O=SecureTrust Corporation,C=US
Not Valid Before: Tue Nov 07 19:31:18 2006
Not Valid After : Mon Dec 31 19:40:55 2029
Fingerprint (SHA-256):
F1:C1:B5:0A:E5:A2:0D:D8:03:0E:C9:F6:BC:24:82:3D:D3:67:B5:25:57:59:B4:E7:1B:61:FC:E9:F7:37:5D:73
Fingerprint (SHA1): 87:82:C6:C3:04:35:3B:CF:D2:96:92:D2:59:3E:7D:44:D9:34:FF:11
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SecureTrust CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\207\202\306\303\004\065\073\317\322\226\222\322\131\076\175\104
\331\064\377\021
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\334\062\303\247\155\045\127\307\150\011\235\352\055\251\242\321
END
CKA_ISSUER MULTILINE_OCTAL
\060\110\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\040\060\036\006\003\125\004\012\023\027\123\145\143\165\162\145
\124\162\165\163\164\040\103\157\162\160\157\162\141\164\151\157
\156\061\027\060\025\006\003\125\004\003\023\016\123\145\143\165
\162\145\124\162\165\163\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\014\360\216\134\010\026\245\255\102\177\360\353\047\030
\131\320
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Secure Global CA"
#
Issuer: CN=Secure Global CA,O=SecureTrust Corporation,C=US
Serial Number:07:56:22:a4:e8:d4:8a:89:4d:f4:13:c8:f0:f8:ea:a5
Subject: CN=Secure Global CA,O=SecureTrust Corporation,C=US
Not Valid Before: Tue Nov 07 19:42:28 2006
Not Valid After : Mon Dec 31 19:52:06 2029
Fingerprint (SHA-256):
42:00:F5:04:3A:C8:59:0E:BB:52:7D:20:9E:D1:50:30:29:FB:CB:D4:1C:A1:B5:06:EC:27:F1:5A:DE:7D:AC:69
Fingerprint (SHA1): 3A:44:73:5A:E5:81:90:1F:24:86:61:46:1E:3B:9C:C4:5F:F5:3A:1B

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```
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Secure Global CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\112\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\040\060\036\006\003\125\004\012\023\027\123\145\143\165\162\145
\124\162\165\163\164\040\103\157\162\160\157\162\141\164\151\157
\156\061\031\060\027\006\003\125\004\003\023\020\123\145\143\165
\162\145\040\107\154\157\142\141\154\040\103\101
END
CKA_ID UTF8 ""
CKA_ISSUER MULTILINE_OCTAL
\060\112\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\040\060\036\006\003\125\004\012\023\027\123\145\143\165\162\145
\124\162\165\163\164\040\103\157\162\160\157\162\141\164\151\157
\156\061\031\060\027\006\003\125\004\003\023\020\123\145\143\165
\162\145\040\107\154\157\142\141\154\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\007\126\042\244\350\324\212\211\115\364\023\310\360\370
\352\245
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\274\060\202\002\244\240\003\002\001\002\002\020\007
\126\042\244\350\324\212\211\115\364\023\310\360\370\352\245\060
\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060\112
\061\013\060\011\006\003\125\004\006\023\002\125\123\061\040\060
\036\006\003\125\004\012\023\027\123\145\143\165\162\145\124\162
\165\163\164\040\103\157\162\160\157\162\141\164\151\157\156\061
\031\060\027\006\003\125\004\003\023\020\123\145\143\165\162\145
\040\107\154\157\142\141\154\040\103\101\060\036\027\015\060\066
\061\061\060\067\061\071\064\062\062\070\132\027\015\062\071\061
\062\063\061\061\071\065\062\060\066\132\060\112\061\013\060\011
\006\003\125\004\006\023\002\125\123\061\040\060\036\006\003\125
\004\012\023\027\123\145\143\165\162\145\124\162\165\163\164\040
\103\157\162\160\157\162\141\164\151\157\156\061\031\060\027\006
\003\125\004\003\023\020\123\145\143\165\162\145\040\107\154\157
\142\141\154\040\103\101\060\202\001\042\060\015\006\011\052\206
\110\206\367\015\001\001\001\005\000\003\202\001\017\000\060\202
\001\012\002\202\001\001\000\257\065\056\330\254\154\125\151\006
\161\345\023\150\044\263\117\330\314\041\107\370\361\140\070\211
\211\003\351\275\352\136\106\123\011\334\134\365\132\350\367\105
\052\002\353\061\141\327\051\063\114\316\307\174\012\067\176\017
\272\062\230\341\035\227\257\217\307\334\311\070\226\363\333\032
\374\121\355\150\306\320\156\244\174\044\321\256\102\310\226\120
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\143\056\340\376\165\376\230\247\137\111\056\225\343\071\063\144  
\216\036\244\137\220\322\147\074\262\331\376\101\271\125\247\011  
\216\162\005\036\213\335\104\205\202\102\320\111\300\035\140\360  
\321\027\054\225\353\366\245\301\222\243\305\302\247\010\140\015  
\140\004\020\226\171\236\026\064\346\251\266\372\045\105\071\310  
\036\145\371\223\365\252\361\122\334\231\230\075\245\206\032\014  
\065\063\372\113\245\004\006\025\034\061\200\357\252\030\153\302  
\173\327\332\316\371\063\040\325\365\275\152\063\055\201\004\373  
\260\134\324\234\243\342\134\035\343\251\102\165\136\173\324\167  
\357\071\124\272\311\012\030\033\022\231\111\057\210\113\375\120  
\142\321\163\347\217\172\103\002\003\001\000\001\243\201\235\060  
\201\232\060\023\006\011\053\006\001\004\001\202\067\024\002\004  
\006\036\004\000\103\000\101\060\013\006\003\125\035\017\004\004  
\003\002\001\206\060\017\006\003\125\035\023\001\001\377\004\005  
\060\003\001\001\377\060\035\006\003\125\035\016\004\026\004\024  
\257\104\004\302\101\176\110\203\333\116\071\002\354\354\204\172  
\346\316\311\244\060\064\006\003\125\035\037\004\055\060\053\060  
\051\240\047\240\045\206\043\150\164\164\160\072\057\057\143\162  
\154\056\163\145\143\165\162\145\164\162\165\163\164\056\143\157  
\155\057\123\107\103\101\056\143\162\154\060\020\006\011\053\006  
\001\004\001\202\067\025\001\004\003\002\001\000\060\015\006\011  
\052\206\110\206\367\015\001\001\005\005\000\003\202\001\001\000  
\143\032\010\100\175\244\136\123\015\167\330\172\256\037\015\013  
\121\026\003\357\030\174\310\343\257\152\130\223\024\140\221\262  
\204\334\210\116\276\071\212\072\363\346\202\211\135\001\067\263  
\253\044\244\025\016\222\065\132\112\104\136\116\127\372\165\316  
\037\110\316\146\364\074\100\046\222\230\154\033\356\044\106\014  
\027\263\122\245\333\245\221\221\317\067\323\157\347\047\010\072  
\116\031\037\072\247\130\134\027\317\171\077\213\344\247\323\046  
\043\235\046\017\130\151\374\107\176\262\320\215\213\223\277\051  
\117\103\151\164\166\147\113\317\007\214\346\002\367\265\341\264  
\103\265\113\055\024\237\371\334\046\015\277\246\107\164\006\330  
\210\321\072\051\060\204\316\322\071\200\142\033\250\307\127\111  
\274\152\125\121\147\025\112\276\065\007\344\325\165\230\067\171  
\060\024\333\051\235\154\305\151\314\107\125\242\060\367\314\134  
\177\302\303\230\034\153\116\026\200\353\172\170\145\105\242\000  
\032\257\014\015\125\144\064\110\270\222\271\361\264\120\051\362  
\117\043\037\332\154\254\037\104\341\335\043\170\121\133\307\026  
END

CKA\_NSS\_MOZILLA\_CA\_POLICY CK\_BBOOL CK\_TRUE  
CKA\_NSS\_SERVER\_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

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Not Valid After : Mon Dec 31 19:52:06 2029
Fingerprint (SHA-256):
42:00:F5:04:3A:C8:59:0E:BB:52:7D:20:9E:D1:50:30:29:FB:CB:D4:1C:A1:B5:06:EC:27:F1:5A:DE:7D:AC:69
Fingerprint (SHA1): 3A:44:73:5A:E5:81:90:1F:24:86:61:46:1E:3B:9C:C4:5F:F5:3A:1B
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Secure Global CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\072\104\163\132\345\201\220\037\044\206\141\106\036\073\234\304
\137\365\072\033
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\317\364\047\015\324\355\334\145\026\111\155\075\332\277\156\336
END
CKA_ISSUER MULTILINE_OCTAL
\060\112\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\040\060\036\006\003\125\004\012\023\027\123\145\143\165\162\145
\124\162\165\163\164\040\103\157\162\160\157\162\141\164\151\157
\156\061\031\060\027\006\003\125\004\003\023\020\123\145\143\165
\162\145\040\107\154\157\142\141\154\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\007\126\042\244\350\324\212\211\115\364\023\310\360\370
\352\245
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "COMODO Certification Authority"
#
Issuer: CN=COMODO Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater
Manchester,C=GB
Serial Number:4e:81:2d:8a:82:65:e0:0b:02:ee:3e:35:02:46:e5:3d
Subject: CN=COMODO Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater
Manchester,C=GB
Not Valid Before: Fri Dec 01 00:00:00 2006
Not Valid After : Mon Dec 31 23:59:59 2029
Fingerprint (SHA-256):
0C:2C:D6:3D:F7:80:6F:A3:99:ED:E8:09:11:6B:57:5B:F8:79:89:F0:65:18:F9:80:8C:86:05:03:17:8B:AF:66
Fingerprint (SHA1): 66:31:BF:9E:F7:4F:9E:B6:C9:D5:A6:0C:BA:6A:BE:D1:F7:BD:EF:7B
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE

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```
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "COMODO Certification Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\201\061\013\060\011\006\003\125\004\006\023\002\107\102
\061\033\060\031\006\003\125\004\010\023\022\107\162\145\141\164
\145\162\040\115\141\156\143\150\145\163\164\145\162\061\020\060
\016\006\003\125\004\007\023\007\123\141\154\146\157\162\144\061
\032\060\030\006\003\125\004\012\023\021\103\117\115\117\104\117
\040\103\101\040\114\151\155\151\164\145\144\061\047\060\045\006
\003\125\004\003\023\036\103\117\115\117\104\117\040\103\145\162
\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157
\162\151\164\171
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\201\061\013\060\011\006\003\125\004\006\023\002\107\102
\061\033\060\031\006\003\125\004\010\023\022\107\162\145\141\164
\145\162\040\115\141\156\143\150\145\163\164\145\162\061\020\060
\016\006\003\125\004\007\023\007\123\141\154\146\157\162\144\061
\032\060\030\006\003\125\004\012\023\021\103\117\115\117\104\117
\040\103\101\040\114\151\155\151\164\145\144\061\047\060\045\006
\003\125\004\003\023\036\103\117\115\117\104\117\040\103\145\162
\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157
\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\116\201\055\212\202\145\340\013\002\356\076\065\002\106
\345\075
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\035\060\202\003\005\240\003\002\001\002\002\020\116
\201\055\212\202\145\340\013\002\356\076\065\002\106\345\075\060
\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060\201
\201\061\013\060\011\006\003\125\004\006\023\002\107\102\061\033
\060\031\006\003\125\004\010\023\022\107\162\145\141\164\145\162
\040\115\141\156\143\150\145\163\164\145\162\061\020\060\016\006
\003\125\004\007\023\007\123\141\154\146\157\162\144\061\032\060
\030\006\003\125\004\012\023\021\103\117\115\117\104\117\040\103
\101\040\114\151\155\151\164\145\144\061\047\060\045\006\003\125
\004\003\023\036\103\117\115\117\104\117\040\103\145\162\164\151
\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151
\164\171\060\036\027\015\060\066\061\062\060\061\060\060\060\060
\060\060\132\027\015\062\071\061\062\063\061\062\063\065\071\065
\071\132\060\201\201\061\013\060\011\006\003\125\004\006\023\002
\107\102\061\033\060\031\006\003\125\004\010\023\022\107\162\145
\141\164\145\162\040\115\141\156\143\150\145\163\164\145\162\061
\020\060\016\006\003\125\004\007\023\007\123\141\154\146\157\162
```

\144\061\032\060\030\006\003\125\004\012\023\021\103\117\115\117  
\104\117\040\103\101\040\114\151\155\151\164\145\144\061\047\060  
\045\006\003\125\004\003\023\036\103\117\115\117\104\117\040\103  
\145\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164  
\150\157\162\151\164\171\060\202\001\042\060\015\006\011\052\206  
\110\206\367\015\001\001\001\005\000\003\202\001\017\000\060\202  
\001\012\002\202\001\001\000\320\100\213\213\162\343\221\033\367  
\121\301\033\124\004\230\323\251\277\301\346\212\135\073\207\373  
\273\210\316\015\343\057\077\006\226\360\242\051\120\231\256\333  
\073\241\127\260\164\121\161\315\355\102\221\115\101\376\251\310  
\330\152\206\167\104\273\131\146\227\120\136\264\324\054\160\104  
\317\332\067\225\102\151\074\060\304\161\263\122\360\041\115\241  
\330\272\071\174\034\236\243\044\235\362\203\026\230\252\026\174  
\103\233\025\133\267\256\064\221\376\324\142\046\030\106\232\077  
\353\301\371\361\220\127\353\254\172\015\213\333\162\060\152\146  
\325\340\106\243\160\334\150\331\377\004\110\211\167\336\265\351  
\373\147\155\101\351\274\071\275\062\331\142\002\361\261\250\075  
\156\067\234\342\057\342\323\242\046\213\306\270\125\103\210\341  
\043\076\245\322\044\071\152\107\253\000\324\241\263\251\045\376  
\015\077\247\035\272\323\121\301\013\244\332\254\070\357\125\120  
\044\005\145\106\223\064\117\055\215\255\306\324\041\031\322\216  
\312\005\141\161\007\163\107\345\212\031\022\275\004\115\316\116  
\234\245\110\254\273\046\367\002\003\001\000\001\243\201\216\060  
\201\213\060\035\006\003\125\035\016\004\026\004\024\013\130\345  
\213\306\114\025\067\244\100\251\060\251\041\276\107\066\132\126  
\377\060\016\006\003\125\035\017\001\001\377\004\004\003\002\001  
\006\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001  
\001\377\060\111\006\003\125\035\037\004\102\060\100\060\076\240  
\074\240\072\206\070\150\164\164\160\072\057\057\143\162\154\056  
\143\157\155\157\144\157\143\141\056\143\157\155\057\103\117\115  
\117\104\117\103\145\162\164\151\146\151\143\141\164\151\157\156  
\101\165\164\150\157\162\151\164\171\056\143\162\154\060\015\006  
\011\052\206\110\206\367\015\001\001\005\005\000\003\202\001\001  
\000\076\230\236\233\366\033\351\327\071\267\170\256\035\162\030  
\111\323\207\344\103\202\353\077\311\252\365\250\265\357\125\174  
\041\122\145\371\325\015\341\154\364\076\214\223\163\221\056\002  
\304\116\007\161\157\300\217\070\141\010\250\036\201\012\300\057  
\040\057\101\213\221\334\110\105\274\361\306\336\272\166\153\063  
\310\000\055\061\106\114\355\347\235\317\210\224\377\063\300\126  
\350\044\206\046\270\330\070\070\337\052\153\335\022\314\307\077  
\107\027\114\242\302\006\226\011\326\333\376\077\074\106\101\337  
\130\342\126\017\074\073\301\034\223\065\331\070\122\254\356\310  
\354\056\060\116\224\065\264\044\037\113\170\151\332\362\002\070  
\314\225\122\223\360\160\045\131\234\040\147\304\356\371\213\127  
\141\364\222\166\175\077\204\215\125\267\350\345\254\325\361\365  
\031\126\246\132\373\220\034\257\223\353\345\034\324\147\227\135  
\004\016\276\013\203\246\027\203\271\060\022\240\305\063\025\005  
\271\015\373\307\005\166\343\330\112\215\374\064\027\243\306\041

```
\050\276\060\105\061\036\307\170\276\130\141\070\254\073\342\001
\145
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRICT_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRICT_AFTER CK_BBOOL CK_FALSE

Trust for "COMODO Certification Authority"
Issuer: CN=COMODO Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater
Manchester,C=GB
Serial Number:4e:81:2d:8a:82:65:e0:0b:02:ee:3e:35:02:46:e5:3d
Subject: CN=COMODO Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater
Manchester,C=GB
Not Valid Before: Fri Dec 01 00:00:00 2006
Not Valid After : Mon Dec 31 23:59:59 2029
Fingerprint (SHA-256):
0C:2C:D6:3D:F7:80:6F:A3:99:ED:E8:09:11:6B:57:5B:F8:79:89:F0:65:18:F9:80:8C:86:05:03:17:8B:AF:66
Fingerprint (SHA1): 66:31:BF:9E:F7:4F:9E:B6:C9:D5:A6:0C:BA:6A:BE:D1:F7:BD:EF:7B
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "COMODO Certification Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\146\061\277\236\367\117\236\266\311\325\246\014\272\152\276\321
\367\275\357\173
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\134\110\334\367\102\162\354\126\224\155\034\314\161\065\200\165
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\201\061\013\060\011\006\003\125\004\006\023\002\107\102
\061\033\060\031\006\003\125\004\010\023\022\107\162\145\141\164
\145\162\040\115\141\156\143\150\145\163\164\145\162\061\020\060
\016\006\003\125\004\007\023\007\123\141\154\146\157\162\144\061
\032\060\030\006\003\125\004\012\023\021\103\117\115\117\104\117
\040\103\101\040\114\151\155\151\164\145\144\061\047\060\045\006
\003\125\004\003\023\036\103\117\115\117\104\117\040\103\145\162
\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157
\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\116\201\055\212\202\145\340\013\002\356\076\065\002\106
\345\075
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
```

CKA\_TRUST\_STEP\_UP\_APPROVED CK\_BBOOL CK\_FALSE

#

# Certificate "Network Solutions Certificate Authority"

#

# Issuer: CN=Network Solutions Certificate Authority,O=Network Solutions L.L.C.,C=US

# Serial Number:57:cb:33:6f:c2:5c:16:e6:47:16:17:e3:90:31:68:e0

# Subject: CN=Network Solutions Certificate Authority,O=Network Solutions L.L.C.,C=US

# Not Valid Before: Fri Dec 01 00:00:00 2006

# Not Valid After : Mon Dec 31 23:59:59 2029

# Fingerprint (SHA-256):

15:F0:BA:00:A3:AC:7A:F3:AC:88:4C:07:2B:10:11:A0:77:BD:77:C0:97:F4:01:64:B2:F8:59:8A:BD:83:86:0C

# Fingerprint (SHA1): 74:F8:A3:C3:EF:E7:B3:90:06:4B:83:90:3C:21:64:60:20:E5:DF:CE

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_CERTIFICATE

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "Network Solutions Certificate Authority"

CKA\_CERTIFICATE\_TYPE CK\_CERTIFICATE\_TYPE CKC\_X\_509

CKA\_SUBJECT MULTILINE\_OCTAL

\060\142\061\013\060\011\006\003\125\004\006\023\002\125\123\061  
\041\060\037\006\003\125\004\012\023\030\116\145\164\167\157\162  
\153\040\123\157\154\165\164\151\157\156\163\040\114\056\114\056  
\103\056\061\060\060\056\006\003\125\004\003\023\047\116\145\164  
\167\157\162\153\040\123\157\154\165\164\151\157\156\163\040\103  
\145\162\164\151\146\151\143\141\164\145\040\101\165\164\150\157  
\162\151\164\171

END

CKA\_ID UTF8 "0"

CKA\_ISSUER MULTILINE\_OCTAL

\060\142\061\013\060\011\006\003\125\004\006\023\002\125\123\061  
\041\060\037\006\003\125\004\012\023\030\116\145\164\167\157\162  
\153\040\123\157\154\165\164\151\157\156\163\040\114\056\114\056  
\103\056\061\060\060\056\006\003\125\004\003\023\047\116\145\164  
\167\157\162\153\040\123\157\154\165\164\151\157\156\163\040\103  
\145\162\164\151\146\151\143\141\164\145\040\101\165\164\150\157  
\162\151\164\171

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

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

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\003\346\060\202\002\316\240\003\002\001\002\002\020\127  
\313\063\157\302\134\026\346\107\026\027\343\220\061\150\340\060  
\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060\142  
\061\013\060\011\006\003\125\004\006\023\002\125\123\061\041\060  
\037\006\003\125\004\012\023\030\116\145\164\167\157\162\153\040

\123\157\154\165\164\151\157\156\163\040\114\056\114\056\103\056  
\061\060\060\056\006\003\125\004\003\023\047\116\145\164\167\157  
\162\153\040\123\157\154\165\164\151\157\156\163\040\103\145\162  
\164\151\146\151\143\141\164\145\040\101\165\164\150\157\162\151  
\164\171\060\036\027\015\060\066\061\062\060\061\060\060\060\060  
\060\060\132\027\015\062\071\061\062\063\061\062\063\065\071\065  
\071\132\060\142\061\013\060\011\006\003\125\004\006\023\002\125  
\123\061\041\060\037\006\003\125\004\012\023\030\116\145\164\167  
\157\162\153\040\123\157\154\165\164\151\157\156\163\040\114\056  
\114\056\103\056\061\060\060\056\006\003\125\004\003\023\047\116  
\145\164\167\157\162\153\040\123\157\154\165\164\151\157\156\163  
\040\103\145\162\164\151\146\151\143\141\164\145\040\101\165\164  
\150\157\162\151\164\171\060\202\001\042\060\015\006\011\052\206  
\110\206\367\015\001\001\001\005\000\003\202\001\017\000\060\202  
\001\012\002\202\001\001\000\344\274\176\222\060\155\306\330\216  
\053\013\274\106\316\340\047\226\336\336\371\372\022\323\074\063  
\163\263\004\057\274\161\214\345\237\266\042\140\076\137\135\316  
\011\377\202\014\033\232\121\120\032\046\211\335\325\141\135\031  
\334\022\017\055\012\242\103\135\027\320\064\222\040\352\163\317  
\070\054\006\046\011\172\162\367\372\120\062\370\302\223\323\151  
\242\043\316\101\261\314\344\325\037\066\321\212\072\370\214\143  
\342\024\131\151\355\015\323\177\153\350\270\003\345\117\152\345  
\230\143\151\110\005\276\056\377\063\266\351\227\131\151\370\147  
\031\256\223\141\226\104\025\323\162\260\077\274\152\175\354\110  
\177\215\303\253\252\161\053\123\151\101\123\064\265\260\271\305  
\006\012\304\260\105\365\101\135\156\211\105\173\075\073\046\214  
\164\302\345\322\321\175\262\021\324\373\130\062\042\232\200\311  
\334\375\014\351\177\136\003\227\316\073\000\024\207\047\160\070  
\251\216\156\263\047\166\230\121\340\005\343\041\253\032\325\205  
\042\074\051\265\232\026\305\200\250\364\273\153\060\217\057\106  
\002\242\261\014\042\340\323\002\003\001\000\001\243\201\227\060  
\201\224\060\035\006\003\125\035\016\004\026\004\024\041\060\311  
\373\000\327\116\230\332\207\252\052\320\247\056\261\100\061\247  
\114\060\016\006\003\125\035\017\001\001\377\004\004\003\002\001  
\006\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001  
\001\377\060\122\006\003\125\035\037\004\113\060\111\060\107\240  
\105\240\103\206\101\150\164\164\160\072\057\057\143\162\154\056  
\156\145\164\163\157\154\163\163\154\056\143\157\155\057\116\145  
\164\167\157\162\153\123\157\154\165\164\151\157\156\163\103\145  
\162\164\151\146\151\143\141\164\145\101\165\164\150\157\162\151  
\164\171\056\143\162\154\060\015\006\011\052\206\110\206\367\015  
\001\001\005\005\000\003\202\001\001\000\273\256\113\347\267\127  
\353\177\252\055\267\163\107\205\152\301\344\245\035\344\347\074  
\351\364\131\145\167\265\172\133\132\215\045\066\340\172\227\056  
\070\300\127\140\203\230\006\203\237\271\166\172\156\120\340\272  
\210\054\374\105\314\030\260\231\225\121\016\354\035\270\210\377  
\207\120\034\202\302\343\340\062\200\277\240\013\107\310\303\061  
\357\231\147\062\200\117\027\041\171\014\151\134\336\136\064\256

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

END

CKA\_NSS\_MOZILLA\_CA\_POLICY CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "Network Solutions Certificate Authority"

# Issuer: CN=Network Solutions Certificate Authority,O=Network Solutions L.L.C.,C=US

# Serial Number:57:cb:33:6f:c2:5c:16:e6:47:16:17:e3:90:31:68:e0

# Subject: CN=Network Solutions Certificate Authority,O=Network Solutions L.L.C.,C=US

# Not Valid Before: Fri Dec 01 00:00:00 2006

# Not Valid After : Mon Dec 31 23:59:59 2029

# Fingerprint (SHA-256):

15:F0:BA:00:A3:AC:7A:F3:AC:88:4C:07:2B:10:11:A0:77:BD:77:C0:97:F4:01:64:B2:F8:59:8A:BD:83:86:0C

# Fingerprint (SHA1): 74:F8:A3:C3:EF:E7:B3:90:06:4B:83:90:3C:21:64:60:20:E5:DF:CE

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "Network Solutions Certificate Authority"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

\164\370\243\303\357\347\263\220\006\113\203\220\074\041\144\140  
\040\345\337\316

END

CKA\_CERT\_MD5\_HASH MULTILINE\_OCTAL

\323\363\246\026\300\372\153\035\131\261\055\226\115\016\021\056  
END

CKA\_ISSUER MULTILINE\_OCTAL

\060\142\061\013\060\011\006\003\125\004\006\023\002\125\123\061  
\041\060\037\006\003\125\004\012\023\030\116\145\164\167\157\162  
\153\040\123\157\154\165\164\151\157\156\163\040\114\056\114\056  
\103\056\061\060\060\056\006\003\125\004\003\023\047\116\145\164  
\167\157\162\153\040\123\157\154\165\164\151\157\156\163\040\103  
\145\162\164\151\146\151\143\141\164\145\040\101\165\164\150\157  
\162\151\164\171

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

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



```

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

#
Certificate "COMODO ECC Certification Authority"
#
Issuer: CN=COMODO ECC Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater
Manchester,C=GB
Serial Number: 1f:47:af:aa:62:00:70:50:54:4c:01:9e:9b:63:99:2a
Subject: CN=COMODO ECC Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater
Manchester,C=GB
Not Valid Before: Thu Mar 06 00:00:00 2008
Not Valid After : Mon Jan 18 23:59:59 2038
Fingerprint (SHA-256):
17:93:92:7A:06:14:54:97:89:AD:CE:2F:8F:34:F7:F0:B6:6D:0F:3A:E3:A3:B8:4D:21:EC:15:DB:BA:4F:AD:C7
Fingerprint (SHA1): 9F:74:4E:9F:2B:4D:BA:EC:0F:31:2C:50:B6:56:3B:8E:2D:93:C3:11
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "COMODO ECC Certification Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\205\061\013\060\011\006\003\125\004\006\023\002\107\102
\061\033\060\031\006\003\125\004\010\023\022\107\162\145\141\164
\145\162\040\115\141\156\143\150\145\163\164\145\162\061\020\060
\016\006\003\125\004\007\023\007\123\141\154\146\157\162\144\061
\032\060\030\006\003\125\004\012\023\021\103\117\115\117\104\117
\040\103\101\040\114\151\155\151\164\145\144\061\053\060\051\006
\003\125\004\003\023\042\103\117\115\117\104\117\040\105\103\103
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\205\061\013\060\011\006\003\125\004\006\023\002\107\102
\061\033\060\031\006\003\125\004\010\023\022\107\162\145\141\164
\145\162\040\115\141\156\143\150\145\163\164\145\162\061\020\060
\016\006\003\125\004\007\023\007\123\141\154\146\157\162\144\061
\032\060\030\006\003\125\004\012\023\021\103\117\115\117\104\117
\040\103\101\040\114\151\155\151\164\145\144\061\053\060\051\006
\003\125\004\003\023\042\103\117\115\117\104\117\040\105\103\103
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171
END

```

```
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\037\107\257\252\142\000\160\120\124\114\001\236\233\143
\231\052
END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\211\060\202\002\017\240\003\002\001\002\002\020\037
\107\257\252\142\000\160\120\124\114\001\236\233\143\231\052\060
\012\006\010\052\206\110\316\075\004\003\003\060\201\205\061\013
\060\011\006\003\125\004\006\023\002\107\102\061\033\060\031\006
\003\125\004\010\023\022\107\162\145\141\164\145\162\040\115\141
\156\143\150\145\163\164\145\162\061\020\060\016\006\003\125\004
\007\023\007\123\141\154\146\157\162\144\061\032\060\030\006\003
\125\004\012\023\021\103\117\115\117\104\117\040\103\101\040\114
\151\155\151\164\145\144\061\053\060\051\006\003\125\004\003\023
\042\103\117\115\117\104\117\040\105\103\103\040\103\145\162\164
\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162
\151\164\171\060\036\027\015\060\070\060\063\060\066\060\060\060
\060\060\060\132\027\015\063\070\060\061\061\070\062\063\065\071
\065\071\132\060\201\205\061\013\060\011\006\003\125\004\006\023
\002\107\102\061\033\060\031\006\003\125\004\010\023\022\107\162
\145\141\164\145\162\040\115\141\156\143\150\145\163\164\145\162
\061\020\060\016\006\003\125\004\007\023\007\123\141\154\146\157
\162\144\061\032\060\030\006\003\125\004\012\023\021\103\117\115
\117\104\117\040\103\101\040\114\151\155\151\164\145\144\061\053
\060\051\006\003\125\004\003\023\042\103\117\115\117\104\117\040
\105\103\103\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171\060\166\060\020\006
\007\052\206\110\316\075\002\001\006\005\053\201\004\000\042\003
\142\000\004\003\107\173\057\165\311\202\025\205\373\165\344\221
\026\324\253\142\231\365\076\122\013\006\316\101\000\177\227\341
\012\044\074\035\001\004\356\075\322\215\011\227\014\340\165\344
\372\373\167\212\052\365\003\140\113\066\213\026\043\026\255\011
\161\364\112\364\050\120\264\376\210\034\156\077\154\057\057\011
\131\133\245\133\013\063\231\342\303\075\211\371\152\054\357\262
\323\006\351\243\102\060\100\060\035\006\003\125\035\016\004\026
\004\024\165\161\247\031\110\031\274\235\235\352\101\107\337\224
\304\110\167\231\323\171\060\016\006\003\125\035\017\001\001\377
\004\004\003\002\001\006\060\017\006\003\125\035\023\001\001\377
\004\005\060\003\001\001\377\060\012\006\010\052\206\110\316\075
\004\003\003\003\150\000\060\145\002\061\000\357\003\133\172\254
\267\170\012\162\267\210\337\377\265\106\024\011\012\372\240\346
\175\010\306\032\207\275\030\250\163\275\046\312\140\014\235\316
\231\237\317\134\017\060\341\276\024\061\352\002\060\024\364\223
\074\111\247\063\172\220\106\107\263\143\175\023\233\116\267\157
\030\067\200\123\376\335\040\340\065\232\066\321\307\001\271\346
\334\335\363\377\035\054\072\026\127\331\222\071\326
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
```

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "COMODO ECC Certification Authority"

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

# Serial Number:1f:47:af:aa:62:00:70:50:54:4c:01:9e:9b:63:99:2a

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

# Not Valid Before: Thu Mar 06 00:00:00 2008

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

# Fingerprint (SHA-256):

17:93:92:7A:06:14:54:97:89:AD:CE:2F:8F:34:F7:F0:B6:6D:0F:3A:E3:A3:B8:4D:21:EC:15:DB:BA:4F:AD:C7

# Fingerprint (SHA1): 9F:74:4E:9F:2B:4D:BA:EC:0F:31:2C:50:B6:56:3B:8E:2D:93:C3:11

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "COMODO ECC Certification Authority"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

\237\164\116\237\053\115\272\354\017\061\054\120\266\126\073\216  
\055\223\303\021

END

CKA\_CERT\_MD5\_HASH MULTILINE\_OCTAL

\174\142\377\164\235\061\123\136\150\112\325\170\252\036\277\043  
END

CKA\_ISSUER MULTILINE\_OCTAL

\060\201\205\061\013\060\011\006\003\125\004\006\023\002\107\102  
\061\033\060\031\006\003\125\004\010\023\022\107\162\145\141\164  
\145\162\040\115\141\156\143\150\145\163\164\145\162\061\020\060  
\016\006\003\125\004\007\023\007\123\141\154\146\157\162\144\061  
\032\060\030\006\003\125\004\012\023\021\103\117\115\117\104\117  
\040\103\101\040\114\151\155\151\164\145\144\061\053\060\051\006  
\003\125\004\003\023\042\103\117\115\117\104\117\040\105\103\103  
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101  
\165\164\150\157\162\151\164\171

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

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

END

CKA\_TRUST\_SERVER\_AUTH CK\_TRUST CKT\_NSS\_TRUSTED\_DELEGATOR

CKA\_TRUST\_EMAIL\_PROTECTION CK\_TRUST CKT\_NSS\_TRUSTED\_DELEGATOR

CKA\_TRUST\_CODE\_SIGNING CK\_TRUST CKT\_NSS\_MUST\_VERIFY\_TRUST

CKA\_TRUST\_STEP\_UP\_APPROVED CK\_BBOOL CK\_FALSE

#

# Certificate "OISTE WISKey Global Root GA CA"

```
#
Issuer: CN=OISTE WISeKey Global Root GA CA,OU=OISTE Foundation Endorsed,OU=Copyright (c)
2005,O=WISeKey,C=CH
Serial Number:41:3d:72:c7:f4:6b:1f:81:43:7d:f1:d2:28:54:df:9a
Subject: CN=OISTE WISeKey Global Root GA CA,OU=OISTE Foundation Endorsed,OU=Copyright (c)
2005,O=WISeKey,C=CH
Not Valid Before: Sun Dec 11 16:03:44 2005
Not Valid After : Fri Dec 11 16:09:51 2037
Fingerprint (SHA-256):
41:C9:23:86:6A:B4:CA:D6:B7:AD:57:80:81:58:2E:02:07:97:A6:CB:DF:4F:FF:78:CE:83:96:B3:89:37:D7:F5
Fingerprint (SHA1): 59:22:A1:E1:5A:EA:16:35:21:F8:98:39:6A:46:46:B0:44:1B:0F:A9
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "OISTE WISeKey Global Root GA CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\212\061\013\060\011\006\003\125\004\006\023\002\103\110
\061\020\060\016\006\003\125\004\012\023\007\127\111\123\145\113
\145\171\061\033\060\031\006\003\125\004\013\023\022\103\157\160
\171\162\151\147\150\164\040\050\143\051\040\062\060\060\065\061
\042\060\040\006\003\125\004\013\023\031\117\111\123\124\105\040
\106\157\165\156\144\141\164\151\157\156\040\105\156\144\157\162
\163\145\144\061\050\060\046\006\003\125\004\003\023\037\117\111
\123\124\105\040\127\111\123\145\113\145\171\040\107\154\157\142
\141\154\040\122\157\157\164\040\107\101\040\103\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\212\061\013\060\011\006\003\125\004\006\023\002\103\110
\061\020\060\016\006\003\125\004\012\023\007\127\111\123\145\113
\145\171\061\033\060\031\006\003\125\004\013\023\022\103\157\160
\171\162\151\147\150\164\040\050\143\051\040\062\060\060\065\061
\042\060\040\006\003\125\004\013\023\031\117\111\123\124\105\040
\106\157\165\156\144\141\164\151\157\156\040\105\156\144\157\162
\163\145\144\061\050\060\046\006\003\125\004\003\023\037\117\111
\123\124\105\040\127\111\123\145\113\145\171\040\107\154\157\142
\141\154\040\122\157\157\164\040\107\101\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\101\075\162\307\364\153\037\201\103\175\361\322\050\124
\337\232
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\361\060\202\002\331\240\003\002\001\002\002\020\101
\075\162\307\364\153\037\201\103\175\361\322\050\124\337\232\060
\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060\201
```

\212\061\013\060\011\006\003\125\004\006\023\002\103\110\061\020  
\060\016\006\003\125\004\012\023\007\127\111\123\145\113\145\171  
\061\033\060\031\006\003\125\004\013\023\022\103\157\160\171\162  
\151\147\150\164\040\050\143\051\040\062\060\060\065\061\042\060  
\040\006\003\125\004\013\023\031\117\111\123\124\105\040\106\157  
\165\156\144\141\164\151\157\156\040\105\156\144\157\162\163\145  
\144\061\050\060\046\006\003\125\004\003\023\037\117\111\123\124  
\105\040\127\111\123\145\113\145\171\040\107\154\157\142\141\154  
\040\122\157\157\164\040\107\101\040\103\101\060\036\027\015\060  
\065\061\062\061\061\061\066\060\063\064\064\132\027\015\063\067  
\061\062\061\061\061\066\060\071\065\061\132\060\201\212\061\013  
\060\011\006\003\125\004\006\023\002\103\110\061\020\060\016\006  
\003\125\004\012\023\007\127\111\123\145\113\145\171\061\033\060  
\031\006\003\125\004\013\023\022\103\157\160\171\162\151\147\150  
\164\040\050\143\051\040\062\060\060\065\061\042\060\040\006\003  
\125\004\013\023\031\117\111\123\124\105\040\106\157\165\156\144  
\141\164\151\157\156\040\105\156\144\157\162\163\145\144\061\050  
\060\046\006\003\125\004\003\023\037\117\111\123\124\105\040\127  
\111\123\145\113\145\171\040\107\154\157\142\141\154\040\122\157  
\157\164\040\107\101\040\103\101\060\202\001\042\060\015\006\011  
\052\206\110\206\367\015\001\001\001\005\000\003\202\001\017\000  
\060\202\001\012\002\202\001\001\000\313\117\263\000\233\075\066  
\335\371\321\111\152\153\020\111\037\354\330\053\262\306\370\062  
\201\051\103\225\114\232\031\043\041\025\105\336\343\310\034\121  
\125\133\256\223\350\067\377\053\153\351\324\352\276\052\335\250  
\121\053\327\146\303\141\134\140\002\310\365\316\162\173\073\270  
\362\116\145\010\232\315\244\152\031\301\001\273\163\246\327\366  
\303\335\315\274\244\213\265\231\141\270\001\242\243\324\115\324  
\005\075\221\255\370\264\010\161\144\257\160\361\034\153\176\366  
\303\167\235\044\163\173\344\014\214\341\331\066\341\231\213\005  
\231\013\355\105\061\011\312\302\000\333\367\162\240\226\252\225  
\207\320\216\307\266\141\163\015\166\146\214\334\033\264\143\242  
\237\177\223\023\060\361\241\047\333\331\377\054\125\210\221\240  
\340\117\007\260\050\126\214\030\033\227\104\216\211\335\340\027  
\156\347\052\357\217\071\012\061\204\202\330\100\024\111\056\172  
\101\344\247\376\343\144\314\301\131\161\113\054\041\247\133\175  
\340\035\321\056\201\233\303\330\150\367\275\226\033\254\160\261  
\026\024\013\333\140\271\046\001\005\002\003\001\000\001\243\121  
\060\117\060\013\006\003\125\035\017\004\004\003\002\001\206\060  
\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001\377  
\060\035\006\003\125\035\016\004\026\004\024\263\003\176\256\066  
\274\260\171\321\334\224\046\266\021\276\041\262\151\206\224\060  
\020\006\011\053\006\001\004\001\202\067\025\001\004\003\002\001  
\000\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000  
\003\202\001\001\000\113\241\377\013\207\156\263\371\301\103\261  
\110\363\050\300\035\056\311\011\101\372\224\000\034\244\244\253  
\111\117\217\075\036\357\115\157\275\274\244\366\362\046\060\311  
\020\312\035\210\373\164\031\037\205\105\275\260\154\121\371\066

```
\176\333\365\114\062\072\101\117\133\107\317\350\013\055\266\304
\031\235\164\305\107\306\073\152\017\254\024\333\074\364\163\234
\251\005\337\000\334\164\170\372\370\065\140\131\002\023\030\174
\274\373\115\260\040\155\103\273\140\060\172\147\063\134\305\231
\321\370\055\071\122\163\373\214\252\227\045\134\162\331\010\036
\253\116\074\343\201\061\237\003\246\373\300\376\051\210\125\332
\204\325\120\003\266\342\204\243\246\066\252\021\072\001\341\030
\113\326\104\150\263\075\371\123\164\204\263\106\221\106\226\000
\267\200\054\266\341\343\020\342\333\242\347\050\217\001\226\142
\026\076\000\343\034\245\066\201\030\242\114\122\166\300\021\243
\156\346\035\272\343\132\276\066\123\305\076\165\217\206\151\051
\130\123\265\234\273\157\237\134\305\030\354\335\057\341\230\311
\374\276\337\012\015
```

END

```
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRICT_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRICT_AFTER CK_BBOOL CK_FALSE
```

```
Trust for "OISTE WISeKey Global Root GA CA"
```

```
Issuer: CN=OISTE WISeKey Global Root GA CA,OU=OISTE Foundation Endorsed,OU=Copyright (c)
2005,O=WISeKey,C=CH
```

```
Serial Number:41:3d:72:c7:f4:6b:1f:81:43:7d:f1:d2:28:54:df:9a
```

```
Subject: CN=OISTE WISeKey Global Root GA CA,OU=OISTE Foundation Endorsed,OU=Copyright (c)
2005,O=WISeKey,C=CH
```

```
Not Valid Before: Sun Dec 11 16:03:44 2005
```

```
Not Valid After : Fri Dec 11 16:09:51 2037
```

```
Fingerprint (SHA-256):
```

```
41:C9:23:86:6A:B4:CA:D6:B7:AD:57:80:81:58:2E:02:07:97:A6:CB:DF:4F:FF:78:CE:83:96:B3:89:37:D7:F5
```

```
Fingerprint (SHA1): 59:22:A1:E1:5A:EA:16:35:21:F8:98:39:6A:46:46:B0:44:1B:0F:A9
```

```
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
```

```
CKA_TOKEN CK_BBOOL CK_TRUE
```

```
CKA_PRIVATE CK_BBOOL CK_FALSE
```

```
CKA_MODIFIABLE CK_BBOOL CK_FALSE
```

```
CKA_LABEL UTF8 "OISTE WISeKey Global Root GA CA"
```

```
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
```

```
\131\042\241\341\132\352\026\065\041\370\230\071\152\106\106\260
\104\033\017\251
```

END

```
CKA_CERT_MD5_HASH MULTILINE_OCTAL
```

```
\274\154\121\063\247\351\323\146\143\124\025\162\033\041\222\223
```

END

```
CKA_ISSUER MULTILINE_OCTAL
```

```
\060\201\212\061\013\060\011\006\003\125\004\006\023\002\103\110
\061\020\060\016\006\003\125\004\012\023\007\127\111\123\145\113
\145\171\061\033\060\031\006\003\125\004\013\023\022\103\157\160
\171\162\151\147\150\164\040\050\143\051\040\062\060\060\065\061
\042\060\040\006\003\125\004\013\023\031\117\111\123\124\105\040
\106\157\165\156\144\141\164\151\157\156\040\105\156\144\157\162
```

```
\163\145\144\061\050\060\046\006\003\125\004\003\023\037\117\111
\123\124\105\040\127\111\123\145\113\145\171\040\107\154\157\142
\141\154\040\122\157\157\164\040\107\101\040\103\101
```

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

```
\002\020\101\075\162\307\364\153\037\201\103\175\361\322\050\124
\337\232
```

END

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

#

# Certificate "Certigna"

#

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

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

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

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

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

# Fingerprint (SHA-256):

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

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

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_CERTIFICATE

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "Certigna"

CKA\_CERTIFICATE\_TYPE CK\_CERTIFICATE\_TYPE CKC\_X\_509

CKA\_SUBJECT MULTILINE\_OCTAL

```
\060\064\061\013\060\011\006\003\125\004\006\023\002\106\122\061
\022\060\020\006\003\125\004\012\014\011\104\150\151\155\171\157
\164\151\163\061\021\060\017\006\003\125\004\003\014\010\103\145
\162\164\151\147\156\141
```

END

CKA\_ID UTF8 "0"

CKA\_ISSUER MULTILINE\_OCTAL

```
\060\064\061\013\060\011\006\003\125\004\006\023\002\106\122\061
\022\060\020\006\003\125\004\012\014\011\104\150\151\155\171\157
\164\151\163\061\021\060\017\006\003\125\004\003\014\010\103\145
\162\164\151\147\156\141
```

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

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

END

CKA\_VALUE MULTILINE\_OCTAL

```
\060\202\003\250\060\202\002\220\240\003\002\001\002\002\011\000
```

\376\334\343\001\017\311\110\377\060\015\006\011\052\206\110\206  
\367\015\001\001\005\005\000\060\064\061\013\060\011\006\003\125  
\004\006\023\002\106\122\061\022\060\020\006\003\125\004\012\014  
\011\104\150\151\155\171\157\164\151\163\061\021\060\017\006\003  
\125\004\003\014\010\103\145\162\164\151\147\156\141\060\036\027  
\015\060\067\060\066\062\071\061\065\061\063\060\065\132\027\015  
\062\067\060\066\062\071\061\065\061\063\060\065\132\060\064\061  
\013\060\011\006\003\125\004\006\023\002\106\122\061\022\060\020  
\006\003\125\004\012\014\011\104\150\151\155\171\157\164\151\163  
\061\021\060\017\006\003\125\004\003\014\010\103\145\162\164\151  
\147\156\141\060\202\001\042\060\015\006\011\052\206\110\206\367  
\015\001\001\001\005\000\003\202\001\017\000\060\202\001\012\002  
\202\001\001\000\310\150\361\311\326\326\263\064\165\046\202\036  
\354\264\276\352\134\341\046\355\021\107\141\341\242\174\026\170  
\100\041\344\140\236\132\310\143\341\304\261\226\222\377\030\155  
\151\043\341\053\142\367\335\342\066\057\221\007\271\110\317\016  
\354\171\266\054\347\064\113\160\010\045\243\074\207\033\031\362  
\201\007\017\070\220\031\323\021\376\206\264\362\321\136\036\036  
\226\315\200\154\316\073\061\223\266\362\240\320\251\225\022\175  
\245\232\314\153\310\204\126\212\063\251\347\042\025\123\026\360  
\314\027\354\127\137\351\242\012\230\011\336\343\137\234\157\334  
\110\343\205\013\025\132\246\272\237\254\110\343\011\262\367\364  
\062\336\136\064\276\034\170\135\102\133\316\016\042\217\115\220  
\327\175\062\030\263\013\054\152\277\216\077\024\021\211\040\016  
\167\024\265\075\224\010\207\367\045\036\325\262\140\000\354\157  
\052\050\045\156\052\076\030\143\027\045\077\076\104\040\026\366  
\046\310\045\256\005\112\264\347\143\054\363\214\026\123\176\134  
\373\021\032\010\301\106\142\237\042\270\361\302\215\151\334\372  
\072\130\006\337\002\003\001\000\001\243\201\274\060\201\271\060  
\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001\377  
\060\035\006\003\125\035\016\004\026\004\024\032\355\376\101\071  
\220\264\044\131\276\001\362\122\325\105\366\132\071\334\021\060  
\144\006\003\125\035\043\004\135\060\133\200\024\032\355\376\101  
\071\220\264\044\131\276\001\362\122\325\105\366\132\071\334\021  
\241\070\244\066\060\064\061\013\060\011\006\003\125\004\006\023  
\002\106\122\061\022\060\020\006\003\125\004\012\014\011\104\150  
\151\155\171\157\164\151\163\061\021\060\017\006\003\125\004\003  
\014\010\103\145\162\164\151\147\156\141\202\011\000\376\334\343  
\001\017\311\110\377\060\016\006\003\125\035\017\001\001\377\004  
\004\003\002\001\006\060\021\006\011\140\206\110\001\206\370\102  
\001\001\004\004\003\002\000\007\060\015\006\011\052\206\110\206  
\367\015\001\001\005\005\000\003\202\001\001\000\205\003\036\222  
\161\366\102\257\341\243\141\236\353\363\300\017\362\245\324\332  
\225\346\326\276\150\066\075\176\156\037\114\212\357\321\017\041  
\155\136\245\122\143\316\022\370\357\052\332\157\353\067\376\023  
\002\307\313\073\076\042\153\332\141\056\177\324\162\075\335\060  
\341\036\114\100\031\214\017\327\234\321\203\060\173\230\131\334  
\175\306\271\014\051\114\241\063\242\353\147\072\145\204\323\226



```
\342\355\166\105\160\217\265\053\336\371\043\326\111\156\074\024
\265\306\237\065\036\120\320\301\217\152\160\104\002\142\313\256
\035\150\101\247\252\127\350\123\252\007\322\006\366\325\024\006
\013\221\003\165\054\154\162\265\141\225\232\015\213\271\015\347
\365\337\124\315\336\346\330\326\011\010\227\143\345\301\056\260
\267\104\046\300\046\300\257\125\060\236\073\325\066\052\031\004
\364\134\036\377\317\054\267\377\320\375\207\100\021\325\021\043
\273\110\300\041\251\244\050\055\375\025\370\260\116\053\364\060
\133\041\374\021\221\064\276\101\357\173\235\227\165\377\227\225
\300\226\130\057\352\273\106\327\273\344\331\056
```

END

```
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRICT_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRICT_AFTER CK_BBOOL CK_FALSE
```

# Trust for "Certigna"

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

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

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

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

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

# Fingerprint (SHA-256):

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

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

```
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
```

```
CKA_TOKEN CK_BBOOL CK_TRUE
```

```
CKA_PRIVATE CK_BBOOL CK_FALSE
```

```
CKA_MODIFIABLE CK_BBOOL CK_FALSE
```

```
CKA_LABEL UTF8 "Certigna"
```

```
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
```

```
\261\056\023\143\105\206\244\157\032\262\140\150\067\130\055\304
\254\375\224\227
```

END

```
CKA_CERT_MD5_HASH MULTILINE_OCTAL
```

```
\253\127\246\133\175\102\202\031\265\330\130\046\050\136\375\377
```

END

```
CKA_ISSUER MULTILINE_OCTAL
```

```
\060\064\061\013\060\011\006\003\125\004\006\023\002\106\122\061
\022\060\020\006\003\125\004\012\014\011\104\150\151\155\171\157
\164\151\163\061\021\060\017\006\003\125\004\003\014\010\103\145
\162\164\151\147\156\141
```

END

```
CKA_SERIAL_NUMBER MULTILINE_OCTAL
```

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

END

```
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
```

```
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
```

```
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
```

CKA\_TRUST\_STEP\_UP\_APPROVED CK\_BBOOL CK\_FALSE

#

# Certificate "ePKI Root Certification Authority"

#

# Issuer: OU=ePKI Root Certification Authority,O="Chunghwa Telecom Co., Ltd.",C=TW

# Serial Number:15:c8:bd:65:47:5c:af:b8:97:00:5e:e4:06:d2:bc:9d

# Subject: OU=ePKI Root Certification Authority,O="Chunghwa Telecom Co., Ltd.",C=TW

# Not Valid Before: Mon Dec 20 02:31:27 2004

# Not Valid After : Wed Dec 20 02:31:27 2034

# Fingerprint (SHA-256):

C0:A6:F4:DC:63:A2:4B:FD:CF:54:EF:2A:6A:08:2A:0A:72:DE:35:80:3E:2F:F5:FF:52:7A:E5:D8:72:06:DF:D5

# Fingerprint (SHA1): 67:65:0D:F1:7E:8E:7E:5B:82:40:A4:F4:56:4B:CF:E2:3D:69:C6:F0

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_CERTIFICATE

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "ePKI Root Certification Authority"

CKA\_CERTIFICATE\_TYPE CK\_CERTIFICATE\_TYPE CKC\_X\_509

CKA\_SUBJECT MULTILINE\_OCTAL

\060\136\061\013\060\011\006\003\125\004\006\023\002\124\127\061  
\043\060\041\006\003\125\004\012\014\032\103\150\165\156\147\150  
\167\141\040\124\145\154\145\143\157\155\040\103\157\056\054\040  
\114\164\144\056\061\052\060\050\006\003\125\004\013\014\041\145  
\120\113\111\040\122\157\157\164\040\103\145\162\164\151\146\151  
\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171

END

CKA\_ID UTF8 "0"

CKA\_ISSUER MULTILINE\_OCTAL

\060\136\061\013\060\011\006\003\125\004\006\023\002\124\127\061  
\043\060\041\006\003\125\004\012\014\032\103\150\165\156\147\150  
\167\141\040\124\145\154\145\143\157\155\040\103\157\056\054\040  
\114\164\144\056\061\052\060\050\006\003\125\004\013\014\041\145  
\120\113\111\040\122\157\157\164\040\103\145\162\164\151\146\151  
\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

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

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\005\260\060\202\003\230\240\003\002\001\002\002\020\025  
\310\275\145\107\134\257\270\227\000\136\344\006\322\274\235\060  
\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060\136  
\061\013\060\011\006\003\125\004\006\023\002\124\127\061\043\060  
\041\006\003\125\004\012\014\032\103\150\165\156\147\150\167\141  
\040\124\145\154\145\143\157\155\040\103\157\056\054\040\114\164  
\144\056\061\052\060\050\006\003\125\004\013\014\041\145\120\113

\111\040\122\157\157\164\040\103\145\162\164\151\146\151\143\141  
\164\151\157\156\040\101\165\164\150\157\162\151\164\171\060\036  
\027\015\060\064\061\062\062\060\060\062\063\061\062\067\132\027  
\015\063\064\061\062\062\060\060\062\063\061\062\067\132\060\136  
\061\013\060\011\006\003\125\004\006\023\002\124\127\061\043\060  
\041\006\003\125\004\012\014\032\103\150\165\156\147\150\167\141  
\040\124\145\154\145\143\157\155\040\103\157\056\054\040\114\164  
\144\056\061\052\060\050\006\003\125\004\013\014\041\145\120\113  
\111\040\122\157\157\164\040\103\145\162\164\151\146\151\143\141  
\164\151\157\156\040\101\165\164\150\157\162\151\164\171\060\202  
\002\042\060\015\006\011\052\206\110\206\367\015\001\001\001\005  
\000\003\202\002\017\000\060\202\002\012\002\202\002\001\000\341  
\045\017\356\215\333\210\063\165\147\315\255\037\175\072\116\155  
\235\323\057\024\363\143\164\313\001\041\152\067\352\204\120\007  
\113\046\133\011\103\154\041\236\152\310\325\003\365\140\151\217  
\314\360\042\344\037\347\367\152\042\061\267\054\025\362\340\376  
\000\152\103\377\207\145\306\265\032\301\247\114\155\042\160\041  
\212\061\362\227\164\211\011\022\046\034\236\312\331\022\242\225  
\074\332\351\147\277\010\240\144\343\326\102\267\105\357\227\364  
\366\365\327\265\112\025\002\130\175\230\130\113\140\274\315\327  
\015\232\023\063\123\321\141\371\172\325\327\170\263\232\063\367  
\000\206\316\035\115\224\070\257\250\354\170\121\160\212\134\020  
\203\121\041\367\021\075\064\206\136\345\110\315\227\201\202\065  
\114\031\354\145\366\153\305\005\241\356\107\023\326\263\041\047  
\224\020\012\331\044\073\272\276\104\023\106\060\077\227\074\330  
\327\327\152\356\073\070\343\053\324\227\016\271\033\347\007\111  
\177\067\052\371\167\170\317\124\355\133\106\235\243\200\016\221  
\103\301\326\133\137\024\272\237\246\215\044\107\100\131\277\162  
\070\262\066\154\067\377\231\321\135\016\131\012\253\151\367\300  
\262\004\105\172\124\000\256\276\123\366\265\347\341\370\074\243  
\061\322\251\376\041\122\144\305\246\147\360\165\007\006\224\024  
\201\125\306\047\344\001\217\027\301\152\161\327\276\113\373\224  
\130\175\176\021\063\261\102\367\142\154\030\326\317\011\150\076  
\177\154\366\036\217\142\255\245\143\333\011\247\037\042\102\101  
\036\157\231\212\076\327\371\077\100\172\171\260\245\001\222\322  
\235\075\010\025\245\020\001\055\263\062\166\250\225\015\263\172  
\232\373\007\020\170\021\157\341\217\307\272\017\045\032\164\052  
\345\034\230\101\231\337\041\207\350\225\006\152\012\263\152\107  
\166\145\366\072\317\217\142\027\031\173\012\050\315\032\322\203  
\036\041\307\054\277\276\377\141\150\267\147\033\273\170\115\215  
\316\147\345\344\301\216\267\043\146\342\235\220\165\064\230\251  
\066\053\212\232\224\271\235\354\314\212\261\370\045\211\134\132  
\266\057\214\037\155\171\044\247\122\150\303\204\065\342\146\215  
\143\016\045\115\325\031\262\346\171\067\247\042\235\124\061\002  
\003\001\000\001\243\152\060\150\060\035\006\003\125\035\016\004  
\026\004\024\036\014\367\266\147\362\341\222\046\011\105\300\125  
\071\056\167\077\102\112\242\060\014\006\003\125\035\023\004\005  
\060\003\001\001\377\060\071\006\004\147\052\007\000\004\061\060

\057\060\055\002\001\000\060\011\006\005\053\016\003\002\032\005  
\000\060\007\006\005\147\052\003\000\000\004\024\105\260\302\307  
\012\126\174\356\133\170\014\225\371\030\123\301\246\034\330\020  
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\003  
\202\002\001\000\011\263\203\123\131\001\076\225\111\271\361\201  
\272\371\166\040\043\265\047\140\164\324\152\231\064\136\154\000  
\123\331\237\362\246\261\044\007\104\152\052\306\245\216\170\022  
\350\107\331\130\033\023\052\136\171\233\237\012\052\147\246\045  
\077\006\151\126\163\303\212\146\110\373\051\201\127\164\006\312  
\234\352\050\350\070\147\046\053\361\325\265\077\145\223\370\066  
\135\216\215\215\100\040\207\031\352\357\047\300\075\264\071\017  
\045\173\150\120\164\125\234\014\131\175\132\075\101\224\045\122  
\010\340\107\054\025\061\031\325\277\007\125\306\273\022\265\227  
\364\137\203\205\272\161\301\331\154\201\021\166\012\012\260\277  
\202\227\367\352\075\372\372\354\055\251\050\224\073\126\335\322  
\121\056\256\300\275\010\025\214\167\122\064\226\326\233\254\323  
\035\216\141\017\065\173\233\256\071\151\013\142\140\100\040\066  
\217\257\373\066\356\055\010\112\035\270\277\233\134\370\352\245  
\033\240\163\246\330\370\156\340\063\004\137\150\252\047\207\355  
\331\301\220\234\355\275\343\152\065\257\143\337\253\030\331\272  
\346\351\112\352\120\212\017\141\223\036\342\055\031\342\060\224  
\065\222\135\016\266\007\257\031\200\217\107\220\121\113\056\115  
\335\205\342\322\012\122\012\027\232\374\032\260\120\002\345\001  
\243\143\067\041\114\104\304\233\121\231\021\016\163\234\006\217  
\124\056\247\050\136\104\071\207\126\055\067\275\205\104\224\341  
\014\113\054\234\303\222\205\064\141\313\017\270\233\112\103\122  
\376\064\072\175\270\351\051\334\166\251\310\060\370\024\161\200  
\306\036\066\110\164\042\101\134\207\202\350\030\161\213\101\211  
\104\347\176\130\133\250\270\215\023\351\247\154\303\107\355\263  
\032\235\142\256\215\202\352\224\236\335\131\020\303\255\335\342  
\115\343\061\325\307\354\350\362\260\376\222\036\026\012\032\374  
\331\363\370\047\266\311\276\035\264\154\144\220\177\364\344\304  
\133\327\067\256\102\016\335\244\032\157\174\210\124\305\026\156  
\341\172\150\056\370\072\277\015\244\074\211\073\170\247\116\143  
\203\004\041\010\147\215\362\202\111\320\133\375\261\315\017\203  
\204\324\076\040\205\367\112\075\053\234\375\052\012\011\115\352  
\201\370\021\234

END

CKA\_NSS\_MOZILLA\_CA\_POLICY CK\_BBOOL CK\_TRUE  
CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE  
CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "ePKI Root Certification Authority"  
# Issuer: OU=ePKI Root Certification Authority,O="Chunghwa Telecom Co., Ltd.",C=TW  
# Serial Number:15:c8:bd:65:47:5c:af:b8:97:00:5e:e4:06:d2:bc:9d  
# Subject: OU=ePKI Root Certification Authority,O="Chunghwa Telecom Co., Ltd.",C=TW  
# Not Valid Before: Mon Dec 20 02:31:27 2004  
# Not Valid After : Wed Dec 20 02:31:27 2034

```

Fingerprint (SHA-256):
C0:A6:F4:DC:63:A2:4B:FD:CF:54:EF:2A:6A:08:2A:0A:72:DE:35:80:3E:2F:F5:FF:52:7A:E5:D8:72:06:DF:D5
Fingerprint (SHA1): 67:65:0D:F1:7E:8E:7E:5B:82:40:A4:F4:56:4B:CF:E2:3D:69:C6:F0
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ePKI Root Certification Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\147\145\015\361\176\216\176\133\202\100\244\364\126\113\317\342
\075\151\306\360
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\033\056\000\312\046\006\220\075\255\376\157\025\150\323\153\263
END
CKA_ISSUER MULTILINE_OCTAL
\060\136\061\013\060\011\006\003\125\004\006\023\002\124\127\061
\043\060\041\006\003\125\004\012\014\032\103\150\165\156\147\150
\167\141\040\124\145\154\145\143\157\155\040\103\157\056\054\040
\114\164\144\056\061\052\060\050\006\003\125\004\013\014\041\145
\120\113\111\040\122\157\157\164\040\103\145\162\164\151\146\151
\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\025\310\275\145\107\134\257\270\227\000\136\344\006\322
\274\235
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "certSIGN ROOT CA"
#
Issuer: OU=certSIGN ROOT CA,O=certSIGN,C=RO
Serial Number:20:06:05:16:70:02
Subject: OU=certSIGN ROOT CA,O=certSIGN,C=RO
Not Valid Before: Tue Jul 04 17:20:04 2006
Not Valid After : Fri Jul 04 17:20:04 2031
Fingerprint (SHA-256):
EA:A9:62:C4:FA:4A:6B:AF:EB:E4:15:19:6D:35:1C:CD:88:8D:4F:53:F3:FA:8A:E6:D7:C4:66:A9:4E:60:42:BB
Fingerprint (SHA1): FA:B7:EE:36:97:26:62:FB:2D:B0:2A:F6:BF:03:FD:E8:7C:4B:2F:9B
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "certSIGN ROOT CA"

```

CKA\_CERTIFICATE\_TYPE CK\_CERTIFICATE\_TYPE CKC\_X\_509

CKA\_SUBJECT MULTILINE\_OCTAL

\060\073\061\013\060\011\006\003\125\004\006\023\002\122\117\061  
\021\060\017\006\003\125\004\012\023\010\143\145\162\164\123\111  
\107\116\061\031\060\027\006\003\125\004\013\023\020\143\145\162  
\164\123\111\107\116\040\122\117\117\124\040\103\101

END

CKA\_ID UTF8 "0"

CKA\_ISSUER MULTILINE\_OCTAL

\060\073\061\013\060\011\006\003\125\004\006\023\002\122\117\061  
\021\060\017\006\003\125\004\012\023\010\143\145\162\164\123\111  
\107\116\061\031\060\027\006\003\125\004\013\023\020\143\145\162  
\164\123\111\107\116\040\122\117\117\124\040\103\101

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

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

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\003\070\060\202\002\040\240\003\002\001\002\002\006\040  
\006\005\026\160\002\060\015\006\011\052\206\110\206\367\015\001  
\001\005\005\000\060\073\061\013\060\011\006\003\125\004\006\023  
\002\122\117\061\021\060\017\006\003\125\004\012\023\010\143\145  
\162\164\123\111\107\116\061\031\060\027\006\003\125\004\013\023  
\020\143\145\162\164\123\111\107\116\040\122\117\117\124\040\103  
\101\060\036\027\015\060\066\060\067\060\064\061\067\062\060\060  
\064\132\027\015\063\061\060\067\060\064\061\067\062\060\060\064  
\132\060\073\061\013\060\011\006\003\125\004\006\023\002\122\117  
\061\021\060\017\006\003\125\004\012\023\010\143\145\162\164\123  
\111\107\116\061\031\060\027\006\003\125\004\013\023\020\143\145  
\162\164\123\111\107\116\040\122\117\117\124\040\103\101\060\202  
\001\042\060\015\006\011\052\206\110\206\367\015\001\001\001\005  
\000\003\202\001\017\000\060\202\001\012\002\202\001\001\000\267  
\063\271\176\310\045\112\216\265\333\264\050\033\252\127\220\350  
\321\042\323\144\272\323\223\350\324\254\206\141\100\152\140\127  
\150\124\204\115\274\152\124\002\005\377\337\233\232\052\256\135  
\007\217\112\303\050\177\357\373\053\372\171\361\307\255\360\020  
\123\044\220\213\146\311\250\210\253\257\132\243\000\351\276\272  
\106\356\133\163\173\054\027\202\201\136\142\054\241\002\145\263  
\275\305\053\000\176\304\374\003\063\127\015\355\342\372\316\135  
\105\326\070\315\065\266\262\301\320\234\201\112\252\344\262\001  
\134\035\217\137\231\304\261\255\333\210\041\353\220\010\202\200  
\363\060\243\103\346\220\202\256\125\050\111\355\133\327\251\020  
\070\016\376\217\114\133\233\106\352\101\365\260\010\164\303\320  
\210\063\266\174\327\164\337\334\204\321\103\016\165\071\241\045  
\100\050\352\170\313\016\054\056\071\235\214\213\156\026\034\057  
\046\202\020\342\343\145\224\012\004\300\136\367\135\133\370\020  
\342\320\272\172\113\373\336\067\000\000\032\133\050\343\322\234  
\163\076\062\207\230\241\311\121\057\327\336\254\063\263\117\002

```
\003\001\000\001\243\102\060\100\060\017\006\003\125\035\023\001
\001\377\004\005\060\003\001\001\377\060\016\006\003\125\035\017
\001\001\377\004\004\003\002\001\306\060\035\006\003\125\035\016
\004\026\004\024\340\214\233\333\045\111\263\361\174\206\326\262
\102\207\013\320\153\240\331\344\060\015\006\011\052\206\110\206
\367\015\001\001\005\005\000\003\202\001\001\000\076\322\034\211
\056\065\374\370\165\335\346\177\145\210\364\162\114\311\054\327
\062\116\363\335\031\171\107\275\216\073\133\223\017\120\111\044
\023\153\024\006\162\357\011\323\241\241\343\100\204\311\347\030
\062\164\074\110\156\017\237\113\324\367\036\323\223\206\144\124
\227\143\162\120\325\125\317\372\040\223\002\242\233\303\043\223
\116\026\125\166\240\160\171\155\315\041\037\317\057\055\274\031
\343\210\061\370\131\032\201\011\310\227\246\164\307\140\304\133
\314\127\216\262\165\375\033\002\011\333\131\157\162\223\151\367
\061\101\326\210\070\277\207\262\275\026\171\371\252\344\276\210
\045\335\141\047\043\034\265\061\007\004\066\264\032\220\275\240
\164\161\120\211\155\274\024\343\017\206\256\361\253\076\307\240
\011\314\243\110\321\340\333\144\347\222\265\317\257\162\103\160
\213\371\303\204\074\023\252\176\222\233\127\123\223\372\160\302
\221\016\061\371\233\147\135\351\226\070\136\137\263\163\116\210
\025\147\336\236\166\020\142\040\276\125\151\225\103\000\071\115
\366\356\260\132\116\111\104\124\130\137\102\203
```

END

```
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRICT_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRICT_AFTER CK_BBOOL CK_FALSE
```

```
Trust for "certSIGN ROOT CA"
```

```
Issuer: OU=certSIGN ROOT CA,O=certSIGN,C=RO
```

```
Serial Number:20:06:05:16:70:02
```

```
Subject: OU=certSIGN ROOT CA,O=certSIGN,C=RO
```

```
Not Valid Before: Tue Jul 04 17:20:04 2006
```

```
Not Valid After : Fri Jul 04 17:20:04 2031
```

```
Fingerprint (SHA-256):
```

```
EA:A9:62:C4:FA:4A:6B:AF:EB:E4:15:19:6D:35:1C:CD:88:8D:4F:53:F3:FA:8A:E6:D7:C4:66:A9:4E:60:42:BB
```

```
Fingerprint (SHA1): FA:B7:EE:36:97:26:62:FB:2D:B0:2A:F6:BF:03:FD:E8:7C:4B:2F:9B
```

```
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
```

```
CKA_TOKEN CK_BBOOL CK_TRUE
```

```
CKA_PRIVATE CK_BBOOL CK_FALSE
```

```
CKA_MODIFIABLE CK_BBOOL CK_FALSE
```

```
CKA_LABEL UTF8 "certSIGN ROOT CA"
```

```
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
```

```
\372\267\356\066\227\046\142\373\055\260\052\366\277\003\375\350
```

```
\174\113\057\233
```

END

```
CKA_CERT_MD5_HASH MULTILINE_OCTAL
```

```
\030\230\300\326\351\072\374\371\260\365\014\367\113\001\104\027
```

END

```

CKA_ISSUER MULTILINE_OCTAL
\060\073\061\013\060\011\006\003\125\004\006\023\002\122\117\061
\021\060\017\006\003\125\004\012\023\010\143\145\162\164\123\111
\107\116\061\031\060\027\006\003\125\004\013\023\020\143\145\162
\164\123\111\107\116\040\122\117\117\124\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\006\040\006\005\026\160\002
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "NetLock Arany (Class Gold) Ftanúsítvány"
#
Issuer: CN=NetLock Arany (Class Gold) F.tan..s..tv..ny,OU=Tan..s..tv..nykiad..k (Certification
Services),O=NetLock Kft.,L=Budapest,C=HU
Serial Number:49:41:2c:e4:00:10
Subject: CN=NetLock Arany (Class Gold) F.tan..s..tv..ny,OU=Tan..s..tv..nykiad..k (Certification
Services),O=NetLock Kft.,L=Budapest,C=HU
Not Valid Before: Thu Dec 11 15:08:21 2008
Not Valid After : Wed Dec 06 15:08:21 2028
Fingerprint (SHA-256):
6C:61:DA:C3:A2:DE:F0:31:50:6B:E0:36:D2:A6:FE:40:19:94:FB:D1:3D:F9:C8:D4:66:59:92:74:C4:46:EC:98
Fingerprint (SHA1): 06:08:3F:59:3F:15:A1:04:A0:69:A4:6B:A9:03:D0:06:B7:97:09:91
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "NetLock Arany (Class Gold) Ftanúsítvány"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\247\061\013\060\011\006\003\125\004\006\023\002\110\125
\061\021\060\017\006\003\125\004\007\014\010\102\165\144\141\160
\145\163\164\061\025\060\023\006\003\125\004\012\014\014\116\145
\164\114\157\143\153\040\113\146\164\056\061\067\060\065\006\003
\125\004\013\014\056\124\141\156\303\272\163\303\255\164\166\303
\241\156\171\153\151\141\144\303\263\153\040\050\103\145\162\164
\151\146\151\143\141\164\151\157\156\040\123\145\162\166\151\143
\145\163\051\061\065\060\063\006\003\125\004\003\014\054\116\145
\164\114\157\143\153\040\101\162\141\156\171\040\050\103\154\141
\163\163\040\107\157\154\144\051\040\106\305\221\164\141\156\303
\272\163\303\255\164\166\303\241\156\171
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL

```



\060\201\247\061\013\060\011\006\003\125\004\006\023\002\110\125  
\061\021\060\017\006\003\125\004\007\014\010\102\165\144\141\160  
\145\163\164\061\025\060\023\006\003\125\004\012\014\014\116\145  
\164\114\157\143\153\040\113\146\164\056\061\067\060\065\006\003  
\125\004\013\014\056\124\141\156\303\272\163\303\255\164\166\303  
\241\156\171\153\151\141\144\303\263\153\040\050\103\145\162\164  
\151\146\151\143\141\164\151\157\156\040\123\145\162\166\151\143  
\145\163\051\061\065\060\063\006\003\125\004\003\014\054\116\145  
\164\114\157\143\153\040\101\162\141\156\171\040\050\103\154\141  
\163\163\040\107\157\154\144\051\040\106\305\221\164\141\156\303  
\272\163\303\255\164\166\303\241\156\171

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

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

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\004\025\060\202\002\375\240\003\002\001\002\002\006\111  
\101\054\344\000\020\060\015\006\011\052\206\110\206\367\015\001  
\001\013\005\000\060\201\247\061\013\060\011\006\003\125\004\006  
\023\002\110\125\061\021\060\017\006\003\125\004\007\014\010\102  
\165\144\141\160\145\163\164\061\025\060\023\006\003\125\004\012  
\014\014\116\145\164\114\157\143\153\040\113\146\164\056\061\067  
\060\065\006\003\125\004\013\014\056\124\141\156\303\272\163\303  
\255\164\166\303\241\156\171\153\151\141\144\303\263\153\040\050  
\103\145\162\164\151\146\151\143\141\164\151\157\156\040\123\145  
\162\166\151\143\145\163\051\061\065\060\063\006\003\125\004\003  
\014\054\116\145\164\114\157\143\153\040\101\162\141\156\171\040  
\050\103\154\141\163\163\040\107\157\154\144\051\040\106\305\221  
\164\141\156\303\272\163\303\255\164\166\303\241\156\171\060\036  
\027\015\060\070\061\062\061\061\061\065\060\070\062\061\132\027  
\015\062\070\061\062\060\066\061\065\060\070\062\061\132\060\201  
\247\061\013\060\011\006\003\125\004\006\023\002\110\125\061\021  
\060\017\006\003\125\004\007\014\010\102\165\144\141\160\145\163  
\164\061\025\060\023\006\003\125\004\012\014\014\116\145\164\114  
\157\143\153\040\113\146\164\056\061\067\060\065\006\003\125\004  
\013\014\056\124\141\156\303\272\163\303\255\164\166\303\241\156  
\171\153\151\141\144\303\263\153\040\050\103\145\162\164\151\146  
\151\143\141\164\151\157\156\040\123\145\162\166\151\143\145\163  
\051\061\065\060\063\006\003\125\004\003\014\054\116\145\164\114  
\157\143\153\040\101\162\141\156\171\040\050\103\154\141\163\163  
\040\107\157\154\144\051\040\106\305\221\164\141\156\303\272\163  
\303\255\164\166\303\241\156\171\060\202\001\042\060\015\006\011  
\052\206\110\206\367\015\001\001\001\005\000\003\202\001\017\000  
\060\202\001\012\002\202\001\001\000\304\044\136\163\276\113\155  
\024\303\241\364\343\227\220\156\322\060\105\036\074\356\147\331  
\144\340\032\212\177\312\060\312\203\343\040\301\343\364\072\323  
\224\137\032\174\133\155\277\060\117\204\047\366\237\037\111\274  
\306\231\012\220\362\017\365\177\103\204\067\143\121\213\172\245

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

END

CKA\_NSS\_MOZILLA\_CA\_POLICY CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "NetLock Arany (Class Gold) Ftanúsítvány"

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

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

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

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

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

# Fingerprint (SHA-256):

```

6C:61:DA:C3:A2:DE:F0:31:50:6B:E0:36:D2:A6:FE:40:19:94:FB:D1:3D:F9:C8:D4:66:59:92:74:C4:46:EC:98
Fingerprint (SHA1): 06:08:3F:59:3F:15:A1:04:A0:69:A4:6B:A9:03:D0:06:B7:97:09:91
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "NetLock Arany (Class Gold) Ftanúsítvány"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\006\010\077\131\077\025\241\004\240\151\244\153\251\003\320\006
\267\227\011\221
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\305\241\267\377\163\335\326\327\064\062\030\337\374\074\255\210
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\247\061\013\060\011\006\003\125\004\006\023\002\110\125
\061\021\060\017\006\003\125\004\007\014\010\102\165\144\141\160
\145\163\164\061\025\060\023\006\003\125\004\012\014\014\116\145
\164\114\157\143\153\040\113\146\164\056\061\067\060\065\006\003
\125\004\013\014\056\124\141\156\303\272\163\303\255\164\166\303
\241\156\171\153\151\141\144\303\263\153\040\050\103\145\162\164
\151\146\151\143\141\164\151\157\156\040\123\145\162\166\151\143
\145\163\051\061\065\060\063\006\003\125\004\003\014\054\116\145
\164\114\157\143\153\040\101\162\141\156\171\040\050\103\154\141
\163\163\040\107\157\154\144\051\040\106\305\221\164\141\156\303
\272\163\303\255\164\166\303\241\156\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\006\111\101\054\344\000\020
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Hongkong Post Root CA 1"
#
Issuer: CN=Hongkong Post Root CA 1,O=Hongkong Post,C=HK
Serial Number: 1000 (0x3e8)
Subject: CN=Hongkong Post Root CA 1,O=Hongkong Post,C=HK
Not Valid Before: Thu May 15 05:13:14 2003
Not Valid After : Mon May 15 04:52:29 2023
Fingerprint (SHA-256):
F9:E6:7D:33:6C:51:00:2A:C0:54:C6:32:02:2D:66:DD:A2:E7:E3:FF:F1:0A:D0:61:ED:31:D8:BB:B4:10:CF:B2
Fingerprint (SHA1): D6:DA:A8:20:8D:09:D2:15:4D:24:B5:2F:CB:34:6E:B2:58:B2:8A:58
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE

```

```
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Hongkong Post Root CA 1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\107\061\013\060\011\006\003\125\004\006\023\002\110\113\061
\026\060\024\006\003\125\004\012\023\015\110\157\156\147\153\157
\156\147\040\120\157\163\164\061\040\060\036\006\003\125\004\003
\023\027\110\157\156\147\153\157\156\147\040\120\157\163\164\040
\122\157\157\164\040\103\101\040\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\107\061\013\060\011\006\003\125\004\006\023\002\110\113\061
\026\060\024\006\003\125\004\012\023\015\110\157\156\147\153\157
\156\147\040\120\157\163\164\061\040\060\036\006\003\125\004\003
\023\027\110\157\156\147\153\157\156\147\040\120\157\163\164\040
\122\157\157\164\040\103\101\040\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\002\003\350
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\060\060\202\002\030\240\003\002\001\002\002\002\003
\350\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000
\060\107\061\013\060\011\006\003\125\004\006\023\002\110\113\061
\026\060\024\006\003\125\004\012\023\015\110\157\156\147\153\157
\156\147\040\120\157\163\164\061\040\060\036\006\003\125\004\003
\023\027\110\157\156\147\153\157\156\147\040\120\157\163\164\040
\122\157\157\164\040\103\101\040\061\060\036\027\015\060\063\060\065
\065\061\065\060\065\061\063\061\064\132\027\015\062\063\060\065
\061\065\060\064\065\062\062\071\132\060\107\061\013\060\011\006
\003\125\004\006\023\002\110\113\061\026\060\024\006\003\125\004
\012\023\015\110\157\156\147\153\157\156\147\040\120\157\163\164
\061\040\060\036\006\003\125\004\003\023\027\110\157\156\147\153
\157\156\147\040\120\157\163\164\040\122\157\157\164\040\103\101
\040\061\060\202\001\042\060\015\006\011\052\206\110\206\367\015
\001\001\001\005\000\003\202\001\017\000\060\202\001\012\002\202
\001\001\000\254\377\070\266\351\146\002\111\343\242\264\341\220
\371\100\217\171\371\342\275\171\376\002\275\356\044\222\035\042
\366\332\205\162\151\376\327\077\011\324\335\221\265\002\234\320
\215\132\341\125\303\120\206\271\051\046\302\343\331\240\361\151
\003\050\040\200\105\042\055\126\247\073\124\225\126\042\131\037
\050\337\037\040\075\155\242\066\276\043\240\261\156\265\261\047
\077\071\123\011\352\253\152\350\164\262\302\145\134\216\277\174
\303\170\204\315\236\026\374\365\056\117\040\052\010\237\167\363
\305\036\304\232\122\146\036\110\136\343\020\006\217\042\230\341
\145\216\033\135\043\146\073\270\245\062\121\310\206\252\241\251
```

\236\177\166\224\302\246\154\267\101\360\325\310\006\070\346\324  
\014\342\363\073\114\155\120\214\304\203\047\301\023\204\131\075  
\236\165\164\266\330\002\136\072\220\172\300\102\066\162\354\152  
\115\334\357\304\000\337\023\030\127\137\046\170\310\326\012\171  
\167\277\367\257\267\166\271\245\013\204\027\135\020\352\157\341  
\253\225\021\137\155\074\243\134\115\203\133\362\263\031\212\200  
\213\013\207\002\003\001\000\001\243\046\060\044\060\022\006\003  
\125\035\023\001\001\377\004\010\060\006\001\001\377\002\001\003  
\060\016\006\003\125\035\017\001\001\377\004\004\003\002\001\306  
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\003  
\202\001\001\000\016\106\325\074\256\342\207\331\136\201\213\002  
\230\101\010\214\114\274\332\333\356\047\033\202\347\152\105\354  
\026\213\117\205\240\363\262\160\275\132\226\272\312\156\155\356  
\106\213\156\347\052\056\226\263\031\063\353\264\237\250\262\067  
\356\230\250\227\266\056\266\147\047\324\246\111\375\034\223\145  
\166\236\102\057\334\042\154\232\117\362\132\025\071\261\161\327  
\053\121\350\155\034\230\300\331\052\364\241\202\173\325\311\101  
\242\043\001\164\070\125\213\017\271\056\147\242\040\004\067\332  
\234\013\323\027\041\340\217\227\171\064\157\204\110\002\040\063  
\033\346\064\104\237\221\160\364\200\136\204\103\302\051\322\154  
\022\024\344\141\215\254\020\220\236\204\120\273\360\226\157\105  
\237\212\363\312\154\117\372\021\072\025\025\106\303\315\037\203  
\133\055\101\022\355\120\147\101\023\075\041\253\224\212\252\116  
\174\301\261\373\247\326\265\047\057\227\253\156\340\035\342\321  
\034\054\037\104\342\374\276\221\241\234\373\326\051\123\163\206  
\237\123\330\103\016\135\326\143\202\161\035\200\164\312\366\342  
\002\153\331\132

END

CKA\_NSS\_MOZILLA\_CA\_POLICY CK\_BBOOL CK\_TRUE  
CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE  
CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "Hongkong Post Root CA 1"

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

# Serial Number: 1000 (0x3e8)

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

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

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

# Fingerprint (SHA-256):

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

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

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "Hongkong Post Root CA 1"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

\326\332\250\040\215\011\322\025\115\044\265\057\313\064\156\262

```

\130\262\212\130
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\250\015\157\071\170\271\103\155\167\102\155\230\132\314\043\312
END
CKA_ISSUER MULTILINE_OCTAL
\060\107\061\013\060\011\006\003\125\004\006\023\002\110\113\061
\026\060\024\006\003\125\004\012\023\015\110\157\156\147\153\157
\156\147\040\120\157\163\164\061\040\060\036\006\003\125\004\003
\023\027\110\157\156\147\153\157\156\147\040\120\157\163\164\040
\122\157\157\164\040\103\101\040\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\002\003\350
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "SecureSign RootCA11"
#
Issuer: CN=SecureSign RootCA11,O="Japan Certification Services, Inc.",C=JP
Serial Number: 1 (0x1)
Subject: CN=SecureSign RootCA11,O="Japan Certification Services, Inc.",C=JP
Not Valid Before: Wed Apr 08 04:56:47 2009
Not Valid After : Sun Apr 08 04:56:47 2029
Fingerprint (SHA-256):
BF:0F:EE:FB:9E:3A:58:1A:D5:F9:E9:DB:75:89:98:57:43:D2:61:08:5C:4D:31:4F:6F:5D:72:59:AA:42:16:12
Fingerprint (SHA1): 3B:C4:9F:48:F8:F3:73:A0:9C:1E:BD:F8:5B:B1:C3:65:C7:D8:11:B3
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SecureSign RootCA11"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\130\061\013\060\011\006\003\125\004\006\023\002\112\120\061
\053\060\051\006\003\125\004\012\023\042\112\141\160\141\156\040
\103\145\162\164\151\146\151\143\141\164\151\157\156\040\123\145
\162\166\151\143\145\163\054\040\111\156\143\056\061\034\060\032
\006\003\125\004\003\023\023\123\145\143\165\162\145\123\151\147
\156\040\122\157\157\164\103\101\061\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\130\061\013\060\011\006\003\125\004\006\023\002\112\120\061

```

\053\060\051\006\003\125\004\012\023\042\112\141\160\141\156\040  
\103\145\162\164\151\146\151\143\141\164\151\157\156\040\123\145  
\162\166\151\143\145\163\054\040\111\156\143\056\061\034\060\032  
\006\003\125\004\003\023\023\123\145\143\165\162\145\123\151\147  
\156\040\122\157\157\164\103\101\061\061

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

\002\001\001

END

CKA\_VALUE MULTILINE\_OCTAL

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

```
\011\052\206\110\206\367\015\001\001\005\005\000\003\202\001\001
\000\240\241\070\026\146\056\247\126\037\041\234\006\372\035\355
\271\042\305\070\046\330\116\117\354\243\177\171\336\106\041\241
\207\167\217\007\010\232\262\244\305\257\017\062\230\013\174\146
\051\266\233\175\045\122\111\103\253\114\056\053\156\172\160\257
\026\016\343\002\154\373\102\346\030\235\105\330\125\310\350\073
\335\347\341\364\056\013\034\064\134\154\130\112\373\214\210\120
\137\225\034\277\355\253\042\265\145\263\205\272\236\017\270\255
\345\172\033\212\120\072\035\275\015\274\173\124\120\013\271\102
\257\125\240\030\201\255\145\231\357\276\344\234\277\304\205\253
\101\262\124\157\334\045\315\355\170\342\216\014\215\011\111\335
\143\173\132\151\226\002\041\250\275\122\131\351\175\065\313\310
\122\312\177\201\376\331\153\323\367\021\355\045\337\370\347\371
\244\372\162\227\204\123\015\245\320\062\030\121\166\131\024\154
\017\353\354\137\200\214\165\103\203\303\205\230\377\114\236\055
\015\344\167\203\223\116\265\226\007\213\050\023\233\214\031\215
\101\047\111\100\356\336\346\043\104\071\334\241\042\326\272\003
\362
```

END

```
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRICT_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRICT_AFTER CK_BBOOL CK_FALSE
```

```
Trust for "SecureSign RootCA11"
```

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

```
Serial Number: 1 (0x1)
```

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

```
Not Valid Before: Wed Apr 08 04:56:47 2009
```

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

```
Fingerprint (SHA-256):
```

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

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

```
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
```

```
CKA_TOKEN CK_BBOOL CK_TRUE
```

```
CKA_PRIVATE CK_BBOOL CK_FALSE
```

```
CKA_MODIFIABLE CK_BBOOL CK_FALSE
```

```
CKA_LABEL UTF8 "SecureSign RootCA11"
```

```
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
```

```
\073\304\237\110\370\363\163\240\234\036\275\370\133\261\303\145
\307\330\021\263
```

END

```
CKA_CERT_MD5_HASH MULTILINE_OCTAL
```

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

END

```
CKA_ISSUER MULTILINE_OCTAL
```

```
\060\130\061\013\060\011\006\003\125\004\006\023\002\112\120\061
\053\060\051\006\003\125\004\012\023\042\112\141\160\141\156\040
\103\145\162\164\151\146\151\143\141\164\151\157\156\040\123\145
```



```

\162\166\151\143\145\163\054\040\111\156\143\056\061\034\060\032
\006\003\125\004\003\023\023\123\145\143\165\162\145\123\151\147
\156\040\122\157\157\164\103\101\061\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Microsec e-Szigno Root CA 2009"
#
Issuer: E=info@e-szigno.hu,CN=Microsec e-Szigno Root CA 2009,O=Microsec Ltd.,L=Budapest,C=HU
Serial Number:00:c2:7e:43:04:4e:47:3f:19
Subject: E=info@e-szigno.hu,CN=Microsec e-Szigno Root CA 2009,O=Microsec Ltd.,L=Budapest,C=HU
Not Valid Before: Tue Jun 16 11:30:18 2009
Not Valid After : Sun Dec 30 11:30:18 2029
Fingerprint (SHA-256):
3C:5F:81:FE:A5:FA:B8:2C:64:BF:A2:EA:EC:AF:CD:E8:E0:77:FC:86:20:A7:CA:E5:37:16:3D:F3:6E:DB:F3:78
Fingerprint (SHA1): 89:DF:74:FE:5C:F4:0F:4A:80:F9:E3:37:7D:54:DA:91:E1:01:31:8E
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Microsec e-Szigno Root CA 2009"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\202\061\013\060\011\006\003\125\004\006\023\002\110\125
\061\021\060\017\006\003\125\004\007\014\010\102\165\144\141\160
\145\163\164\061\026\060\024\006\003\125\004\012\014\015\115\151
\143\162\157\163\145\143\040\114\164\144\056\061\047\060\045\006
\003\125\004\003\014\036\115\151\143\162\157\163\145\143\040\145
\055\123\172\151\147\156\157\040\122\157\157\164\040\103\101\040
\062\060\060\071\061\037\060\035\006\011\052\206\110\206\367\015
\001\011\001\026\020\151\156\146\157\100\145\055\163\172\151\147
\156\157\056\150\165
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\202\061\013\060\011\006\003\125\004\006\023\002\110\125
\061\021\060\017\006\003\125\004\007\014\010\102\165\144\141\160
\145\163\164\061\026\060\024\006\003\125\004\012\014\015\115\151
\143\162\157\163\145\143\040\114\164\144\056\061\047\060\045\006
\003\125\004\003\014\036\115\151\143\162\157\163\145\143\040\145
\055\123\172\151\147\156\157\040\122\157\157\164\040\103\101\040

```

\062\060\060\071\061\037\060\035\006\011\052\206\110\206\367\015  
\001\011\001\026\020\151\156\146\157\100\145\055\163\172\151\147  
\156\157\056\150\165

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

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

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\004\012\060\202\002\362\240\003\002\001\002\002\011\000  
\302\176\103\004\116\107\077\031\060\015\006\011\052\206\110\206  
\367\015\001\001\013\005\000\060\201\202\061\013\060\011\006\003  
\125\004\006\023\002\110\125\061\021\060\017\006\003\125\004\007  
\014\010\102\165\144\141\160\145\163\164\061\026\060\024\006\003  
\125\004\012\014\015\115\151\143\162\157\163\145\143\040\114\164  
\144\056\061\047\060\045\006\003\125\004\003\014\036\115\151\143  
\162\157\163\145\143\040\145\055\123\172\151\147\156\157\040\122  
\157\157\164\040\103\101\040\062\060\060\071\061\037\060\035\006  
\011\052\206\110\206\367\015\001\011\001\026\020\151\156\146\157  
\100\145\055\163\172\151\147\156\157\056\150\165\060\036\027\015  
\060\071\060\066\061\066\061\061\063\060\061\070\132\027\015\062  
\071\061\062\063\060\061\061\063\060\061\070\132\060\201\202\061  
\013\060\011\006\003\125\004\006\023\002\110\125\061\021\060\017  
\006\003\125\004\007\014\010\102\165\144\141\160\145\163\164\061  
\026\060\024\006\003\125\004\012\014\015\115\151\143\162\157\163  
\145\143\040\114\164\144\056\061\047\060\045\006\003\125\004\003  
\014\036\115\151\143\162\157\163\145\143\040\145\055\123\172\151  
\147\156\157\040\122\157\157\164\040\103\101\040\062\060\060\071  
\061\037\060\035\006\011\052\206\110\206\367\015\001\011\001\026  
\020\151\156\146\157\100\145\055\163\172\151\147\156\157\056\150  
\165\060\202\001\042\060\015\006\011\052\206\110\206\367\015\001  
\001\001\005\000\003\202\001\017\000\060\202\001\012\002\202\001  
\001\000\351\370\217\363\143\255\332\206\330\247\340\102\373\317  
\221\336\246\046\370\231\245\143\160\255\233\256\312\063\100\175  
\155\226\156\241\016\104\356\341\023\235\224\102\122\232\275\165  
\205\164\054\250\016\035\223\266\030\267\214\054\250\317\373\134  
\161\271\332\354\376\350\176\217\344\057\035\262\250\165\207\330  
\267\241\345\073\317\231\112\106\320\203\031\175\300\241\022\034  
\225\155\112\364\330\307\245\115\063\056\205\071\100\165\176\024  
\174\200\022\230\120\307\101\147\270\240\200\141\124\246\154\116  
\037\340\235\016\007\351\311\272\063\347\376\300\125\050\054\002  
\200\247\031\365\236\334\125\123\003\227\173\007\110\377\231\373  
\067\212\044\304\131\314\120\020\143\216\252\251\032\260\204\032  
\206\371\137\273\261\120\156\244\321\012\314\325\161\176\037\247  
\033\174\365\123\156\042\137\313\053\346\324\174\135\256\326\302  
\306\114\345\005\001\331\355\127\374\301\043\171\374\372\310\044  
\203\225\363\265\152\121\001\320\167\326\351\022\241\371\032\203  
\373\202\033\271\260\227\364\166\006\063\103\111\240\377\013\265  
\372\265\002\003\001\000\001\243\201\200\060\176\060\017\006\003

\125\035\023\001\001\377\004\005\060\003\001\001\377\060\016\006  
\003\125\035\017\001\001\377\004\004\003\002\001\006\060\035\006  
\003\125\035\016\004\026\004\024\313\017\306\337\102\103\314\075  
\313\265\110\043\241\032\172\246\052\273\064\150\060\037\006\003  
\125\035\043\004\030\060\026\200\024\313\017\306\337\102\103\314  
\075\313\265\110\043\241\032\172\246\052\273\064\150\060\033\006  
\003\125\035\021\004\024\060\022\201\020\151\156\146\157\100\145  
\055\163\172\151\147\156\157\056\150\165\060\015\006\011\052\206  
\110\206\367\015\001\001\013\005\000\003\202\001\001\000\311\321  
\016\136\056\325\314\263\174\076\313\374\075\377\015\050\225\223  
\004\310\277\332\315\171\270\103\220\360\244\276\357\362\357\041  
\230\274\324\324\135\006\366\356\102\354\060\154\240\252\251\312  
\361\257\212\372\077\013\163\152\076\352\056\100\176\037\256\124  
\141\171\353\056\010\067\327\043\363\214\237\276\035\261\341\244  
\165\333\240\342\124\024\261\272\034\051\244\030\366\022\272\242  
\024\024\343\061\065\310\100\377\267\340\005\166\127\301\034\131  
\362\370\277\344\355\045\142\134\204\360\176\176\037\263\276\371  
\267\041\021\314\003\001\126\160\247\020\222\036\033\064\201\036  
\255\234\032\303\004\074\355\002\141\326\036\006\363\137\072\207  
\362\053\361\105\207\345\075\254\321\307\127\204\275\153\256\334  
\330\371\266\033\142\160\013\075\066\311\102\362\062\327\172\141  
\346\322\333\075\317\310\251\311\233\334\333\130\104\327\157\070  
\257\177\170\323\243\255\032\165\272\034\301\066\174\217\036\155  
\034\303\165\106\256\065\005\246\366\134\075\041\356\126\360\311  
\202\042\055\172\124\253\160\303\175\042\145\202\160\226

END

CKA\_NSS\_MOZILLA\_CA\_POLICY CK\_BBOOL CK\_TRUE  
CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE  
CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "Microsec e-Szigno Root CA 2009"

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

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

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

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

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

# Fingerprint (SHA-256):

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

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

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "Microsec e-Szigno Root CA 2009"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

\211\337\164\376\134\364\017\112\200\371\343\067\175\124\332\221  
\341\001\061\216

END

```

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\370\111\364\003\274\104\055\203\276\110\151\175\051\144\374\261
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\202\061\013\060\011\006\003\125\004\006\023\002\110\125
\061\021\060\017\006\003\125\004\007\014\010\102\165\144\141\160
\145\163\164\061\026\060\024\006\003\125\004\012\014\015\115\151
\143\162\157\163\145\143\040\114\164\144\056\061\047\060\045\006
\003\125\004\003\014\036\115\151\143\162\157\163\145\143\040\145
\055\123\172\151\147\156\157\040\122\157\157\164\040\103\101\040
\062\060\060\071\061\037\060\035\006\011\052\206\110\206\367\015
\001\011\001\026\020\151\156\146\157\100\145\055\163\172\151\147
\156\157\056\150\165
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\011\000\302\176\103\004\116\107\077\031
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "GlobalSign Root CA - R3"
#
Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R3
Serial Number:04:00:00:00:00:01:21:58:53:08:a2
Subject: CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R3
Not Valid Before: Wed Mar 18 10:00:00 2009
Not Valid After : Sun Mar 18 10:00:00 2029
Fingerprint (SHA-256):
CB:B5:22:D7:B7:F1:27:AD:6A:01:13:86:5B:DF:1C:D4:10:2E:7D:07:59:AF:63:5A:7C:F4:72:0D:C9:63:C5:3B
Fingerprint (SHA1): D6:9B:56:11:48:F0:1C:77:C5:45:78:C1:09:26:DF:5B:85:69:76:AD
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign Root CA - R3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\114\061\040\060\036\006\003\125\004\013\023\027\107\154\157
\142\141\154\123\151\147\156\040\122\157\157\164\040\103\101\040
\055\040\122\063\061\023\060\021\006\003\125\004\012\023\012\107
\154\157\142\141\154\123\151\147\156\061\023\060\021\006\003\125
\004\003\023\012\107\154\157\142\141\154\123\151\147\156
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL

```

\060\114\061\040\060\036\006\003\125\004\013\023\027\107\154\157  
\142\141\154\123\151\147\156\040\122\157\157\164\040\103\101\040  
\055\040\122\063\061\023\060\021\006\003\125\004\012\023\012\107  
\154\157\142\141\154\123\151\147\156\061\023\060\021\006\003\125  
\004\003\023\012\107\154\157\142\141\154\123\151\147\156

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

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

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\003\137\060\202\002\107\240\003\002\001\002\002\013\004  
\000\000\000\000\001\041\130\123\010\242\060\015\006\011\052\206  
\110\206\367\015\001\001\001\005\000\060\114\061\040\060\036\006  
\003\125\004\013\023\027\107\154\157\142\141\154\123\151\147\156  
\040\122\157\157\164\040\103\101\040\055\040\122\063\061\023\060  
\021\006\003\125\004\012\023\012\107\154\157\142\141\154\123\151  
\147\156\061\023\060\021\006\003\125\004\003\023\012\107\154\157  
\142\141\154\123\151\147\156\060\036\027\015\060\071\060\063\061  
\070\061\060\060\060\060\060\132\027\015\062\071\060\063\061\070  
\061\060\060\060\060\060\132\060\114\061\040\060\036\006\003\125  
\004\013\023\027\107\154\157\142\141\154\123\151\147\156\040\122  
\157\157\164\040\103\101\040\055\040\122\063\061\023\060\021\006  
\003\125\004\012\023\012\107\154\157\142\141\154\123\151\147\156  
\061\023\060\021\006\003\125\004\003\023\012\107\154\157\142\141  
\154\123\151\147\156\060\202\001\042\060\015\006\011\052\206\110  
\206\367\015\001\001\001\005\000\003\202\001\017\000\060\202\001  
\012\002\202\001\001\000\314\045\166\220\171\006\170\042\026\365  
\300\203\266\204\312\050\236\375\005\166\021\305\255\210\162\374  
\106\002\103\307\262\212\235\004\137\044\313\056\113\341\140\202  
\106\341\122\253\014\201\107\160\154\335\144\321\353\365\054\243  
\017\202\075\014\053\256\227\327\266\024\206\020\171\273\073\023  
\200\167\214\010\341\111\322\152\142\057\037\136\372\226\150\337  
\211\047\225\070\237\006\327\076\311\313\046\131\015\163\336\260  
\310\351\046\016\203\025\306\357\133\213\322\004\140\312\111\246  
\050\366\151\073\366\313\310\050\221\345\235\212\141\127\067\254  
\164\024\334\164\340\072\356\162\057\056\234\373\320\273\277\365  
\075\000\341\006\063\350\202\053\256\123\246\072\026\163\214\335  
\101\016\040\072\300\264\247\241\351\262\117\220\056\062\140\351  
\127\313\271\004\222\150\150\345\070\046\140\165\262\237\167\377  
\221\024\357\256\040\111\374\255\100\025\110\321\002\061\141\031  
\136\270\227\357\255\167\267\144\232\172\277\137\301\023\357\233  
\142\373\015\154\340\124\151\026\251\003\332\156\351\203\223\161  
\166\306\151\205\202\027\002\003\001\000\001\243\102\060\100\060  
\016\006\003\125\035\017\001\001\377\004\004\003\002\001\006\060  
\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001\377  
\060\035\006\003\125\035\016\004\026\004\024\217\360\113\177\250  
\056\105\044\256\115\120\372\143\232\213\336\342\335\033\274\060  
\015\006\011\052\206\110\206\367\015\001\001\013\005\000\003\202

```
\001\001\000\113\100\333\300\120\252\376\310\014\357\367\226\124
\105\111\273\226\000\011\101\254\263\023\206\206\050\007\063\312
\153\346\164\271\272\000\055\256\244\012\323\365\361\361\017\212
\277\163\147\112\203\307\104\173\170\340\257\156\154\157\003\051
\216\063\071\105\303\216\344\271\127\154\252\374\022\226\354\123
\306\055\344\044\154\271\224\143\373\334\123\150\147\126\076\203
\270\317\065\041\303\311\150\376\316\332\302\123\252\314\220\212
\351\360\135\106\214\225\335\172\130\050\032\057\035\336\315\000
\067\101\217\355\104\155\327\123\050\227\176\363\147\004\036\025
\327\212\226\264\323\336\114\047\244\114\033\163\163\166\364\027
\231\302\037\172\016\343\055\010\255\012\034\054\377\074\253\125
\016\017\221\176\066\353\303\127\111\276\341\056\055\174\140\213
\303\101\121\023\043\235\316\367\062\153\224\001\250\231\347\054
\063\037\072\073\045\322\206\100\316\073\054\206\170\311\141\057
\024\272\356\333\125\157\337\204\356\005\011\115\275\050\330\162
\316\323\142\120\145\036\353\222\227\203\061\331\263\265\312\107
\130\077\137
```

END

```
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRICT_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRICT_AFTER CK_BBOOL CK_FALSE
```

```
Trust for "GlobalSign Root CA - R3"
```

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

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

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

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

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

```
Fingerprint (SHA-256):
```

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

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

```
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
```

```
CKA_TOKEN CK_BBOOL CK_TRUE
```

```
CKA_PRIVATE CK_BBOOL CK_FALSE
```

```
CKA_MODIFIABLE CK_BBOOL CK_FALSE
```

```
CKA_LABEL UTF8 "GlobalSign Root CA - R3"
```

```
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
```

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

END

```
CKA_CERT_MD5_HASH MULTILINE_OCTAL
```

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

END

```
CKA_ISSUER MULTILINE_OCTAL
```

```
\060\114\061\040\060\036\006\003\125\004\013\023\027\107\154\157
\142\141\154\123\151\147\156\040\122\157\157\164\040\103\101\040
\055\040\122\063\061\023\060\021\006\003\125\004\012\023\012\107
\154\157\142\141\154\123\151\147\156\061\023\060\021\006\003\125
```

```

\004\003\023\012\107\154\157\142\141\154\123\151\147\156
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\013\004\000\000\000\000\001\041\130\123\010\242
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Autoridad de Certificacion Firmaprofesional CIF A62634068"
#
Issuer: CN=Autoridad de Certificacion Firmaprofesional CIF A62634068,C=ES
Serial Number:53:ec:3b:ee:fb:b2:48:5f
Subject: CN=Autoridad de Certificacion Firmaprofesional CIF A62634068,C=ES
Not Valid Before: Wed May 20 08:38:15 2009
Not Valid After : Tue Dec 31 08:38:15 2030
Fingerprint (SHA-256):
04:04:80:28:BF:1F:28:64:D4:8F:9A:D4:D8:32:94:36:6A:82:88:56:55:3F:3B:14:30:3F:90:14:7F:5D:40:EF
Fingerprint (SHA1): AE:C5:FB:3F:C8:E1:BF:C4:E5:4F:03:07:5A:9A:E8:00:B7:F7:B6:FA
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Autoridad de Certificacion Firmaprofesional CIF A62634068"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\121\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\102\060\100\006\003\125\004\003\014\071\101\165\164\157\162\151
\144\141\144\040\144\145\040\103\145\162\164\151\146\151\143\141
\143\151\157\156\040\106\151\162\155\141\160\162\157\146\145\163
\151\157\156\141\154\040\103\111\106\040\101\066\062\066\063\064
\060\066\070
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\121\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\102\060\100\006\003\125\004\003\014\071\101\165\164\157\162\151
\144\141\144\040\144\145\040\103\145\162\164\151\146\151\143\141
\143\151\157\156\040\106\151\162\155\141\160\162\157\146\145\163
\151\157\156\141\154\040\103\111\106\040\101\066\062\066\063\064
\060\066\070
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\123\354\073\356\373\262\110\137
END
CKA_VALUE MULTILINE_OCTAL

```

\060\202\006\024\060\202\003\374\240\003\002\001\002\002\010\123  
\354\073\356\373\262\110\137\060\015\006\011\052\206\110\206\367  
\015\001\001\005\005\000\060\121\061\013\060\011\006\003\125\004  
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CKA_NSS_SERVER_DISTRICT_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRICT_AFTER CK_BBOOL CK_FALSE

Trust for "Autoridad de Certificacion Firmaprofesional CIF A62634068"
Issuer: CN=Autoridad de Certificacion Firmaprofesional CIF A62634068,C=ES
Serial Number:53:ec:3b:ee:fb:b2:48:5f
Subject: CN=Autoridad de Certificacion Firmaprofesional CIF A62634068,C=ES
Not Valid Before: Wed May 20 08:38:15 2009
Not Valid After : Tue Dec 31 08:38:15 2030
Fingerprint (SHA-256):
04:04:80:28:BF:1F:28:64:D4:8F:9A:D4:D8:32:94:36:6A:82:88:56:55:3F:3B:14:30:3F:90:14:7F:5D:40:EF
Fingerprint (SHA1): AE:C5:FB:3F:C8:E1:BF:C4:E5:4F:03:07:5A:9A:E8:00:B7:F7:B6:FA
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Autoridad de Certificacion Firmaprofesional CIF A62634068"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\256\305\373\077\310\341\277\304\345\117\003\007\132\232\350\000
\267\367\266\372
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
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END
CKA_ISSUER MULTILINE_OCTAL
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\102\060\100\006\003\125\004\003\014\071\101\165\164\157\162\151
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\143\151\157\156\040\106\151\162\155\141\160\162\157\146\145\163
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\060\066\070
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 "Izenpe.com"
#
Issuer: CN=Izenpe.com,O=IZENPE S.A.,C=ES

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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
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\040\123\056\101\056\061\023\060\021\006\003\125\004\003\014\012
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\102\163\005\224\103\325\216\074\116\001\072\031\245\037\106\116  
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\150\103\110\262\333\353\163\044\347\221\177\124\244\266\200\076  
\235\243\074\114\162\302\127\304\240\324\314\070\047\316\325\006  
\236\242\110\331\351\237\316\202\160\066\223\232\073\337\226\041  
\343\131\267\014\332\221\067\360\375\131\132\263\231\310\151\154  
\103\046\001\065\143\140\125\211\003\072\165\330\272\112\331\124  
\377\356\336\200\330\055\321\070\325\136\055\013\230\175\076\154  
\333\374\046\210\307

END

CKA\_NSS\_MOZILLA\_CA\_POLICY CK\_BBOOL CK\_TRUE  
CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE  
CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "Izenpe.com"

# Issuer: CN=Izenpe.com,O=IZENPE S.A.,C=ES

# Serial Number:00:b0:b7:5a:16:48:5f:bf:e1:cb:f5:8b:d7:19:e6:7d

# Subject: CN=Izenpe.com,O=IZENPE S.A.,C=ES

# Not Valid Before: Thu Dec 13 13:08:28 2007

# Not Valid After : Sun Dec 13 08:27:25 2037

# Fingerprint (SHA-256):

25:30:CC:8E:98:32:15:02:BA:D9:6F:9B:1F:BA:1B:09:9E:2D:29:9E:0F:45:48:BB:91:4F:36:3B:C0:D4:53:1F

# Fingerprint (SHA1): 2F:78:3D:25:52:18:A7:4A:65:39:71:B5:2C:A2:9C:45:15:6F:E9:19

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

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
\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_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Chambers of Commerce Root - 2008"
#
Issuer: CN=Chambers of Commerce Root - 2008,O=AC Camerfirma S.A.,serialNumber=A82743287,L=Madrid
(see current address at www.camerfirma.com/address),C=EU
Serial Number:00:a3:da:42:7e:a4:b1:ae:da
Subject: CN=Chambers of Commerce Root - 2008,O=AC Camerfirma S.A.,serialNumber=A82743287,L=Madrid
(see current address at www.camerfirma.com/address),C=EU
Not Valid Before: Fri Aug 01 12:29:50 2008
Not Valid After : Sat Jul 31 12:29:50 2038
Fingerprint (SHA-256):
06:3E:4A:FA:C4:91:DF:D3:32:F3:08:9B:85:42:E9:46:17:D8:93:D7:FE:94:4E:10:A7:93:7E:E2:9D:96:93:C0
Fingerprint (SHA1): 78:6A:74:AC:76:AB:14:7F:9C:6A:30:50:BA:9E:A8:7E:FE:9A:CE:3C
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Chambers of Commerce Root - 2008"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\256\061\013\060\011\006\003\125\004\006\023\002\105\125
\061\103\060\101\006\003\125\004\007\023\072\115\141\144\162\151
\144\040\050\163\145\145\040\143\165\162\162\145\156\164\040\141
\144\144\162\145\163\163\040\141\164\040\167\167\167\056\143\141

```

\155\145\162\146\151\162\155\141\056\143\157\155\057\141\144\144  
\162\145\163\163\051\061\022\060\020\006\003\125\004\005\023\011  
\101\070\062\067\064\063\062\070\067\061\033\060\031\006\003\125  
\004\012\023\022\101\103\040\103\141\155\145\162\146\151\162\155  
\141\040\123\056\101\056\061\051\060\047\006\003\125\004\003\023  
\040\103\150\141\155\142\145\162\163\040\157\146\040\103\157\155  
\155\145\162\143\145\040\122\157\157\164\040\055\040\062\060\060  
\070

END

CKA\_ID UTF8 "0"

CKA\_ISSUER MULTILINE\_OCTAL

\060\201\256\061\013\060\011\006\003\125\004\006\023\002\105\125  
\061\103\060\101\006\003\125\004\007\023\072\115\141\144\162\151  
\144\040\050\163\145\145\040\143\165\162\162\145\156\164\040\141  
\144\144\162\145\163\163\040\141\164\040\167\167\167\056\143\141  
\155\145\162\146\151\162\155\141\056\143\157\155\057\141\144\144  
\162\145\163\163\051\061\022\060\020\006\003\125\004\005\023\011  
\101\070\062\067\064\063\062\070\067\061\033\060\031\006\003\125  
\004\012\023\022\101\103\040\103\141\155\145\162\146\151\162\155  
\141\040\123\056\101\056\061\051\060\047\006\003\125\004\003\023  
\040\103\150\141\155\142\145\162\163\040\157\146\040\103\157\155  
\155\145\162\143\145\040\122\157\157\164\040\055\040\062\060\060  
\070

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

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

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\007\117\060\202\005\067\240\003\002\001\002\002\011\000  
\243\332\102\176\244\261\256\332\060\015\006\011\052\206\110\206  
\367\015\001\001\005\005\000\060\201\256\061\013\060\011\006\003  
\125\004\006\023\002\105\125\061\103\060\101\006\003\125\004\007  
\023\072\115\141\144\162\151\144\040\050\163\145\145\040\143\165  
\162\162\145\156\164\040\141\144\144\162\145\163\163\040\141\164  
\040\167\167\167\056\143\141\155\145\162\146\151\162\155\141\056  
\143\157\155\057\141\144\144\162\145\163\163\051\061\022\060\020  
\006\003\125\004\005\023\011\101\070\062\067\064\063\062\070\067  
\061\033\060\031\006\003\125\004\012\023\022\101\103\040\103\141  
\155\145\162\146\151\162\155\141\040\123\056\101\056\061\051\060  
\047\006\003\125\004\003\023\040\103\150\141\155\142\145\162\163  
\040\157\146\040\103\157\155\155\145\162\143\145\040\122\157\157  
\164\040\055\040\062\060\060\070\060\036\027\015\060\070\060\070  
\060\061\061\062\062\071\065\060\132\027\015\063\070\060\067\063  
\061\061\062\062\071\065\060\132\060\201\256\061\013\060\011\006  
\003\125\004\006\023\002\105\125\061\103\060\101\006\003\125\004  
\007\023\072\115\141\144\162\151\144\040\050\163\145\145\040\143  
\165\162\162\145\156\164\040\141\144\144\162\145\163\163\040\141  
\164\040\167\167\167\056\143\141\155\145\162\146\151\162\155\141

\056\143\157\155\057\141\144\144\162\145\163\163\051\061\022\060  
\020\006\003\125\004\005\023\011\101\070\062\067\064\063\062\070  
\067\061\033\060\031\006\003\125\004\012\023\022\101\103\040\103  
\141\155\145\162\146\151\162\155\141\040\123\056\101\056\061\051  
\060\047\006\003\125\004\003\023\040\103\150\141\155\142\145\162  
\163\040\157\146\040\103\157\155\155\145\162\143\145\040\122\157  
\157\164\040\055\040\062\060\060\070\060\202\002\042\060\015\006  
\011\052\206\110\206\367\015\001\001\001\005\000\003\202\002\017  
\000\060\202\002\012\002\202\002\001\000\257\000\313\160\067\053  
\200\132\112\072\154\170\224\175\243\177\032\037\366\065\325\275  
\333\313\015\104\162\076\046\262\220\122\272\143\073\050\130\157  
\245\263\155\224\246\363\335\144\014\125\366\366\347\362\042\042  
\200\136\341\142\306\266\051\341\201\154\362\277\345\175\062\152  
\124\240\062\031\131\376\037\213\327\075\140\206\205\044\157\343  
\021\263\167\076\040\226\065\041\153\263\010\331\160\056\144\367  
\204\222\123\326\016\260\220\212\212\343\207\215\006\323\275\220  
\016\342\231\241\033\206\016\332\232\012\273\013\141\120\006\122  
\361\236\177\166\354\313\017\320\036\015\317\231\060\075\034\304  
\105\020\130\254\326\323\350\327\345\352\305\001\007\167\326\121  
\346\003\177\212\110\245\115\150\165\271\351\274\236\116\031\161  
\365\062\113\234\155\140\031\013\373\314\235\165\334\277\046\315  
\217\223\170\071\171\163\136\045\016\312\134\353\167\022\007\313  
\144\101\107\162\223\253\120\303\353\011\166\144\064\322\071\267  
\166\021\011\015\166\105\304\251\256\075\152\257\265\175\145\057  
\224\130\020\354\134\174\257\176\342\266\030\331\320\233\116\132  
\111\337\251\146\013\314\074\306\170\174\247\234\035\343\316\216  
\123\276\005\336\140\017\153\345\032\333\077\343\341\041\311\051  
\301\361\353\007\234\122\033\001\104\121\074\173\045\327\304\345  
\122\124\135\045\007\312\026\040\270\255\344\101\356\172\010\376  
\231\157\203\246\221\002\260\154\066\125\152\347\175\365\226\346  
\312\201\326\227\361\224\203\351\355\260\261\153\022\151\036\254  
\373\135\251\305\230\351\264\133\130\172\276\075\242\104\072\143  
\131\324\013\045\336\033\117\275\345\001\236\315\322\051\325\237  
\027\031\012\157\277\014\220\323\011\137\331\343\212\065\314\171  
\132\115\031\067\222\267\304\301\255\257\364\171\044\232\262\001  
\013\261\257\134\226\363\200\062\373\134\075\230\361\240\077\112  
\336\276\257\224\056\331\125\232\027\156\140\235\143\154\270\143  
\311\256\201\134\030\065\340\220\273\276\074\117\067\042\271\176  
\353\317\236\167\041\246\075\070\201\373\110\332\061\075\053\343  
\211\365\320\265\275\176\340\120\304\022\211\263\043\232\020\061  
\205\333\256\157\357\070\063\030\166\021\002\003\001\000\001\243  
\202\001\154\060\202\001\150\060\022\006\003\125\035\023\001\001  
\377\004\010\060\006\001\001\377\002\001\014\060\035\006\003\125  
\035\016\004\026\004\024\371\044\254\017\262\265\370\171\300\372  
\140\210\033\304\331\115\002\236\027\031\060\201\343\006\003\125  
\035\043\004\201\333\060\201\330\200\024\371\044\254\017\262\265  
\370\171\300\372\140\210\033\304\331\115\002\236\027\031\241\201  
\264\244\201\261\060\201\256\061\013\060\011\006\003\125\004\006



\023\002\105\125\061\103\060\101\006\003\125\004\007\023\072\115  
\141\144\162\151\144\040\050\163\145\145\040\143\165\162\162\145  
\156\164\040\141\144\144\162\145\163\163\040\141\164\040\167\167  
\167\056\143\141\155\145\162\146\151\162\155\141\056\143\157\155  
\057\141\144\144\162\145\163\163\051\061\022\060\020\006\003\125  
\004\005\023\011\101\070\062\067\064\063\062\070\067\061\033\060  
\031\006\003\125\004\012\023\022\101\103\040\103\141\155\145\162  
\146\151\162\155\141\040\123\056\101\056\061\051\060\047\006\003  
\125\004\003\023\040\103\150\141\155\142\145\162\163\040\157\146  
\040\103\157\155\155\145\162\143\145\040\122\157\157\164\040\055  
\040\062\060\060\070\202\011\000\243\332\102\176\244\261\256\332  
\060\016\006\003\125\035\017\001\001\377\004\004\003\002\001\006  
\060\075\006\003\125\035\040\004\066\060\064\060\062\006\004\125  
\035\040\000\060\052\060\050\006\010\053\006\001\005\005\007\002  
\001\026\034\150\164\164\160\072\057\057\160\157\154\151\143\171  
\056\143\141\155\145\162\146\151\162\155\141\056\143\157\155\060  
\015\006\011\052\206\110\206\367\015\001\001\005\005\000\003\202  
\002\001\000\220\022\257\042\065\302\243\071\360\056\336\351\265  
\351\170\174\110\276\077\175\105\222\136\351\332\261\031\374\026  
\074\237\264\133\146\236\152\347\303\271\135\210\350\017\255\317  
\043\017\336\045\072\136\314\117\245\301\265\055\254\044\322\130  
\007\336\242\317\151\204\140\063\350\020\015\023\251\043\320\205  
\345\216\173\246\236\075\162\023\162\063\365\252\175\306\143\037  
\010\364\376\001\177\044\317\053\054\124\011\336\342\053\155\222  
\306\071\117\026\352\074\176\172\106\324\105\152\106\250\353\165  
\202\126\247\253\240\174\150\023\063\366\235\060\360\157\047\071  
\044\043\052\220\375\220\051\065\362\223\337\064\245\306\367\370  
\357\214\017\142\112\174\256\323\365\124\370\215\266\232\126\207  
\026\202\072\063\253\132\042\010\367\202\272\352\056\340\107\232  
\264\265\105\243\005\073\331\334\056\105\100\073\352\334\177\350  
\073\353\321\354\046\330\065\244\060\305\072\254\127\236\263\166  
\245\040\173\371\036\112\005\142\001\246\050\165\140\227\222\015  
\156\076\115\067\103\015\222\025\234\030\042\315\121\231\240\051  
\032\074\137\212\062\063\133\060\307\211\057\107\230\017\243\003  
\306\366\361\254\337\062\360\331\201\032\344\234\275\366\200\024  
\360\321\054\271\205\365\330\243\261\310\245\041\345\034\023\227  
\356\016\275\337\051\251\357\064\123\133\323\344\152\023\204\006  
\266\062\002\304\122\256\042\322\334\262\041\102\032\332\100\360  
\051\311\354\012\014\134\342\320\272\314\110\323\067\012\314\022  
\012\212\171\260\075\003\177\151\113\364\064\040\175\263\064\352  
\216\113\144\365\076\375\263\043\147\025\015\004\270\360\055\301  
\011\121\074\262\154\025\360\245\043\327\203\164\344\345\056\311  
\376\230\047\102\306\253\306\236\260\320\133\070\245\233\120\336  
\176\030\230\265\105\073\366\171\264\350\367\032\173\006\203\373  
\320\213\332\273\307\275\030\253\010\157\074\200\153\100\077\031  
\031\272\145\212\346\276\325\134\323\066\327\357\100\122\044\140  
\070\147\004\061\354\217\363\202\306\336\271\125\363\073\061\221  
\132\334\265\010\025\255\166\045\012\015\173\056\207\342\014\246

```
\006\274\046\020\155\067\235\354\335\170\214\174\200\305\360\331
\167\110\320
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRICT_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRICT_AFTER CK_BBOOL CK_FALSE

Trust for "Chambers of Commerce Root - 2008"
Issuer: CN=Chambers of Commerce Root - 2008,O=AC Camerfirma S.A.,serialNumber=A82743287,L=Madrid
(see current address at www.camerfirma.com/address),C=EU
Serial Number:00:a3:da:42:7e:a4:b1:ae:da
Subject: CN=Chambers of Commerce Root - 2008,O=AC Camerfirma S.A.,serialNumber=A82743287,L=Madrid
(see current address at www.camerfirma.com/address),C=EU
Not Valid Before: Fri Aug 01 12:29:50 2008
Not Valid After : Sat Jul 31 12:29:50 2038
Fingerprint (SHA-256):
06:3E:4A:FA:C4:91:DF:D3:32:F3:08:9B:85:42:E9:46:17:D8:93:D7:FE:94:4E:10:A7:93:7E:E2:9D:96:93:C0
Fingerprint (SHA1): 78:6A:74:AC:76:AB:14:7F:9C:6A:30:50:BA:9E:A8:7E:FE:9A:CE:3C
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Chambers of Commerce Root - 2008"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\170\152\164\254\166\253\024\177\234\152\060\120\272\236\250\176
\376\232\316\074
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\136\200\236\204\132\016\145\013\027\002\363\125\030\052\076\327
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\256\061\013\060\011\006\003\125\004\006\023\002\105\125
\061\103\060\101\006\003\125\004\007\023\072\115\141\144\162\151
\144\040\050\163\145\145\040\143\165\162\162\145\156\164\040\141
\144\144\162\145\163\163\040\141\164\040\167\167\167\056\143\141
\155\145\162\146\151\162\155\141\056\143\157\155\057\141\144\144
\162\145\163\163\051\061\022\060\020\006\003\125\004\005\023\011
\101\070\062\067\064\063\062\070\067\061\033\060\031\006\003\125
\004\012\023\022\101\103\040\103\141\155\145\162\146\151\162\155
\141\040\123\056\101\056\061\051\060\047\006\003\125\004\003\023
\040\103\150\141\155\142\145\162\163\040\157\146\040\103\157\155
\155\145\162\143\145\040\122\157\157\164\040\055\040\062\060\060
\070
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\011\000\243\332\102\176\244\261\256\332
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
```

CKA\_TRUST\_EMAIL\_PROTECTION CK\_TRUST CKT\_NSS\_TRUSTED\_DELEGATOR  
CKA\_TRUST\_CODE\_SIGNING CK\_TRUST CKT\_NSS\_MUST\_VERIFY\_TRUST  
CKA\_TRUST\_STEP\_UP\_APPROVED CK\_BBOOL CK\_FALSE

#

# Certificate "Global Chambersign Root - 2008"

#

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

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

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

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

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

# Fingerprint (SHA-256):

13:63:35:43:93:34:A7:69:80:16:A0:D3:24:DE:72:28:4E:07:9D:7B:52:20:BB:8F:BD:74:78:16:EE:BE:BA:CA

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

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_CERTIFICATE

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "Global Chambersign Root - 2008"

CKA\_CERTIFICATE\_TYPE CK\_CERTIFICATE\_TYPE CKC\_X\_509

CKA\_SUBJECT MULTILINE\_OCTAL

\060\201\254\061\013\060\011\006\003\125\004\006\023\002\105\125  
\061\103\060\101\006\003\125\004\007\023\072\115\141\144\162\151  
\144\040\050\163\145\145\040\143\165\162\162\145\156\164\040\141  
\144\144\162\145\163\163\040\141\164\040\167\167\167\056\143\141  
\155\145\162\146\151\162\155\141\056\143\157\155\057\141\144\144  
\162\145\163\163\051\061\022\060\020\006\003\125\004\005\023\011  
\101\070\062\067\064\063\062\070\067\061\033\060\031\006\003\125  
\004\012\023\022\101\103\040\103\141\155\145\162\146\151\162\155  
\141\040\123\056\101\056\061\047\060\045\006\003\125\004\003\023  
\036\107\154\157\142\141\154\040\103\150\141\155\142\145\162\163  
\151\147\156\040\122\157\157\164\040\055\040\062\060\060\070

END

CKA\_ID UTF8 "0"

CKA\_ISSUER MULTILINE\_OCTAL

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

\151\147\156\040\122\157\157\164\040\055\040\062\060\060\070

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

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

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\007\111\060\202\005\061\240\003\002\001\002\002\011\000  
\311\315\323\351\325\175\043\316\060\015\006\011\052\206\110\206  
\367\015\001\001\005\005\000\060\201\254\061\013\060\011\006\003  
\125\004\006\023\002\105\125\061\103\060\101\006\003\125\004\007  
\023\072\115\141\144\162\151\144\040\050\163\145\145\040\143\165  
\162\162\145\156\164\040\141\144\144\162\145\163\163\040\141\164  
\040\167\167\167\056\143\141\155\145\162\146\151\162\155\141\056  
\143\157\155\057\141\144\144\162\145\163\163\051\061\022\060\020  
\006\003\125\004\005\023\011\101\070\062\067\064\063\062\070\067  
\061\033\060\031\006\003\125\004\012\023\022\101\103\040\103\141  
\155\145\162\146\151\162\155\141\040\123\056\101\056\061\047\060  
\045\006\003\125\004\003\023\036\107\154\157\142\141\154\040\103  
\150\141\155\142\145\162\163\151\147\156\040\122\157\157\164\040  
\055\040\062\060\060\070\060\036\027\015\060\070\060\070\060\061  
\061\062\063\061\064\060\132\027\015\063\070\060\067\063\061\061  
\062\063\061\064\060\132\060\201\254\061\013\060\011\006\003\125  
\004\006\023\002\105\125\061\103\060\101\006\003\125\004\007\023  
\072\115\141\144\162\151\144\040\050\163\145\145\040\143\165\162  
\162\145\156\164\040\141\144\144\162\145\163\163\040\141\164\040  
\167\167\167\056\143\141\155\145\162\146\151\162\155\141\056\143  
\157\155\057\141\144\144\162\145\163\163\051\061\022\060\020\006  
\003\125\004\005\023\011\101\070\062\067\064\063\062\070\067\061  
\033\060\031\006\003\125\004\012\023\022\101\103\040\103\141\155  
\145\162\146\151\162\155\141\040\123\056\101\056\061\047\060\045  
\006\003\125\004\003\023\036\107\154\157\142\141\154\040\103\150  
\141\155\142\145\162\163\151\147\156\040\122\157\157\164\040\055  
\040\062\060\060\070\060\202\002\042\060\015\006\011\052\206\110  
\206\367\015\001\001\001\005\000\003\202\002\017\000\060\202\002  
\012\002\202\002\001\000\300\337\126\323\344\072\233\166\105\264  
\023\333\377\301\266\031\213\067\101\030\225\122\107\353\027\235  
\051\210\216\065\154\006\062\056\107\142\363\111\004\277\175\104  
\066\261\161\314\275\132\011\163\325\331\205\104\377\221\127\045  
\337\136\066\216\160\321\134\161\103\035\331\332\357\134\322\373  
\033\275\072\265\313\255\243\314\104\247\015\256\041\025\077\271  
\172\133\222\165\330\244\022\070\211\031\212\267\200\322\342\062  
\157\126\234\221\326\210\020\013\263\164\144\222\164\140\363\366  
\317\030\117\140\262\043\320\307\073\316\141\113\231\217\302\014  
\320\100\262\230\334\015\250\116\243\271\012\256\140\240\255\105  
\122\143\272\146\275\150\340\371\276\032\250\201\273\036\101\170  
\165\323\301\376\000\125\260\207\124\350\047\220\065\035\114\063  
\255\227\374\227\056\230\204\277\054\311\243\277\321\230\021\024  
\355\143\370\312\230\210\130\027\231\355\105\003\227\176\074\206

\036\210\214\276\362\221\204\217\145\064\330\000\114\175\267\061  
\027\132\051\172\012\030\044\060\243\067\265\172\251\001\175\046  
\326\371\016\216\131\361\375\033\063\265\051\073\027\073\101\266  
\041\335\324\300\075\245\237\237\037\103\120\311\273\274\154\172  
\227\230\356\315\214\037\373\234\121\256\213\160\275\047\237\161  
\300\153\254\175\220\146\350\327\135\072\015\260\325\302\215\325  
\310\235\235\301\155\320\320\277\121\344\343\370\303\070\066\256  
\326\247\165\346\257\204\103\135\223\222\014\152\007\336\073\035  
\230\042\326\254\301\065\333\243\240\045\377\162\265\166\035\336  
\155\351\054\146\054\122\204\320\105\222\316\034\345\345\063\035  
\334\007\123\124\243\252\202\073\232\067\057\334\335\240\144\351  
\346\335\275\256\374\144\205\035\074\247\311\006\336\204\377\153  
\350\153\032\074\305\242\263\102\373\213\011\076\137\010\122\307  
\142\304\324\005\161\277\304\144\344\370\241\203\350\076\022\233  
\250\036\324\066\115\057\161\366\215\050\366\203\251\023\322\141  
\301\221\273\110\300\064\217\101\214\113\114\333\151\022\377\120  
\224\234\040\203\131\163\355\174\241\362\361\375\335\367\111\323  
\103\130\240\126\143\312\075\075\345\065\126\131\351\016\312\040  
\314\053\113\223\051\017\002\003\001\000\001\243\202\001\152\060  
\202\001\146\060\022\006\003\125\035\023\001\001\377\004\010\060  
\006\001\001\377\002\001\014\060\035\006\003\125\035\016\004\026  
\004\024\271\011\312\234\036\333\323\154\072\153\256\355\124\361  
\133\223\006\065\056\136\060\201\341\006\003\125\035\043\004\201  
\331\060\201\326\200\024\271\011\312\234\036\333\323\154\072\153  
\256\355\124\361\133\223\006\065\056\136\241\201\262\244\201\257  
\060\201\254\061\013\060\011\006\003\125\004\006\023\002\105\125  
\061\103\060\101\006\003\125\004\007\023\072\115\141\144\162\151  
\144\040\050\163\145\145\040\143\165\162\162\145\156\164\040\141  
\144\144\162\145\163\163\040\141\164\040\167\167\167\056\143\141  
\155\145\162\146\151\162\155\141\056\143\157\155\057\141\144\144  
\162\145\163\163\051\061\022\060\020\006\003\125\004\005\023\011  
\101\070\062\067\064\063\062\070\067\061\033\060\031\006\003\125  
\004\012\023\022\101\103\040\103\141\155\145\162\146\151\162\155  
\141\040\123\056\101\056\061\047\060\045\006\003\125\004\003\023  
\036\107\154\157\142\141\154\040\103\150\141\155\142\145\162\163  
\151\147\156\040\122\157\157\164\040\055\040\062\060\060\070\202  
\011\000\311\315\323\351\325\175\043\316\060\016\006\003\125\035  
\017\001\001\377\004\004\003\002\001\006\060\075\006\003\125\035  
\040\004\066\060\064\060\062\006\004\125\035\040\000\060\052\060  
\050\006\010\053\006\001\005\005\007\002\001\026\034\150\164\164  
\160\072\057\057\160\157\154\151\143\171\056\143\141\155\145\162  
\146\151\162\155\141\056\143\157\155\060\015\006\011\052\206\110  
\206\367\015\001\001\005\005\000\003\202\002\001\000\200\210\177  
\160\336\222\050\331\005\224\106\377\220\127\251\361\057\337\032  
\015\153\372\174\016\034\111\044\171\047\330\106\252\157\051\131  
\122\210\160\022\352\335\075\365\233\123\124\157\341\140\242\250  
\011\271\354\353\131\174\306\065\361\334\030\351\361\147\345\257  
\272\105\340\011\336\312\104\017\302\027\016\167\221\105\172\063

\137\137\226\054\150\213\301\107\217\230\233\075\300\354\313\365  
\325\202\222\204\065\321\276\066\070\126\162\061\133\107\055\252  
\027\244\143\121\353\012\001\255\177\354\165\236\313\241\037\361  
\177\022\261\271\344\144\177\147\326\043\052\364\270\071\135\230  
\350\041\247\341\275\075\102\032\164\232\160\257\150\154\120\135  
\111\317\377\373\016\135\346\054\107\327\201\072\131\000\265\163  
\153\143\040\366\061\105\010\071\016\364\160\176\100\160\132\077  
\320\153\102\251\164\075\050\057\002\155\165\162\225\011\215\110  
\143\306\306\043\127\222\223\136\065\301\215\371\012\367\054\235  
\142\034\366\255\174\335\246\061\036\266\261\307\176\205\046\372  
\244\152\265\332\143\060\321\357\223\067\262\146\057\175\005\367  
\347\267\113\230\224\065\300\331\072\051\301\235\262\120\063\035  
\112\251\132\246\311\003\357\355\364\347\250\156\212\264\127\204  
\353\244\077\320\356\252\252\207\133\143\350\223\342\153\250\324  
\270\162\170\153\033\355\071\344\135\313\233\252\207\325\117\116  
\000\376\331\152\237\074\061\017\050\002\001\175\230\350\247\260  
\242\144\236\171\370\110\362\025\251\314\346\310\104\353\077\170  
\231\362\173\161\076\074\361\230\247\305\030\022\077\346\273\050  
\063\102\351\105\012\174\155\362\206\171\057\305\202\031\175\011  
\211\174\262\124\166\210\256\336\301\363\314\341\156\333\061\326  
\223\256\231\240\357\045\152\163\230\211\133\072\056\023\210\036  
\277\300\222\224\064\033\343\047\267\213\036\157\102\377\347\351  
\067\233\120\035\055\242\371\002\356\313\130\130\072\161\274\150  
\343\252\301\257\034\050\037\242\334\043\145\077\201\352\256\231  
\323\330\060\317\023\015\117\025\311\204\274\247\110\055\370\060  
\043\167\330\106\113\171\155\366\214\355\072\177\140\021\170\364  
\351\233\256\325\124\300\164\200\321\013\102\237\301

END

CKA\_NSS\_MOZILLA\_CA\_POLICY CK\_BBOOL CK\_TRUE  
CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE  
CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "Global Chambersign Root - 2008"

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

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

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

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

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

# Fingerprint (SHA-256):

13:63:35:43:93:34:A7:69:80:16:A0:D3:24:DE:72:28:4E:07:9D:7B:52:20:BB:8F:BD:74:78:16:EE:BE:BA:CA

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

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "Global Chambersign Root - 2008"

```

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\112\275\356\354\225\015\065\234\211\256\307\122\241\054\133\051
\366\326\252\014
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\236\200\377\170\001\014\056\301\066\275\376\226\220\156\010\363
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\254\061\013\060\011\006\003\125\004\006\023\002\105\125
\061\103\060\101\006\003\125\004\007\023\072\115\141\144\162\151
\144\040\050\163\145\145\040\143\165\162\162\145\156\164\040\141
\144\144\162\145\163\163\040\141\164\040\167\167\167\056\143\141
\155\145\162\146\151\162\155\141\056\143\157\155\057\141\144\144
\162\145\163\163\051\061\022\060\020\006\003\125\004\005\023\011
\101\070\062\067\064\063\062\070\067\061\033\060\031\006\003\125
\004\012\023\022\101\103\040\103\141\155\145\162\146\151\162\155
\141\040\123\056\101\056\061\047\060\045\006\003\125\004\003\023
\036\107\154\157\142\141\154\040\103\150\141\155\142\145\162\163
\151\147\156\040\122\157\157\164\040\055\040\062\060\060\070
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\011\000\311\315\323\351\325\175\043\316
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Go Daddy Root Certificate Authority - G2"
#
Issuer: CN=Go Daddy Root Certificate Authority - G2,O="GoDaddy.com, Inc.",L=Scottsdale,ST=Arizona,C=US
Serial Number: 0 (0x0)
Subject: CN=Go Daddy Root Certificate Authority - G2,O="GoDaddy.com,
Inc.",L=Scottsdale,ST=Arizona,C=US
Not Valid Before: Tue Sep 01 00:00:00 2009
Not Valid After : Thu Dec 31 23:59:59 2037
Fingerprint (SHA-256):
45:14:0B:32:47:EB:9C:C8:C5:B4:F0:D7:B5:30:91:F7:32:92:08:9E:6E:5A:63:E2:74:9D:D3:AC:A9:19:8E:DA
Fingerprint (SHA1): 47:BE:AB:C9:22:EA:E8:0E:78:78:34:62:A7:9F:45:C2:54:FD:E6:8B
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Go Daddy Root Certificate Authority - G2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\203\061\013\060\011\006\003\125\004\006\023\002\125\123

```

\061\020\060\016\006\003\125\004\010\023\007\101\162\151\172\157  
\156\141\061\023\060\021\006\003\125\004\007\023\012\123\143\157  
\164\164\163\144\141\154\145\061\032\060\030\006\003\125\004\012  
\023\021\107\157\104\141\144\144\171\056\143\157\155\054\040\111  
\156\143\056\061\061\060\057\006\003\125\004\003\023\050\107\157  
\040\104\141\144\144\171\040\122\157\157\164\040\103\145\162\164  
\151\146\151\143\141\164\145\040\101\165\164\150\157\162\151\164  
\171\040\055\040\107\062

END

CKA\_ID UTF8 "0"

CKA\_ISSUER MULTILINE\_OCTAL

\060\201\203\061\013\060\011\006\003\125\004\006\023\002\125\123  
\061\020\060\016\006\003\125\004\010\023\007\101\162\151\172\157  
\156\141\061\023\060\021\006\003\125\004\007\023\012\123\143\157  
\164\164\163\144\141\154\145\061\032\060\030\006\003\125\004\012  
\023\021\107\157\104\141\144\144\171\056\143\157\155\054\040\111  
\156\143\056\061\061\060\057\006\003\125\004\003\023\050\107\157  
\040\104\141\144\144\171\040\122\157\157\164\040\103\145\162\164  
\151\146\151\143\141\164\145\040\101\165\164\150\157\162\151\164  
\171\040\055\040\107\062

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

\002\001\000

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\003\305\060\202\002\255\240\003\002\001\002\002\001\000  
\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060  
\201\203\061\013\060\011\006\003\125\004\006\023\002\125\123\061  
\020\060\016\006\003\125\004\010\023\007\101\162\151\172\157\156  
\141\061\023\060\021\006\003\125\004\007\023\012\123\143\157\164  
\164\163\144\141\154\145\061\032\060\030\006\003\125\004\012\023  
\021\107\157\104\141\144\144\171\056\143\157\155\054\040\111\156  
\143\056\061\061\060\057\006\003\125\004\003\023\050\107\157\040  
\104\141\144\144\171\040\122\157\157\164\040\103\145\162\164\151  
\146\151\143\141\164\145\040\101\165\164\150\157\162\151\164\171  
\040\055\040\107\062\060\036\027\015\060\071\060\071\060\061\060  
\060\060\060\060\060\132\027\015\063\067\061\062\063\061\062\063  
\065\071\065\071\132\060\201\203\061\013\060\011\006\003\125\004  
\006\023\002\125\123\061\020\060\016\006\003\125\004\010\023\007  
\101\162\151\172\157\156\141\061\023\060\021\006\003\125\004\007  
\023\012\123\143\157\164\164\163\144\141\154\145\061\032\060\030  
\006\003\125\004\012\023\021\107\157\104\141\144\144\171\056\143  
\157\155\054\040\111\156\143\056\061\061\060\057\006\003\125\004  
\003\023\050\107\157\040\104\141\144\144\171\040\122\157\157\164  
\040\103\145\162\164\151\146\151\143\141\164\145\040\101\165\164  
\150\157\162\151\164\171\040\055\040\107\062\060\202\001\042\060  
\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003\202  
\001\017\000\060\202\001\012\002\202\001\001\000\277\161\142\010



\361\372\131\064\367\033\311\030\243\367\200\111\130\351\042\203  
\023\246\305\040\103\001\073\204\361\346\205\111\237\047\352\366  
\204\033\116\240\264\333\160\230\307\062\001\261\005\076\007\116  
\356\364\372\117\057\131\060\042\347\253\031\126\153\342\200\007  
\374\363\026\165\200\071\121\173\345\371\065\266\164\116\251\215  
\202\023\344\266\077\251\003\203\372\242\276\212\025\152\177\336  
\013\303\266\031\024\005\312\352\303\250\004\224\073\106\174\062  
\015\363\000\146\042\310\215\151\155\066\214\021\030\267\323\262  
\034\140\264\070\372\002\214\316\323\335\106\007\336\012\076\353  
\135\174\310\174\373\260\053\123\244\222\142\151\121\045\005\141  
\032\104\201\214\054\251\103\226\043\337\254\072\201\232\016\051  
\305\034\251\351\135\036\266\236\236\060\012\071\316\361\210\200  
\373\113\135\314\062\354\205\142\103\045\064\002\126\047\001\221  
\264\073\160\052\077\156\261\350\234\210\001\175\237\324\371\333  
\123\155\140\235\277\054\347\130\253\270\137\106\374\316\304\033  
\003\074\011\353\111\061\134\151\106\263\340\107\002\003\001\000  
\001\243\102\060\100\060\017\006\003\125\035\023\001\001\377\004  
\005\060\003\001\001\377\060\016\006\003\125\035\017\001\001\377  
\004\004\003\002\001\006\060\035\006\003\125\035\016\004\026\004  
\024\072\232\205\007\020\147\050\266\357\366\275\005\101\156\040  
\301\224\332\017\336\060\015\006\011\052\206\110\206\367\015\001  
\001\013\005\000\003\202\001\001\000\231\333\135\171\325\371\227  
\131\147\003\141\361\176\073\006\061\165\055\241\040\216\117\145  
\207\264\367\246\234\274\330\351\057\320\333\132\356\317\164\214  
\163\264\070\102\332\005\173\370\002\165\270\375\245\261\327\256  
\366\327\336\023\313\123\020\176\212\106\321\227\372\267\056\053  
\021\253\220\260\047\200\371\350\237\132\351\067\237\253\344\337  
\154\263\205\027\235\075\331\044\117\171\221\065\326\137\004\353  
\200\203\253\232\002\055\265\020\364\330\220\307\004\163\100\355  
\162\045\240\251\237\354\236\253\150\022\231\127\306\217\022\072  
\011\244\275\104\375\006\025\067\301\233\344\062\243\355\070\350  
\330\144\363\054\176\024\374\002\352\237\315\377\007\150\027\333  
\042\220\070\055\172\215\321\124\361\151\343\137\063\312\172\075  
\173\012\343\312\177\137\071\345\342\165\272\305\166\030\063\316  
\054\360\057\114\255\367\261\347\316\117\250\304\233\112\124\006  
\305\177\175\325\010\017\342\034\376\176\027\270\254\136\366\324  
\026\262\103\011\014\115\366\247\153\264\231\204\145\312\172\210  
\342\342\104\276\134\367\352\034\365

END

CKA\_NSS\_MOZILLA\_CA\_POLICY CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_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
\060\201\203\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\020\060\016\006\003\125\004\010\023\007\101\162\151\172\157
\156\141\061\023\060\021\006\003\125\004\007\023\012\123\143\157
\164\164\163\144\141\154\145\061\032\060\030\006\003\125\004\012
\023\021\107\157\104\141\144\144\171\056\143\157\155\054\040\111
\156\143\056\061\061\060\057\006\003\125\004\003\023\050\107\157
\040\104\141\144\144\171\040\122\157\157\164\040\103\145\162\164
\151\146\151\143\141\164\145\040\101\165\164\150\157\162\151\164
\171\040\055\040\107\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Starfield Root Certificate Authority - G2"
#
Issuer: CN=Starfield Root Certificate Authority - G2,O="Starfield Technologies,
Inc.",L=Scottsdale,ST=Arizona,C=US
Serial Number: 0 (0x0)
Subject: CN=Starfield Root Certificate Authority - G2,O="Starfield Technologies,
Inc.",L=Scottsdale,ST=Arizona,C=US
Not Valid Before: Tue Sep 01 00:00:00 2009
Not Valid After : Thu Dec 31 23:59:59 2037
Fingerprint (SHA-256):
2C:E1:CB:0B:F9:D2:F9:E1:02:99:3F:BE:21:51:52:C3:B2:DD:0C:AB:DE:1C:68:E5:31:9B:83:91:54:DB:B7:F5

```

# Fingerprint (SHA1): B5:1C:06:7C:EE:2B:0C:3D:F8:55:AB:2D:92:F4:FE:39:D4:E7:0F:0E

```
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Starfield Root Certificate Authority - G2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\217\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\020\060\016\006\003\125\004\010\023\007\101\162\151\172\157
\156\141\061\023\060\021\006\003\125\004\007\023\012\123\143\157
\164\164\163\144\141\154\145\061\045\060\043\006\003\125\004\012
\023\034\123\164\141\162\146\151\145\154\144\040\124\145\143\150
\156\157\154\157\147\151\145\163\054\040\111\156\143\056\061\062
\060\060\006\003\125\004\003\023\051\123\164\141\162\146\151\145
\154\144\040\122\157\157\164\040\103\145\162\164\151\146\151\143
\141\164\145\040\101\165\164\150\157\162\151\164\171\040\055\040
\107\062
END
```

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

```
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END
```

```
CKA_VALUE MULTILINE_OCTAL
\060\202\003\335\060\202\002\305\240\003\002\001\002\002\001\000
\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060
\201\217\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\020\060\016\006\003\125\004\010\023\007\101\162\151\172\157\156
\141\061\023\060\021\006\003\125\004\007\023\012\123\143\157\164
\164\163\144\141\154\145\061\045\060\043\006\003\125\004\012\023
\034\123\164\141\162\146\151\145\154\144\040\124\145\143\150\156
\157\154\157\147\151\145\163\054\040\111\156\143\056\061\062\060
\060\006\003\125\004\003\023\051\123\164\141\162\146\151\145\154
\144\040\122\157\157\164\040\103\145\162\164\151\146\151\143\141
\164\145\040\101\165\164\150\157\162\151\164\171\040\055\040\107
\062\060\036\027\015\060\071\060\071\060\061\060\060\060\060\060
```

\060\132\027\015\063\067\061\062\063\061\062\063\065\071\065\071  
\132\060\201\217\061\013\060\011\006\003\125\004\006\023\002\125  
\123\061\020\060\016\006\003\125\004\010\023\007\101\162\151\172  
\157\156\141\061\023\060\021\006\003\125\004\007\023\012\123\143  
\157\164\164\163\144\141\154\145\061\045\060\043\006\003\125\004  
\012\023\034\123\164\141\162\146\151\145\154\144\040\124\145\143  
\150\156\157\154\157\147\151\145\163\054\040\111\156\143\056\061  
\062\060\060\006\003\125\004\003\023\051\123\164\141\162\146\151  
\145\154\144\040\122\157\157\164\040\103\145\162\164\151\146\151  
\143\141\164\145\040\101\165\164\150\157\162\151\164\171\040\055  
\040\107\062\060\202\001\042\060\015\006\011\052\206\110\206\367  
\015\001\001\001\005\000\003\202\001\017\000\060\202\001\012\002  
\202\001\001\000\275\355\301\003\374\366\217\374\002\261\157\133  
\237\110\331\235\171\342\242\267\003\141\126\030\303\107\266\327  
\312\075\065\056\211\103\367\241\151\233\336\212\032\375\023\040  
\234\264\111\167\062\051\126\375\271\354\214\335\042\372\162\334  
\047\141\227\356\366\132\204\354\156\031\271\211\054\334\204\133  
\325\164\373\153\137\305\211\245\020\122\211\106\125\364\270\165  
\034\346\177\344\124\256\113\370\125\162\127\002\031\370\027\161  
\131\353\036\050\007\164\305\235\110\276\154\264\364\244\260\363  
\144\067\171\222\300\354\106\136\177\341\155\123\114\142\257\315  
\037\013\143\273\072\235\373\374\171\000\230\141\164\317\046\202  
\100\143\363\262\162\152\031\015\231\312\324\016\165\314\067\373  
\213\211\301\131\361\142\177\137\263\137\145\060\370\247\267\115  
\166\132\036\166\136\064\300\350\226\126\231\212\263\360\177\244  
\315\275\334\062\061\174\221\317\340\137\021\370\153\252\111\134  
\321\231\224\321\242\343\143\133\011\166\265\126\142\341\113\164  
\035\226\324\046\324\010\004\131\320\230\016\016\346\336\374\303  
\354\037\220\361\002\003\001\000\001\243\102\060\100\060\017\006  
\003\125\035\023\001\001\377\004\005\060\003\001\001\377\060\016  
\006\003\125\035\017\001\001\377\004\004\003\002\001\006\060\035  
\006\003\125\035\016\004\026\004\024\174\014\062\037\247\331\060  
\177\304\175\150\243\142\250\241\316\253\007\133\047\060\015\006  
\011\052\206\110\206\367\015\001\001\013\005\000\003\202\001\001  
\000\021\131\372\045\117\003\157\224\231\073\232\037\202\205\071  
\324\166\005\224\136\341\050\223\155\142\135\011\302\240\250\324  
\260\165\070\361\064\152\235\344\237\212\206\046\121\346\054\321  
\306\055\156\225\040\112\222\001\354\270\212\147\173\061\342\147  
\056\214\225\003\046\056\103\235\112\061\366\016\265\014\273\267  
\342\067\177\042\272\000\243\016\173\122\373\153\273\073\304\323  
\171\121\116\315\220\364\147\007\031\310\074\106\172\015\001\175  
\305\130\347\155\346\205\060\027\232\044\304\020\340\004\367\340  
\362\177\324\252\012\377\102\035\067\355\224\345\144\131\022\040  
\167\070\323\062\076\070\201\165\226\163\372\150\217\261\313\316  
\037\305\354\372\234\176\317\176\261\361\007\055\266\374\277\312  
\244\277\320\227\005\112\274\352\030\050\002\220\275\124\170\011  
\041\161\323\321\175\035\331\026\260\251\141\075\320\012\000\042  
\374\307\173\313\011\144\105\013\073\100\201\367\175\174\062\365

```

\230\312\130\216\175\052\356\220\131\163\144\371\066\164\136\045
\241\365\146\005\056\177\071\025\251\052\373\120\213\216\205\151
\364
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRICT_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRICT_AFTER CK_BBOOL CK_FALSE

Trust for "Starfield Root Certificate Authority - G2"
Issuer: CN=Starfield Root Certificate Authority - G2,O="Starfield Technologies,
Inc.",L=Scottsdale,ST=Arizona,C=US
Serial Number: 0 (0x0)
Subject: CN=Starfield Root Certificate Authority - G2,O="Starfield Technologies,
Inc.",L=Scottsdale,ST=Arizona,C=US
Not Valid Before: Tue Sep 01 00:00:00 2009
Not Valid After : Thu Dec 31 23:59:59 2037
Fingerprint (SHA-256):
2C:E1:CB:0B:F9:D2:F9:E1:02:99:3F:BE:21:51:52:C3:B2:DD:0C:AB:DE:1C:68:E5:31:9B:83:91:54:DB:B7:F5
Fingerprint (SHA1): B5:1C:06:7C:EE:2B:0C:3D:F8:55:AB:2D:92:F4:FE:39:D4:E7:0F:0E
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Starfield Root Certificate Authority - G2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\265\034\006\174\356\053\014\075\370\125\253\055\222\364\376\071
\324\347\017\016
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\326\071\201\306\122\176\226\151\374\374\312\146\355\005\362\226
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\217\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\020\060\016\006\003\125\004\010\023\007\101\162\151\172\157
\156\141\061\023\060\021\006\003\125\004\007\023\012\123\143\157
\164\164\163\144\141\154\145\061\045\060\043\006\003\125\004\012
\023\034\123\164\141\162\146\151\145\154\144\040\124\145\143\150
\156\157\154\157\147\151\145\163\054\040\111\156\143\056\061\062
\060\060\006\003\125\004\003\023\051\123\164\141\162\146\151\145
\154\144\040\122\157\157\164\040\103\145\162\164\151\146\151\143
\141\164\145\040\101\165\164\150\157\162\151\164\171\040\055\040
\107\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST

```

CKA\_TRUST\_CODE\_SIGNING CK\_TRUST CKT\_NSS\_MUST\_VERIFY\_TRUST  
CKA\_TRUST\_STEP\_UP\_APPROVED CK\_BBOOL CK\_FALSE

#

# Certificate "Starfield Services Root Certificate Authority - G2"

#

# Issuer: CN=Starfield Services Root Certificate Authority - G2,O="Starfield Technologies,  
Inc.",L=Scottsdale,ST=Arizona,C=US

# Serial Number: 0 (0x0)

# Subject: CN=Starfield Services Root Certificate Authority - G2,O="Starfield Technologies,  
Inc.",L=Scottsdale,ST=Arizona,C=US

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

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

# Fingerprint (SHA-256):

56:8D:69:05:A2:C8:87:08:A4:B3:02:51:90:ED:CF:ED:B1:97:4A:60:6A:13:C6:E5:29:0F:CB:2A:E6:3E:DA:B5

# Fingerprint (SHA1): 92:5A:8F:8D:2C:6D:04:E0:66:5F:59:6A:FF:22:D8:63:E8:25:6F:3F

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_CERTIFICATE

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "Starfield Services Root Certificate Authority - G2"

CKA\_CERTIFICATE\_TYPE CK\_CERTIFICATE\_TYPE CKC\_X\_509

CKA\_SUBJECT MULTILINE\_OCTAL

\060\201\230\061\013\060\011\006\003\125\004\006\023\002\125\123  
\061\020\060\016\006\003\125\004\010\023\007\101\162\151\172\157  
\156\141\061\023\060\021\006\003\125\004\007\023\012\123\143\157  
\164\164\163\144\141\154\145\061\045\060\043\006\003\125\004\012  
\023\034\123\164\141\162\146\151\145\154\144\040\124\145\143\150  
\156\157\154\157\147\151\145\163\054\040\111\156\143\056\061\073  
\060\071\006\003\125\004\003\023\062\123\164\141\162\146\151\145  
\154\144\040\123\145\162\166\151\143\145\163\040\122\157\157\164  
\040\103\145\162\164\151\146\151\143\141\164\145\040\101\165\164  
\150\157\162\151\164\171\040\055\040\107\062

END

CKA\_ID UTF8 "0"

CKA\_ISSUER MULTILINE\_OCTAL

\060\201\230\061\013\060\011\006\003\125\004\006\023\002\125\123  
\061\020\060\016\006\003\125\004\010\023\007\101\162\151\172\157  
\156\141\061\023\060\021\006\003\125\004\007\023\012\123\143\157  
\164\164\163\144\141\154\145\061\045\060\043\006\003\125\004\012  
\023\034\123\164\141\162\146\151\145\154\144\040\124\145\143\150  
\156\157\154\157\147\151\145\163\054\040\111\156\143\056\061\073  
\060\071\006\003\125\004\003\023\062\123\164\141\162\146\151\145  
\154\144\040\123\145\162\166\151\143\145\163\040\122\157\157\164  
\040\103\145\162\164\151\146\151\143\141\164\145\040\101\165\164  
\150\157\162\151\164\171\040\055\040\107\062

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

\002\001\000

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\003\357\060\202\002\327\240\003\002\001\002\002\001\000  
\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060  
\201\230\061\013\060\011\006\003\125\004\006\023\002\125\123\061  
\020\060\016\006\003\125\004\010\023\007\101\162\151\172\157\156  
\141\061\023\060\021\006\003\125\004\007\023\012\123\143\157\164  
\164\163\144\141\154\145\061\045\060\043\006\003\125\004\012\023  
\034\123\164\141\162\146\151\145\154\144\040\124\145\143\150\156  
\157\154\157\147\151\145\163\054\040\111\156\143\056\061\073\060  
\071\006\003\125\004\003\023\062\123\164\141\162\146\151\145\154  
\144\040\123\145\162\166\151\143\145\163\040\122\157\157\164\040  
\103\145\162\164\151\146\151\143\141\164\145\040\101\165\164\150  
\157\162\151\164\171\040\055\040\107\062\060\036\027\015\060\071  
\060\071\060\061\060\060\060\060\060\060\132\027\015\063\067\061  
\062\063\061\062\063\065\071\065\071\132\060\201\230\061\013\060  
\011\006\003\125\004\006\023\002\125\123\061\020\060\016\006\003  
\125\004\010\023\007\101\162\151\172\157\156\141\061\023\060\021  
\006\003\125\004\007\023\012\123\143\157\164\164\163\144\141\154  
\145\061\045\060\043\006\003\125\004\012\023\034\123\164\141\162  
\146\151\145\154\144\040\124\145\143\150\156\157\154\157\147\151  
\145\163\054\040\111\156\143\056\061\073\060\071\006\003\125\004  
\003\023\062\123\164\141\162\146\151\145\154\144\040\123\145\162  
\166\151\143\145\163\040\122\157\157\164\040\103\145\162\164\151  
\146\151\143\141\164\145\040\101\165\164\150\157\162\151\164\171  
\040\055\040\107\062\060\202\001\042\060\015\006\011\052\206\110  
\206\367\015\001\001\001\005\000\003\202\001\017\000\060\202\001  
\012\002\202\001\001\000\325\014\072\304\052\371\116\342\365\276  
\031\227\137\216\210\123\261\037\077\313\317\237\040\023\155\051  
\072\310\017\175\074\367\153\166\070\143\331\066\140\250\233\136  
\134\000\200\262\057\131\177\366\207\371\045\103\206\347\151\033  
\122\232\220\341\161\343\330\055\015\116\157\366\310\111\331\266  
\363\032\126\256\053\266\164\024\353\317\373\046\343\032\272\035  
\226\056\152\073\130\224\211\107\126\377\045\240\223\160\123\203  
\332\204\164\024\303\147\236\004\150\072\337\216\100\132\035\112  
\116\317\103\221\073\347\126\326\000\160\313\122\356\173\175\256  
\072\347\274\061\371\105\366\302\140\317\023\131\002\053\200\314  
\064\107\337\271\336\220\145\155\002\317\054\221\246\246\347\336  
\205\030\111\174\146\116\243\072\155\251\265\356\064\056\272\015  
\003\270\063\337\107\353\261\153\215\045\331\233\316\201\321\105  
\106\062\226\160\207\336\002\016\111\103\205\266\154\163\273\144  
\352\141\101\254\311\324\124\337\207\057\307\042\262\046\314\237  
\131\124\150\237\374\276\052\057\304\125\034\165\100\140\027\205  
\002\125\071\213\177\005\002\003\001\000\001\243\102\060\100\060  
\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001\377  
\060\016\006\003\125\035\017\001\001\377\004\004\003\002\001\006  
\060\035\006\003\125\035\016\004\026\004\024\234\137\000\337\252

```
\001\327\060\053\070\210\242\270\155\112\234\362\021\221\203\060
\015\006\011\052\206\110\206\367\015\001\001\013\005\000\003\202
\001\001\000\113\066\246\204\167\151\335\073\031\237\147\043\010
\157\016\141\311\375\204\334\137\330\066\201\315\330\033\101\055
\237\140\335\307\032\150\331\321\156\206\341\210\043\317\023\336
\103\317\342\064\263\004\235\037\051\325\277\370\136\310\325\301
\275\356\222\157\062\164\362\221\202\057\275\202\102\172\255\052
\267\040\175\115\274\172\125\022\302\025\352\275\367\152\225\056
\154\164\237\317\034\264\362\305\001\243\205\320\162\076\255\163
\253\013\233\165\014\155\105\267\216\224\254\226\067\265\240\320
\217\025\107\016\343\350\203\335\217\375\357\101\001\167\314\047
\251\142\205\063\362\067\010\357\161\317\167\006\336\310\031\035
\210\100\317\175\106\035\377\036\307\341\316\377\043\333\306\372
\215\125\116\251\002\347\107\021\106\076\364\375\275\173\051\046
\273\251\141\142\067\050\266\055\052\366\020\206\144\311\160\247
\322\255\267\051\160\171\352\074\332\143\045\237\375\150\267\060
\354\160\373\165\212\267\155\140\147\262\036\310\271\351\330\250
\157\002\213\147\015\115\046\127\161\332\040\374\301\112\120\215
\261\050\272
```

END

```
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRICT_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRICT_AFTER CK_BBOOL CK_FALSE
```

```
Trust for "Starfield Services Root Certificate Authority - G2"
```

```
Issuer: CN=Starfield Services Root Certificate Authority - G2,O="Starfield Technologies,
Inc.",L=Scottsdale,ST=Arizona,C=US
```

```
Serial Number: 0 (0x0)
```

```
Subject: CN=Starfield Services Root Certificate Authority - G2,O="Starfield Technologies,
Inc.",L=Scottsdale,ST=Arizona,C=US
```

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

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

```
Fingerprint (SHA-256):
```

```
56:8D:69:05:A2:C8:87:08:A4:B3:02:51:90:ED:CF:ED:B1:97:4A:60:6A:13:C6:E5:29:0F:CB:2A:E6:3E:DA:B5
```

```
Fingerprint (SHA1): 92:5A:8F:8D:2C:6D:04:E0:66:5F:59:6A:FF:22:D8:63:E8:25:6F:3F
```

```
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
```

```
CKA_TOKEN CK_BBOOL CK_TRUE
```

```
CKA_PRIVATE CK_BBOOL CK_FALSE
```

```
CKA_MODIFIABLE CK_BBOOL CK_FALSE
```

```
CKA_LABEL UTF8 "Starfield Services Root Certificate Authority - G2"
```

```
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
```

```
\222\132\217\215\054\155\004\340\146\137\131\152\377\042\330\143
\350\045\157\077
```

END

```
CKA_CERT_MD5_HASH MULTILINE_OCTAL
```

```
\027\065\164\257\173\141\034\353\364\371\074\342\356\100\371\242
```

END

```
CKA_ISSUER MULTILINE_OCTAL
```



```
\060\201\230\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\020\060\016\006\003\125\004\010\023\007\101\162\151\172\157
\156\141\061\023\060\021\006\003\125\004\007\023\012\123\143\157
\164\164\163\144\141\154\145\061\045\060\043\006\003\125\004\012
\023\034\123\164\141\162\146\151\145\154\144\040\124\145\143\150
\156\157\154\157\147\151\145\163\054\040\111\156\143\056\061\073
\060\071\006\003\125\004\003\023\062\123\164\141\162\146\151\145
\154\144\040\123\145\162\166\151\143\145\163\040\122\157\157\164
\040\103\145\162\164\151\146\151\143\141\164\145\040\101\165\164
\150\157\162\151\164\171\040\055\040\107\062
```

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

```
\002\001\000
```

END

CKA\_TRUST\_SERVER\_AUTH CK\_TRUST CKT\_NSS\_TRUSTED\_DELEGATOR

CKA\_TRUST\_EMAIL\_PROTECTION CK\_TRUST CKT\_NSS\_MUST\_VERIFY\_TRUST

CKA\_TRUST\_CODE\_SIGNING CK\_TRUST CKT\_NSS\_MUST\_VERIFY\_TRUST

CKA\_TRUST\_STEP\_UP\_APPROVED CK\_BBOOL CK\_FALSE

#

# Certificate "AffirmTrust Commercial"

#

# Issuer: CN=AffirmTrust Commercial,O=AffirmTrust,C=US

# Serial Number:77:77:06:27:26:a9:b1:7c

# Subject: CN=AffirmTrust Commercial,O=AffirmTrust,C=US

# Not Valid Before: Fri Jan 29 14:06:06 2010

# Not Valid After : Tue Dec 31 14:06:06 2030

# Fingerprint (SHA-256):

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

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

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_CERTIFICATE

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "AffirmTrust Commercial"

CKA\_CERTIFICATE\_TYPE CK\_CERTIFICATE\_TYPE CKC\_X\_509

CKA\_SUBJECT MULTILINE\_OCTAL

```
\060\104\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\024\060\022\006\003\125\004\012\014\013\101\146\146\151\162\155
\124\162\165\163\164\061\037\060\035\006\003\125\004\003\014\026
\101\146\146\151\162\155\124\162\165\163\164\040\103\157\155\155
\145\162\143\151\141\154
```

END

CKA\_ID UTF8 "0"

CKA\_ISSUER MULTILINE\_OCTAL

```
\060\104\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\024\060\022\006\003\125\004\012\014\013\101\146\146\151\162\155
\124\162\165\163\164\061\037\060\035\006\003\125\004\003\014\026
```

\101\146\146\151\162\155\124\162\165\163\164\040\103\157\155\155  
\145\162\143\151\141\154

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

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

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\003\114\060\202\002\064\240\003\002\001\002\002\010\167  
\167\006\047\046\251\261\174\060\015\006\011\052\206\110\206\367  
\015\001\001\013\005\000\060\104\061\013\060\011\006\003\125\004  
\006\023\002\125\123\061\024\060\022\006\003\125\004\012\014\013  
\101\146\146\151\162\155\124\162\165\163\164\061\037\060\035\006  
\003\125\004\003\014\026\101\146\146\151\162\155\124\162\165\163  
\164\040\103\157\155\155\145\162\143\151\141\154\060\036\027\015  
\061\060\060\061\062\071\061\064\060\066\060\066\132\027\015\063  
\060\061\062\063\061\061\064\060\066\060\066\132\060\104\061\013  
\060\011\006\003\125\004\006\023\002\125\123\061\024\060\022\006  
\003\125\004\012\014\013\101\146\146\151\162\155\124\162\165\163  
\164\061\037\060\035\006\003\125\004\003\014\026\101\146\146\151  
\162\155\124\162\165\163\164\040\103\157\155\155\145\162\143\151  
\141\154\060\202\001\042\060\015\006\011\052\206\110\206\367\015  
\001\001\001\005\000\003\202\001\017\000\060\202\001\012\002\202  
\001\001\000\366\033\117\147\007\053\241\025\365\006\042\313\037  
\001\262\343\163\105\006\104\111\054\273\111\045\024\326\316\303  
\267\253\054\117\306\101\062\224\127\372\022\247\133\016\342\217  
\037\036\206\031\247\252\265\055\271\137\015\212\302\257\205\065  
\171\062\055\273\034\142\067\362\261\133\112\075\312\315\161\137  
\351\102\276\224\350\310\336\371\042\110\144\306\345\253\306\053  
\155\255\005\360\372\325\013\317\232\345\360\120\244\213\073\107  
\245\043\133\172\172\370\063\077\270\357\231\227\343\040\301\326  
\050\211\317\224\373\271\105\355\343\100\027\021\324\164\360\013  
\061\342\053\046\152\233\114\127\256\254\040\076\272\105\172\005  
\363\275\233\151\025\256\175\116\040\143\304\065\166\072\007\002  
\311\067\375\307\107\356\350\361\166\035\163\025\362\227\244\265  
\310\172\171\331\102\252\053\177\134\376\316\046\117\243\146\201  
\065\257\104\272\124\036\034\060\062\145\235\346\074\223\136\120  
\116\172\343\072\324\156\314\032\373\371\322\067\256\044\052\253  
\127\003\042\050\015\111\165\177\267\050\332\165\277\216\343\334  
\016\171\061\002\003\001\000\001\243\102\060\100\060\035\006\003  
\125\035\016\004\026\004\024\235\223\306\123\213\136\312\257\077  
\237\036\017\345\231\225\274\044\366\224\217\060\017\006\003\125  
\035\023\001\001\377\004\005\060\003\001\001\377\060\016\006\003  
\125\035\017\001\001\377\004\004\003\002\001\006\060\015\006\011  
\052\206\110\206\367\015\001\001\013\005\000\003\202\001\001\000  
\130\254\364\004\016\315\300\015\377\012\375\324\272\026\137\051  
\275\173\150\231\130\111\322\264\035\067\115\177\047\175\106\006  
\135\103\306\206\056\076\163\262\046\175\117\223\251\266\304\052  
\232\253\041\227\024\261\336\214\323\253\211\025\330\153\044\324

```
\361\026\256\330\244\134\324\177\121\216\355\030\001\261\223\143
\275\274\370\141\200\232\236\261\316\102\160\342\251\175\006\045
\175\047\241\376\157\354\263\036\044\332\343\113\125\032\000\073
\065\264\073\331\327\135\060\375\201\023\211\362\302\006\053\355
\147\304\216\311\103\262\134\153\025\211\002\274\142\374\116\362
\265\063\252\262\157\323\012\242\120\343\366\073\350\056\104\302
\333\146\070\251\063\126\110\361\155\033\063\215\015\214\077\140
\067\235\323\312\155\176\064\176\015\237\162\166\213\033\237\162
\375\122\065\101\105\002\226\057\034\262\232\163\111\041\261\111
\107\105\107\264\357\152\064\021\311\115\232\314\131\267\326\002
\236\132\116\145\265\224\256\033\337\051\260\026\361\277\000\236
\007\072\027\144\265\004\265\043\041\231\012\225\073\227\174\357
END
```

```
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRICT_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRICT_AFTER CK_BBOOL CK_FALSE
```

```
Trust for "AffirmTrust Commercial"
```

```
Issuer: CN=AffirmTrust Commercial,O=AffirmTrust,C=US
```

```
Serial Number:77:77:06:27:26:a9:b1:7c
```

```
Subject: CN=AffirmTrust Commercial,O=AffirmTrust,C=US
```

```
Not Valid Before: Fri Jan 29 14:06:06 2010
```

```
Not Valid After : Tue Dec 31 14:06:06 2030
```

```
Fingerprint (SHA-256):
```

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

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

```
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
```

```
CKA_TOKEN CK_BBOOL CK_TRUE
```

```
CKA_PRIVATE CK_BBOOL CK_FALSE
```

```
CKA_MODIFIABLE CK_BBOOL CK_FALSE
```

```
CKA_LABEL UTF8 "AffirmTrust Commercial"
```

```
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
```

```
\371\265\266\062\105\137\234\276\354\127\137\200\334\351\156\054
\307\262\170\267
```

```
END
```

```
CKA_CERT_MD5_HASH MULTILINE_OCTAL
```

```
\202\222\272\133\357\315\212\157\246\075\125\371\204\366\326\267
```

```
END
```

```
CKA_ISSUER MULTILINE_OCTAL
```

```
\060\104\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\024\060\022\006\003\125\004\012\014\013\101\146\146\151\162\155
\124\162\165\163\164\061\037\060\035\006\003\125\004\003\014\026
\101\146\146\151\162\155\124\162\165\163\164\040\103\157\155\155
\145\162\143\151\141\154
```

```
END
```

```
CKA_SERIAL_NUMBER MULTILINE_OCTAL
```

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

```
END
```

CKA\_TRUST\_SERVER\_AUTH CK\_TRUST CKT\_NSS\_TRUSTED\_DELEGATOR  
CKA\_TRUST\_EMAIL\_PROTECTION CK\_TRUST CKT\_NSS\_MUST\_VERIFY\_TRUST  
CKA\_TRUST\_CODE\_SIGNING CK\_TRUST CKT\_NSS\_MUST\_VERIFY\_TRUST  
CKA\_TRUST\_STEP\_UP\_APPROVED CK\_BBOOL CK\_FALSE

#

# Certificate "AffirmTrust Networking"

#

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

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

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

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

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

# Fingerprint (SHA-256):

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

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

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_CERTIFICATE

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "AffirmTrust Networking"

CKA\_CERTIFICATE\_TYPE CK\_CERTIFICATE\_TYPE CKC\_X\_509

CKA\_SUBJECT MULTILINE\_OCTAL

\060\104\061\013\060\011\006\003\125\004\006\023\002\125\123\061  
\024\060\022\006\003\125\004\012\014\013\101\146\146\151\162\155  
\124\162\165\163\164\061\037\060\035\006\003\125\004\003\014\026  
\101\146\146\151\162\155\124\162\165\163\164\040\116\145\164\167  
\157\162\153\151\156\147

END

CKA\_ID UTF8 "0"

CKA\_ISSUER MULTILINE\_OCTAL

\060\104\061\013\060\011\006\003\125\004\006\023\002\125\123\061  
\024\060\022\006\003\125\004\012\014\013\101\146\146\151\162\155  
\124\162\165\163\164\061\037\060\035\006\003\125\004\003\014\026  
\101\146\146\151\162\155\124\162\165\163\164\040\116\145\164\167  
\157\162\153\151\156\147

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

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

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\003\114\060\202\002\064\240\003\002\001\002\002\010\174  
\117\004\071\034\324\231\055\060\015\006\011\052\206\110\206\367  
\015\001\001\005\005\000\060\104\061\013\060\011\006\003\125\004  
\006\023\002\125\123\061\024\060\022\006\003\125\004\012\014\013  
\101\146\146\151\162\155\124\162\165\163\164\061\037\060\035\006  
\003\125\004\003\014\026\101\146\146\151\162\155\124\162\165\163  
\164\040\116\145\164\167\157\162\153\151\156\147\060\036\027\015

\061\060\060\061\062\071\061\064\060\070\062\064\132\027\015\063  
\060\061\062\063\061\061\064\060\070\062\064\132\060\104\061\013  
\060\011\006\003\125\004\006\023\002\125\123\061\024\060\022\006  
\003\125\004\012\014\013\101\146\146\151\162\155\124\162\165\163  
\164\061\037\060\035\006\003\125\004\003\014\026\101\146\146\151  
\162\155\124\162\165\163\164\040\116\145\164\167\157\162\153\151  
\156\147\060\202\001\042\060\015\006\011\052\206\110\206\367\015  
\001\001\001\005\000\003\202\001\017\000\060\202\001\012\002\202  
\001\001\000\264\204\314\063\027\056\153\224\154\153\141\122\240  
\353\243\317\171\224\114\345\224\200\231\313\125\144\104\145\217  
\147\144\342\006\343\134\067\111\366\057\233\204\204\036\055\362  
\140\235\060\116\314\204\205\342\054\317\036\236\376\066\253\063  
\167\065\104\330\065\226\032\075\066\350\172\016\330\325\107\241  
\152\151\213\331\374\273\072\256\171\132\325\364\326\161\273\232  
\220\043\153\232\267\210\164\207\014\036\137\271\236\055\372\253  
\123\053\334\273\166\076\223\114\010\010\214\036\242\043\034\324  
\152\255\042\272\231\001\056\155\145\313\276\044\146\125\044\113  
\100\104\261\033\327\341\302\205\300\336\020\077\075\355\270\374  
\361\361\043\123\334\277\145\227\157\331\371\100\161\215\175\275  
\225\324\316\276\240\136\047\043\336\375\246\320\046\016\000\051  
\353\074\106\360\075\140\277\077\120\322\334\046\101\121\236\024  
\067\102\004\243\160\127\250\033\207\355\055\372\173\356\214\012  
\343\251\146\211\031\313\101\371\335\104\066\141\317\342\167\106  
\310\175\366\364\222\201\066\375\333\064\361\162\176\363\014\026  
\275\264\025\002\003\001\000\001\243\102\060\100\060\035\006\003  
\125\035\016\004\026\004\024\007\037\322\347\234\332\302\156\242  
\100\264\260\172\120\020\120\164\304\310\275\060\017\006\003\125  
\035\023\001\001\377\004\005\060\003\001\001\377\060\016\006\003  
\125\035\017\001\001\377\004\004\003\002\001\006\060\015\006\011  
\052\206\110\206\367\015\001\001\005\005\000\003\202\001\001\000  
\211\127\262\026\172\250\302\375\326\331\233\233\064\302\234\264  
\062\024\115\247\244\337\354\276\247\276\370\103\333\221\067\316  
\264\062\056\120\125\032\065\116\166\103\161\040\357\223\167\116  
\025\160\056\207\303\301\035\155\334\313\265\047\324\054\126\321  
\122\123\072\104\322\163\310\304\033\005\145\132\142\222\234\356  
\101\215\061\333\347\064\352\131\041\325\001\172\327\144\270\144  
\071\315\311\355\257\355\113\003\110\247\240\231\001\200\334\145  
\243\066\256\145\131\110\117\202\113\310\145\361\127\035\345\131  
\056\012\077\154\330\321\365\345\011\264\154\124\000\012\340\025  
\115\207\165\155\267\130\226\132\335\155\322\000\240\364\233\110  
\276\303\067\244\272\066\340\174\207\205\227\032\025\242\336\056  
\242\133\275\257\030\371\220\120\315\160\131\370\047\147\107\313  
\307\240\007\072\175\321\054\135\154\031\072\146\265\175\375\221  
\157\202\261\276\010\223\333\024\107\361\242\067\307\105\236\074  
\307\167\257\144\250\223\337\366\151\203\202\140\362\111\102\064  
\355\132\000\124\205\034\026\066\222\014\134\372\246\255\277\333

END

CKA\_NSS\_MOZILLA\_CA\_POLICY CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "AffirmTrust Networking"

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

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

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

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

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

# Fingerprint (SHA-256):

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

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

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "AffirmTrust Networking"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

\051\066\041\002\213\040\355\002\365\146\305\062\321\326\355\220

\237\105\000\057

END

CKA\_CERT\_MD5\_HASH MULTILINE\_OCTAL

\102\145\312\276\001\232\232\114\251\214\101\111\315\300\325\177

END

CKA\_ISSUER MULTILINE\_OCTAL

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

\024\060\022\006\003\125\004\012\014\013\101\146\146\151\162\155

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

\101\146\146\151\162\155\124\162\165\163\164\040\116\145\164\167

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

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

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

END

CKA\_TRUST\_SERVER\_AUTH CK\_TRUST CKT\_NSS\_TRUSTED\_DELEGATOR

CKA\_TRUST\_EMAIL\_PROTECTION CK\_TRUST CKT\_NSS\_MUST\_VERIFY\_TRUST

CKA\_TRUST\_CODE\_SIGNING CK\_TRUST CKT\_NSS\_MUST\_VERIFY\_TRUST

CKA\_TRUST\_STEP\_UP\_APPROVED CK\_BBOOL CK\_FALSE

#

# Certificate "AffirmTrust Premium"

#

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

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

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

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

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

# Fingerprint (SHA-256):

70:A7:3F:7F:37:6B:60:07:42:48:90:45:34:B1:14:82:D5:BF:0E:69:8E:CC:49:8D:F5:25:77:EB:F2:E9:3B:9A

# Fingerprint (SHA1): D8:A6:33:2C:E0:03:6F:B1:85:F6:63:4F:7D:6A:06:65:26:32:28:27

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_CERTIFICATE

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "AffirmTrust Premium"

CKA\_CERTIFICATE\_TYPE CK\_CERTIFICATE\_TYPE CKC\_X\_509

CKA\_SUBJECT MULTILINE\_OCTAL

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

END

CKA\_ID UTF8 "0"

CKA\_ISSUER MULTILINE\_OCTAL

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

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

\002\010\155\214\024\106\261\246\012\356

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\005\106\060\202\003\056\240\003\002\001\002\002\010\155  
\214\024\106\261\246\012\356\060\015\006\011\052\206\110\206\367  
\015\001\001\014\005\000\060\101\061\013\060\011\006\003\125\004  
\006\023\002\125\123\061\024\060\022\006\003\125\004\012\014\013  
\101\146\146\151\162\155\124\162\165\163\164\061\034\060\032\006  
\003\125\004\003\014\023\101\146\146\151\162\155\124\162\165\163  
\164\040\120\162\145\155\151\165\155\060\036\027\015\061\060\060  
\061\062\071\061\064\061\060\063\066\132\027\015\064\060\061\062  
\063\061\061\064\061\060\063\066\132\060\101\061\013\060\011\006  
\003\125\004\006\023\002\125\123\061\024\060\022\006\003\125\004  
\012\014\013\101\146\146\151\162\155\124\162\165\163\164\061\034  
\060\032\006\003\125\004\003\014\023\101\146\146\151\162\155\124  
\162\165\163\164\040\120\162\145\155\151\165\155\060\202\002\042  
\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003  
\202\002\017\000\060\202\002\012\002\202\002\001\000\304\022\337  
\251\137\376\101\335\335\365\237\212\343\366\254\341\074\170\232  
\274\330\360\177\172\240\063\052\334\215\040\133\256\055\157\347  
\223\331\066\160\152\150\317\216\121\243\205\133\147\004\240\020  
\044\157\135\050\202\301\227\127\330\110\051\023\266\341\276\221  
\115\337\205\014\123\030\232\036\044\242\117\217\360\242\205\013  
\313\364\051\177\322\244\130\356\046\115\311\252\250\173\232\331

\372\070\336\104\127\025\345\370\214\310\331\110\342\015\026\047  
\035\036\310\203\205\045\267\272\252\125\101\314\003\042\113\055  
\221\215\213\346\211\257\146\307\351\377\053\351\074\254\332\322  
\263\303\341\150\234\211\370\172\000\126\336\364\125\225\154\373  
\272\144\335\142\213\337\013\167\062\353\142\314\046\232\233\273  
\252\142\203\114\264\006\172\060\310\051\277\355\006\115\227\271  
\034\304\061\053\325\137\274\123\022\027\234\231\127\051\146\167  
\141\041\061\007\056\045\111\235\030\362\356\363\053\161\214\265  
\272\071\007\111\167\374\357\056\222\220\005\215\055\057\167\173  
\357\103\277\065\273\232\330\371\163\247\054\362\320\127\356\050  
\116\046\137\217\220\150\011\057\270\370\334\006\351\056\232\076  
\121\247\321\042\304\012\247\070\110\154\263\371\377\175\253\206  
\127\343\272\326\205\170\167\272\103\352\110\177\366\330\276\043  
\155\036\277\321\066\154\130\134\361\356\244\031\124\032\365\003  
\322\166\346\341\214\275\074\263\323\110\113\342\310\370\177\222  
\250\166\106\234\102\145\076\244\036\301\007\003\132\106\055\270  
\227\363\267\325\262\125\041\357\272\334\114\000\227\373\024\225  
\047\063\277\350\103\107\106\322\010\231\026\140\073\232\176\322  
\346\355\070\352\354\001\036\074\110\126\111\011\307\114\067\000  
\236\210\016\300\163\341\157\146\351\162\107\060\076\020\345\013  
\003\311\232\102\000\154\305\224\176\141\304\212\337\177\202\032  
\013\131\304\131\062\167\263\274\140\151\126\071\375\264\006\173  
\054\326\144\066\331\275\110\355\204\037\176\245\042\217\052\270  
\102\364\202\267\324\123\220\170\116\055\032\375\201\157\104\327  
\073\001\164\226\102\340\000\342\056\153\352\305\356\162\254\273  
\277\376\352\252\250\370\334\366\262\171\212\266\147\002\003\001  
\000\001\243\102\060\100\060\035\006\003\125\035\016\004\026\004  
\024\235\300\147\246\014\042\331\046\365\105\253\246\145\122\021  
\047\330\105\254\143\060\017\006\003\125\035\023\001\001\377\004  
\005\060\003\001\001\377\060\016\006\003\125\035\017\001\001\377  
\004\004\003\002\001\006\060\015\006\011\052\206\110\206\367\015  
\001\001\014\005\000\003\202\002\001\000\263\127\115\020\142\116  
\072\344\254\352\270\034\257\062\043\310\263\111\132\121\234\166  
\050\215\171\252\127\106\027\325\365\122\366\267\104\350\010\104  
\277\030\204\322\013\200\315\305\022\375\000\125\005\141\207\101  
\334\265\044\236\074\304\330\310\373\160\236\057\170\226\203\040  
\066\336\174\017\151\023\210\245\165\066\230\010\246\306\337\254  
\316\343\130\326\267\076\336\272\363\353\064\100\330\242\201\365  
\170\077\057\325\245\374\331\242\324\136\004\016\027\255\376\101  
\360\345\262\162\372\104\202\063\102\350\055\130\367\126\214\142  
\077\272\102\260\234\014\134\176\056\145\046\134\123\117\000\262  
\170\176\241\015\231\055\215\270\035\216\242\304\260\375\140\320  
\060\244\216\310\004\142\251\304\355\065\336\172\227\355\016\070  
\136\222\057\223\160\245\251\234\157\247\175\023\035\176\306\010  
\110\261\136\147\353\121\010\045\351\346\045\153\122\051\221\234  
\322\071\163\010\127\336\231\006\264\133\235\020\006\341\302\000  
\250\270\034\112\002\012\024\320\301\101\312\373\214\065\041\175  
\202\070\362\251\124\221\031\065\223\224\155\152\072\305\262\320



```
\273\211\206\223\350\233\311\017\072\247\172\270\241\360\170\106
\372\374\067\057\345\212\204\363\337\376\004\331\241\150\240\057
\044\342\011\225\006\325\225\312\341\044\226\353\174\366\223\005
\273\355\163\351\055\321\165\071\327\347\044\333\330\116\137\103
\217\236\320\024\071\277\125\160\110\231\127\061\264\234\356\112
\230\003\226\060\037\140\006\356\033\043\376\201\140\043\032\107
\142\205\245\314\031\064\200\157\263\254\032\343\237\360\173\110
\255\325\001\331\147\266\251\162\223\352\055\146\265\262\270\344
\075\074\262\357\114\214\352\353\007\277\253\065\232\125\206\274
\030\246\265\250\136\264\203\154\153\151\100\323\237\334\361\303
\151\153\271\341\155\011\364\361\252\120\166\012\172\175\172\027
\241\125\226\102\231\061\011\335\140\021\215\005\060\176\346\216
\106\321\235\024\332\307\027\344\005\226\214\304\044\265\033\317
\024\007\262\100\370\243\236\101\206\274\004\320\153\226\310\052
\200\064\375\277\357\006\243\335\130\305\205\075\076\217\376\236
\051\340\266\270\011\150\031\034\030\103
```

END

```
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRICT_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRICT_AFTER CK_BBOOL CK_FALSE
```

# Trust for "AffirmTrust Premium"

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

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

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

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

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

# Fingerprint (SHA-256):

70:A7:3F:7F:37:6B:60:07:42:48:90:45:34:B1:14:82:D5:BF:0E:69:8E:CC:49:8D:F5:25:77:EB:F2:E9:3B:9A

# Fingerprint (SHA1): D8:A6:33:2C:E0:03:6F:B1:85:F6:63:4F:7D:6A:06:65:26:32:28:27

```
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
```

```
CKA_TOKEN CK_BBOOL CK_TRUE
```

```
CKA_PRIVATE CK_BBOOL CK_FALSE
```

```
CKA_MODIFIABLE CK_BBOOL CK_FALSE
```

```
CKA_LABEL UTF8 "AffirmTrust Premium"
```

```
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
```

```
\330\246\063\054\340\003\157\261\205\366\143\117\175\152\006\145
\046\062\050\047
```

END

```
CKA_CERT_MD5_HASH MULTILINE_OCTAL
```

```
\304\135\016\110\266\254\050\060\116\012\274\371\070\026\207\127
```

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

```

END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\155\214\024\106\261\246\012\356
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "AffirmTrust Premium ECC"
#
Issuer: CN=AffirmTrust Premium ECC,O=AffirmTrust,C=US
Serial Number:74:97:25:8a:c7:3f:7a:54
Subject: CN=AffirmTrust Premium ECC,O=AffirmTrust,C=US
Not Valid Before: Fri Jan 29 14:20:24 2010
Not Valid After : Mon Dec 31 14:20:24 2040
Fingerprint (SHA-256):
BD:71:FD:F6:DA:97:E4:CF:62:D1:64:7A:DD:25:81:B0:7D:79:AD:F8:39:7E:B4:EC:BA:9C:5E:84:88:82:14:23
Fingerprint (SHA1): B8:23:6B:00:2F:1D:16:86:53:01:55:6C:11:A4:37:CA:EB:FF:C3:BB
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AffirmTrust Premium ECC"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\105\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\024\060\022\006\003\125\004\012\014\013\101\146\146\151\162\155
\124\162\165\163\164\061\040\060\036\006\003\125\004\003\014\027
\101\146\146\151\162\155\124\162\165\163\164\040\120\162\145\155
\151\165\155\040\105\103\103
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\105\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\024\060\022\006\003\125\004\012\014\013\101\146\146\151\162\155
\124\162\165\163\164\061\040\060\036\006\003\125\004\003\014\027
\101\146\146\151\162\155\124\162\165\163\164\040\120\162\145\155
\151\165\155\040\105\103\103
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\164\227\045\212\307\077\172\124
END
CKA_VALUE MULTILINE_OCTAL
\060\202\001\376\060\202\001\205\240\003\002\001\002\002\010\164
\227\045\212\307\077\172\124\060\012\006\010\052\206\110\316\075
\004\003\003\060\105\061\013\060\011\006\003\125\004\006\023\002

```

\125\123\061\024\060\022\006\003\125\004\012\014\013\101\146\146  
\151\162\155\124\162\165\163\164\061\040\060\036\006\003\125\004  
\003\014\027\101\146\146\151\162\155\124\162\165\163\164\040\120  
\162\145\155\151\165\155\040\105\103\103\060\036\027\015\061\060  
\060\061\062\071\061\064\062\060\062\064\132\027\015\064\060\061  
\062\063\061\061\064\062\060\062\064\132\060\105\061\013\060\011  
\006\003\125\004\006\023\002\125\123\061\024\060\022\006\003\125  
\004\012\014\013\101\146\146\151\162\155\124\162\165\163\164\061  
\040\060\036\006\003\125\004\003\014\027\101\146\146\151\162\155  
\124\162\165\163\164\040\120\162\145\155\151\165\155\040\105\103  
\103\060\166\060\020\006\007\052\206\110\316\075\002\001\006\005  
\053\201\004\000\042\003\142\000\004\015\060\136\033\025\235\003  
\320\241\171\065\267\072\074\222\172\312\025\034\315\142\363\234  
\046\134\007\075\345\124\372\243\326\314\022\352\364\024\137\350  
\216\031\253\057\056\110\346\254\030\103\170\254\320\067\303\275  
\262\315\054\346\107\342\032\346\143\270\075\056\057\170\304\117  
\333\364\017\244\150\114\125\162\153\225\035\116\030\102\225\170  
\314\067\074\221\342\233\145\053\051\243\102\060\100\060\035\006  
\003\125\035\016\004\026\004\024\232\257\051\172\300\021\065\065  
\046\121\060\000\303\152\376\100\325\256\326\074\060\017\006\003  
\125\035\023\001\001\377\004\005\060\003\001\001\377\060\016\006  
\003\125\035\017\001\001\377\004\004\003\002\001\006\060\012\006  
\010\052\206\110\316\075\004\003\003\003\147\000\060\144\002\060  
\027\011\363\207\210\120\132\257\310\300\102\277\107\137\365\154  
\152\206\340\304\047\164\344\070\123\327\005\177\033\064\343\306  
\057\263\312\011\074\067\235\327\347\270\106\361\375\241\342\161  
\002\060\102\131\207\103\324\121\337\272\323\011\062\132\316\210  
\176\127\075\234\137\102\153\365\007\055\265\360\202\223\371\131  
\157\256\144\372\130\345\213\036\343\143\276\265\201\315\157\002  
\214\171

END

CKA\_NSS\_MOZILLA\_CA\_POLICY CK\_BBOOL CK\_TRUE  
CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE  
CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "AffirmTrust Premium ECC"

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

# Serial Number: 74:97:25:8a:c7:3f:7a:54

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

# Not Valid Before: Fri Jan 29 14:20:24 2010

# Not Valid After : Mon Dec 31 14:20:24 2040

# Fingerprint (SHA-256):

BD:71:FD:F6:DA:97:E4:CF:62:D1:64:7A:DD:25:81:B0:7D:79:AD:F8:39:7E:B4:EC:BA:9C:5E:84:88:82:14:23

# Fingerprint (SHA1): B8:23:6B:00:2F:1D:16:86:53:01:55:6C:11:A4:37:CA:EB:FF:C3:BB

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

```

CKA_LABEL UTF8 "AffirmTrust Premium ECC"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\270\043\153\000\057\035\026\206\123\001\125\154\021\244\067\312
\353\377\303\273
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\144\260\011\125\317\261\325\231\342\276\023\253\246\135\352\115
END
CKA_ISSUER MULTILINE_OCTAL
\060\105\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\024\060\022\006\003\125\004\012\014\013\101\146\146\151\162\155
\124\162\165\163\164\061\040\060\036\006\003\125\004\003\014\027
\101\146\146\151\162\155\124\162\165\163\164\040\120\162\145\155
\151\165\155\040\105\103\103
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\164\227\045\212\307\077\172\124
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Certum Trusted Network CA"
#
Issuer: CN=Certum Trusted Network CA,OU=Certum Certification Authority,O=Unizeto Technologies
S.A.,C=PL
Serial Number: 279744 (0x444c0)
Subject: CN=Certum Trusted Network CA,OU=Certum Certification Authority,O=Unizeto Technologies
S.A.,C=PL
Not Valid Before: Wed Oct 22 12:07:37 2008
Not Valid After : Mon Dec 31 12:07:37 2029
Fingerprint (SHA-256):
5C:58:46:8D:55:F5:8E:49:7E:74:39:82:D2:B5:00:10:B6:D1:65:37:4A:CF:83:A7:D4:A3:2D:B7:68:C4:40:8E
Fingerprint (SHA1): 07:E0:32:E0:20:B7:2C:3F:19:2F:06:28:A2:59:3A:19:A7:0F:06:9E
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certum Trusted Network CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\176\061\013\060\011\006\003\125\004\006\023\002\120\114\061
\042\060\040\006\003\125\004\012\023\031\125\156\151\172\145\164
\157\040\124\145\143\150\156\157\154\157\147\151\145\163\040\123
\056\101\056\061\047\060\045\006\003\125\004\013\023\036\103\145
\162\164\165\155\040\103\145\162\164\151\146\151\143\141\164\151

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\157\156\040\101\165\164\150\157\162\151\164\171\061\042\060\040  
\006\003\125\004\003\023\031\103\145\162\164\165\155\040\124\162  
\165\163\164\145\144\040\116\145\164\167\157\162\153\040\103\101  
END

CKA\_ID UTF8 "0"

CKA\_ISSUER MULTILINE\_OCTAL

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

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

\002\003\004\104\300

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\003\273\060\202\002\243\240\003\002\001\002\002\003\004  
\104\300\060\015\006\011\052\206\110\206\367\015\001\001\005\005  
\000\060\176\061\013\060\011\006\003\125\004\006\023\002\120\114  
\061\042\060\040\006\003\125\004\012\023\031\125\156\151\172\145  
\164\157\040\124\145\143\150\156\157\154\157\147\151\145\163\040  
\123\056\101\056\061\047\060\045\006\003\125\004\013\023\036\103  
\145\162\164\165\155\040\103\145\162\164\151\146\151\143\141\164  
\151\157\156\040\101\165\164\150\157\162\151\164\171\061\042\060  
\040\006\003\125\004\003\023\031\103\145\162\164\165\155\040\124  
\162\165\163\164\145\144\040\116\145\164\167\157\162\153\040\103  
\101\060\036\027\015\060\070\061\060\062\062\061\062\060\067\063  
\067\132\027\015\062\071\061\062\063\061\061\062\060\067\063\067  
\132\060\176\061\013\060\011\006\003\125\004\006\023\002\120\114  
\061\042\060\040\006\003\125\004\012\023\031\125\156\151\172\145  
\164\157\040\124\145\143\150\156\157\154\157\147\151\145\163\040  
\123\056\101\056\061\047\060\045\006\003\125\004\013\023\036\103  
\145\162\164\165\155\040\103\145\162\164\151\146\151\143\141\164  
\151\157\156\040\101\165\164\150\157\162\151\164\171\061\042\060  
\040\006\003\125\004\003\023\031\103\145\162\164\165\155\040\124  
\162\165\163\164\145\144\040\116\145\164\167\157\162\153\040\103  
\101\060\202\001\042\060\015\006\011\052\206\110\206\367\015\001  
\001\001\005\000\003\202\001\017\000\060\202\001\012\002\202\001  
\001\000\343\373\175\243\162\272\302\360\311\024\207\365\153\001  
\116\341\156\100\007\272\155\047\135\177\367\133\055\263\132\307  
\121\137\253\244\062\246\141\207\266\156\017\206\322\060\002\227  
\370\327\151\127\241\030\071\135\152\144\171\306\001\131\254\074  
\061\112\070\174\322\004\322\113\050\350\040\137\073\007\242\314  
\115\163\333\363\256\117\307\126\325\132\247\226\211\372\363\253  
\150\324\043\206\131\047\317\011\047\274\254\156\162\203\034\060

\162\337\340\242\351\322\341\164\165\031\275\052\236\173\025\124  
\004\033\327\103\071\255\125\050\305\342\032\273\364\300\344\256  
\070\111\063\314\166\205\237\071\105\322\244\236\362\022\214\121  
\370\174\344\055\177\365\254\137\353\026\237\261\055\321\272\314  
\221\102\167\114\045\311\220\070\157\333\360\314\373\216\036\227  
\131\076\325\140\116\346\005\050\355\111\171\023\113\272\110\333  
\057\371\162\323\071\312\376\037\330\064\162\365\264\100\317\061  
\001\303\354\336\021\055\027\135\037\270\120\321\136\031\247\151  
\336\007\063\050\312\120\225\371\247\124\313\124\206\120\105\251  
\371\111\002\003\001\000\001\243\102\060\100\060\017\006\003\125  
\035\023\001\001\377\004\005\060\003\001\001\377\060\035\006\003  
\125\035\016\004\026\004\024\010\166\315\313\007\377\044\366\305  
\315\355\273\220\274\342\204\067\106\165\367\060\016\006\003\125  
\035\017\001\001\377\004\004\003\002\001\006\060\015\006\011\052  
\206\110\206\367\015\001\001\005\005\000\003\202\001\001\000\246  
\250\255\042\316\001\075\246\243\377\142\320\110\235\213\136\162  
\260\170\104\343\334\034\257\011\375\043\110\372\275\052\304\271  
\125\004\265\020\243\215\047\336\013\202\143\320\356\336\014\067  
\171\101\133\042\262\260\232\101\134\246\160\340\324\320\167\313  
\043\323\000\340\154\126\057\341\151\015\015\331\252\277\041\201  
\120\331\006\245\250\377\225\067\320\252\376\342\263\365\231\055  
\105\204\212\345\102\011\327\164\002\057\367\211\330\231\351\274  
\047\324\107\215\272\015\106\034\167\317\024\244\034\271\244\061  
\304\234\050\164\003\064\377\063\031\046\245\351\015\164\267\076  
\227\306\166\350\047\226\243\146\335\341\256\362\101\133\312\230  
\126\203\163\160\344\206\032\322\061\101\272\057\276\055\023\132  
\166\157\116\350\116\201\016\077\133\003\042\240\022\276\146\130  
\021\112\313\003\304\264\052\052\055\226\027\340\071\124\274\110  
\323\166\047\235\232\055\006\246\311\354\071\322\253\333\237\232  
\013\047\002\065\051\261\100\225\347\371\350\234\125\210\031\106  
\326\267\064\365\176\316\071\232\331\070\361\121\367\117\054

END

CKA\_NSS\_MOZILLA\_CA\_POLICY CK\_BBOOL CK\_TRUE  
CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE  
CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "Certum Trusted Network CA"

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

# Serial Number: 279744 (0x444c0)

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

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

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

# Fingerprint (SHA-256):

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

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

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

```

CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certum Trusted Network CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\007\340\062\340\040\267\054\077\031\057\006\050\242\131\072\031
\247\017\006\236
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\325\351\201\100\305\030\151\374\106\054\211\165\142\017\252\170
END
CKA_ISSUER MULTILINE_OCTAL
\060\176\061\013\060\011\006\003\125\004\006\023\002\120\114\061
\042\060\040\006\003\125\004\012\023\031\125\156\151\172\145\164
\157\040\124\145\143\150\156\157\154\157\147\151\145\163\040\123
\056\101\056\061\047\060\045\006\003\125\004\013\023\036\103\145
\162\164\165\155\040\103\145\162\164\151\146\151\143\141\164\151
\157\156\040\101\165\164\150\157\162\151\164\171\061\042\060\040
\006\003\125\004\003\023\031\103\145\162\164\165\155\040\124\162
\165\163\164\145\144\040\116\145\164\167\157\162\153\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\003\004\104\300
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "TWCA Root Certification Authority"
#
Issuer: CN=TWCA Root Certification Authority,OU=Root CA,O=TAIWAN-CA,C=TW
Serial Number: 1 (0x1)
Subject: CN=TWCA Root Certification Authority,OU=Root CA,O=TAIWAN-CA,C=TW
Not Valid Before: Thu Aug 28 07:24:33 2008
Not Valid After : Tue Dec 31 15:59:59 2030
Fingerprint (SHA-256):
BF:D8:8F:E1:10:1C:41:AE:3E:80:1B:F8:BE:56:35:0E:E9:BA:D1:A6:B9:BD:51:5E:DC:5C:6D:5B:87:11:AC:44
Fingerprint (SHA1): CF:9E:87:6D:D3:EB:FC:42:26:97:A3:B5:A3:7A:A0:76:A9:06:23:48
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TWCA Root Certification Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\137\061\013\060\011\006\003\125\004\006\023\002\124\127\061

```

\022\060\020\006\003\125\004\012\014\011\124\101\111\127\101\116  
\055\103\101\061\020\060\016\006\003\125\004\013\014\007\122\157  
\157\164\040\103\101\061\052\060\050\006\003\125\004\003\014\041  
\124\127\103\101\040\122\157\157\164\040\103\145\162\164\151\146  
\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164  
\171

END

CKA\_ID UTF8 "0"

CKA\_ISSUER MULTILINE\_OCTAL

\060\137\061\013\060\011\006\003\125\004\006\023\002\124\127\061  
\022\060\020\006\003\125\004\012\014\011\124\101\111\127\101\116  
\055\103\101\061\020\060\016\006\003\125\004\013\014\007\122\157  
\157\164\040\103\101\061\052\060\050\006\003\125\004\003\014\041  
\124\127\103\101\040\122\157\157\164\040\103\145\162\164\151\146  
\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164  
\171

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

\002\001\001

END

CKA\_VALUE MULTILINE\_OCTAL

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



\105\374\031\127\073\053\157\344\107\364\231\105\376\035\361\370  
\227\243\210\035\067\034\134\217\340\166\045\232\120\370\240\124  
\377\104\220\166\043\322\062\306\303\253\006\277\374\373\277\363  
\255\175\222\142\002\133\051\323\065\243\223\232\103\144\140\135  
\262\372\062\377\073\004\257\115\100\152\371\307\343\357\043\375  
\153\313\345\017\213\070\015\356\012\374\376\017\230\237\060\061  
\335\154\122\145\371\213\201\276\042\341\034\130\003\272\221\033  
\211\007\002\003\001\000\001\243\102\060\100\060\016\006\003\125  
\035\017\001\001\377\004\004\003\002\001\006\060\017\006\003\125  
\035\023\001\001\377\004\005\060\003\001\001\377\060\035\006\003  
\125\035\016\004\026\004\024\152\070\133\046\215\336\213\132\362  
\117\172\124\203\031\030\343\010\065\246\272\060\015\006\011\052  
\206\110\206\367\015\001\001\005\005\000\003\202\001\001\000\074  
\325\167\075\332\337\211\272\207\014\010\124\152\040\120\222\276  
\260\101\075\271\046\144\203\012\057\350\100\300\227\050\047\202  
\060\112\311\223\377\152\347\246\000\177\211\102\232\326\021\345  
\123\316\057\314\362\332\005\304\376\342\120\304\072\206\175\314  
\332\176\020\011\073\222\065\052\123\262\376\353\053\005\331\154  
\135\346\320\357\323\152\146\236\025\050\205\172\350\202\000\254  
\036\247\011\151\126\102\323\150\121\030\276\124\232\277\104\101  
\272\111\276\040\272\151\134\356\270\167\315\316\154\037\255\203  
\226\030\175\016\265\024\071\204\361\050\351\055\243\236\173\036  
\172\162\132\203\263\171\157\357\264\374\320\012\245\130\117\106  
\337\373\155\171\131\362\204\042\122\256\017\314\373\174\073\347  
\152\312\107\141\303\172\370\323\222\004\037\270\040\204\341\066  
\124\026\307\100\336\073\212\163\334\337\306\011\114\337\354\332  
\377\324\123\102\241\311\362\142\035\042\203\074\227\305\371\031  
\142\047\254\145\042\327\323\074\306\345\216\262\123\314\111\316  
\274\060\376\173\016\063\220\373\355\322\024\221\037\007\257

END

CKA\_NSS\_MOZILLA\_CA\_POLICY CK\_BBOOL CK\_TRUE  
CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE  
CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "TWCA Root Certification Authority"

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

# Serial Number: 1 (0x1)

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

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

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

# Fingerprint (SHA-256):

BF:D8:8F:E1:10:1C:41:AE:3E:80:1B:F8:BE:56:35:0E:E9:BA:D1:A6:B9:BD:51:5E:DC:5C:6D:5B:87:11:AC:44

# Fingerprint (SHA1): CF:9E:87:6D:D3:EB:FC:42:26:97:A3:B5:A3:7A:A0:76:A9:06:23:48

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "TWCA Root Certification Authority"

```

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\317\236\207\155\323\353\374\102\046\227\243\265\243\172\240\166
\251\006\043\110
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\252\010\217\366\371\173\267\362\261\247\036\233\352\352\275\171
END
CKA_ISSUER MULTILINE_OCTAL
\060\137\061\013\060\011\006\003\125\004\006\023\002\124\127\061
\022\060\020\006\003\125\004\012\014\011\124\101\111\127\101\116
\055\103\101\061\020\060\016\006\003\125\004\013\014\007\122\157
\157\164\040\103\101\061\052\060\050\006\003\125\004\003\014\041
\124\127\103\101\040\122\157\157\164\040\103\145\162\164\151\146
\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164
\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Explicitly Distrust DigiNotar Root CA"
#
Issuer: E=info@diginotar.nl,CN=DigiNotar Root CA,O=DigiNotar,C=NL
Serial Number:0f:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff
Subject: E=info@diginotar.nl,CN=DigiNotar Root CA,O=DigiNotar,C=NL
Not Valid Before: Fri Jul 27 17:19:37 2007
Not Valid After : Mon Mar 31 18:19:22 2025
Fingerprint (MD5): 0A:A4:D5:CC:BA:B4:FB:A3:59:E3:E6:01:DD:53:D9:4E
Fingerprint (SHA1): C1:77:CB:4B:E0:B4:26:8E:F5:C7:CF:45:99:22:B9:B0:CE:BA:21:2F
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Explicitly Distrust DigiNotar Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\137\061\013\060\011\006\003\125\004\006\023\002\116\114\061
\022\060\020\006\003\125\004\012\023\011\104\151\147\151\116\157
\164\141\162\061\032\060\030\006\003\125\004\003\023\021\104\151
\147\151\116\157\164\141\162\040\122\157\157\164\040\103\101\061
\040\060\036\006\011\052\206\110\206\367\015\001\011\001\026\021
\151\156\146\157\100\144\151\147\151\156\157\164\141\162\056\156
\154

```

END

CKA\_ID UTF8 "0"

CKA\_ISSUER MULTILINE\_OCTAL

\060\137\061\013\060\011\006\003\125\004\006\023\002\116\114\061  
\022\060\020\006\003\125\004\012\023\011\104\151\147\151\116\157  
\164\141\162\061\032\060\030\006\003\125\004\003\023\021\104\151  
\147\151\116\157\164\141\162\040\122\157\157\164\040\103\101\061  
\040\060\036\006\011\052\206\110\206\367\015\001\011\001\026\021  
\151\156\146\157\100\144\151\147\151\156\157\164\141\162\056\156  
\154

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

\002\020\017\377\377\377\377\377\377\377\377\377\377\377\377\377  
\377\377

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\005\212\060\202\003\162\240\003\002\001\002\002\020\017  
\377\377\377\377\377\377\377\377\377\377\377\377\377\377\377\060  
\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060\137  
\061\013\060\011\006\003\125\004\006\023\002\116\114\061\022\060  
\020\006\003\125\004\012\023\011\104\151\147\151\116\157\164\141  
\162\061\032\060\030\006\003\125\004\003\023\021\104\151\147\151  
\116\157\164\141\162\040\122\157\157\164\040\103\101\061\040\060  
\036\006\011\052\206\110\206\367\015\001\011\001\026\021\151\156  
\146\157\100\144\151\147\151\156\157\164\141\162\056\156\154\060  
\036\027\015\060\067\060\067\062\067\061\067\061\071\063\067\132  
\027\015\062\065\060\063\063\061\061\070\061\071\062\062\132\060  
\137\061\013\060\011\006\003\125\004\006\023\002\116\114\061\022  
\060\020\006\003\125\004\012\023\011\104\151\147\151\116\157\164  
\141\162\061\032\060\030\006\003\125\004\003\023\021\104\151\147  
\151\116\157\164\141\162\040\122\157\157\164\040\103\101\061\040  
\060\036\006\011\052\206\110\206\367\015\001\011\001\026\021\151  
\156\146\157\100\144\151\147\151\156\157\164\141\162\056\156\154  
\060\202\002\042\060\015\006\011\052\206\110\206\367\015\001\001  
\001\005\000\003\202\002\017\000\060\202\002\012\002\202\002\001  
\000\254\260\130\301\000\275\330\041\010\013\053\232\376\156\126  
\060\005\237\033\167\220\020\101\134\303\015\207\021\167\216\201  
\361\312\174\351\214\152\355\070\164\065\273\332\337\371\273\300  
\011\067\264\226\163\201\175\063\032\230\071\367\223\157\225\177  
\075\271\261\165\207\272\121\110\350\213\160\076\225\004\305\330  
\266\303\026\331\210\260\261\207\035\160\332\206\264\017\024\213  
\172\317\020\321\164\066\242\022\173\167\206\112\171\346\173\337  
\002\021\150\245\116\206\256\064\130\233\044\023\170\126\042\045  
\036\001\213\113\121\161\373\202\314\131\226\151\210\132\150\123  
\305\271\015\002\067\313\113\274\146\112\220\176\052\013\005\007  
\355\026\137\125\220\165\330\106\311\033\203\342\010\276\361\043  
\314\231\035\326\052\017\203\040\025\130\047\202\056\372\342\042  
\302\111\261\271\001\201\152\235\155\235\100\167\150\166\116\041

\052\155\204\100\205\116\166\231\174\202\363\363\267\002\131\324  
\046\001\033\216\337\255\123\006\321\256\030\335\342\262\072\313  
\327\210\070\216\254\133\051\271\031\323\230\371\030\003\317\110  
\202\206\146\013\033\151\017\311\353\070\210\172\046\032\005\114  
\222\327\044\324\226\362\254\122\055\243\107\325\122\366\077\376  
\316\204\006\160\246\252\076\242\362\266\126\064\030\127\242\344  
\201\155\347\312\360\152\323\307\221\153\002\203\101\174\025\357  
\153\232\144\136\343\320\074\345\261\353\173\135\206\373\313\346  
\167\111\315\243\145\334\367\271\234\270\344\013\137\223\317\314  
\060\032\062\034\316\034\143\225\245\371\352\341\164\213\236\351  
\053\251\060\173\240\030\037\016\030\013\345\133\251\323\321\154  
\036\007\147\217\221\113\251\212\274\322\146\252\223\001\210\262  
\221\372\061\134\325\246\301\122\010\011\315\012\143\242\323\042  
\246\350\241\331\071\006\227\365\156\215\002\220\214\024\173\077  
\200\315\033\234\272\304\130\162\043\257\266\126\237\306\172\102  
\063\051\007\077\202\311\346\037\005\015\315\114\050\066\213\323  
\310\076\034\306\210\357\136\356\211\144\351\035\353\332\211\176  
\062\246\151\321\335\314\210\237\321\320\311\146\041\334\006\147  
\305\224\172\232\155\142\114\175\314\340\144\200\262\236\107\216  
\243\002\003\001\000\001\243\102\060\100\060\017\006\003\125\035  
\023\001\001\377\004\005\060\003\001\001\377\060\016\006\003\125  
\035\017\001\001\377\004\004\003\002\001\006\060\035\006\003\125  
\035\016\004\026\004\024\210\150\277\340\216\065\304\073\070\153  
\142\367\050\073\204\201\310\014\327\115\060\015\006\011\052\206  
\110\206\367\015\001\001\005\005\000\003\202\002\001\000\073\002  
\215\313\074\060\350\156\240\255\362\163\263\137\236\045\023\004  
\005\323\366\343\213\273\013\171\316\123\336\344\226\305\321\257  
\163\274\325\303\320\100\125\174\100\177\315\033\137\011\325\362  
\174\237\150\035\273\135\316\172\071\302\214\326\230\173\305\203  
\125\250\325\175\100\312\340\036\367\211\136\143\135\241\023\302  
\135\212\266\212\174\000\363\043\303\355\205\137\161\166\360\150  
\143\252\105\041\071\110\141\170\066\334\361\103\223\324\045\307  
\362\200\145\341\123\002\165\121\374\172\072\357\067\253\204\050  
\127\014\330\324\324\231\126\154\343\242\376\131\204\264\061\350  
\063\370\144\224\224\121\227\253\071\305\113\355\332\335\200\013  
\157\174\051\015\304\216\212\162\015\347\123\024\262\140\101\075  
\204\221\061\150\075\047\104\333\345\336\364\372\143\105\310\114  
\076\230\365\077\101\272\116\313\067\015\272\146\230\361\335\313  
\237\134\367\124\066\202\153\054\274\023\141\227\102\370\170\273  
\314\310\242\237\312\360\150\275\153\035\262\337\215\157\007\235  
\332\216\147\307\107\036\312\271\277\052\102\221\267\143\123\146  
\361\102\243\341\364\132\115\130\153\265\344\244\063\255\134\160  
\035\334\340\362\353\163\024\221\232\003\301\352\000\145\274\007  
\374\317\022\021\042\054\256\240\275\072\340\242\052\330\131\351  
\051\323\030\065\244\254\021\137\031\265\265\033\377\042\112\134  
\306\172\344\027\357\040\251\247\364\077\255\212\247\232\004\045  
\235\016\312\067\346\120\375\214\102\051\004\232\354\271\317\113  
\162\275\342\010\066\257\043\057\142\345\312\001\323\160\333\174

\202\043\054\026\061\014\306\066\007\220\172\261\037\147\130\304  
\073\130\131\211\260\214\214\120\263\330\206\313\150\243\304\012  
\347\151\113\040\316\301\036\126\113\225\251\043\150\330\060\330  
\303\353\260\125\121\315\345\375\053\270\365\273\021\237\123\124  
\366\064\031\214\171\011\066\312\141\027\045\027\013\202\230\163  
\014\167\164\303\325\015\307\250\022\114\307\247\124\161\107\056  
\054\032\175\311\343\053\073\110\336\047\204\247\143\066\263\175  
\217\240\144\071\044\015\075\173\207\257\146\134\164\033\113\163  
\262\345\214\360\206\231\270\345\305\337\204\301\267\353  
END

# Trust for Certificate "Explicitly Distrust DigiNotar Root CA"  
# Issuer: E=info@diginotar.nl,CN=DigiNotar Root CA,O=DigiNotar,C=NL  
# Serial Number:0f:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff  
# Subject: E=info@diginotar.nl,CN=DigiNotar Root CA,O=DigiNotar,C=NL  
# Not Valid Before: Fri Jul 27 17:19:37 2007  
# Not Valid After : Mon Mar 31 18:19:22 2025  
# Fingerprint (MD5): 0A:A4:D5:CC:BA:B4:FB:A3:59:E3:E6:01:DD:53:D9:4E  
# Fingerprint (SHA1): C1:77:CB:4B:E0:B4:26:8E:F5:C7:CF:45:99:22:B9:B0:CE:BA:21:2F  
CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST  
CKA\_TOKEN CK\_BBOOL CK\_TRUE  
CKA\_PRIVATE CK\_BBOOL CK\_FALSE  
CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE  
CKA\_LABEL UTF8 "Explicitly Distrust DigiNotar Root CA"  
CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL  
\301\167\313\113\340\264\046\216\365\307\317\105\231\042\271\260  
\316\272\041\057  
END  
CKA\_CERT\_MD5\_HASH MULTILINE\_OCTAL  
\012\244\325\314\272\264\373\243\131\343\346\001\335\123\331\116  
END  
CKA\_ISSUER MULTILINE\_OCTAL  
\060\137\061\013\060\011\006\003\125\004\006\023\002\116\114\061  
\022\060\020\006\003\125\004\012\023\011\104\151\147\151\116\157  
\164\141\162\061\032\060\030\006\003\125\004\003\023\021\104\151  
\147\151\116\157\164\141\162\040\122\157\157\164\040\103\101\061  
\040\060\036\006\011\052\206\110\206\367\015\001\011\001\026\021  
\151\156\146\157\100\144\151\147\151\156\157\164\141\162\056\156  
\154  
END  
CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL  
\002\020\017\377\377\377\377\377\377\377\377\377\377\377\377\377  
\377\377  
END  
CKA\_TRUST\_SERVER\_AUTH CK\_TRUST CKT\_NSS\_NOT\_TRUSTED  
CKA\_TRUST\_EMAIL\_PROTECTION CK\_TRUST CKT\_NSS\_NOT\_TRUSTED  
CKA\_TRUST\_CODE\_SIGNING CK\_TRUST CKT\_NSS\_NOT\_TRUSTED  
CKA\_TRUST\_STEP\_UP\_APPROVED CK\_BBOOL CK\_FALSE

```
#
Certificate "Security Communication RootCA2"
#
Issuer: OU=Security Communication RootCA2,O="SECOM Trust Systems CO.,LTD.",C=JP
Serial Number: 0 (0x0)
Subject: OU=Security Communication RootCA2,O="SECOM Trust Systems CO.,LTD.",C=JP
Not Valid Before: Fri May 29 05:00:39 2009
Not Valid After : Tue May 29 05:00:39 2029
Fingerprint (SHA-256):
51:3B:2C:EC:B8:10:D4:CD:E5:DD:85:39:1A:DF:C6:C2:DD:60:D8:7B:B7:36:D2:B5:21:48:4A:A4:7A:0E:BE:F6
Fingerprint (SHA1): 5F:3B:8C:F2:F8:10:B3:7D:78:B4:CE:EC:19:19:C3:73:34:B9:C7:74
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Security Communication RootCA2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\135\061\013\060\011\006\003\125\004\006\023\002\112\120\061
\045\060\043\006\003\125\004\012\023\034\123\105\103\117\115\040
\124\162\165\163\164\040\123\171\163\164\145\155\163\040\103\117
\056\054\114\124\104\056\061\047\060\045\006\003\125\004\013\023
\036\123\145\143\165\162\151\164\171\040\103\157\155\155\165\156
\151\143\141\164\151\157\156\040\122\157\157\164\103\101\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\135\061\013\060\011\006\003\125\004\006\023\002\112\120\061
\045\060\043\006\003\125\004\012\023\034\123\105\103\117\115\040
\124\162\165\163\164\040\123\171\163\164\145\155\163\040\103\117
\056\054\114\124\104\056\061\047\060\045\006\003\125\004\013\023
\036\123\145\143\165\162\151\164\171\040\103\157\155\155\165\156
\151\143\141\164\151\157\156\040\122\157\157\164\103\101\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\167\060\202\002\137\240\003\002\001\002\002\001\000
\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060
\135\061\013\060\011\006\003\125\004\006\023\002\112\120\061\045
\060\043\006\003\125\004\012\023\034\123\105\103\117\115\040\124
\162\165\163\164\040\123\171\163\164\145\155\163\040\103\117\056
\054\114\124\104\056\061\047\060\045\006\003\125\004\013\023\036
\123\145\143\165\162\151\164\171\040\103\157\155\155\165\156\151
\143\141\164\151\157\156\040\122\157\157\164\103\101\062\060\036
\027\015\060\071\060\065\062\071\060\065\060\060\063\071\132\027
```

\015\062\071\060\065\062\071\060\065\060\060\063\071\132\060\135  
\061\013\060\011\006\003\125\004\006\023\002\112\120\061\045\060  
\043\006\003\125\004\012\023\034\123\105\103\117\115\040\124\162  
\165\163\164\040\123\171\163\164\145\155\163\040\103\117\056\054  
\114\124\104\056\061\047\060\045\006\003\125\004\013\023\036\123  
\145\143\165\162\151\164\171\040\103\157\155\155\165\156\151\143  
\141\164\151\157\156\040\122\157\157\164\103\101\062\060\202\001  
\042\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000  
\003\202\001\017\000\060\202\001\012\002\202\001\001\000\320\025  
\071\122\261\122\263\272\305\131\202\304\135\122\256\072\103\145  
\200\113\307\362\226\274\333\066\227\326\246\144\214\250\136\360  
\343\012\034\367\337\227\075\113\256\366\135\354\041\265\101\253  
\315\271\176\166\237\276\371\076\066\064\240\073\301\366\061\021  
\105\164\223\075\127\200\305\371\211\231\312\345\253\152\324\265  
\332\101\220\020\301\326\326\102\211\302\277\364\070\022\225\114  
\124\005\367\066\344\105\203\173\024\145\326\334\014\115\321\336  
\176\014\253\073\304\025\276\072\126\246\132\157\166\151\122\251  
\172\271\310\353\152\232\135\122\320\055\012\153\065\026\011\020  
\204\320\152\312\072\006\000\067\107\344\176\127\117\077\213\353  
\147\270\210\252\305\276\123\125\262\221\304\175\271\260\205\031  
\006\170\056\333\141\032\372\205\365\112\221\241\347\026\325\216  
\242\071\337\224\270\160\037\050\077\213\374\100\136\143\203\074  
\203\052\032\231\153\317\336\131\152\073\374\157\026\327\037\375  
\112\020\353\116\202\026\072\254\047\014\123\361\255\325\044\260  
\153\003\120\301\055\074\026\335\104\064\047\032\165\373\002\003  
\001\000\001\243\102\060\100\060\035\006\003\125\035\016\004\026  
\004\024\012\205\251\167\145\005\230\174\100\201\370\017\227\054  
\070\361\012\354\074\317\060\016\006\003\125\035\017\001\001\377  
\004\004\003\002\001\006\060\017\006\003\125\035\023\001\001\377  
\004\005\060\003\001\001\377\060\015\006\011\052\206\110\206\367  
\015\001\001\013\005\000\003\202\001\001\000\114\072\243\104\254  
\271\105\261\307\223\176\310\013\012\102\337\144\352\034\356\131  
\154\010\272\211\137\152\312\112\225\236\172\217\007\305\332\105  
\162\202\161\016\072\322\314\157\247\264\241\043\273\366\044\237  
\313\027\376\214\246\316\302\322\333\314\215\374\161\374\003\051  
\301\154\135\063\137\144\266\145\073\211\157\030\166\170\365\334  
\242\110\037\031\077\216\223\353\361\372\027\356\315\116\343\004  
\022\125\326\345\344\335\373\076\005\174\342\035\136\306\247\274  
\227\117\150\072\365\351\056\012\103\266\257\127\134\142\150\174  
\267\375\243\212\204\240\254\142\276\053\011\207\064\360\152\001  
\273\233\051\126\074\376\000\067\317\043\154\361\116\252\266\164  
\106\022\154\221\356\064\325\354\232\221\347\104\276\220\061\162  
\325\111\002\366\002\345\364\037\353\174\331\226\125\251\377\354  
\212\371\231\107\377\065\132\002\252\004\313\212\133\207\161\051  
\221\275\244\264\172\015\275\232\365\127\043\000\007\041\027\077  
\112\071\321\005\111\013\247\266\067\201\245\135\214\252\063\136  
\201\050\174\247\175\047\353\000\256\215\067

END

```

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRICT_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRICT_AFTER CK_BBOOL CK_FALSE

Trust for "Security Communication RootCA2"
Issuer: OU=Security Communication RootCA2,O="SECOM Trust Systems CO.,LTD.",C=JP
Serial Number: 0 (0x0)
Subject: OU=Security Communication RootCA2,O="SECOM Trust Systems CO.,LTD.",C=JP
Not Valid Before: Fri May 29 05:00:39 2009
Not Valid After : Tue May 29 05:00:39 2029
Fingerprint (SHA-256):
51:3B:2C:EC:B8:10:D4:CD:E5:DD:85:39:1A:DF:C6:C2:DD:60:D8:7B:B7:36:D2:B5:21:48:4A:A4:7A:0E:BE:F6
Fingerprint (SHA1): 5F:3B:8C:F2:F8:10:B3:7D:78:B4:CE:EC:19:19:C3:73:34:B9:C7:74
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Security Communication RootCA2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\137\073\214\362\370\020\263\175\170\264\316\354\031\031\303\163
\064\271\307\164
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\154\071\175\244\016\125\131\262\077\326\101\261\022\120\336\103
END
CKA_ISSUER MULTILINE_OCTAL
\060\135\061\013\060\011\006\003\125\004\006\023\002\112\120\061
\045\060\043\006\003\125\004\012\023\034\123\105\103\117\115\040
\124\162\165\163\164\040\123\171\163\164\145\155\163\040\103\117
\056\054\114\124\104\056\061\047\060\045\006\003\125\004\013\023
\036\123\145\143\165\162\151\164\171\040\103\157\155\155\165\156
\151\143\141\164\151\157\156\040\122\157\157\164\103\101\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

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

```



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

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

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

# Fingerprint (SHA-256):

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

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

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_CERTIFICATE

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "EC-ACC"

CKA\_CERTIFICATE\_TYPE CK\_CERTIFICATE\_TYPE CKC\_X\_509

CKA\_SUBJECT MULTILINE\_OCTAL

\060\201\363\061\013\060\011\006\003\125\004\006\023\002\105\123  
\061\073\060\071\006\003\125\004\012\023\062\101\147\145\156\143  
\151\141\040\103\141\164\141\154\141\156\141\040\144\145\040\103  
\145\162\164\151\146\151\143\141\143\151\157\040\050\116\111\106  
\040\121\055\060\070\060\061\061\067\066\055\111\051\061\050\060  
\046\006\003\125\004\013\023\037\123\145\162\166\145\151\163\040  
\120\165\142\154\151\143\163\040\144\145\040\103\145\162\164\151  
\146\151\143\141\143\151\157\061\065\060\063\006\003\125\004\013  
\023\054\126\145\147\145\165\040\150\164\164\160\163\072\057\057  
\167\167\167\056\143\141\164\143\145\162\164\056\156\145\164\057  
\166\145\162\141\162\162\145\154\040\050\143\051\060\063\061\065  
\060\063\006\003\125\004\013\023\054\112\145\162\141\162\161\165  
\151\141\040\105\156\164\151\164\141\164\163\040\144\145\040\103  
\145\162\164\151\146\151\143\141\143\151\157\040\103\141\164\141  
\154\141\156\145\163\061\017\060\015\006\003\125\004\003\023\006  
\105\103\055\101\103\103

END

CKA\_ID UTF8 "0"

CKA\_ISSUER MULTILINE\_OCTAL

\060\201\363\061\013\060\011\006\003\125\004\006\023\002\105\123  
\061\073\060\071\006\003\125\004\012\023\062\101\147\145\156\143  
\151\141\040\103\141\164\141\154\141\156\141\040\144\145\040\103  
\145\162\164\151\146\151\143\141\143\151\157\040\050\116\111\106  
\040\121\055\060\070\060\061\061\067\066\055\111\051\061\050\060  
\046\006\003\125\004\013\023\037\123\145\162\166\145\151\163\040  
\120\165\142\154\151\143\163\040\144\145\040\103\145\162\164\151  
\146\151\143\141\143\151\157\061\065\060\063\006\003\125\004\013  
\023\054\126\145\147\145\165\040\150\164\164\160\163\072\057\057  
\167\167\167\056\143\141\164\143\145\162\164\056\156\145\164\057  
\166\145\162\141\162\162\145\154\040\050\143\051\060\063\061\065  
\060\063\006\003\125\004\013\023\054\112\145\162\141\162\161\165  
\151\141\040\105\156\164\151\164\141\164\163\040\144\145\040\103  
\145\162\164\151\146\151\143\141\143\151\157\040\103\141\164\141  
\154\141\156\145\163\061\017\060\015\006\003\125\004\003\023\006

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

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

\002\020\356\053\075\353\324\041\336\024\250\142\254\004\363\335  
\304\001

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\005\126\060\202\004\076\240\003\002\001\002\002\020\356  
\053\075\353\324\041\336\024\250\142\254\004\363\335\304\001\060  
\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060\201  
\363\061\013\060\011\006\003\125\004\006\023\002\105\123\061\073  
\060\071\006\003\125\004\012\023\062\101\147\145\156\143\151\141  
\040\103\141\164\141\154\141\156\141\040\144\145\040\103\145\162  
\164\151\146\151\143\141\143\151\157\040\050\116\111\106\040\121  
\055\060\070\060\061\061\067\066\055\111\051\061\050\060\046\006  
\003\125\004\013\023\037\123\145\162\166\145\151\163\040\120\165  
\142\154\151\143\163\040\144\145\040\103\145\162\164\151\146\151  
\143\141\143\151\157\061\065\060\063\006\003\125\004\013\023\054  
\126\145\147\145\165\040\150\164\164\160\163\072\057\057\167\167  
\167\056\143\141\164\143\145\162\164\056\156\145\164\057\166\145  
\162\141\162\162\145\154\040\050\143\051\060\063\061\065\060\063  
\006\003\125\004\013\023\054\112\145\162\141\162\161\165\151\141  
\040\105\156\164\151\164\141\164\163\040\144\145\040\103\145\162  
\164\151\146\151\143\141\143\151\157\040\103\141\164\141\154\141  
\156\145\163\061\017\060\015\006\003\125\004\003\023\006\105\103  
\055\101\103\103\060\036\027\015\060\063\060\061\060\067\062\062\063  
\060\060\060\060\132\027\015\063\061\060\061\060\067\062\062\065  
\071\065\071\132\060\201\363\061\013\060\011\006\003\125\004\006  
\023\002\105\123\061\073\060\071\006\003\125\004\012\023\062\101  
\147\145\156\143\151\141\040\103\141\164\141\154\141\156\141\040  
\144\145\040\103\145\162\164\151\146\151\143\141\143\151\157\040  
\050\116\111\106\040\121\055\060\070\060\061\061\067\066\055\111  
\051\061\050\060\046\006\003\125\004\013\023\037\123\145\162\166  
\145\151\163\040\120\165\142\154\151\143\163\040\144\145\040\103  
\145\162\164\151\146\151\143\141\143\151\157\061\065\060\063\006  
\003\125\004\013\023\054\126\145\147\145\165\040\150\164\164\160  
\163\072\057\057\167\167\167\056\143\141\164\143\145\162\164\056  
\156\145\164\057\166\145\162\141\162\162\145\154\040\050\143\051  
\060\063\061\065\060\063\006\003\125\004\013\023\054\112\145\162  
\141\162\161\165\151\141\040\105\156\164\151\164\141\164\163\040  
\144\145\040\103\145\162\164\151\146\151\143\141\143\151\157\040  
\103\141\164\141\154\141\156\145\163\061\017\060\015\006\003\125  
\004\003\023\006\105\103\055\101\103\103\060\202\001\042\060\015  
\006\011\052\206\110\206\367\015\001\001\001\005\000\003\202\001  
\017\000\060\202\001\012\002\202\001\001\000\263\042\307\117\342  
\227\102\225\210\107\203\100\366\035\027\363\203\163\044\036\121  
\363\230\212\303\222\270\377\100\220\005\160\207\140\311\000\251  
\265\224\145\031\042\025\027\302\103\154\146\104\232\015\004\076

\071\157\245\113\172\252\143\267\212\104\235\331\143\221\204\146  
\340\050\017\272\102\343\156\216\367\024\047\223\151\356\221\016  
\243\137\016\261\353\146\242\162\117\022\023\206\145\172\076\333  
\117\007\364\247\011\140\332\072\102\231\307\262\177\263\026\225  
\034\307\371\064\265\224\205\325\231\136\240\110\240\176\347\027  
\145\270\242\165\270\036\363\345\102\175\257\355\363\212\110\144  
\135\202\024\223\330\300\344\377\263\120\162\362\166\366\263\135  
\102\120\171\320\224\076\153\014\000\276\330\153\016\116\052\354  
\076\322\314\202\242\030\145\063\023\167\236\232\135\032\023\330  
\303\333\075\310\227\172\356\160\355\247\346\174\333\161\317\055  
\224\142\337\155\326\365\070\276\077\245\205\012\031\270\250\330  
\011\165\102\160\304\352\357\313\016\310\064\250\022\042\230\014  
\270\023\224\266\113\354\360\320\220\347\047\002\003\001\000\001  
\243\201\343\060\201\340\060\035\006\003\125\035\021\004\026\060  
\024\201\022\145\143\137\141\143\143\100\143\141\164\143\145\162  
\164\056\156\145\164\060\017\006\003\125\035\023\001\001\377\004  
\005\060\003\001\001\377\060\016\006\003\125\035\017\001\001\377  
\004\004\003\002\001\006\060\035\006\003\125\035\016\004\026\004  
\024\240\303\213\104\252\067\245\105\277\227\200\132\321\361\170  
\242\233\351\135\215\060\177\006\003\125\035\040\004\170\060\166  
\060\164\006\013\053\006\001\004\001\365\170\001\003\001\012\060  
\145\060\054\006\010\053\006\001\005\005\007\002\001\026\040\150  
\164\164\160\163\072\057\057\167\167\167\056\143\141\164\143\145  
\162\164\056\156\145\164\057\166\145\162\141\162\162\145\154\060  
\065\006\010\053\006\001\005\005\007\002\002\060\051\032\047\126  
\145\147\145\165\040\150\164\164\160\163\072\057\057\167\167\167  
\056\143\141\164\143\145\162\164\056\156\145\164\057\166\145\162  
\141\162\162\145\154\040\060\015\006\011\052\206\110\206\367\015  
\001\001\005\005\000\003\202\001\001\000\240\110\133\202\001\366  
\115\110\270\071\125\065\234\200\172\123\231\325\132\377\261\161  
\073\314\071\011\224\136\326\332\357\276\001\133\135\323\036\330  
\375\175\117\315\240\101\340\064\223\277\313\342\206\234\067\222  
\220\126\034\334\353\051\005\345\304\236\307\065\337\212\014\315  
\305\041\103\351\252\210\345\065\300\031\102\143\132\002\136\244  
\110\030\072\205\157\334\235\274\077\235\234\301\207\270\172\141  
\010\351\167\013\177\160\253\172\335\331\227\054\144\036\205\277  
\274\164\226\241\303\172\022\354\014\032\156\203\014\074\350\162  
\106\237\373\110\325\136\227\346\261\241\370\344\357\106\045\224  
\234\211\333\151\070\276\354\134\016\126\307\145\121\345\120\210  
\210\277\102\325\053\075\345\371\272\236\056\263\312\364\163\222  
\002\013\276\114\146\353\040\376\271\313\265\231\177\346\266\023  
\372\312\113\115\331\356\123\106\006\073\306\116\255\223\132\201  
\176\154\052\113\152\005\105\214\362\041\244\061\220\207\154\145  
\234\235\245\140\225\072\122\177\365\321\253\010\156\363\356\133  
\371\210\075\176\270\157\156\003\344\102

END

CKA\_NSS\_MOZILLA\_CA\_POLICY CK\_BBOOL CK\_TRUE

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

CKA\_NSS\_SERVER\_DISTRICT\_AFTER\_MULTILINE\_OCTAL

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

END

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

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER\_MULTILINE\_OCTAL

\062\062\060\070\063\061\060\060\060\060\060\060\132

END

# Trust for "EC-ACC"

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

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

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

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

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

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

# Fingerprint (SHA-256):

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

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

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "EC-ACC"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

\050\220\072\143\133\122\200\372\346\167\114\013\155\247\326\272  
\246\112\362\350

END

CKA\_CERT\_MD5\_HASH MULTILINE\_OCTAL

\353\365\235\051\015\141\371\102\037\174\302\272\155\343\025\011

END

CKA\_ISSUER MULTILINE\_OCTAL

\060\201\363\061\013\060\011\006\003\125\004\006\023\002\105\123  
\061\073\060\071\006\003\125\004\012\023\062\101\147\145\156\143  
\151\141\040\103\141\164\141\154\141\156\141\040\144\145\040\103  
\145\162\164\151\146\151\143\141\143\151\157\040\050\116\111\106  
\040\121\055\060\070\060\061\061\067\066\055\111\051\061\050\060  
\046\006\003\125\004\013\023\037\123\145\162\166\145\151\163\040  
\120\165\142\154\151\143\163\040\144\145\040\103\145\162\164\151  
\146\151\143\141\143\151\157\061\065\060\063\006\003\125\004\013  
\023\054\126\145\147\145\165\040\150\164\164\160\163\072\057\057  
\167\167\167\056\143\141\164\143\145\162\164\056\156\145\164\057  
\166\145\162\141\162\162\145\154\040\050\143\051\060\063\061\065  
\060\063\006\003\125\004\013\023\054\112\145\162\141\162\161\165  
\151\141\040\105\156\164\151\164\141\164\163\040\144\145\040\103  
\145\162\164\151\146\151\143\141\143\151\157\040\103\141\164\141  
\154\141\156\145\163\061\017\060\015\006\003\125\004\003\023\006

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\105\103\055\101\103\103
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\356\053\075\353\324\041\336\024\250\142\254\004\363\335
\304\001
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

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

```

\002\010\127\012\021\227\102\304\343\314

END

CKA\_VALUE MULTILINE\_OCTAL

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

\277\243\006\237\310\265\315\344\037\327\027\006\015\172\225\164  
\125\015\150\032\374\020\033\142\144\235\155\340\225\240\303\224  
\007\127\015\024\346\275\005\373\270\237\346\337\213\342\306\347  
\176\226\366\123\305\200\064\120\050\130\360\022\120\161\027\060  
\272\346\170\143\274\364\262\255\233\053\262\376\341\071\214\136  
\272\013\040\224\336\173\203\270\377\343\126\215\267\021\351\073  
\214\362\261\301\135\235\244\013\114\053\331\262\030\365\265\237  
\113\002\003\001\000\001\243\143\060\141\060\035\006\003\125\035  
\016\004\026\004\024\122\330\210\072\310\237\170\146\355\211\363  
\173\070\160\224\311\002\002\066\320\060\017\006\003\125\035\023  
\001\001\377\004\005\060\003\001\001\377\060\037\006\003\125\035  
\043\004\030\060\026\200\024\122\330\210\072\310\237\170\146\355  
\211\363\173\070\160\224\311\002\002\066\320\060\016\006\003\125  
\035\017\001\001\377\004\004\003\002\001\006\060\015\006\011\052  
\206\110\206\367\015\001\001\013\005\000\003\202\002\001\000\013  
\173\162\207\300\140\246\111\114\210\130\346\035\210\367\024\144  
\110\246\330\130\012\016\117\023\065\337\065\035\324\355\006\061  
\310\201\076\152\325\335\073\032\062\356\220\075\021\322\056\364  
\216\303\143\056\043\146\260\147\276\157\266\300\023\071\140\252  
\242\064\045\223\165\122\336\247\235\255\016\207\211\122\161\152  
\026\074\031\035\203\370\232\051\145\276\364\077\232\331\360\363  
\132\207\041\161\200\115\313\340\070\233\077\273\372\340\060\115  
\317\206\323\145\020\031\030\321\227\002\261\053\162\102\150\254  
\240\275\116\132\332\030\277\153\230\201\320\375\232\276\136\025  
\110\315\021\025\271\300\051\134\264\350\210\367\076\066\256\267  
\142\375\036\142\336\160\170\020\034\110\133\332\274\244\070\272  
\147\355\125\076\136\127\337\324\003\100\114\201\244\322\117\143  
\247\011\102\011\024\374\000\251\302\200\163\117\056\300\100\331  
\021\173\110\352\172\002\300\323\353\050\001\046\130\164\301\300  
\163\042\155\223\225\375\071\175\273\052\343\366\202\343\054\227  
\137\116\037\221\224\372\376\054\243\330\166\032\270\115\262\070  
\117\233\372\035\110\140\171\046\342\363\375\251\320\232\350\160  
\217\111\172\326\345\275\012\016\333\055\363\215\277\353\343\244  
\175\313\307\225\161\350\332\243\174\305\302\370\164\222\004\033  
\206\254\244\042\123\100\266\254\376\114\166\317\373\224\062\300  
\065\237\166\077\156\345\220\156\240\246\046\242\270\054\276\321  
\053\205\375\247\150\310\272\001\053\261\154\164\035\270\163\225  
\347\356\267\307\045\360\000\114\000\262\176\266\013\213\034\363  
\300\120\236\045\271\340\010\336\066\146\377\067\245\321\273\124  
\144\054\311\047\265\113\222\176\145\377\323\055\341\271\116\274  
\177\244\101\041\220\101\167\246\071\037\352\236\343\237\320\146  
\157\005\354\252\166\176\277\153\026\240\353\265\307\374\222\124  
\057\053\021\047\045\067\170\114\121\152\260\363\314\130\135\024  
\361\152\110\025\377\302\007\266\261\215\017\216\134\120\106\263  
\075\277\001\230\117\262\131\124\107\076\064\173\170\155\126\223  
\056\163\352\146\050\170\315\035\024\277\240\217\057\056\270\056  
\216\362\024\212\314\351\265\174\373\154\235\014\245\341\226

END

CKA\_NSS\_MOZILLA\_CA\_POLICY CK\_BBOOL CK\_TRUE  
CKA\_NSS\_SERVER\_DISTRUST\_AFTER CK\_BBOOL CK\_FALSE  
CKA\_NSS\_EMAIL\_DISTRUST\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "Actalis Authentication Root CA"

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

# Serial Number:57:0a:11:97:42:c4:e3:cc

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

# Not Valid Before: Thu Sep 22 11:22:02 2011

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

# Fingerprint (SHA-256):

55:92:60:84:EC:96:3A:64:B9:6E:2A:BE:01:CE:0B:A8:6A:64:FB:FE:BC:C7:AA:B5:AF:C1:55:B3:7F:D7:60:66

# Fingerprint (SHA1): F3:73:B3:87:06:5A:28:84:8A:F2:F3:4A:CE:19:2B:DD:C7:8E:9C:AC

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "Actalis Authentication Root CA"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

\363\163\263\207\006\132\050\204\212\362\363\112\316\031\053\335  
\307\216\234\254

END

CKA\_CERT\_MD5\_HASH MULTILINE\_OCTAL

\151\301\015\117\007\243\033\303\376\126\075\004\274\021\366\246

END

CKA\_ISSUER MULTILINE\_OCTAL

\060\153\061\013\060\011\006\003\125\004\006\023\002\111\124\061  
\016\060\014\006\003\125\004\007\014\005\115\151\154\141\156\061  
\043\060\041\006\003\125\004\012\014\032\101\143\164\141\154\151  
\163\040\123\056\160\056\101\056\057\060\063\063\065\070\065\062  
\060\071\066\067\061\047\060\045\006\003\125\004\003\014\036\101  
\143\164\141\154\151\163\040\101\165\164\150\145\156\164\151\143  
\141\164\151\157\156\040\122\157\157\164\040\103\101

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

\002\010\127\012\021\227\102\304\343\314

END

CKA\_TRUST\_SERVER\_AUTH CK\_TRUST CKT\_NSS\_TRUSTED\_DELEGATOR

CKA\_TRUST\_EMAIL\_PROTECTION CK\_TRUST CKT\_NSS\_TRUSTED\_DELEGATOR

CKA\_TRUST\_CODE\_SIGNING CK\_TRUST CKT\_NSS\_MUST\_VERIFY\_TRUST

CKA\_TRUST\_STEP\_UP\_APPROVED CK\_BBOOL CK\_FALSE

#

# Certificate "Buypass Class 2 Root CA"

#

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

# Serial Number: 2 (0x2)

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



```
Not Valid Before: Tue Oct 26 08:38:03 2010
Not Valid After : Fri Oct 26 08:38:03 2040
Fingerprint (SHA-256):
9A:11:40:25:19:7C:5B:B9:5D:94:E6:3D:55:CD:43:79:08:47:B6:46:B2:3C:DF:11:AD:A4:A0:0E:FF:15:FB:48
Fingerprint (SHA1): 49:0A:75:74:DE:87:0A:47:FE:58:EE:F6:C7:6B:EB:C6:0B:12:40:99
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Bypass Class 2 Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\116\061\013\060\011\006\003\125\004\006\023\002\116\117\061
\035\060\033\006\003\125\004\012\014\024\102\165\171\160\141\163
\163\040\101\123\055\071\070\063\061\066\063\063\062\067\061\040
\060\036\006\003\125\004\003\014\027\102\165\171\160\141\163\163
\040\103\154\141\163\163\040\062\040\122\157\157\164\040\103\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\116\061\013\060\011\006\003\125\004\006\023\002\116\117\061
\035\060\033\006\003\125\004\012\014\024\102\165\171\160\141\163
\163\040\101\123\055\071\070\063\061\066\063\063\062\067\061\040
\060\036\006\003\125\004\003\014\027\102\165\171\160\141\163\163
\040\103\154\141\163\163\040\062\040\122\157\157\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\002
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\131\060\202\003\101\240\003\002\001\002\002\001\002
\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060
\116\061\013\060\011\006\003\125\004\006\023\002\116\117\061\035
\060\033\006\003\125\004\012\014\024\102\165\171\160\141\163\163
\040\101\123\055\071\070\063\061\066\063\063\062\067\061\040\060
\036\006\003\125\004\003\014\027\102\165\171\160\141\163\163\040
\103\154\141\163\163\040\062\040\122\157\157\164\040\103\101\060
\036\027\015\061\060\061\060\062\066\060\070\063\070\060\063\132
\027\015\064\060\061\060\062\066\060\070\063\070\060\063\132\060
\116\061\013\060\011\006\003\125\004\006\023\002\116\117\061\035
\060\033\006\003\125\004\012\014\024\102\165\171\160\141\163\163
\040\101\123\055\071\070\063\061\066\063\063\062\067\061\040\060
\036\006\003\125\004\003\014\027\102\165\171\160\141\163\163\040
\103\154\141\163\163\040\062\040\122\157\157\164\040\103\101\060
\202\002\042\060\015\006\011\052\206\110\206\367\015\001\001\001
\005\000\003\202\002\017\000\060\202\002\012\002\202\002\001\000
\327\307\136\367\301\007\324\167\373\103\041\364\364\365\151\344
\356\062\001\333\243\206\037\344\131\015\272\347\165\203\122\353
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\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  
\062\120\020\116\177\364\206\223\354\204\323\216\274\113\277\134  
\001\116\007\075\334\024\212\224\012\244\352\163\373\013\121\350  
\023\007\030\372\016\361\053\321\124\025\175\074\341\367\264\031  
\102\147\142\136\167\340\242\125\354\266\331\151\027\325\072\257  
\104\355\112\305\236\344\172\047\174\345\165\327\252\313\045\347  
\337\153\012\333\017\115\223\116\250\240\315\173\056\362\131\001  
\152\267\015\270\007\201\176\213\070\033\070\346\012\127\231\075  
\356\041\350\243\365\014\026\335\213\354\064\216\234\052\034\000  
\025\027\215\150\203\322\160\237\030\010\315\021\150\325\311\153  
\122\315\304\106\217\334\265\363\330\127\163\036\351\224\071\004  
\277\323\336\070\336\264\123\354\151\034\242\176\304\217\344\033  
\160\255\362\242\371\373\367\026\144\146\151\237\111\121\242\342  
\025\030\147\006\112\177\325\154\265\115\263\063\340\141\353\135  
\276\351\230\017\062\327\035\113\074\056\132\001\122\221\011\362  
\337\352\215\330\006\100\143\252\021\344\376\303\067\236\024\122  
\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\060\003\001\001\377\060\035\006\003\125\035  
\016\004\026\004\024\311\200\167\340\142\222\202\365\106\234\363  
\272\367\114\303\336\270\243\255\071\060\016\006\003\125\035\017  
\001\001\377\004\004\003\002\001\006\060\015\006\011\052\206\110  
\206\367\015\001\001\013\005\000\003\202\002\001\000\123\137\041  
\365\272\260\072\122\071\054\222\260\154\000\311\357\316\040\357  
\006\362\226\236\351\244\164\177\172\026\374\267\365\266\373\025  
\033\077\253\246\300\162\135\020\261\161\356\274\117\343\255\254  
\003\155\056\161\056\257\304\343\255\243\275\014\021\247\264\377  
\112\262\173\020\020\037\247\127\101\262\300\256\364\054\131\326  
\107\020\210\363\041\121\051\060\312\140\206\257\106\253\035\355  
\072\133\260\224\336\104\343\101\010\242\301\354\035\326\375\117  
\266\326\107\320\024\013\312\346\312\265\173\167\176\101\037\136  
\203\307\266\214\071\226\260\077\226\201\101\157\140\220\342\350  
\371\373\042\161\331\175\263\075\106\277\264\204\257\220\034\017  
\217\022\152\257\357\356\036\172\256\002\112\212\027\053\166\376  
\254\124\211\044\054\117\077\266\262\247\116\214\250\221\227\373

```
\051\306\173\134\055\271\313\146\266\267\250\133\022\121\205\265
\011\176\142\170\160\376\251\152\140\266\035\016\171\014\375\312
\352\044\200\162\303\227\077\362\167\253\103\042\012\307\353\266
\014\204\202\054\200\153\101\212\010\300\353\245\153\337\231\022
\313\212\325\136\200\014\221\340\046\010\066\110\305\372\070\021
\065\377\045\203\055\362\172\277\332\375\216\376\245\313\105\054
\037\304\210\123\256\167\016\331\232\166\305\216\054\035\243\272
\325\354\062\256\300\252\254\367\321\172\115\353\324\007\342\110
\367\042\216\260\244\237\152\316\216\262\262\140\364\243\042\320
\043\353\224\132\172\151\335\017\277\100\127\254\153\131\120\331
\243\231\341\156\376\215\001\171\047\043\025\336\222\235\173\011
\115\132\347\113\110\060\132\030\346\012\155\346\217\340\322\273
\346\337\174\156\041\202\301\150\071\115\264\230\130\146\142\314
\112\220\136\303\372\047\004\261\171\025\164\231\314\276\255\040
\336\046\140\034\353\126\121\246\243\352\344\243\077\247\377\141
\334\361\132\115\154\062\043\103\356\254\250\356\356\112\022\011
\074\135\161\302\276\171\372\302\207\150\035\013\375\134\151\314
\006\320\232\175\124\231\052\311\071\032\031\257\113\052\103\363
\143\135\132\130\342\057\343\035\344\251\326\320\012\320\236\277
\327\201\011\361\311\307\046\015\254\230\026\126\240
```

END

```
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRICT_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRICT_AFTER CK_BBOOL CK_FALSE
```

```
Trust for "Buypass Class 2 Root CA"
```

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

```
Serial Number: 2 (0x2)
```

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

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

```
Not Valid After : Fri Oct 26 08:38:03 2040
```

```
Fingerprint (SHA-256):
```

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

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

```
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
```

```
CKA_TOKEN CK_BBOOL CK_TRUE
```

```
CKA_PRIVATE CK_BBOOL CK_FALSE
```

```
CKA_MODIFIABLE CK_BBOOL CK_FALSE
```

```
CKA_LABEL UTF8 "Buypass Class 2 Root CA"
```

```
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
```

```
\111\012\165\164\336\207\012\107\376\130\356\366\307\153\353\306
\013\022\100\231
```

END

```
CKA_CERT_MD5_HASH MULTILINE_OCTAL
```

```
\106\247\322\376\105\373\144\132\250\131\220\233\170\104\233\051
```

END

```
CKA_ISSUER MULTILINE_OCTAL
```

```
\060\116\061\013\060\011\006\003\125\004\006\023\002\116\117\061
```

```

\035\060\033\006\003\125\004\012\014\024\102\165\171\160\141\163
\163\040\101\123\055\071\070\063\061\066\063\063\062\067\061\040
\060\036\006\003\125\004\003\014\027\102\165\171\160\141\163\163
\040\103\154\141\163\163\040\062\040\122\157\157\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\002
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Buypass Class 3 Root CA"
#
Issuer: CN=Buypass Class 3 Root CA,O=Buypass AS-983163327,C=NO
Serial Number: 2 (0x2)
Subject: CN=Buypass Class 3 Root CA,O=Buypass AS-983163327,C=NO
Not Valid Before: Tue Oct 26 08:28:58 2010
Not Valid After : Fri Oct 26 08:28:58 2040
Fingerprint (SHA-256):
ED:F7:EB:BC:A2:7A:2A:38:4D:38:7B:7D:40:10:C6:66:E2:ED:B4:84:3E:4C:29:B4:AE:1D:5B:93:32:E6:B2:4D
Fingerprint (SHA1): DA:FA:F7:FA:66:84:EC:06:8F:14:50:BD:C7:C2:81:A5:BC:A9:64:57
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Buypass Class 3 Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\116\061\013\060\011\006\003\125\004\006\023\002\116\117\061
\035\060\033\006\003\125\004\012\014\024\102\165\171\160\141\163
\163\040\101\123\055\071\070\063\061\066\063\063\062\067\061\040
\060\036\006\003\125\004\003\014\027\102\165\171\160\141\163\163
\040\103\154\141\163\163\040\063\040\122\157\157\164\040\103\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\116\061\013\060\011\006\003\125\004\006\023\002\116\117\061
\035\060\033\006\003\125\004\012\014\024\102\165\171\160\141\163
\163\040\101\123\055\071\070\063\061\066\063\063\062\067\061\040
\060\036\006\003\125\004\003\014\027\102\165\171\160\141\163\163
\040\103\154\141\163\163\040\063\040\122\157\157\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\002
END

```

CKA\_VALUE MULTILINE\_OCTAL

\060\202\005\131\060\202\003\101\240\003\002\001\002\002\001\002  
\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060  
\116\061\013\060\011\006\003\125\004\006\023\002\116\117\061\035  
\060\033\006\003\125\004\012\014\024\102\165\171\160\141\163\163  
\040\101\123\055\071\070\063\061\066\063\063\062\067\061\040\060  
\036\006\003\125\004\003\014\027\102\165\171\160\141\163\163\040  
\103\154\141\163\163\040\063\040\122\157\157\164\040\103\101\060  
\036\027\015\061\060\061\060\062\066\060\070\062\070\065\070\132  
\027\015\064\060\061\060\062\066\060\070\062\070\065\070\132\060  
\116\061\013\060\011\006\003\125\004\006\023\002\116\117\061\035  
\060\033\006\003\125\004\012\014\024\102\165\171\160\141\163\163  
\040\101\123\055\071\070\063\061\066\063\063\062\067\061\040\060  
\036\006\003\125\004\003\014\027\102\165\171\160\141\163\163\040  
\103\154\141\163\163\040\063\040\122\157\157\164\040\103\101\060  
\202\002\042\060\015\006\011\052\206\110\206\367\015\001\001\001  
\005\000\003\202\002\017\000\060\202\002\012\002\202\002\001\000  
\245\332\012\225\026\120\343\225\362\136\235\166\061\006\062\172  
\233\361\020\166\270\000\232\265\122\066\315\044\107\260\237\030  
\144\274\232\366\372\325\171\330\220\142\114\042\057\336\070\075  
\326\340\250\351\034\054\333\170\021\351\216\150\121\025\162\307  
\363\063\207\344\240\135\013\134\340\127\007\052\060\365\315\304  
\067\167\050\115\030\221\346\277\325\122\375\161\055\160\076\347  
\306\304\212\343\360\050\013\364\166\230\241\213\207\125\262\072  
\023\374\267\076\047\067\216\042\343\250\117\052\357\140\273\075  
\267\071\303\016\001\107\231\135\022\117\333\103\372\127\241\355  
\371\235\276\021\107\046\133\023\230\253\135\026\212\260\067\034  
\127\235\105\377\210\226\066\277\273\312\007\173\157\207\143\327  
\320\062\152\326\135\154\014\361\263\156\071\342\153\061\056\071  
\000\047\024\336\070\300\354\031\146\206\022\350\235\162\026\023  
\144\122\307\251\067\034\375\202\060\355\204\030\035\364\256\134  
\377\160\023\000\353\261\365\063\172\113\326\125\370\005\215\113  
\151\260\365\263\050\066\134\024\304\121\163\115\153\013\361\064  
\007\333\027\071\327\334\050\173\153\365\237\363\056\301\117\027  
\052\020\363\314\312\350\353\375\153\253\056\232\237\055\202\156  
\004\324\122\001\223\055\075\206\374\176\374\337\357\102\035\246  
\153\357\271\040\306\367\275\240\247\225\375\247\346\211\044\330  
\314\214\064\154\342\043\057\331\022\032\041\271\125\221\157\013  
\221\171\031\014\255\100\210\013\160\342\172\322\016\330\150\110  
\273\202\023\071\020\130\351\330\052\007\306\022\333\130\333\322  
\073\125\020\107\005\025\147\142\176\030\143\246\106\077\011\016  
\124\062\136\277\015\142\172\047\357\200\350\333\331\113\006\132  
\067\132\045\320\010\022\167\324\157\011\120\227\075\310\035\303  
\337\214\105\060\126\306\323\144\253\146\363\300\136\226\234\303  
\304\357\303\174\153\213\072\171\177\263\111\317\075\342\211\237  
\240\060\113\205\271\234\224\044\171\217\175\153\251\105\150\017  
\053\320\361\332\034\313\151\270\312\111\142\155\310\320\143\142  
\335\140\017\130\252\217\241\274\005\245\146\242\317\033\166\262

\204\144\261\114\071\122\300\060\272\360\214\113\002\260\266\267  
\002\003\001\000\001\243\102\060\100\060\017\006\003\125\035\023  
\001\001\377\004\005\060\003\001\001\377\060\035\006\003\125\035  
\016\004\026\004\024\107\270\315\377\345\157\356\370\262\354\057  
\116\016\371\045\260\216\074\153\303\060\016\006\003\125\035\017  
\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  
\101\065\004\220\302\100\142\140\357\342\065\114\327\077\254\342  
\064\220\270\241\157\166\372\026\026\244\110\067\054\351\220\302  
\362\074\370\012\237\330\201\345\273\133\332\045\054\244\247\125  
\161\044\062\366\310\013\362\274\152\370\223\254\262\007\302\137  
\237\333\314\310\212\252\276\152\157\341\111\020\314\061\327\200  
\273\273\310\330\242\016\144\127\352\242\365\302\251\061\025\322  
\040\152\354\374\042\001\050\317\206\270\200\036\251\314\021\245  
\074\362\026\263\107\235\374\322\200\041\304\313\320\107\160\101  
\241\312\203\031\010\054\155\362\135\167\234\212\024\023\324\066  
\034\222\360\345\006\067\334\246\346\220\233\070\217\134\153\033  
\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  
\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  
\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  
\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\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE  
CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "Buypass Class 3 Root CA"  
# Issuer: CN=Buypass Class 3 Root CA,O=Buypass AS-983163327,C=NO  
# Serial Number: 2 (0x2)  
# Subject: CN=Buypass Class 3 Root CA,O=Buypass AS-983163327,C=NO

```

Not Valid Before: Tue Oct 26 08:28:58 2010
Not Valid After : Fri Oct 26 08:28:58 2040
Fingerprint (SHA-256):
ED:F7:EB:BC:A2:7A:2A:38:4D:38:7B:7D:40:10:C6:66:E2:ED:B4:84:3E:4C:29:B4:AE:1D:5B:93:32:E6:B2:4D
Fingerprint (SHA1): DA:FA:F7:FA:66:84:EC:06:8F:14:50:BD:C7:C2:81:A5:BC:A9:64:57
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Bypass Class 3 Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\332\372\367\372\146\204\354\006\217\024\120\275\307\302\201\245
\274\251\144\127
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\075\073\030\236\054\144\132\350\325\210\316\016\371\067\302\354
END
CKA_ISSUER MULTILINE_OCTAL
\060\116\061\013\060\011\006\003\125\004\006\023\002\116\117\061
\035\060\033\006\003\125\004\012\014\024\102\165\171\160\141\163
\163\040\101\123\055\071\070\063\061\066\063\063\062\067\061\040
\060\036\006\003\125\004\003\014\027\102\165\171\160\141\163\163
\040\103\154\141\163\163\040\063\040\122\157\157\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\002
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "T-TeleSec GlobalRoot Class 3"
#
Issuer: CN=T-TeleSec GlobalRoot Class 3,OU=T-Systems Trust Center,O=T-Systems Enterprise Services
GmbH,C=DE
Serial Number: 1 (0x1)
Subject: CN=T-TeleSec GlobalRoot Class 3,OU=T-Systems Trust Center,O=T-Systems Enterprise Services
GmbH,C=DE
Not Valid Before: Wed Oct 01 10:29:56 2008
Not Valid After : Sat Oct 01 23:59:59 2033
Fingerprint (SHA-256):
FD:73:DA:D3:1C:64:4F:F1:B4:3B:EF:0C:CD:DA:96:71:0B:9C:D9:87:5E:CA:7E:31:70:7A:F3:E9:6D:52:2B:BD
Fingerprint (SHA1): 55:A6:72:3E:CB:F2:EC:CD:C3:23:74:70:19:9D:2A:BE:11:E3:81:D1
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE

```

```
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "T-TeleSec GlobalRoot Class 3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\202\061\013\060\011\006\003\125\004\006\023\002\104\105
\061\053\060\051\006\003\125\004\012\014\042\124\055\123\171\163
\164\145\155\163\040\105\156\164\145\162\160\162\151\163\145\040
\123\145\162\166\151\143\145\163\040\107\155\142\110\061\037\060
\035\006\003\125\004\013\014\026\124\055\123\171\163\164\145\155
\163\040\124\162\165\163\164\040\103\145\156\164\145\162\061\045
\060\043\006\003\125\004\003\014\034\124\055\124\145\154\145\123
\145\143\040\107\154\157\142\141\154\122\157\157\164\040\103\154
\141\163\163\040\063
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\202\061\013\060\011\006\003\125\004\006\023\002\104\105
\061\053\060\051\006\003\125\004\012\014\042\124\055\123\171\163
\164\145\155\163\040\105\156\164\145\162\160\162\151\163\145\040
\123\145\162\166\151\143\145\163\040\107\155\142\110\061\037\060
\035\006\003\125\004\013\014\026\124\055\123\171\163\164\145\155
\163\040\124\162\165\163\164\040\103\145\156\164\145\162\061\045
\060\043\006\003\125\004\003\014\034\124\055\124\145\154\145\123
\145\143\040\107\154\157\142\141\154\122\157\157\164\040\103\154
\141\163\163\040\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\303\060\202\002\253\240\003\002\001\002\002\001\001
\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060
\201\202\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\053\060\051\006\003\125\004\012\014\042\124\055\123\171\163\164
\145\155\163\040\105\156\164\145\162\160\162\151\163\145\040\123
\145\162\166\151\143\145\163\040\107\155\142\110\061\037\060\035
\006\003\125\004\013\014\026\124\055\123\171\163\164\145\155\163
\040\124\162\165\163\164\040\103\145\156\164\145\162\061\045\060
\043\006\003\125\004\003\014\034\124\055\124\145\154\145\123\145
\143\040\107\154\157\142\141\154\122\157\157\164\040\103\154\141
\163\163\040\063\060\036\027\015\060\070\061\060\060\061\061\060
\062\071\065\066\132\027\015\063\063\061\060\060\061\062\063\065
\071\065\071\132\060\201\202\061\013\060\011\006\003\125\004\006
\023\002\104\105\061\053\060\051\006\003\125\004\012\014\042\124
\055\123\171\163\164\145\155\163\040\105\156\164\145\162\160\162
\151\163\145\040\123\145\162\166\151\143\145\163\040\107\155\142
\110\061\037\060\035\006\003\125\004\013\014\026\124\055\123\171
\163\164\145\155\163\040\124\162\165\163\164\040\103\145\156\164
```



\145\162\061\045\060\043\006\003\125\004\003\014\034\124\055\124  
\145\154\145\123\145\143\040\107\154\157\142\141\154\122\157\157  
\164\040\103\154\141\163\163\040\063\060\202\001\042\060\015\006  
\011\052\206\110\206\367\015\001\001\001\005\000\003\202\001\017  
\000\060\202\001\012\002\202\001\001\000\275\165\223\360\142\042  
\157\044\256\340\172\166\254\175\275\331\044\325\270\267\374\315  
\360\102\340\353\170\210\126\136\233\232\124\035\115\014\212\366  
\323\317\160\364\122\265\330\223\004\343\106\206\161\101\112\053  
\360\052\054\125\003\326\110\303\340\071\070\355\362\134\074\077  
\104\274\223\075\141\253\116\315\015\276\360\040\047\130\016\104  
\177\004\032\207\245\327\226\024\066\220\320\111\173\241\165\373  
\032\153\163\261\370\316\251\011\054\362\123\325\303\024\104\270  
\206\245\366\213\053\071\332\243\063\124\331\372\162\032\367\042  
\025\034\210\221\153\177\146\345\303\152\200\260\044\363\337\206  
\105\210\375\031\177\165\207\037\037\261\033\012\163\044\133\271  
\145\340\054\124\310\140\323\146\027\077\341\314\124\063\163\221  
\002\072\246\177\173\166\071\242\037\226\266\070\256\265\310\223  
\164\035\236\271\264\345\140\235\057\126\321\340\353\136\133\114  
\022\160\014\154\104\040\253\021\330\364\031\366\322\234\122\067  
\347\372\266\302\061\073\112\324\024\231\255\307\032\365\135\137  
\372\007\270\174\015\037\326\203\036\263\002\003\001\000\001\243  
\102\060\100\060\017\006\003\125\035\023\001\001\377\004\005\060  
\003\001\001\377\060\016\006\003\125\035\017\001\001\377\004\004  
\003\002\001\006\060\035\006\003\125\035\016\004\026\004\024\265  
\003\367\166\073\141\202\152\022\252\030\123\353\003\041\224\277  
\376\316\312\060\015\006\011\052\206\110\206\367\015\001\001\013  
\005\000\003\202\001\001\000\126\075\357\224\325\275\332\163\262  
\130\276\256\220\255\230\047\227\376\001\261\260\122\000\270\115  
\344\033\041\164\033\176\300\356\136\151\052\045\257\134\326\035  
\332\322\171\311\363\227\051\340\206\207\336\004\131\017\361\131  
\324\144\205\113\231\257\045\004\036\311\106\251\227\336\202\262  
\033\160\237\234\366\257\161\061\335\173\005\245\054\323\271\312  
\107\366\312\362\366\347\255\271\110\077\274\026\267\301\155\364  
\352\011\257\354\363\265\347\005\236\246\036\212\123\121\326\223  
\201\314\164\223\366\271\332\246\045\005\164\171\132\176\100\076  
\202\113\046\021\060\156\341\077\101\307\107\000\065\325\365\323  
\367\124\076\201\075\332\111\152\232\263\357\020\075\346\353\157  
\321\310\042\107\313\314\317\001\061\222\331\030\343\042\276\011  
\036\032\076\132\262\344\153\014\124\172\175\103\116\270\211\245  
\173\327\242\075\226\206\314\362\046\064\055\152\222\235\232\032  
\320\060\342\135\116\004\260\137\213\040\176\167\301\075\225\202  
\321\106\232\073\074\170\270\157\241\320\015\144\242\170\036\051  
\116\223\303\244\124\024\133

END

CKA\_NSS\_MOZILLA\_CA\_POLICY CK\_BBOOL CK\_TRUE  
CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE  
CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

```

Trust for "T-TeleSec GlobalRoot Class 3"
Issuer: CN=T-TeleSec GlobalRoot Class 3,OU=T-Systems Trust Center,O=T-Systems Enterprise Services
GmbH,C=DE
Serial Number: 1 (0x1)
Subject: CN=T-TeleSec GlobalRoot Class 3,OU=T-Systems Trust Center,O=T-Systems Enterprise Services
GmbH,C=DE
Not Valid Before: Wed Oct 01 10:29:56 2008
Not Valid After : Sat Oct 01 23:59:59 2033
Fingerprint (SHA-256):
FD:73:DA:D3:1C:64:4F:F1:B4:3B:EF:0C:CD:DA:96:71:0B:9C:D9:87:5E:CA:7E:31:70:7A:F3:E9:6D:52:2B:BD
Fingerprint (SHA1): 55:A6:72:3E:CB:F2:EC:CD:C3:23:74:70:19:9D:2A:BE:11:E3:81:D1
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "T-TeleSec GlobalRoot Class 3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\125\246\162\076\313\362\354\315\303\043\164\160\031\235\052\276
\021\343\201\321
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\312\373\100\250\116\071\222\212\035\376\216\057\304\047\352\357
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\202\061\013\060\011\006\003\125\004\006\023\002\104\105
\061\053\060\051\006\003\125\004\012\014\042\124\055\123\171\163
\164\145\155\163\040\105\156\164\145\162\160\162\151\163\145\040
\123\145\162\166\151\143\145\163\040\107\155\142\110\061\037\060
\035\006\003\125\004\013\014\026\124\055\123\171\163\164\145\155
\163\040\124\162\165\163\164\040\103\145\156\164\145\162\061\045
\060\043\006\003\125\004\003\014\034\124\055\124\145\154\145\123
\145\143\040\107\154\157\142\141\154\122\157\157\164\040\103\154
\141\163\163\040\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "D-TRUST Root Class 3 CA 2 2009"
#
Issuer: CN=D-TRUST Root Class 3 CA 2 2009,O=D-Trust GmbH,C=DE
Serial Number: 623603 (0x983f3)
Subject: CN=D-TRUST Root Class 3 CA 2 2009,O=D-Trust GmbH,C=DE

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Not Valid Before: Thu Nov 05 08:35:58 2009
Not Valid After : Mon Nov 05 08:35:58 2029
Fingerprint (SHA-256):
49:E7:A4:42:AC:F0:EA:62:87:05:00:54:B5:25:64:B6:50:E4:F4:9E:42:E3:48:D6:AA:38:E0:39:E9:57:B1:C1
Fingerprint (SHA1): 58:E8:AB:B0:36:15:33:FB:80:F7:9B:1B:6D:29:D3:FF:8D:5F:00:F0
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "D-TRUST Root Class 3 CA 2 2009"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\115\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\025\060\023\006\003\125\004\012\014\014\104\055\124\162\165\163
\164\040\107\155\142\110\061\047\060\045\006\003\125\004\003\014
\036\104\055\124\122\125\123\124\040\122\157\157\164\040\103\154
\141\163\163\040\063\040\103\101\040\062\040\062\060\060\071
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\115\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\025\060\023\006\003\125\004\012\014\014\104\055\124\162\165\163
\164\040\107\155\142\110\061\047\060\045\006\003\125\004\003\014
\036\104\055\124\122\125\123\124\040\122\157\157\164\040\103\154
\141\163\163\040\063\040\103\101\040\062\040\062\060\060\071
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\003\011\203\363
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\063\060\202\003\033\240\003\002\001\002\002\003\011
\203\363\060\015\006\011\052\206\110\206\367\015\001\001\013\005
\000\060\115\061\013\060\011\006\003\125\004\006\023\002\104\105
\061\025\060\023\006\003\125\004\012\014\014\104\055\124\162\165
\163\164\040\107\155\142\110\061\047\060\045\006\003\125\004\003
\014\036\104\055\124\122\125\123\124\040\122\157\157\164\040\103
\154\141\163\163\040\063\040\103\101\040\062\040\062\060\060\071
\060\036\027\015\060\071\061\061\060\065\060\070\063\065\065\070
\132\027\015\062\071\061\061\060\065\060\070\063\065\065\070\132
\060\115\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\025\060\023\006\003\125\004\012\014\014\104\055\124\162\165\163
\164\040\107\155\142\110\061\047\060\045\006\003\125\004\003\014
\036\104\055\124\122\125\123\124\040\122\157\157\164\040\103\154
\141\163\163\040\063\040\103\101\040\062\040\062\060\060\071\060
\202\001\042\060\015\006\011\052\206\110\206\367\015\001\001\001
\005\000\003\202\001\017\000\060\202\001\012\002\202\001\001\000
\323\262\112\317\172\107\357\165\233\043\372\072\057\326\120\105
\211\065\072\306\153\333\376\333\000\150\250\340\003\021\035\067
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\120\010\237\115\112\150\224\065\263\123\321\224\143\247\040\126  
\257\336\121\170\354\052\075\363\110\110\120\076\012\337\106\125  
\213\047\155\303\020\115\015\221\122\103\330\207\340\135\116\066  
\265\041\312\137\071\100\004\137\133\176\314\243\306\053\251\100  
\036\331\066\204\326\110\363\222\036\064\106\040\044\301\244\121  
\216\112\032\357\120\077\151\135\031\177\105\303\307\001\217\121  
\311\043\350\162\256\264\274\126\011\177\022\313\034\261\257\051  
\220\012\311\125\314\017\323\264\032\355\107\065\132\112\355\234  
\163\004\041\320\252\275\014\023\265\000\312\046\154\304\153\014  
\224\132\225\224\332\120\232\361\377\245\053\146\061\244\311\070  
\240\337\035\037\270\011\056\363\247\350\147\122\253\225\037\340  
\106\076\330\244\303\312\132\305\061\200\350\110\232\237\224\151  
\376\031\335\330\163\174\201\312\226\336\216\355\263\062\005\145  
\204\064\346\346\375\127\020\265\137\166\277\057\260\020\015\305  
\002\003\001\000\001\243\202\001\032\060\202\001\026\060\017\006  
\003\125\035\023\001\001\377\004\005\060\003\001\001\377\060\035  
\006\003\125\035\016\004\026\004\024\375\332\024\304\237\060\336  
\041\275\036\102\071\374\253\143\043\111\340\361\204\060\016\006  
\003\125\035\017\001\001\377\004\004\003\002\001\006\060\201\323  
\006\003\125\035\037\004\201\313\060\201\310\060\201\200\240\176  
\240\174\206\172\154\144\141\160\072\057\057\144\151\162\145\143  
\164\157\162\171\056\144\055\164\162\165\163\164\056\156\145\164  
\057\103\116\075\104\055\124\122\125\123\124\045\062\060\122\157  
\157\164\045\062\060\103\154\141\163\163\045\062\060\063\045\062  
\060\103\101\045\062\060\062\045\062\060\062\060\060\071\054\117  
\075\104\055\124\162\165\163\164\045\062\060\107\155\142\110\054  
\103\075\104\105\077\143\145\162\164\151\146\151\143\141\164\145  
\162\145\166\157\143\141\164\151\157\156\154\151\163\164\060\103  
\240\101\240\077\206\075\150\164\164\160\072\057\057\167\167\167  
\056\144\055\164\162\165\163\164\056\156\145\164\057\143\162\154  
\057\144\055\164\162\165\163\164\137\162\157\157\164\137\143\154  
\141\163\163\137\063\137\143\141\137\062\137\062\060\060\071\056  
\143\162\154\060\015\006\011\052\206\110\206\367\015\001\001\013  
\005\000\003\202\001\001\000\177\227\333\060\310\337\244\234\175  
\041\172\200\160\316\024\022\151\210\024\225\140\104\001\254\262  
\351\060\117\233\120\302\146\330\176\215\060\265\160\061\351\342  
\151\307\363\160\333\040\025\206\320\015\360\276\254\001\165\204  
\316\176\237\115\277\267\140\073\234\363\312\035\342\136\150\330  
\243\235\227\345\100\140\322\066\041\376\320\264\270\027\332\164  
\243\177\324\337\260\230\002\254\157\153\153\054\045\044\162\241  
\145\356\045\132\345\346\062\347\362\337\253\111\372\363\220\151  
\043\333\004\331\347\134\130\374\145\324\227\276\314\374\056\012  
\314\045\052\065\004\370\140\221\025\165\075\101\377\043\037\031  
\310\154\353\202\123\004\246\344\114\042\115\215\214\272\316\133  
\163\354\144\124\120\155\321\234\125\373\151\303\066\303\214\274  
\074\205\246\153\012\046\015\340\223\230\140\256\176\306\044\227  
\212\141\137\221\216\146\222\011\207\066\315\213\233\055\076\366  
\121\324\120\324\131\050\275\203\362\314\050\173\123\206\155\330

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\046\210\160\327\352\221\315\076\271\312\300\220\156\132\306\136
\164\145\327\134\376\243\342
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRICT_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRICT_AFTER CK_BBOOL CK_FALSE

Trust for "D-TRUST Root Class 3 CA 2 2009"
Issuer: CN=D-TRUST Root Class 3 CA 2 2009,O=D-Trust GmbH,C=DE
Serial Number: 623603 (0x983f3)
Subject: CN=D-TRUST Root Class 3 CA 2 2009,O=D-Trust GmbH,C=DE
Not Valid Before: Thu Nov 05 08:35:58 2009
Not Valid After : Mon Nov 05 08:35:58 2029
Fingerprint (SHA-256):
49:E7:A4:42:AC:F0:EA:62:87:05:00:54:B5:25:64:B6:50:E4:F4:9E:42:E3:48:D6:AA:38:E0:39:E9:57:B1:C1
Fingerprint (SHA1): 58:E8:AB:B0:36:15:33:FB:80:F7:9B:1B:6D:29:D3:FF:8D:5F:00:F0
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "D-TRUST Root Class 3 CA 2 2009"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\130\350\253\260\066\025\063\373\200\367\233\033\155\051\323\377
\215\137\000\360
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\315\340\045\151\215\107\254\234\211\065\220\367\375\121\075\057
END
CKA_ISSUER MULTILINE_OCTAL
\060\115\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\025\060\023\006\003\125\004\012\014\014\104\055\124\162\165\163
\164\040\107\155\142\110\061\047\060\045\006\003\125\004\003\014
\036\104\055\124\122\125\123\124\040\122\157\157\164\040\103\154
\141\163\163\040\063\040\103\101\040\062\040\062\060\060\071
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\003\011\203\363
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "D-TRUST Root Class 3 CA 2 EV 2009"
#
Issuer: CN=D-TRUST Root Class 3 CA 2 EV 2009,O=D-Trust GmbH,C=DE
Serial Number: 623604 (0x983f4)

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Subject: CN=D-TRUST Root Class 3 CA 2 EV 2009,O=D-Trust GmbH,C=DE
Not Valid Before: Thu Nov 05 08:50:46 2009
Not Valid After : Mon Nov 05 08:50:46 2029
Fingerprint (SHA-256):
EE:C5:49:6B:98:8C:E9:86:25:B9:34:09:2E:EC:29:08:BE:D0:B0:F3:16:C2:D4:73:0C:84:EA:F1:F3:D3:48:81
Fingerprint (SHA1): 96:C9:1B:0B:95:B4:10:98:42:FA:D0:D8:22:79:FE:60:FA:B9:16:83
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "D-TRUST Root Class 3 CA 2 EV 2009"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\120\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\025\060\023\006\003\125\004\012\014\014\104\055\124\162\165\163
\164\040\107\155\142\110\061\052\060\050\006\003\125\004\003\014
\041\104\055\124\122\125\123\124\040\122\157\157\164\040\103\154
\141\163\163\040\063\040\103\101\040\062\040\105\126\040\062\060
\060\071
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\120\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\025\060\023\006\003\125\004\012\014\014\104\055\124\162\165\163
\164\040\107\155\142\110\061\052\060\050\006\003\125\004\003\014
\041\104\055\124\122\125\123\124\040\122\157\157\164\040\103\154
\141\163\163\040\063\040\103\101\040\062\040\105\126\040\062\060
\060\071
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\003\011\203\364
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\103\060\202\003\053\240\003\002\001\002\002\003\011
\203\364\060\015\006\011\052\206\110\206\367\015\001\001\013\005
\000\060\120\061\013\060\011\006\003\125\004\006\023\002\104\105
\061\025\060\023\006\003\125\004\012\014\014\104\055\124\162\165
\163\164\040\107\155\142\110\061\052\060\050\006\003\125\004\003
\014\041\104\055\124\122\125\123\124\040\122\157\157\164\040\103
\154\141\163\163\040\063\040\103\101\040\062\040\105\126\040\062
\060\060\071\060\036\027\015\060\071\061\061\060\065\060\070\065
\060\064\066\132\027\015\062\071\061\061\060\065\060\070\065\060
\064\066\132\060\120\061\013\060\011\006\003\125\004\006\023\002
\104\105\061\025\060\023\006\003\125\004\012\014\014\104\055\124
\162\165\163\164\040\107\155\142\110\061\052\060\050\006\003\125
\004\003\014\041\104\055\124\122\125\123\124\040\122\157\157\164
\040\103\154\141\163\163\040\063\040\103\101\040\062\040\105\126
\040\062\060\060\071\060\202\001\042\060\015\006\011\052\206\110
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\206\367\015\001\001\001\005\000\003\202\001\017\000\060\202\001  
\012\002\202\001\001\000\231\361\204\064\160\272\057\267\060\240  
\216\275\174\004\317\276\142\274\231\375\202\227\322\172\012\147  
\226\070\011\366\020\116\225\042\163\231\215\332\025\055\347\005  
\374\031\163\042\267\216\230\000\274\074\075\254\241\154\373\326  
\171\045\113\255\360\314\144\332\210\076\051\270\017\011\323\064  
\335\063\365\142\321\341\315\031\351\356\030\117\114\130\256\342  
\036\326\014\133\025\132\330\072\270\304\030\144\036\343\063\262  
\265\211\167\116\014\277\331\224\153\023\227\157\022\243\376\231  
\251\004\314\025\354\140\150\066\355\010\173\267\365\277\223\355  
\146\061\203\214\306\161\064\207\116\027\352\257\213\221\215\034  
\126\101\256\042\067\136\067\362\035\331\321\055\015\057\151\121  
\247\276\146\246\212\072\052\275\307\032\261\341\024\360\276\072  
\035\271\317\133\261\152\376\264\261\106\040\242\373\036\073\160  
\357\223\230\175\214\163\226\362\305\357\205\160\255\051\046\374  
\036\004\076\034\240\330\017\313\122\203\142\174\356\213\123\225  
\220\251\127\242\352\141\005\330\371\115\304\047\372\156\255\355  
\371\327\121\367\153\245\002\003\001\000\001\243\202\001\044\060  
\202\001\040\060\017\006\003\125\035\023\001\001\377\004\005\060  
\003\001\001\377\060\035\006\003\125\035\016\004\026\004\024\323  
\224\212\114\142\023\052\031\056\314\257\162\212\175\066\327\232  
\034\334\147\060\016\006\003\125\035\017\001\001\377\004\004\003  
\002\001\006\060\201\335\006\003\125\035\037\004\201\325\060\201  
\322\060\201\207\240\201\204\240\201\201\206\177\154\144\141\160  
\072\057\057\144\151\162\145\143\164\157\162\171\056\144\055\164  
\162\165\163\164\056\156\145\164\057\103\116\075\104\055\124\122  
\125\123\124\045\062\060\122\157\157\164\045\062\060\103\154\141  
\163\163\045\062\060\063\045\062\060\103\101\045\062\060\062\045  
\062\060\105\126\045\062\060\062\060\060\071\054\117\075\104\055  
\124\162\165\163\164\045\062\060\107\155\142\110\054\103\075\104  
\105\077\143\145\162\164\151\146\151\143\141\164\145\162\145\166  
\157\143\141\164\151\157\156\154\151\163\164\060\106\240\104\240  
\102\206\100\150\164\164\160\072\057\057\167\167\167\056\144\055  
\164\162\165\163\164\056\156\145\164\057\143\162\154\057\144\055  
\164\162\165\163\164\137\162\157\157\164\137\143\154\141\163\163  
\137\063\137\143\141\137\062\137\145\166\137\062\060\060\071\056  
\143\162\154\060\015\006\011\052\206\110\206\367\015\001\001\013  
\005\000\003\202\001\001\000\064\355\173\132\074\244\224\210\357  
\032\021\165\007\057\263\376\074\372\036\121\046\353\207\366\051  
\336\340\361\324\306\044\011\351\301\317\125\033\264\060\331\316  
\032\376\006\121\246\025\244\055\357\262\113\277\040\050\045\111  
\321\246\066\167\064\350\144\337\122\261\021\307\163\172\315\071  
\236\302\255\214\161\041\362\132\153\257\337\074\116\125\257\262  
\204\145\024\211\271\167\313\052\061\276\317\243\155\317\157\110  
\224\062\106\157\347\161\214\240\246\204\031\067\007\362\003\105  
\011\053\206\165\174\337\137\151\127\000\333\156\330\246\162\042  
\113\120\324\165\230\126\337\267\030\377\103\103\120\256\172\104  
\173\360\171\121\327\103\075\247\323\201\323\360\311\117\271\332

```
\306\227\206\320\202\303\344\102\155\376\260\342\144\116\016\046
\347\100\064\046\265\010\211\327\010\143\143\070\047\165\036\063
\352\156\250\335\237\231\117\164\115\201\211\200\113\335\232\227
\051\134\057\276\201\101\271\214\377\352\175\140\006\236\315\327
\075\323\056\243\025\274\250\346\046\345\157\303\334\270\003\041
\352\237\026\361\054\124\265
```

END

```
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRICT_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRICT_AFTER CK_BBOOL CK_FALSE
```

```
Trust for "D-TRUST Root Class 3 CA 2 EV 2009"
```

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

```
Serial Number: 623604 (0x983f4)
```

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

```
Not Valid Before: Thu Nov 05 08:50:46 2009
```

```
Not Valid After : Mon Nov 05 08:50:46 2029
```

```
Fingerprint (SHA-256):
```

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

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

```
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
```

```
CKA_TOKEN CK_BBOOL CK_TRUE
```

```
CKA_PRIVATE CK_BBOOL CK_FALSE
```

```
CKA_MODIFIABLE CK_BBOOL CK_FALSE
```

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

```
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
```

```
\226\311\033\013\225\264\020\230\102\372\320\330\042\171\376\140
\372\271\026\203
```

END

```
CKA_CERT_MD5_HASH MULTILINE_OCTAL
```

```
\252\306\103\054\136\055\315\304\064\300\120\117\021\002\117\266
```

END

```
CKA_ISSUER MULTILINE_OCTAL
```

```
\060\120\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\025\060\023\006\003\125\004\012\014\014\104\055\124\162\165\163
\164\040\107\155\142\110\061\052\060\050\006\003\125\004\003\014
\041\104\055\124\122\125\123\124\040\122\157\157\164\040\103\154
\141\163\163\040\063\040\103\101\040\062\040\105\126\040\062\060
\060\071
```

END

```
CKA_SERIAL_NUMBER MULTILINE_OCTAL
```

```
\002\003\011\203\364
```

END

```
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
```

```
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
```

```
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
```

```
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
```



```

#
Certificate "CA Disig Root R2"
#
Issuer: CN=CA Disig Root R2,O=Disig a.s.,L=Bratislava,C=SK
Serial Number:00:92:b8:88:db:b0:8a:c1:63
Subject: CN=CA Disig Root R2,O=Disig a.s.,L=Bratislava,C=SK
Not Valid Before: Thu Jul 19 09:15:30 2012
Not Valid After : Sat Jul 19 09:15:30 2042
Fingerprint (SHA-256):
E2:3D:4A:03:6D:7B:70:E9:F5:95:B1:42:20:79:D2:B9:1E:DF:BB:1F:B6:51:A0:63:3E:AA:8A:9D:C5:F8:07:03
Fingerprint (SHA1): B5:61:EB:EA:A4:DE:E4:25:4B:69:1A:98:A5:57:47:C2:34:C7:D9:71
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "CA Disig Root R2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\122\061\013\060\011\006\003\125\004\006\023\002\123\113\061
\023\060\021\006\003\125\004\007\023\012\102\162\141\164\151\163
\154\141\166\141\061\023\060\021\006\003\125\004\012\023\012\104
\151\163\151\147\040\141\056\163\056\061\031\060\027\006\003\125
\004\003\023\020\103\101\040\104\151\163\151\147\040\122\157\157
\164\040\122\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\122\061\013\060\011\006\003\125\004\006\023\002\123\113\061
\023\060\021\006\003\125\004\007\023\012\102\162\141\164\151\163
\154\141\166\141\061\023\060\021\006\003\125\004\012\023\012\104
\151\163\151\147\040\141\056\163\056\061\031\060\027\006\003\125
\004\003\023\020\103\101\040\104\151\163\151\147\040\122\157\157
\164\040\122\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\011\000\222\270\210\333\260\212\301\143
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\151\060\202\003\121\240\003\002\001\002\002\011\000
\222\270\210\333\260\212\301\143\060\015\006\011\052\206\110\206
\367\015\001\001\013\005\000\060\122\061\013\060\011\006\003\125
\004\006\023\002\123\113\061\023\060\021\006\003\125\004\007\023
\012\102\162\141\164\151\163\154\141\166\141\061\023\060\021\006
\003\125\004\012\023\012\104\151\163\151\147\040\141\056\163\056
\061\031\060\027\006\003\125\004\003\023\020\103\101\040\104\151
\163\151\147\040\122\157\157\164\040\122\062\060\036\027\015\061
\062\060\067\061\071\060\071\061\065\063\060\132\027\015\064\062
\060\067\061\071\060\071\061\065\063\060\132\060\122\061\013\060

```

\011\006\003\125\004\006\023\002\123\113\061\023\060\021\006\003  
\125\004\007\023\012\102\162\141\164\151\163\154\141\166\141\061  
\023\060\021\006\003\125\004\012\023\012\104\151\163\151\147\040  
\141\056\163\056\061\031\060\027\006\003\125\004\003\023\020\103  
\101\040\104\151\163\151\147\040\122\157\157\164\040\122\062\060  
\202\002\042\060\015\006\011\052\206\110\206\367\015\001\001\001  
\005\000\003\202\002\017\000\060\202\002\012\002\202\002\001\000  
\242\243\304\000\011\326\205\135\055\155\024\366\302\303\163\236  
\065\302\161\125\176\201\373\253\106\120\340\301\174\111\170\346  
\253\171\130\074\332\377\174\034\237\330\227\002\170\076\153\101  
\004\351\101\275\276\003\054\105\366\057\144\324\253\135\243\107  
\075\144\233\351\150\232\306\314\033\077\272\276\262\213\064\002  
\056\230\125\031\374\214\157\252\137\332\114\316\115\003\041\243  
\330\322\064\223\126\226\313\114\014\000\026\074\137\032\315\310  
\307\154\246\255\323\061\247\274\350\345\341\146\326\322\373\003  
\264\101\145\311\020\256\016\005\143\306\200\152\151\060\375\322  
\356\220\357\015\047\337\237\225\163\364\341\045\332\154\026\336  
\101\070\064\352\213\374\321\350\004\024\141\055\101\176\254\307  
\167\116\313\121\124\373\136\222\030\033\004\132\150\306\311\304  
\372\267\023\240\230\267\021\053\267\326\127\314\174\236\027\321  
\313\045\376\206\116\044\056\126\014\170\115\236\001\022\246\053  
\247\001\145\156\174\142\035\204\204\337\352\300\153\265\245\052  
\225\203\303\123\021\014\163\035\013\262\106\220\321\102\072\316  
\100\156\225\255\377\306\224\255\156\227\204\216\175\157\236\212  
\200\015\111\155\163\342\173\222\036\303\363\301\363\353\056\005  
\157\331\033\317\067\166\004\310\264\132\344\027\247\313\335\166  
\037\320\031\166\350\054\005\263\326\234\064\330\226\334\141\207  
\221\005\344\104\010\063\301\332\271\010\145\324\256\262\066\015  
\353\272\070\272\014\345\233\236\353\215\146\335\231\317\326\211  
\101\366\004\222\212\051\051\155\153\072\034\347\165\175\002\161  
\016\363\300\347\275\313\031\335\235\140\262\302\146\140\266\261  
\004\356\311\346\206\271\232\146\100\250\347\021\355\201\105\003  
\213\366\147\131\350\301\006\021\275\335\317\200\002\117\145\100  
\170\134\107\120\310\233\346\037\201\173\344\104\250\133\205\232  
\342\336\132\325\307\371\072\104\146\113\344\062\124\174\344\154  
\234\263\016\075\027\242\262\064\022\326\176\262\250\111\273\321  
\172\050\100\276\242\026\037\337\344\067\037\021\163\373\220\012  
\145\103\242\015\174\370\006\001\125\063\175\260\015\270\364\365  
\256\245\102\127\174\066\021\214\173\136\304\003\235\214\171\235  
\002\003\001\000\001\243\102\060\100\060\017\006\003\125\035\023  
\001\001\377\004\005\060\003\001\001\377\060\016\006\003\125\035  
\017\001\001\377\004\004\003\002\001\006\060\035\006\003\125\035  
\016\004\026\004\024\265\231\370\257\260\224\365\343\040\326\012  
\255\316\116\126\244\056\156\102\355\060\015\006\011\052\206\110  
\206\367\015\001\001\013\005\000\003\202\002\001\000\046\006\136  
\160\347\145\063\310\202\156\331\234\027\072\033\172\146\262\001  
\366\170\073\151\136\057\352\377\116\371\050\303\230\052\141\114  
\264\044\022\212\175\155\021\024\367\234\265\312\346\274\236\047

\216\114\031\310\251\275\172\300\327\066\016\155\205\162\156\250  
\306\242\155\366\372\163\143\177\274\156\171\010\034\235\212\237  
\032\212\123\246\330\273\331\065\125\261\021\305\251\003\263\126  
\073\271\204\223\042\136\176\301\366\022\122\213\352\054\147\274  
\376\066\114\365\270\317\321\263\111\222\073\323\051\016\231\033  
\226\367\141\270\073\304\053\266\170\154\264\043\157\360\375\323  
\262\136\165\037\231\225\250\254\366\332\341\305\061\173\373\321  
\106\263\322\274\147\264\142\124\272\011\367\143\260\223\242\232  
\371\351\122\056\213\140\022\253\374\365\140\126\357\020\134\213  
\304\032\102\334\203\133\144\016\313\265\274\326\117\301\174\074  
\156\215\023\155\373\173\353\060\320\334\115\257\305\325\266\245  
\114\133\161\311\350\061\276\350\070\006\110\241\032\342\352\322  
\336\022\071\130\032\377\200\016\202\165\346\267\311\007\154\016  
\357\377\070\361\230\161\304\267\177\016\025\320\045\151\275\042  
\235\053\355\005\366\106\107\254\355\300\360\324\073\342\354\356  
\226\133\220\023\116\036\126\072\353\260\357\226\273\226\043\021  
\272\362\103\206\164\144\225\310\050\165\337\035\065\272\322\067  
\203\070\123\070\066\073\317\154\351\371\153\016\320\373\004\350  
\117\167\327\145\001\170\206\014\172\076\041\142\361\177\143\161  
\014\311\237\104\333\250\047\242\165\276\156\201\076\327\300\353  
\033\230\017\160\134\064\262\212\314\300\205\030\353\156\172\263  
\367\132\241\007\277\251\102\222\363\140\042\227\344\024\241\007  
\233\116\166\300\216\175\375\244\045\307\107\355\377\037\163\254  
\314\303\245\351\157\012\216\233\145\302\120\205\265\243\240\123  
\022\314\125\207\141\363\201\256\020\106\141\275\104\041\270\302  
\075\164\317\176\044\065\372\034\007\016\233\075\042\312\357\061  
\057\214\254\022\275\357\100\050\374\051\147\237\262\023\117\146  
\044\304\123\031\351\036\051\025\357\346\155\260\177\055\147\375  
\363\154\033\165\106\243\345\112\027\351\244\327\013

END

CKA\_NSS\_MOZILLA\_CA\_POLICY CK\_BBOOL CK\_TRUE  
CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE  
CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "CA Disig Root R2"

# Issuer: CN=CA Disig Root R2,O=Disig a.s.,L=Bratislava,C=SK

# Serial Number:00:92:b8:88:db:b0:8a:c1:63

# Subject: CN=CA Disig Root R2,O=Disig a.s.,L=Bratislava,C=SK

# Not Valid Before: Thu Jul 19 09:15:30 2012

# Not Valid After : Sat Jul 19 09:15:30 2042

# Fingerprint (SHA-256):

E2:3D:4A:03:6D:7B:70:E9:F5:95:B1:42:20:79:D2:B9:1E:DF:BB:1F:B6:51:A0:63:3E:AA:8A:9D:C5:F8:07:03

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

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "CA Disig Root R2"

```

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\265\141\353\352\244\336\344\045\113\151\032\230\245\127\107\302
\064\307\331\161
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\046\001\373\330\047\247\027\232\105\124\070\032\103\001\073\003
END
CKA_ISSUER MULTILINE_OCTAL
\060\122\061\013\060\011\006\003\125\004\006\023\002\123\113\061
\023\060\021\006\003\125\004\007\023\012\102\162\141\164\151\163
\154\141\166\141\061\023\060\021\006\003\125\004\012\023\012\104
\151\163\151\147\040\141\056\163\056\061\031\060\027\006\003\125
\004\003\023\020\103\101\040\104\151\163\151\147\040\122\157\157
\164\040\122\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\011\000\222\270\210\333\260\212\301\143
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "ACCVRAIZ1"
#
Issuer: C=ES,O=ACCV,OU=PKIACCV,CN=ACCVRAIZ1
Serial Number:5e:c3:b7:a6:43:7f:a4:e0
Subject: C=ES,O=ACCV,OU=PKIACCV,CN=ACCVRAIZ1
Not Valid Before: Thu May 05 09:37:37 2011
Not Valid After : Tue Dec 31 09:37:37 2030
Fingerprint (SHA-256):
9A:6E:C0:12:E1:A7:DA:9D:BE:34:19:4D:47:8A:D7:C0:DB:18:22:FB:07:1D:F1:29:81:49:6E:D1:04:38:41:13
Fingerprint (SHA1): 93:05:7A:88:15:C6:4F:CE:88:2F:FA:91:16:52:28:78:BC:53:64:17
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ACCVRAIZ1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\102\061\022\060\020\006\003\125\004\003\014\011\101\103\103
\126\122\101\111\132\061\061\020\060\016\006\003\125\004\013\014
\007\120\113\111\101\103\103\126\061\015\060\013\006\003\125\004
\012\014\004\101\103\103\126\061\013\060\011\006\003\125\004\006
\023\002\105\123
END
CKA_ID UTF8 "0"

```

CKA\_ISSUER MULTILINE\_OCTAL

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

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

\002\010\136\303\267\246\103\177\244\340

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\007\323\060\202\005\273\240\003\002\001\002\002\010\136  
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\015\001\001\005\005\000\060\102\061\022\060\020\006\003\125\004  
\003\014\011\101\103\103\126\122\101\111\132\061\061\020\060\016  
\006\003\125\004\013\014\007\120\113\111\101\103\103\126\061\015  
\060\013\006\003\125\004\012\014\004\101\103\103\126\061\013\060  
\011\006\003\125\004\006\023\002\105\123\060\036\027\015\061\061  
\060\065\060\065\060\071\063\067\063\067\132\027\015\063\060\061  
\062\063\061\060\071\063\067\063\067\132\060\102\061\022\060\020  
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\103\126\061\015\060\013\006\003\125\004\012\014\004\101\103\103  
\126\061\013\060\011\006\003\125\004\006\023\002\105\123\060\202  
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\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  
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\040\017\060\050\124\225\177\340\356\316\012\146\235\321\100\055  
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\340\210\034\012\374\026\266\250\163\006\270\360\143\204\002\240  
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\223\247\306\212\212\063\227\140\067\020\076\227\076\156\051\025  
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\366\070\273\234\344\321\177\324\345\130\233\174\372\324\363\016  
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\006\366\373\122\250\113\231\004\335\370\371\264\213\120\243\116  
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\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  
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\053\006\001\005\005\007\060\002\206\100\150\164\164\160\072\057  
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\001\005\005\007\060\001\206\023\150\164\164\160\072\057\057\157  
\143\163\160\056\141\143\143\166\056\145\163\060\035\006\003\125  
\035\016\004\026\004\024\322\207\264\343\337\067\047\223\125\366  
\126\352\201\345\066\314\214\036\077\275\060\017\006\003\125\035  
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\035\043\004\030\060\026\200\024\322\207\264\343\337\067\047\223  
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\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  
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\164\000\151\000\146\000\151\000\143\000\141\000\143\000\151\000  
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\162\000\363\000\156\000\151\000\143\000\141\000\054\000\040\000  
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\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  
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\163\057\154\145\147\151\163\154\141\143\151\157\156\137\143\056  
\150\164\155\060\125\006\003\125\035\037\004\116\060\114\060\112

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\151\146\151\143\141\144\157\163\057\162\141\151\172\141\143\143  
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\112\227\115\265\333\220\340\005\056\016\306\171\320\362\227\151  
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\174\063\334\142\213\250\067\370\047\330\011\055\033\357\310\024  
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\000\317\304\051\163\021\066\336\206\031\076\235\356\031\212\033  
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\043\254\351\245\044\214\021\200\224\132\242\242\271\111\322\301  
\334\321\247\355\061\021\054\236\031\246\356\341\125\341\300\352  
\317\015\204\344\027\267\242\174\245\336\125\045\006\356\314\300  
\207\134\100\332\314\225\077\125\340\065\307\270\204\276\264\135  
\315\172\203\001\162\356\207\346\137\035\256\265\205\306\046\337  
\346\301\232\351\036\002\107\237\052\250\155\251\133\317\354\105  
\167\177\230\047\232\062\135\052\343\204\356\305\230\146\057\226  
\040\035\335\330\303\047\327\260\371\376\331\175\315\320\237\217  
\013\024\130\121\237\057\213\303\070\055\336\350\217\326\215\207  
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\302\130\200\033\240\227\241\374\131\215\351\021\366\321\017\113  
\125\064\106\052\213\206\073

END

CKA\_NSS\_MOZILLA\_CA\_POLICY CK\_BBOOL CK\_TRUE  
CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE  
CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "ACCVRAIZ1"

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

```

Serial Number:5e:c3:b7:a6:43:7f:a4:e0
Subject: C=ES,O=ACCV,OU=PKIACCV,CN=ACCVRAIZ1
Not Valid Before: Thu May 05 09:37:37 2011
Not Valid After : Tue Dec 31 09:37:37 2030
Fingerprint (SHA-256):
9A:6E:C0:12:E1:A7:DA:9D:BE:34:19:4D:47:8A:D7:C0:DB:18:22:FB:07:1D:F1:29:81:49:6E:D1:04:38:41:13
Fingerprint (SHA1): 93:05:7A:88:15:C6:4F:CE:88:2F:FA:91:16:52:28:78:BC:53:64:17
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ACCVRAIZ1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\223\005\172\210\025\306\117\316\210\057\372\221\026\122\050\170
\274\123\144\027
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\320\240\132\356\005\266\011\224\041\241\175\361\262\051\202\002
END
CKA_ISSUER MULTILINE_OCTAL
\060\102\061\022\060\020\006\003\125\004\003\014\011\101\103\103
\126\122\101\111\132\061\061\020\060\016\006\003\125\004\013\014
\007\120\113\111\101\103\103\126\061\015\060\013\006\003\125\004
\012\014\004\101\103\103\126\061\013\060\011\006\003\125\004\006
\023\002\105\123
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\136\303\267\246\103\177\244\340
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "TWCA Global Root CA"
#
Issuer: CN=TWCA Global Root CA,OU=Root CA,O=TAIWAN-CA,C=TW
Serial Number: 3262 (0xcbe)
Subject: CN=TWCA Global Root CA,OU=Root CA,O=TAIWAN-CA,C=TW
Not Valid Before: Wed Jun 27 06:28:33 2012
Not Valid After : Tue Dec 31 15:59:59 2030
Fingerprint (SHA-256):
59:76:90:07:F7:68:5D:0F:CD:50:87:2F:9F:95:D5:75:5A:5B:2B:45:7D:81:F3:69:2B:61:0A:98:67:2F:0E:1B
Fingerprint (SHA1): 9C:BB:48:53:F6:A4:F6:D3:52:A4:E8:32:52:55:60:13:F5:AD:AF:65
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE

```



```
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TWCA Global Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\121\061\013\060\011\006\003\125\004\006\023\002\124\127\061
\022\060\020\006\003\125\004\012\023\011\124\101\111\127\101\116
\055\103\101\061\020\060\016\006\003\125\004\013\023\007\122\157
\157\164\040\103\101\061\034\060\032\006\003\125\004\003\023\023
\124\127\103\101\040\107\154\157\142\141\154\040\122\157\157\164
\040\103\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\121\061\013\060\011\006\003\125\004\006\023\002\124\127\061
\022\060\020\006\003\125\004\012\023\011\124\101\111\127\101\116
\055\103\101\061\020\060\016\006\003\125\004\013\023\007\122\157
\157\164\040\103\101\061\034\060\032\006\003\125\004\003\023\023
\124\127\103\101\040\107\154\157\142\141\154\040\122\157\157\164
\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\002\014\276
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\101\060\202\003\051\240\003\002\001\002\002\002\014
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\060\121\061\013\060\011\006\003\125\004\006\023\002\124\127\061
\022\060\020\006\003\125\004\012\023\011\124\101\111\127\101\116
\055\103\101\061\020\060\016\006\003\125\004\013\023\007\122\157
\157\164\040\103\101\061\034\060\032\006\003\125\004\003\023\023
\124\127\103\101\040\107\154\157\142\141\154\040\122\157\157\164
\040\103\101\060\036\027\015\061\062\060\066\062\067\060\066\062
\070\063\063\132\027\015\063\060\061\062\063\061\061\065\065\071
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\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
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\110\206\367\015\001\001\001\005\000\003\202\002\017\000\060\202
\002\012\002\202\002\001\000\260\005\333\310\353\214\304\156\212
\041\357\216\115\234\161\012\037\122\160\355\155\202\234\227\305
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\061\137\205\002\227\354\103\063\012\123\322\234\214\216\267\270
\171\333\053\325\152\362\216\146\304\356\053\001\007\222\324\263
\320\002\337\120\366\125\257\146\016\313\340\107\140\057\053\062
\071\065\122\072\050\203\370\173\026\306\030\270\142\326\107\045
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\314\210\165\036\273\154\006\377\233\153\076\027\354\141\252\161  
\174\306\035\242\367\111\351\025\265\074\326\241\141\365\021\367  
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\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  
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\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  
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\003\202\002\001\000\137\064\201\166\357\226\035\325\345\265\331  
\002\143\204\026\301\256\240\160\121\247\367\114\107\065\310\013  
\327\050\075\211\161\331\252\063\101\352\024\033\154\041\000\300  
\154\102\031\176\237\151\133\040\102\337\242\322\332\304\174\227  
\113\215\260\350\254\310\356\245\151\004\231\012\222\246\253\047  
\056\032\115\201\277\204\324\160\036\255\107\376\375\112\235\063  
\340\362\271\304\105\010\041\012\332\151\151\163\162\015\276\064  
\376\224\213\255\303\036\065\327\242\203\357\345\070\307\245\205  
\037\253\317\064\354\077\050\376\014\361\127\206\116\311\125\367  
\034\324\330\245\175\006\172\157\325\337\020\337\201\116\041\145  
\261\266\341\027\171\225\105\006\316\137\314\334\106\211\143\150  
\104\215\223\364\144\160\240\075\235\050\005\303\071\160\270\142  
\173\040\375\344\333\351\010\241\270\236\075\011\307\117\373\054  
\370\223\166\101\336\122\340\341\127\322\235\003\274\167\236\376  
\236\051\136\367\301\121\140\037\336\332\013\262\055\165\267\103  
\110\223\347\366\171\306\204\135\200\131\140\224\374\170\230\217  
\074\223\121\355\100\220\007\337\144\143\044\313\116\161\005\241  
\327\224\032\210\062\361\042\164\042\256\245\246\330\022\151\114  
\140\243\002\356\053\354\324\143\222\013\136\276\057\166\153\243  
\266\046\274\217\003\330\012\362\114\144\106\275\071\142\345\226

```
\353\064\143\021\050\314\225\361\255\357\357\334\200\130\110\351
\113\270\352\145\254\351\374\200\265\265\310\105\371\254\301\237
\331\271\352\142\210\216\304\361\113\203\022\255\346\213\204\326
\236\302\353\203\030\237\152\273\033\044\140\063\160\314\354\367
\062\363\134\331\171\175\357\236\244\376\311\043\303\044\356\025
\222\261\075\221\117\046\206\275\146\163\044\023\352\244\256\143
\301\255\175\204\003\074\020\170\206\033\171\343\304\363\362\004
\225\040\256\043\202\304\263\072\000\142\277\346\066\044\341\127
\272\307\036\220\165\325\137\077\225\141\053\301\073\315\345\263
\150\141\320\106\046\251\041\122\151\055\353\056\307\353\167\316
\246\072\265\003\063\117\166\321\347\134\124\001\135\313\170\364
\311\014\277\317\022\216\027\055\043\150\224\347\253\376\251\262
\053\006\320\004\315
```

END

CKA\_NSS\_MOZILLA\_CA\_POLICY CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "TWCA Global Root CA"

# Issuer: CN=TWCA Global Root CA,OU=Root CA,O=TAIWAN-CA,C=TW

# Serial Number: 3262 (0xcbe)

# Subject: CN=TWCA Global Root CA,OU=Root CA,O=TAIWAN-CA,C=TW

# Not Valid Before: Wed Jun 27 06:28:33 2012

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

# Fingerprint (SHA-256):

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

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

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "TWCA Global Root CA"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

```
\234\273\110\123\366\244\366\323\122\244\350\062\122\125\140\023
\365\255\257\145
```

END

CKA\_CERT\_MD5\_HASH MULTILINE\_OCTAL

```
\371\003\176\317\346\236\074\163\172\052\220\007\151\377\053\226
```

END

CKA\_ISSUER MULTILINE\_OCTAL

```
\060\121\061\013\060\011\006\003\125\004\006\023\002\124\127\061
\022\060\020\006\003\125\004\012\023\011\124\101\111\127\101\116
\055\103\101\061\020\060\016\006\003\125\004\013\023\007\122\157
\157\164\040\103\101\061\034\060\032\006\003\125\004\003\023\023
\124\127\103\101\040\107\154\157\142\141\154\040\122\157\157\164
\040\103\101
```

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

```

\002\002\014\276
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "TeliaSonera Root CA v1"
#
Issuer: CN=TeliaSonera Root CA v1,O=TeliaSonera
Serial Number:00:95:be:16:a0:f7:2e:46:f1:7b:39:82:72:fa:8b:cd:96
Subject: CN=TeliaSonera Root CA v1,O=TeliaSonera
Not Valid Before: Thu Oct 18 12:00:50 2007
Not Valid After : Mon Oct 18 12:00:50 2032
Fingerprint (SHA-256):
DD:69:36:FE:21:F8:F0:77:C1:23:A1:A5:21:C1:22:24:F7:22:55:B7:3E:03:A7:26:06:93:E8:A2:4B:0F:A3:89
Fingerprint (SHA1): 43:13:BB:96:F1:D5:86:9B:C1:4E:6A:92:F6:CF:F6:34:69:87:82:37
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TeliaSonera Root CA v1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\067\061\024\060\022\006\003\125\004\012\014\013\124\145\154
\151\141\123\157\156\145\162\141\061\037\060\035\006\003\125\004
\003\014\026\124\145\154\151\141\123\157\156\145\162\141\040\122
\157\157\164\040\103\101\040\166\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\067\061\024\060\022\006\003\125\004\012\014\013\124\145\154
\151\141\123\157\156\145\162\141\061\037\060\035\006\003\125\004
\003\014\026\124\145\154\151\141\123\157\156\145\162\141\040\122
\157\157\164\040\103\101\040\166\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\021\000\225\276\026\240\367\056\106\361\173\071\202\162\372
\213\315\226
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\070\060\202\003\040\240\003\002\001\002\002\021\000
\225\276\026\240\367\056\106\361\173\071\202\162\372\213\315\226
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060
\067\061\024\060\022\006\003\125\004\012\014\013\124\145\154\151
\141\123\157\156\145\162\141\061\037\060\035\006\003\125\004\003
\014\026\124\145\154\151\141\123\157\156\145\162\141\040\122\157

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\157\164\040\103\101\040\166\061\060\036\027\015\060\067\061\060  
\061\070\061\062\060\060\065\060\132\027\015\063\062\061\060\061  
\070\061\062\060\060\065\060\132\060\067\061\024\060\022\006\003  
\125\004\012\014\013\124\145\154\151\141\123\157\156\145\162\141  
\061\037\060\035\006\003\125\004\003\014\026\124\145\154\151\141  
\123\157\156\145\162\141\040\122\157\157\164\040\103\101\040\166  
\061\060\202\002\042\060\015\006\011\052\206\110\206\367\015\001  
\001\001\005\000\003\202\002\017\000\060\202\002\012\002\202\002  
\001\000\302\276\353\047\360\041\243\363\151\046\125\176\235\305  
\125\026\221\134\375\357\041\277\123\200\172\055\322\221\214\143  
\061\360\354\044\360\303\245\322\162\174\020\155\364\067\267\345  
\346\174\171\352\214\265\202\213\256\110\266\254\000\334\145\165  
\354\052\115\137\301\207\365\040\145\053\201\250\107\076\211\043  
\225\060\026\220\177\350\127\007\110\347\031\256\277\105\147\261  
\067\033\006\052\376\336\371\254\175\203\373\136\272\344\217\227  
\147\276\113\216\215\144\007\127\070\125\151\064\066\075\023\110  
\357\117\342\323\146\036\244\317\032\267\136\066\063\324\264\006  
\275\030\001\375\167\204\120\000\105\365\214\135\350\043\274\176  
\376\065\341\355\120\173\251\060\215\031\323\011\216\150\147\135  
\277\074\227\030\123\273\051\142\305\312\136\162\301\307\226\324  
\333\055\240\264\037\151\003\354\352\342\120\361\014\074\360\254  
\363\123\055\360\034\365\355\154\071\071\163\200\026\310\122\260  
\043\315\340\076\334\335\074\107\240\273\065\212\342\230\150\213  
\276\345\277\162\356\322\372\245\355\022\355\374\230\030\251\046  
\166\334\050\113\020\040\034\323\177\026\167\055\355\157\200\367  
\111\273\123\005\273\135\150\307\324\310\165\026\077\211\132\213  
\367\027\107\324\114\361\322\211\171\076\115\075\230\250\141\336  
\072\036\322\370\136\003\340\301\311\034\214\323\215\115\323\225  
\066\263\067\137\143\143\233\063\024\360\055\046\153\123\174\211  
\214\062\302\156\354\075\041\000\071\311\241\150\342\120\203\056  
\260\072\053\363\066\240\254\057\344\157\141\302\121\011\071\076  
\213\123\271\273\147\332\334\123\271\166\131\066\235\103\345\040  
\340\075\062\140\205\042\121\267\307\063\273\335\025\057\244\170  
\246\007\173\201\106\066\004\206\335\171\065\307\225\054\073\260  
\243\027\065\345\163\037\264\134\131\357\332\352\020\145\173\172  
\320\177\237\263\264\052\067\073\160\213\233\133\271\053\267\354  
\262\121\022\227\123\051\132\324\360\022\020\334\117\002\273\022  
\222\057\142\324\077\151\103\174\015\326\374\130\165\001\210\235  
\130\026\113\336\272\220\377\107\001\211\006\152\366\137\262\220  
\152\263\002\246\002\210\277\263\107\176\052\331\325\372\150\170  
\065\115\002\003\001\000\001\243\077\060\075\060\017\006\003\125  
\035\023\001\001\377\004\005\060\003\001\001\377\060\013\006\003  
\125\035\017\004\004\003\002\001\006\060\035\006\003\125\035\016  
\004\026\004\024\360\217\131\070\000\263\365\217\232\226\014\325  
\353\372\173\252\027\350\023\022\060\015\006\011\052\206\110\206  
\367\015\001\001\005\005\000\003\202\002\001\000\276\344\134\142  
\116\044\364\014\010\377\360\323\014\150\344\223\111\042\077\104  
\047\157\273\155\336\203\146\316\250\314\015\374\365\232\006\345

\167\024\221\353\235\101\173\231\052\204\345\377\374\041\301\135  
\360\344\037\127\267\165\251\241\137\002\046\377\327\307\367\116  
\336\117\370\367\034\106\300\172\117\100\054\042\065\360\031\261  
\320\153\147\054\260\250\340\300\100\067\065\366\204\134\134\343  
\257\102\170\376\247\311\015\120\352\015\204\166\366\121\357\203  
\123\306\172\377\016\126\111\056\217\172\326\014\346\047\124\343  
\115\012\140\162\142\315\221\007\326\245\277\310\231\153\355\304  
\031\346\253\114\021\070\305\157\061\342\156\111\310\077\166\200  
\046\003\046\051\340\066\366\366\040\123\343\027\160\064\027\235  
\143\150\036\153\354\303\115\206\270\023\060\057\135\106\015\107  
\103\325\033\252\131\016\271\134\215\006\110\255\164\207\137\307  
\374\061\124\101\023\342\307\041\016\236\340\036\015\341\300\173  
\103\205\220\305\212\130\306\145\012\170\127\362\306\043\017\001  
\331\040\113\336\017\373\222\205\165\052\134\163\215\155\173\045  
\221\312\356\105\256\006\113\000\314\323\261\131\120\332\072\210  
\073\051\103\106\136\227\053\124\316\123\157\215\112\347\226\372  
\277\161\016\102\213\174\375\050\240\320\110\312\332\304\201\114  
\273\242\163\223\046\310\353\014\326\046\210\266\300\044\317\273  
\275\133\353\165\175\351\010\216\206\063\054\171\167\011\151\245  
\211\374\263\160\220\207\166\217\323\042\273\102\316\275\163\013  
\040\046\052\320\233\075\160\036\044\154\315\207\166\251\027\226  
\267\317\015\222\373\216\030\251\230\111\321\236\376\140\104\162  
\041\271\031\355\302\365\061\361\071\110\210\220\044\165\124\026  
\255\316\364\370\151\024\144\071\373\243\270\272\160\100\307\047  
\034\277\304\126\123\372\143\145\320\363\034\016\026\365\153\206  
\130\115\030\324\344\015\216\245\235\133\221\334\166\044\120\077  
\306\052\373\331\267\234\265\326\346\320\331\350\031\213\025\161  
\110\255\267\352\330\131\210\324\220\277\026\263\331\351\254\131  
\141\124\310\034\272\312\301\312\341\271\040\114\217\072\223\211  
\245\240\314\277\323\366\165\244\165\226\155\126

END

CKA\_NSS\_MOZILLA\_CA\_POLICY CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_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
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\021\000\225\276\026\240\367\056\106\361\173\071\202\162\372
\213\315\226
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "E-Tugra Certification Authority"
#
Issuer: CN=E-Tugra Certification Authority,OU=E-Tugra Sertifikasyon Merkezi,O=E-Tu..ra EBG Bili..im
Teknolojileri ve Hizmetleri A....,L=Ankara,C=TR
Serial Number:6a:68:3e:9c:51:9b:cb:53
Subject: CN=E-Tugra Certification Authority,OU=E-Tugra Sertifikasyon Merkezi,O=E-Tu..ra EBG Bili..im
Teknolojileri ve Hizmetleri A....,L=Ankara,C=TR
Not Valid Before: Tue Mar 05 12:09:48 2013
Not Valid After : Fri Mar 03 12:09:48 2023
Fingerprint (SHA-256):
B0:BF:D5:2B:B0:D7:D9:BD:92:BF:5D:4D:C1:3D:A2:55:C0:2C:54:2F:37:83:65:EA:89:39:11:F5:5E:55:F2:3C
Fingerprint (SHA1): 51:C6:E7:08:49:06:6E:F3:92:D4:5C:A0:0D:6D:A3:62:8F:C3:52:39
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "E-Tugra Certification Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\262\061\013\060\011\006\003\125\004\006\023\002\124\122
\061\017\060\015\006\003\125\004\007\014\006\101\156\153\141\162
\141\061\100\060\076\006\003\125\004\012\014\067\105\055\124\165
\304\237\162\141\040\105\102\107\040\102\151\154\151\305\237\151
\155\040\124\145\153\156\157\154\157\152\151\154\145\162\151\040

```

\166\145\040\110\151\172\155\145\164\154\145\162\151\040\101\056  
\305\236\056\061\046\060\044\006\003\125\004\013\014\035\105\055  
\124\165\147\162\141\040\123\145\162\164\151\146\151\153\141\163  
\171\157\156\040\115\145\162\153\145\172\151\061\050\060\046\006  
\003\125\004\003\014\037\105\055\124\165\147\162\141\040\103\145  
\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150  
\157\162\151\164\171

END

CKA\_ID UTF8 "0"

CKA\_ISSUER MULTILINE\_OCTAL

\060\201\262\061\013\060\011\006\003\125\004\006\023\002\124\122  
\061\017\060\015\006\003\125\004\007\014\006\101\156\153\141\162  
\141\061\100\060\076\006\003\125\004\012\014\067\105\055\124\165  
\304\237\162\141\040\105\102\107\040\102\151\154\151\305\237\151  
\155\040\124\145\153\156\157\154\157\152\151\154\145\162\151\040  
\166\145\040\110\151\172\155\145\164\154\145\162\151\040\101\056  
\305\236\056\061\046\060\044\006\003\125\004\013\014\035\105\055  
\124\165\147\162\141\040\123\145\162\164\151\146\151\153\141\163  
\171\157\156\040\115\145\162\153\145\172\151\061\050\060\046\006  
\003\125\004\003\014\037\105\055\124\165\147\162\141\040\103\145  
\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150  
\157\162\151\164\171

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

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

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\006\113\060\202\004\063\240\003\002\001\002\002\010\152  
\150\076\234\121\233\313\123\060\015\006\011\052\206\110\206\367  
\015\001\001\013\005\000\060\201\262\061\013\060\011\006\003\125  
\004\006\023\002\124\122\061\017\060\015\006\003\125\004\007\014  
\006\101\156\153\141\162\141\061\100\060\076\006\003\125\004\012  
\014\067\105\055\124\165\304\237\162\141\040\105\102\107\040\102  
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\060\063\060\063\061\062\060\071\064\070\132\060\201\262\061\013  
\060\011\006\003\125\004\006\023\002\124\122\061\017\060\015\006  
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\105\102\107\040\102\151\154\151\305\237\151\155\040\124\145\153  
\156\157\154\157\152\151\154\145\162\151\040\166\145\040\110\151



\172\155\145\164\154\145\162\151\040\101\056\305\236\056\061\046  
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\040\123\145\162\164\151\146\151\153\141\163\171\157\156\040\115  
\145\162\153\145\172\151\061\050\060\046\006\003\125\004\003\014  
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\310\241\366\124\150\316\336\217\227\053\272\133\100\002\014\144  
\027\300\265\223\315\341\361\023\146\316\014\171\357\321\221\050  
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\047\052\376\314\116\322\350\116\124\060\017\006\003\125\035\023  
\001\001\377\004\005\060\003\001\001\377\060\037\006\003\125\035  
\043\004\030\060\026\200\024\056\343\333\262\111\320\234\124\171  
\134\372\047\052\376\314\116\322\350\116\124\060\016\006\003\125  
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\067\072\364\115\267\105\342\105\165\044\217\266\167\122\350\034  
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\023\076\217\200\151\276\223\107\265\065\103\322\132\273\075\134  
\357\263\102\107\315\073\125\023\006\260\011\333\375\143\366\072  
\210\012\231\157\176\341\316\033\123\152\104\146\043\121\010\173  
\274\133\122\242\375\006\067\070\100\141\217\112\226\270\220\067  
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\150\256\371\116\074\007\046\315\010\005\160\314\071\077\166\275  
\245\323\147\046\001\206\246\123\322\140\073\174\103\177\125\212  
\274\225\032\301\050\071\114\037\103\322\221\364\162\131\212\271  
\126\374\077\264\235\332\160\234\166\132\214\103\120\356\216\060  
\162\115\337\377\111\367\306\251\147\331\155\254\002\021\342\072  
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\311\277\310\103\255\375\056\216\361\257\342\364\230\372\022\037  
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\237\211\213\375\067\137\137\072\316\070\131\206\113\257\161\013  
\264\330\362\160\117\237\062\023\343\260\247\127\345\332\332\103  
\313\204\064\362\050\304\352\155\364\052\357\301\153\166\332\373  
\176\273\205\074\322\123\302\115\276\161\341\105\321\375\043\147  
\015\023\165\373\317\145\147\042\235\256\260\011\321\011\377\035  
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END

CKA\_NSS\_MOZILLA\_CA\_POLICY CK\_BBOOL CK\_TRUE  
CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE  
CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "E-Tugra Certification Authority"

# Issuer: CN=E-Tugra Certification Authority,OU=E-Tugra Sertifikasyon Merkezi,O=E-Tu..ra EBG Bili..im  
Teknolojileri ve Hizmetleri A....,L=Ankara,C=TR

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

# Subject: CN=E-Tugra Certification Authority,OU=E-Tugra Sertifikasyon Merkezi,O=E-Tu..ra EBG Bili..im  
Teknolojileri ve Hizmetleri A....,L=Ankara,C=TR

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

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

# Fingerprint (SHA-256):

B0:BF:D5:2B:B0:D7:D9:BD:92:BF:5D:4D:C1:3D:A2:55:C0:2C:54:2F:37:83:65:EA:89:39:11:F5:5E:55:F2:3C

# Fingerprint (SHA1): 51:C6:E7:08:49:06:6E:F3:92:D4:5C:A0:0D:6D:A3:62:8F:C3:52:39

```

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "E-Tugra Certification Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\121\306\347\010\111\006\156\363\222\324\134\240\015\155\243\142
\217\303\122\071
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\270\241\003\143\260\275\041\161\160\212\157\023\072\273\171\111
END
CKA_ISSUER MULTILINE_OCTAL
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\061\017\060\015\006\003\125\004\007\014\006\101\156\153\141\162
\141\061\100\060\076\006\003\125\004\012\014\067\105\055\124\165
\304\237\162\141\040\105\102\107\040\102\151\154\151\305\237\151
\155\040\124\145\153\156\157\154\157\152\151\154\145\162\151\040
\166\145\040\110\151\172\155\145\164\154\145\162\151\040\101\056
\305\236\056\061\046\060\044\006\003\125\004\013\014\035\105\055
\124\165\147\162\141\040\123\145\162\164\151\146\151\153\141\163
\171\157\156\040\115\145\162\153\145\172\151\061\050\060\046\006
\003\125\004\003\014\037\105\055\124\165\147\162\141\040\103\145
\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150
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END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\152\150\076\234\121\233\313\123
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "T-TeleSec GlobalRoot Class 2"
#
Issuer: CN=T-TeleSec GlobalRoot Class 2,OU=T-Systems Trust Center,O=T-Systems Enterprise Services
GmbH,C=DE
Serial Number: 1 (0x1)
Subject: CN=T-TeleSec GlobalRoot Class 2,OU=T-Systems Trust Center,O=T-Systems Enterprise Services
GmbH,C=DE
Not Valid Before: Wed Oct 01 10:40:14 2008
Not Valid After : Sat Oct 01 23:59:59 2033
Fingerprint (SHA-256):
91:E2:F5:78:8D:58:10:EB:A7:BA:58:73:7D:E1:54:8A:8E:CA:CD:01:45:98:BC:0B:14:3E:04:1B:17:05:25:52
Fingerprint (SHA1): 59:0D:2D:7D:88:4F:40:2E:61:7E:A5:62:32:17:65:CF:17:D8:94:E9
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

```

CKA\_TOKEN CK\_BBOOL CK\_TRUE  
CKA\_PRIVATE CK\_BBOOL CK\_FALSE  
CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE  
CKA\_LABEL UTF8 "T-TeleSec GlobalRoot Class 2"  
CKA\_CERTIFICATE\_TYPE CK\_CERTIFICATE\_TYPE CKC\_X\_509  
CKA\_SUBJECT MULTILINE\_OCTAL  
\060\201\202\061\013\060\011\006\003\125\004\006\023\002\104\105  
\061\053\060\051\006\003\125\004\012\014\042\124\055\123\171\163  
\164\145\155\163\040\105\156\164\145\162\160\162\151\163\145\040  
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\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  
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END

CKA\_ID UTF8 "0"

CKA\_ISSUER MULTILINE\_OCTAL  
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\061\053\060\051\006\003\125\004\012\014\042\124\055\123\171\163  
\164\145\155\163\040\105\156\164\145\162\160\162\151\163\145\040  
\123\145\162\166\151\143\145\163\040\107\155\142\110\061\037\060  
\035\006\003\125\004\013\014\026\124\055\123\171\163\164\145\155  
\163\040\124\162\165\163\164\040\103\145\156\164\145\162\061\045  
\060\043\006\003\125\004\003\014\034\124\055\124\145\154\145\123  
\145\143\040\107\154\157\142\141\154\122\157\157\164\040\103\154  
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END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

\002\001\001

END

CKA\_VALUE MULTILINE\_OCTAL

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\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  
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\040\124\162\165\163\164\040\103\145\156\164\145\162\061\045\060  
\043\006\003\125\004\003\014\034\124\055\124\145\154\145\123\145  
\143\040\107\154\157\142\141\154\122\157\157\164\040\103\154\141  
\163\163\040\062\060\036\027\015\060\070\061\060\060\061\061\060  
\064\060\061\064\132\027\015\063\063\061\060\060\061\062\063\065  
\071\065\071\132\060\201\202\061\013\060\011\006\003\125\004\006  
\023\002\104\105\061\053\060\051\006\003\125\004\012\014\042\124  
\055\123\171\163\164\145\155\163\040\105\156\164\145\162\160\162  
\151\163\145\040\123\145\162\166\151\143\145\163\040\107\155\142

\110\061\037\060\035\006\003\125\004\013\014\026\124\055\123\171  
\163\164\145\155\163\040\124\162\165\163\164\040\103\145\156\164  
\145\162\061\045\060\043\006\003\125\004\003\014\034\124\055\124  
\145\154\145\123\145\143\040\107\154\157\142\141\154\122\157\157  
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END

CKA\_NSS\_MOZILLA\_CA\_POLICY CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "T-TeleSec GlobalRoot Class 2"

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

# Serial Number: 1 (0x1)

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

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

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

# Fingerprint (SHA-256):

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

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

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "T-TeleSec GlobalRoot Class 2"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

\131\015\055\175\210\117\100\056\141\176\245\142\062\027\145\317  
\027\330\224\351

END

CKA\_CERT\_MD5\_HASH MULTILINE\_OCTAL

\053\233\236\344\173\154\037\000\162\032\314\301\167\171\337\152

END

CKA\_ISSUER MULTILINE\_OCTAL

\060\201\202\061\013\060\011\006\003\125\004\006\023\002\104\105  
\061\053\060\051\006\003\125\004\012\014\042\124\055\123\171\163  
\164\145\155\163\040\105\156\164\145\162\160\162\151\163\145\040  
\123\145\162\166\151\143\145\163\040\107\155\142\110\061\037\060  
\035\006\003\125\004\013\014\026\124\055\123\171\163\164\145\155  
\163\040\124\162\165\163\164\040\103\145\156\164\145\162\061\045  
\060\043\006\003\125\004\003\014\034\124\055\124\145\154\145\123  
\145\143\040\107\154\157\142\141\154\122\157\157\164\040\103\154  
\141\163\163\040\062

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

\002\001\001

END

CKA\_TRUST\_SERVER\_AUTH CK\_TRUST CKT\_NSS\_TRUSTED\_DELEGATOR

CKA\_TRUST\_EMAIL\_PROTECTION CK\_TRUST CKT\_NSS\_TRUSTED\_DELEGATOR

CKA\_TRUST\_CODE\_SIGNING CK\_TRUST CKT\_NSS\_MUST\_VERIFY\_TRUST

CKA\_TRUST\_STEP\_UP\_APPROVED CK\_BBOOL CK\_FALSE

#

# Certificate "Atos TrustedRoot 2011"

#

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

```
Serial Number:5c:33:cb:62:2c:5f:b3:32
Subject: C=DE,O=Atos,CN=Atos TrustedRoot 2011
Not Valid Before: Thu Jul 07 14:58:30 2011
Not Valid After : Tue Dec 31 23:59:59 2030
Fingerprint (SHA-256):
F3:56:BE:A2:44:B7:A9:1E:B3:5D:53:CA:9A:D7:86:4A:CE:01:8E:2D:35:D5:F8:F9:6D:DF:68:A6:F4:1A:A4:74
Fingerprint (SHA1): 2B:B1:F5:3E:55:0C:1D:C5:F1:D4:E6:B7:6A:46:4B:55:06:02:AC:21
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Atos TrustedRoot 2011"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\074\061\036\060\034\006\003\125\004\003\014\025\101\164\157
\163\040\124\162\165\163\164\145\144\122\157\157\164\040\062\060
\061\061\061\015\060\013\006\003\125\004\012\014\004\101\164\157
\163\061\013\060\011\006\003\125\004\006\023\002\104\105
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\074\061\036\060\034\006\003\125\004\003\014\025\101\164\157
\163\040\124\162\165\163\164\145\144\122\157\157\164\040\062\060
\061\061\061\015\060\013\006\003\125\004\012\014\004\101\164\157
\163\061\013\060\011\006\003\125\004\006\023\002\104\105
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\134\063\313\142\054\137\263\062
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\167\060\202\002\137\240\003\002\001\002\002\010\134
\063\313\142\054\137\263\062\060\015\006\011\052\206\110\206\367
\015\001\001\013\005\000\060\074\061\036\060\034\006\003\125\004
\003\014\025\101\164\157\163\040\124\162\165\163\164\145\144\122
\157\157\164\040\062\060\061\061\061\015\060\013\006\003\125\004
\012\014\004\101\164\157\163\061\013\060\011\006\003\125\004\006
\023\002\104\105\060\036\027\015\061\061\060\067\060\067\061\064
\065\070\063\060\132\027\015\063\060\061\062\063\061\062\063\065
\071\065\071\132\060\074\061\036\060\034\006\003\125\004\003\014
\025\101\164\157\163\040\124\162\165\163\164\145\144\122\157\157
\164\040\062\060\061\061\061\015\060\013\006\003\125\004\012\014
\004\101\164\157\163\061\013\060\011\006\003\125\004\006\023\002
\104\105\060\202\001\042\060\015\006\011\052\206\110\206\367\015
\001\001\001\005\000\003\202\001\017\000\060\202\001\012\002\202
\001\001\000\225\205\073\227\157\052\073\056\073\317\246\363\051
\065\276\317\030\254\076\252\331\370\115\240\076\032\107\271\274
\232\337\362\376\314\076\107\350\172\226\302\044\216\065\364\251
\014\374\202\375\155\301\162\142\047\275\352\153\353\347\212\314
```

\124\076\220\120\317\200\324\225\373\350\265\202\324\024\305\266  
\251\125\045\127\333\261\120\366\260\140\144\131\172\151\317\003  
\267\157\015\276\312\076\157\164\162\352\252\060\052\163\142\276  
\111\221\141\310\021\376\016\003\052\367\152\040\334\002\025\015  
\136\025\152\374\343\202\301\265\305\235\144\011\154\243\131\230  
\007\047\307\033\226\053\141\164\161\154\103\361\367\065\211\020  
\340\236\354\125\241\067\042\242\207\004\005\054\107\175\264\034  
\271\142\051\146\050\312\267\341\223\365\244\224\003\231\271\160  
\205\265\346\110\352\215\120\374\331\336\314\157\007\016\335\013  
\162\235\200\060\026\007\225\077\050\016\375\305\165\117\123\326  
\164\232\264\044\056\216\002\221\317\166\305\233\036\125\164\234  
\170\041\261\360\055\361\013\237\302\325\226\030\037\360\124\042  
\172\214\007\002\003\001\000\001\243\175\060\173\060\035\006\003  
\125\035\016\004\026\004\024\247\245\006\261\054\246\011\140\356  
\321\227\351\160\256\274\073\031\154\333\041\060\017\006\003\125  
\035\023\001\001\377\004\005\060\003\001\001\377\060\037\006\003  
\125\035\043\004\030\060\026\200\024\247\245\006\261\054\246\011  
\140\356\321\227\351\160\256\274\073\031\154\333\041\060\030\006  
\003\125\035\040\004\021\060\017\060\015\006\013\053\006\001\004  
\001\260\055\003\004\001\001\060\016\006\003\125\035\017\001\001  
\377\004\004\003\002\001\206\060\015\006\011\052\206\110\206\367  
\015\001\001\013\005\000\003\202\001\001\000\046\167\064\333\224  
\110\206\052\101\235\054\076\006\220\140\304\214\254\013\124\270  
\037\271\173\323\007\071\344\372\076\173\262\075\116\355\237\043  
\275\227\363\153\134\357\356\375\100\246\337\241\223\241\012\206  
\254\357\040\320\171\001\275\170\367\031\330\044\061\064\004\001  
\246\272\025\232\303\047\334\330\117\017\314\030\143\377\231\017  
\016\221\153\165\026\341\041\374\330\046\307\107\267\246\317\130  
\162\161\176\272\341\115\225\107\073\311\257\155\241\264\301\354  
\211\366\264\017\070\265\342\144\334\045\317\246\333\353\232\134  
\231\241\305\010\336\375\346\332\325\326\132\105\014\304\267\302  
\265\024\357\264\021\377\016\025\265\365\365\333\306\275\353\132  
\247\360\126\042\251\074\145\124\306\025\250\275\206\236\315\203  
\226\150\172\161\201\211\341\013\341\352\021\033\150\010\314\151  
\236\354\236\101\236\104\062\046\172\342\207\012\161\075\353\344  
\132\244\322\333\305\315\306\336\140\177\271\363\117\104\222\357  
\052\267\030\076\247\031\331\013\175\261\067\101\102\260\272\140  
\035\362\376\011\021\260\360\207\173\247\235

END

CKA\_NSS\_MOZILLA\_CA\_POLICY CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRUST\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRUST\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "Atos TrustedRoot 2011"

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

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

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

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



```

Not Valid After : Tue Dec 31 23:59:59 2030
Fingerprint (SHA-256):
F3:56:BE:A2:44:B7:A9:1E:B3:5D:53:CA:9A:D7:86:4A:CE:01:8E:2D:35:D5:F8:F9:6D:DF:68:A6:F4:1A:A4:74
Fingerprint (SHA1): 2B:B1:F5:3E:55:0C:1D:C5:F1:D4:E6:B7:6A:46:4B:55:06:02:AC:21
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Atos TrustedRoot 2011"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\053\261\365\076\125\014\035\305\361\324\346\267\152\106\113\125
\006\002\254\041
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\256\271\304\062\113\254\177\135\146\314\167\224\273\052\167\126
END
CKA_ISSUER MULTILINE_OCTAL
\060\074\061\036\060\034\006\003\125\004\003\014\025\101\164\157
\163\040\124\162\165\163\164\145\144\122\157\157\164\040\062\060
\061\061\061\015\060\013\006\003\125\004\012\014\004\101\164\157
\163\061\013\060\011\006\003\125\004\006\023\002\104\105
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\134\063\313\142\054\137\263\062
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "QuoVadis Root CA 1 G3"
#
Issuer: CN=QuoVadis Root CA 1 G3,O=QuoVadis Limited,C=BM
Serial Number:78:58:5f:2e:ad:2c:19:4b:e3:37:07:35:34:13:28:b5:96:d4:65:93
Subject: CN=QuoVadis Root CA 1 G3,O=QuoVadis Limited,C=BM
Not Valid Before: Thu Jan 12 17:27:44 2012
Not Valid After : Sun Jan 12 17:27:44 2042
Fingerprint (SHA-256):
8A:86:6F:D1:B2:76:B5:7E:57:8E:92:1C:65:82:8A:2B:ED:58:E9:F2:F2:88:05:41:34:B7:F1:F4:BF:C9:CC:74
Fingerprint (SHA1): 1B:8E:EA:57:96:29:1A:C9:39:EA:B8:0A:81:1A:73:73:C0:93:79:67
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "QuoVadis Root CA 1 G3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL

```

\060\110\061\013\060\011\006\003\125\004\006\023\002\102\115\061  
\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144  
\151\163\040\114\151\155\151\164\145\144\061\036\060\034\006\003  
\125\004\003\023\025\121\165\157\126\141\144\151\163\040\122\157  
\157\164\040\103\101\040\061\040\107\063

END

CKA\_ID UTF8 "0"

CKA\_ISSUER MULTILINE\_OCTAL

\060\110\061\013\060\011\006\003\125\004\006\023\002\102\115\061  
\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144  
\151\163\040\114\151\155\151\164\145\144\061\036\060\034\006\003  
\125\004\003\023\025\121\165\157\126\141\144\151\163\040\122\157  
\157\164\040\103\101\040\061\040\107\063

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

\002\024\170\130\137\056\255\054\031\113\343\067\007\065\064\023  
\050\265\226\324\145\223

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\005\140\060\202\003\110\240\003\002\001\002\002\024\170  
\130\137\056\255\054\031\113\343\067\007\065\064\023\050\265\226  
\324\145\223\060\015\006\011\052\206\110\206\367\015\001\001\013  
\005\000\060\110\061\013\060\011\006\003\125\004\006\023\002\102  
\115\061\031\060\027\006\003\125\004\012\023\020\121\165\157\126  
\141\144\151\163\040\114\151\155\151\164\145\144\061\036\060\034  
\006\003\125\004\003\023\025\121\165\157\126\141\144\151\163\040  
\122\157\157\164\040\103\101\040\061\040\107\063\060\036\027\015  
\061\062\060\061\061\062\061\067\062\067\064\064\132\027\015\064  
\062\060\061\061\062\061\067\062\067\064\064\132\060\110\061\013  
\060\011\006\003\125\004\006\023\002\102\115\061\031\060\027\006  
\003\125\004\012\023\020\121\165\157\126\141\144\151\163\040\114  
\151\155\151\164\145\144\061\036\060\034\006\003\125\004\003\023  
\025\121\165\157\126\141\144\151\163\040\122\157\157\164\040\103  
\101\040\061\040\107\063\060\202\002\042\060\015\006\011\052\206  
\110\206\367\015\001\001\001\005\000\003\202\002\017\000\060\202  
\002\012\002\202\002\001\000\240\276\120\020\216\351\362\154\100  
\264\004\234\205\271\061\312\334\055\344\021\251\004\074\033\125  
\301\347\130\060\035\044\264\303\357\205\336\214\054\341\301\075  
\337\202\346\117\255\107\207\154\354\133\111\301\112\325\273\217  
\354\207\254\177\202\232\206\354\075\003\231\122\001\322\065\236  
\254\332\360\123\311\146\074\324\254\002\001\332\044\323\073\250  
\002\106\257\244\034\343\370\163\130\166\267\366\016\220\015\265  
\360\317\314\372\371\306\114\345\303\206\060\012\215\027\176\065  
\353\305\337\273\016\234\300\215\207\343\210\070\205\147\372\076  
\307\253\340\023\234\005\030\230\317\223\365\261\222\264\374\043  
\323\317\325\304\047\111\340\236\074\233\010\243\213\135\052\041  
\340\374\071\252\123\332\175\176\317\032\011\123\274\135\005\004  
\317\241\112\217\213\166\202\015\241\370\322\307\024\167\133\220

\066\007\201\233\076\006\372\122\136\143\305\246\000\376\245\351  
\122\033\122\265\222\071\162\003\011\142\275\260\140\026\156\246  
\335\045\302\003\146\335\363\004\321\100\342\116\213\206\364\157  
\345\203\240\047\204\136\004\301\365\220\275\060\075\304\357\250  
\151\274\070\233\244\244\226\321\142\332\151\300\001\226\256\313  
\304\121\064\352\014\252\377\041\216\131\217\112\134\344\141\232  
\247\322\351\052\170\215\121\075\072\025\356\242\131\216\251\134  
\336\305\371\220\042\345\210\105\161\335\221\231\154\172\237\075  
\075\230\174\136\366\276\026\150\240\136\256\013\043\374\132\017  
\252\042\166\055\311\241\020\035\344\323\104\043\220\210\237\306  
\052\346\327\365\232\263\130\036\057\060\211\010\033\124\242\265  
\230\043\354\010\167\034\225\135\141\321\313\211\234\137\242\112  
\221\232\357\041\252\111\026\010\250\275\141\050\061\311\164\255  
\205\366\331\305\261\213\321\345\020\062\115\137\213\040\072\074  
\111\037\063\205\131\015\333\313\011\165\103\151\163\373\153\161  
\175\360\337\304\114\175\306\243\056\310\225\171\313\163\242\216  
\116\115\044\373\136\344\004\276\162\033\246\047\055\111\132\231  
\172\327\134\011\040\267\177\224\271\117\361\015\034\136\210\102  
\033\021\267\347\221\333\236\154\364\152\337\214\006\230\003\255  
\314\050\357\245\107\363\123\002\003\001\000\001\243\102\060\100  
\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001  
\377\060\016\006\003\125\035\017\001\001\377\004\004\003\002\001  
\006\060\035\006\003\125\035\016\004\026\004\024\243\227\326\363  
\136\242\020\341\253\105\237\074\027\144\074\356\001\160\234\314  
\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\003  
\202\002\001\000\030\372\133\165\374\076\172\307\137\167\307\312  
\337\317\137\303\022\304\100\135\324\062\252\270\152\327\325\025  
\025\106\230\043\245\346\220\133\030\231\114\343\255\102\243\202  
\061\066\210\315\351\373\304\004\226\110\213\001\307\215\001\317  
\133\063\006\226\106\146\164\035\117\355\301\266\271\264\015\141  
\314\143\176\327\056\167\214\226\034\052\043\150\153\205\127\166  
\160\063\023\376\341\117\246\043\167\030\372\032\214\350\275\145  
\311\317\077\364\311\027\334\353\307\274\300\004\056\055\106\057  
\151\146\303\033\217\376\354\076\323\312\224\277\166\012\045\015  
\251\173\002\034\251\320\073\137\013\300\201\072\075\144\341\277  
\247\055\116\275\115\304\330\051\306\042\030\320\305\254\162\002  
\202\077\252\072\242\072\042\227\061\335\010\143\303\165\024\271  
\140\050\055\133\150\340\026\251\146\202\043\121\365\353\123\330  
\061\233\173\351\267\235\113\353\210\026\317\371\135\070\212\111  
\060\217\355\361\353\031\364\167\032\061\030\115\147\124\154\057  
\157\145\371\333\075\354\041\354\136\364\364\213\312\140\145\124  
\321\161\144\364\371\246\243\201\063\066\063\161\360\244\170\137  
\116\255\203\041\336\064\111\215\350\131\254\235\362\166\132\066  
\362\023\364\257\340\011\307\141\052\154\367\340\235\256\273\206  
\112\050\157\056\356\264\171\315\220\063\303\263\166\372\365\360  
\154\235\001\220\372\236\220\366\234\162\317\107\332\303\037\344  
\065\040\123\362\124\321\337\141\203\246\002\342\045\070\336\205  
\062\055\136\163\220\122\135\102\304\316\075\113\341\371\031\204

```
\035\325\242\120\314\101\373\101\024\303\275\326\311\132\243\143
\146\002\200\275\005\072\073\107\234\354\000\046\114\365\210\121
\277\250\043\177\030\007\260\013\355\213\046\241\144\323\141\112
\353\134\237\336\263\257\147\003\263\037\335\155\135\151\150\151
\253\136\072\354\174\151\274\307\073\205\116\236\025\271\264\025
\117\303\225\172\130\327\311\154\351\154\271\363\051\143\136\264
\054\360\055\075\355\132\145\340\251\133\100\302\110\231\201\155
\236\037\006\052\074\022\264\213\017\233\242\044\360\246\215\326
\172\340\113\266\144\226\143\225\204\302\112\315\034\056\044\207
\063\140\345\303
```

END

```
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRICT_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRICT_AFTER CK_BBOOL CK_FALSE
```

```
Trust for "QuoVadis Root CA 1 G3"
```

```
Issuer: CN=QuoVadis Root CA 1 G3,O=QuoVadis Limited,C=BM
```

```
Serial Number:78:58:5f:2e:ad:2c:19:4b:e3:37:07:35:34:13:28:b5:96:d4:65:93
```

```
Subject: CN=QuoVadis Root CA 1 G3,O=QuoVadis Limited,C=BM
```

```
Not Valid Before: Thu Jan 12 17:27:44 2012
```

```
Not Valid After : Sun Jan 12 17:27:44 2042
```

```
Fingerprint (SHA-256):
```

```
8A:86:6F:D1:B2:76:B5:7E:57:8E:92:1C:65:82:8A:2B:ED:58:E9:F2:F2:88:05:41:34:B7:F1:F4:BF:C9:CC:74
```

```
Fingerprint (SHA1): 1B:8E:EA:57:96:29:1A:C9:39:EA:B8:0A:81:1A:73:73:C0:93:79:67
```

```
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
```

```
CKA_TOKEN CK_BBOOL CK_TRUE
```

```
CKA_PRIVATE CK_BBOOL CK_FALSE
```

```
CKA_MODIFIABLE CK_BBOOL CK_FALSE
```

```
CKA_LABEL UTF8 "QuoVadis Root CA 1 G3"
```

```
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
```

```
\033\216\352\127\226\051\032\311\071\352\270\012\201\032\163\163
\300\223\171\147
```

END

```
CKA_CERT_MD5_HASH MULTILINE_OCTAL
```

```
\244\274\133\077\376\067\232\372\144\360\342\372\005\075\013\253
```

END

```
CKA_ISSUER MULTILINE_OCTAL
```

```
\060\110\061\013\060\011\006\003\125\004\006\023\002\102\115\061
\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144
\151\163\040\114\151\155\151\164\145\144\061\036\060\034\006\003
\125\004\003\023\025\121\165\157\126\141\144\151\163\040\122\157
\157\164\040\103\101\040\061\040\107\063
```

END

```
CKA_SERIAL_NUMBER MULTILINE_OCTAL
```

```
\002\024\170\130\137\056\255\054\031\113\343\067\007\065\064\023
\050\265\226\324\145\223
```

END

```
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
```

CKA\_TRUST\_EMAIL\_PROTECTION CK\_TRUST CKT\_NSS\_TRUSTED\_DELEGATOR  
CKA\_TRUST\_CODE\_SIGNING CK\_TRUST CKT\_NSS\_MUST\_VERIFY\_TRUST  
CKA\_TRUST\_STEP\_UP\_APPROVED CK\_BBOOL CK\_FALSE

#

# Certificate "QuoVadis Root CA 2 G3"

#

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

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

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

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

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

# Fingerprint (SHA-256):

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

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

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_CERTIFICATE

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "QuoVadis Root CA 2 G3"

CKA\_CERTIFICATE\_TYPE CK\_CERTIFICATE\_TYPE CKC\_X\_509

CKA\_SUBJECT MULTILINE\_OCTAL

\060\110\061\013\060\011\006\003\125\004\006\023\002\102\115\061  
\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144  
\151\163\040\114\151\155\151\164\145\144\061\036\060\034\006\003  
\125\004\003\023\025\121\165\157\126\141\144\151\163\040\122\157  
\157\164\040\103\101\040\062\040\107\063

END

CKA\_ID UTF8 "0"

CKA\_ISSUER MULTILINE\_OCTAL

\060\110\061\013\060\011\006\003\125\004\006\023\002\102\115\061  
\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144  
\151\163\040\114\151\155\151\164\145\144\061\036\060\034\006\003  
\125\004\003\023\025\121\165\157\126\141\144\151\163\040\122\157  
\157\164\040\103\101\040\062\040\107\063

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

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

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\005\140\060\202\003\110\240\003\002\001\002\002\024\104  
\127\064\044\133\201\211\233\065\362\316\270\053\073\133\247\046  
\360\165\050\060\015\006\011\052\206\110\206\367\015\001\001\013  
\005\000\060\110\061\013\060\011\006\003\125\004\006\023\002\102  
\115\061\031\060\027\006\003\125\004\012\023\020\121\165\157\126  
\141\144\151\163\040\114\151\155\151\164\145\144\061\036\060\034  
\006\003\125\004\003\023\025\121\165\157\126\141\144\151\163\040

\122\157\157\164\040\103\101\040\062\040\107\063\060\036\027\015  
\061\062\060\061\061\062\061\070\065\071\063\062\132\027\015\064  
\062\060\061\061\062\061\070\065\071\063\062\132\060\110\061\013  
\060\011\006\003\125\004\006\023\002\102\115\061\031\060\027\006  
\003\125\004\012\023\020\121\165\157\126\141\144\151\163\040\114  
\151\155\151\164\145\144\061\036\060\034\006\003\125\004\003\023  
\025\121\165\157\126\141\144\151\163\040\122\157\157\164\040\103  
\101\040\062\040\107\063\060\202\002\042\060\015\006\011\052\206  
\110\206\367\015\001\001\001\005\000\003\202\002\017\000\060\202  
\002\012\002\202\002\001\000\241\256\045\262\001\030\334\127\210  
\077\106\353\371\257\342\353\043\161\342\232\321\141\146\041\137  
\252\257\047\121\345\156\033\026\324\055\175\120\260\123\167\275  
\170\072\140\342\144\002\233\174\206\233\326\032\216\255\377\037  
\025\177\325\225\036\022\313\346\024\204\004\301\337\066\263\026  
\237\212\343\311\333\230\064\316\330\063\027\050\106\374\247\311  
\360\322\264\325\115\011\162\111\371\362\207\343\251\332\175\241  
\175\153\262\072\045\251\155\122\104\254\370\276\156\373\334\246  
\163\221\220\141\246\003\024\040\362\347\207\243\210\255\255\240  
\214\377\246\013\045\122\045\347\026\001\325\313\270\065\201\014  
\243\073\360\341\341\374\132\135\316\200\161\155\370\111\253\076  
\073\272\270\327\200\001\373\245\353\133\263\305\136\140\052\061  
\240\257\067\350\040\072\237\250\062\054\014\314\011\035\323\236  
\216\135\274\114\230\356\305\032\150\173\354\123\246\351\024\065  
\243\337\315\200\237\014\110\373\034\364\361\277\112\270\372\325  
\214\161\112\307\037\255\376\101\232\263\203\135\362\204\126\357  
\245\127\103\316\051\255\214\253\125\277\304\373\133\001\335\043  
\041\241\130\000\216\303\320\152\023\355\023\343\022\053\200\334  
\147\346\225\262\315\036\042\156\052\370\101\324\362\312\024\007  
\215\212\125\022\306\151\365\270\206\150\057\123\136\260\322\252  
\041\301\230\346\060\343\147\125\307\233\156\254\031\250\125\246  
\105\006\320\043\072\333\353\145\135\052\021\021\360\073\117\312  
\155\364\064\304\161\344\377\000\132\366\134\256\043\140\205\163  
\361\344\020\261\045\256\325\222\273\023\301\014\340\071\332\264  
\071\127\265\253\065\252\162\041\073\203\065\347\061\337\172\041  
\156\270\062\010\175\035\062\221\025\112\142\162\317\343\167\241  
\274\325\021\033\166\001\147\010\340\101\013\303\353\025\156\370  
\244\031\331\242\253\257\342\047\122\126\053\002\212\054\024\044  
\371\277\102\002\277\046\310\306\217\340\156\070\175\123\055\345  
\355\230\263\225\143\150\177\371\065\364\337\210\305\140\065\222  
\300\174\151\034\141\225\026\320\353\336\013\257\076\004\020\105  
\145\130\120\070\257\110\362\131\266\026\362\074\015\220\002\306  
\160\056\001\255\074\025\327\002\003\001\000\001\243\102\060\100  
\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001  
\377\060\016\006\003\125\035\017\001\001\377\004\004\003\002\001  
\006\060\035\006\003\125\035\016\004\026\004\024\355\347\157\166  
\132\277\140\354\111\133\306\245\167\273\162\026\161\233\304\075  
\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\003  
\202\002\001\000\221\337\200\077\103\011\176\161\302\367\353\263

\210\217\341\121\262\274\075\165\371\050\135\310\274\231\233\173  
\135\252\345\312\341\012\367\350\262\323\237\335\147\061\176\272  
\001\252\307\152\101\073\220\324\010\134\262\140\152\220\360\310  
\316\003\142\371\213\355\373\156\052\334\006\115\074\051\017\211  
\026\212\130\114\110\017\350\204\141\352\074\162\246\167\344\102  
\256\210\243\103\130\171\176\256\312\245\123\015\251\075\160\275  
\040\031\141\244\154\070\374\103\062\341\301\107\377\370\354\361  
\021\042\062\226\234\302\366\133\151\226\173\040\014\103\101\232  
\133\366\131\031\210\336\125\210\067\121\013\170\134\012\036\243  
\102\375\307\235\210\017\300\362\170\002\044\124\223\257\211\207  
\210\311\112\200\035\352\320\156\076\141\056\066\273\065\016\047  
\226\375\146\064\073\141\162\163\361\026\134\107\006\124\111\000  
\172\130\022\260\012\357\205\375\261\270\063\165\152\223\034\022  
\346\140\136\157\035\177\311\037\043\313\204\141\237\036\202\104  
\371\137\255\142\125\044\232\122\230\355\121\347\241\176\227\072  
\346\057\037\021\332\123\200\054\205\236\253\065\020\333\042\137  
\152\305\136\227\123\362\062\002\011\060\243\130\360\015\001\325  
\162\306\261\174\151\173\303\365\066\105\314\141\156\136\114\224  
\305\136\256\350\016\136\213\277\367\315\340\355\241\016\033\063  
\356\124\030\376\017\276\357\176\204\153\103\343\160\230\333\135  
\165\262\015\131\007\205\025\043\071\326\361\337\251\046\017\326  
\110\307\263\246\042\365\063\067\132\225\107\237\173\272\030\025  
\157\377\326\024\144\203\111\322\012\147\041\333\017\065\143\140  
\050\042\343\261\225\203\315\205\246\335\057\017\347\147\122\156  
\273\057\205\174\365\112\163\347\305\076\300\275\041\022\005\077  
\374\267\003\111\002\133\310\045\346\342\124\070\365\171\207\214  
\035\123\262\116\205\173\006\070\307\054\370\370\260\162\215\045  
\345\167\122\364\003\034\110\246\120\137\210\040\060\156\362\202  
\103\253\075\227\204\347\123\373\041\301\117\017\042\232\206\270  
\131\052\366\107\075\031\210\055\350\205\341\236\354\205\010\152  
\261\154\064\311\035\354\110\053\073\170\355\146\304\216\171\151  
\203\336\177\214

END

CKA\_NSS\_MOZILLA\_CA\_POLICY CK\_BBOOL CK\_TRUE  
CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE  
CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "QuoVadis Root CA 2 G3"

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

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

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

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

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

# Fingerprint (SHA-256):

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

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

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

```

CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "QuoVadis Root CA 2 G3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\011\074\141\363\213\213\334\175\125\337\165\070\002\005\000\341
\045\365\310\066
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\257\014\206\156\277\100\055\177\013\076\022\120\272\022\075\006
END
CKA_ISSUER MULTILINE_OCTAL
\060\110\061\013\060\011\006\003\125\004\006\023\002\102\115\061
\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144
\151\163\040\114\151\155\151\164\145\144\061\036\060\034\006\003
\125\004\003\023\025\121\165\157\126\141\144\151\163\040\122\157
\157\164\040\103\101\040\062\040\107\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\104\127\064\044\133\201\211\233\065\362\316\270\053\073
\133\247\046\360\165\050
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "QuoVadis Root CA 3 G3"
#
Issuer: CN=QuoVadis Root CA 3 G3,O=QuoVadis Limited,C=BM
Serial Number:2e:f5:9b:02:28:a7:db:7a:ff:d5:a3:a9:ee:bd:03:a0:cf:12:6a:1d
Subject: CN=QuoVadis Root CA 3 G3,O=QuoVadis Limited,C=BM
Not Valid Before: Thu Jan 12 20:26:32 2012
Not Valid After : Sun Jan 12 20:26:32 2042
Fingerprint (SHA-256):
88:EF:81:DE:20:2E:B0:18:45:2E:43:F8:64:72:5C:EA:5F:BD:1F:C2:D9:D2:05:73:07:09:C5:D8:B8:69:0F:46
Fingerprint (SHA1): 48:12:BD:92:3C:A8:C4:39:06:E7:30:6D:27:96:E6:A4:CF:22:2E:7D
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "QuoVadis Root CA 3 G3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\110\061\013\060\011\006\003\125\004\006\023\002\102\115\061
\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144
\151\163\040\114\151\155\151\164\145\144\061\036\060\034\006\003
\125\004\003\023\025\121\165\157\126\141\144\151\163\040\122\157

```



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

END

CKA\_ID UTF8 "0"

CKA\_ISSUER MULTILINE\_OCTAL

\060\110\061\013\060\011\006\003\125\004\006\023\002\102\115\061  
\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144  
\151\163\040\114\151\155\151\164\145\144\061\036\060\034\006\003  
\125\004\003\023\025\121\165\157\126\141\144\151\163\040\122\157  
\157\164\040\103\101\040\063\040\107\063

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

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

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\005\140\060\202\003\110\240\003\002\001\002\002\024\056  
\365\233\002\050\247\333\172\377\325\243\251\356\275\003\240\317  
\022\152\035\060\015\006\011\052\206\110\206\367\015\001\001\013  
\005\000\060\110\061\013\060\011\006\003\125\004\006\023\002\102  
\115\061\031\060\027\006\003\125\004\012\023\020\121\165\157\126  
\141\144\151\163\040\114\151\155\151\164\145\144\061\036\060\034  
\006\003\125\004\003\023\025\121\165\157\126\141\144\151\163\040  
\122\157\157\164\040\103\101\040\063\040\107\063\060\036\027\015  
\061\062\060\061\061\062\062\060\062\066\063\062\132\027\015\064  
\062\060\061\061\062\062\060\062\066\063\062\132\060\110\061\013  
\060\011\006\003\125\004\006\023\002\102\115\061\031\060\027\006  
\003\125\004\012\023\020\121\165\157\126\141\144\151\163\040\114  
\151\155\151\164\145\144\061\036\060\034\006\003\125\004\003\023  
\025\121\165\157\126\141\144\151\163\040\122\157\157\164\040\103  
\101\040\063\040\107\063\060\202\002\042\060\015\006\011\052\206  
\110\206\367\015\001\001\001\005\000\003\202\002\017\000\060\202  
\002\012\002\202\002\001\000\263\313\016\020\147\216\352\024\227  
\247\062\052\012\126\066\177\150\114\307\263\157\072\043\024\221  
\377\031\177\245\312\254\356\263\166\235\172\351\213\033\253\153  
\061\333\372\013\123\114\257\305\245\032\171\074\212\114\377\254  
\337\045\336\116\331\202\062\013\104\336\312\333\214\254\243\156  
\026\203\073\246\144\113\062\211\373\026\026\070\176\353\103\342  
\323\164\112\302\142\012\163\012\335\111\263\127\322\260\012\205  
\235\161\074\336\243\313\300\062\363\001\071\040\103\033\065\321  
\123\263\261\356\305\223\151\202\076\026\265\050\106\241\336\352  
\211\011\355\103\270\005\106\212\206\365\131\107\276\033\157\001  
\041\020\271\375\251\322\050\312\020\071\011\312\023\066\317\234  
\255\255\100\164\171\053\002\077\064\377\372\040\151\175\323\356  
\141\365\272\263\347\060\320\067\043\206\162\141\105\051\110\131  
\150\157\167\246\056\201\276\007\115\157\257\316\304\105\023\221  
\024\160\006\217\037\237\370\207\151\261\016\357\303\211\031\353  
\352\034\141\374\172\154\212\334\326\003\013\236\046\272\022\335  
\324\124\071\253\046\243\063\352\165\201\332\055\315\017\117\344

\003\321\357\025\227\033\153\220\305\002\220\223\146\002\041\261  
\107\336\213\232\112\200\271\125\217\265\242\057\300\326\063\147  
\332\176\304\247\264\004\104\353\107\373\346\130\271\367\014\360  
\173\053\261\300\160\051\303\100\142\055\073\110\151\334\043\074  
\110\353\173\011\171\251\155\332\250\060\230\317\200\162\003\210  
\246\133\106\256\162\171\174\010\003\041\145\256\267\341\034\245  
\261\052\242\061\336\146\004\367\300\164\350\161\336\377\075\131  
\314\226\046\022\213\205\225\127\032\253\153\165\013\104\075\021  
\050\074\173\141\267\342\217\147\117\345\354\074\114\140\200\151  
\127\070\036\001\133\215\125\350\307\337\300\314\167\043\064\111  
\165\174\366\230\021\353\055\336\355\101\056\024\005\002\177\340  
\376\040\353\065\347\021\254\042\316\127\075\336\311\060\155\020  
\003\205\315\361\377\214\026\265\301\262\076\210\154\140\177\220  
\117\225\367\366\055\255\001\071\007\004\372\165\200\175\277\111  
\120\355\357\311\304\174\034\353\200\176\333\266\320\335\023\376  
\311\323\234\327\262\227\251\002\003\001\000\001\243\102\060\100  
\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001  
\377\060\016\006\003\125\035\017\001\001\377\004\004\003\002\001  
\006\060\035\006\003\125\035\016\004\026\004\024\306\027\320\274  
\250\352\002\103\362\033\006\231\135\053\220\040\271\327\234\344  
\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\003  
\202\002\001\000\064\141\331\126\265\022\207\125\115\335\243\065  
\061\106\273\244\007\162\274\137\141\142\350\245\373\013\067\261  
\074\266\263\372\051\235\177\002\365\244\311\250\223\267\172\161  
\050\151\217\163\341\122\220\332\325\276\072\345\267\166\152\126  
\200\041\337\135\346\351\072\236\345\076\366\242\151\307\052\012  
\260\030\107\334\040\160\175\122\243\076\131\174\301\272\311\310  
\025\100\141\312\162\326\160\254\322\267\360\034\344\206\051\360  
\316\357\150\143\320\265\040\212\025\141\232\176\206\230\264\311  
\302\166\373\314\272\060\026\314\243\141\306\164\023\345\153\357  
\243\025\352\003\376\023\213\144\344\323\301\322\350\204\373\111  
\321\020\115\171\146\353\252\375\364\215\061\036\160\024\255\334  
\336\147\023\114\201\025\141\274\267\331\221\167\161\031\201\140  
\273\360\130\245\265\234\013\367\217\042\125\047\300\113\001\155  
\073\231\015\324\035\233\143\147\057\320\356\015\312\146\274\224  
\117\246\255\355\374\356\143\254\127\077\145\045\317\262\206\217  
\320\010\377\270\166\024\156\336\345\047\354\253\170\265\123\271  
\266\077\350\040\371\322\250\276\141\106\312\207\214\204\363\371  
\361\240\150\233\042\036\201\046\233\020\004\221\161\300\006\037  
\334\240\323\271\126\247\343\230\055\177\203\235\337\214\053\234  
\062\216\062\224\360\001\074\042\052\237\103\302\056\303\230\071  
\007\070\173\374\136\000\102\037\363\062\046\171\203\204\366\345  
\360\301\121\022\300\013\036\004\043\014\124\245\114\057\111\305  
\112\321\266\156\140\015\153\374\153\213\205\044\144\267\211\016  
\253\045\107\133\074\317\176\111\275\307\351\012\306\332\367\176  
\016\027\010\323\110\227\320\161\222\360\017\071\076\064\152\034  
\175\330\362\042\256\273\151\364\063\264\246\110\125\321\017\016  
\046\350\354\266\013\055\247\205\065\315\375\131\310\237\321\315

```
\076\132\051\064\271\075\204\316\261\145\324\131\221\221\126\165
\041\301\167\236\371\172\341\140\235\323\255\004\030\364\174\353
\136\223\217\123\112\042\051\370\110\053\076\115\206\254\133\177
\313\006\231\131\140\330\130\145\225\215\104\321\367\177\176\047
\177\175\256\200\365\007\114\266\076\234\161\124\231\004\113\375
\130\371\230\364
```

END

```
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRICT_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRICT_AFTER CK_BBOOL CK_FALSE
```

```
Trust for "QuoVadis Root CA 3 G3"
```

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

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

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

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

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

```
Fingerprint (SHA-256):
```

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

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

```
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
```

```
CKA_TOKEN CK_BBOOL CK_TRUE
```

```
CKA_PRIVATE CK_BBOOL CK_FALSE
```

```
CKA_MODIFIABLE CK_BBOOL CK_FALSE
```

```
CKA_LABEL UTF8 "QuoVadis Root CA 3 G3"
```

```
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
```

```
\110\022\275\222\074\250\304\071\006\347\060\155\047\226\346\244
\317\042\056\175
```

END

```
CKA_CERT_MD5_HASH MULTILINE_OCTAL
```

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

END

```
CKA_ISSUER MULTILINE_OCTAL
```

```
\060\110\061\013\060\011\006\003\125\004\006\023\002\102\115\061
\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144
\151\163\040\114\151\155\151\164\145\144\061\036\060\034\006\003
\125\004\003\023\025\121\165\157\126\141\144\151\163\040\122\157
\157\164\040\103\101\040\063\040\107\063
```

END

```
CKA_SERIAL_NUMBER MULTILINE_OCTAL
```

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

END

```
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
```

```
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
```

```
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
```

```
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
```

```
#
Certificate "DigiCert Assured ID Root G2"
#
Issuer: CN=DigiCert Assured ID Root G2,OU=www.digicert.com,O=DigiCert Inc,C=US
Serial Number:0b:93:1c:3a:d6:39:67:ea:67:23:bf:c3:af:9a:f4:4b
Subject: CN=DigiCert Assured ID Root G2,OU=www.digicert.com,O=DigiCert Inc,C=US
Not Valid Before: Thu Aug 01 12:00:00 2013
Not Valid After : Fri Jan 15 12:00:00 2038
Fingerprint (SHA-256):
7D:05:EB:B6:82:33:9F:8C:94:51:EE:09:4E:EB:FE:FA:79:53:A1:14:ED:B2:F4:49:49:45:2F:AB:7D:2F:C1:85
Fingerprint (SHA1): A1:4B:48:D9:43:EE:0A:0E:40:90:4F:3C:E0:A4:C0:91:93:51:5D:3F
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Assured ID Root G2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\145\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\044\060\042\006\003\125\004\003\023\033\104\151\147\151
\103\145\162\164\040\101\163\163\165\162\145\144\040\111\104\040
\122\157\157\164\040\107\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\145\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\044\060\042\006\003\125\004\003\023\033\104\151\147\151
\103\145\162\164\040\101\163\163\165\162\145\144\040\111\104\040
\122\157\157\164\040\107\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\013\223\034\072\326\071\147\352\147\043\277\303\257\232
\364\113
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\226\060\202\002\176\240\003\002\001\002\002\020\013
\223\034\072\326\071\147\352\147\043\277\303\257\232\364\113\060
\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060\145
\061\013\060\011\006\003\125\004\006\023\002\125\123\061\025\060
\023\006\003\125\004\012\023\014\104\151\147\151\103\145\162\164
\040\111\156\143\061\031\060\027\006\003\125\004\013\023\020\167
\167\167\056\144\151\147\151\143\145\162\164\056\143\157\155\061
```

\044\060\042\006\003\125\004\003\023\033\104\151\147\151\103\145  
\162\164\040\101\163\163\165\162\145\144\040\111\104\040\122\157  
\157\164\040\107\062\060\036\027\015\061\063\060\070\060\061\061  
\062\060\060\060\060\132\027\015\063\070\060\061\061\065\061\062  
\060\060\060\060\132\060\145\061\013\060\011\006\003\125\004\006  
\023\002\125\123\061\025\060\023\006\003\125\004\012\023\014\104  
\151\147\151\103\145\162\164\040\111\156\143\061\031\060\027\006  
\003\125\004\013\023\020\167\167\167\056\144\151\147\151\143\145  
\162\164\056\143\157\155\061\044\060\042\006\003\125\004\003\023  
\033\104\151\147\151\103\145\162\164\040\101\163\163\165\162\145  
\144\040\111\104\040\122\157\157\164\040\107\062\060\202\001\042  
\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003  
\202\001\017\000\060\202\001\012\002\202\001\001\000\331\347\050  
\057\122\077\066\162\111\210\223\064\363\370\152\036\061\124\200  
\237\255\124\101\265\107\337\226\250\324\257\200\055\271\012\317  
\165\375\211\245\175\044\372\343\042\014\053\274\225\027\013\063  
\277\031\115\101\006\220\000\275\014\115\020\376\007\265\347\034  
\156\042\125\061\145\227\275\323\027\322\036\142\363\333\352\154  
\120\214\077\204\014\226\317\267\313\003\340\312\155\241\024\114  
\033\211\335\355\000\260\122\174\257\221\154\261\070\023\321\351  
\022\010\300\000\260\034\053\021\332\167\160\066\233\256\316\171  
\207\334\202\160\346\011\164\160\125\151\257\243\150\237\277\335  
\266\171\263\362\235\160\051\125\364\253\377\225\141\363\311\100  
\157\035\321\276\223\273\323\210\052\273\235\277\162\132\126\161  
\073\077\324\363\321\012\376\050\357\243\356\331\231\257\003\323  
\217\140\267\362\222\241\261\275\211\211\037\060\315\303\246\056  
\142\063\256\026\002\167\104\132\347\201\012\074\247\104\056\171  
\270\077\004\274\134\240\207\341\033\257\121\216\315\354\054\372  
\370\376\155\360\072\174\252\213\344\147\225\061\215\002\003\001  
\000\001\243\102\060\100\060\017\006\003\125\035\023\001\001\377  
\004\005\060\003\001\001\377\060\016\006\003\125\035\017\001\001  
\377\004\004\003\002\001\206\060\035\006\003\125\035\016\004\026  
\004\024\316\303\112\271\231\125\362\270\333\140\277\251\176\275  
\126\265\227\066\247\326\060\015\006\011\052\206\110\206\367\015  
\001\001\013\005\000\003\202\001\001\000\312\245\125\214\343\310  
\101\156\151\047\247\165\021\357\074\206\066\157\322\235\306\170  
\070\035\151\226\242\222\151\056\070\154\233\175\004\324\211\245  
\261\061\067\212\311\041\314\253\154\315\213\034\232\326\277\110  
\322\062\146\301\212\300\363\057\072\357\300\343\324\221\206\321  
\120\343\003\333\163\167\157\112\071\123\355\336\046\307\265\175  
\257\053\102\321\165\142\343\112\053\002\307\120\113\340\151\342  
\226\154\016\104\146\020\104\217\255\005\353\370\171\254\246\033  
\350\067\064\235\123\311\141\252\242\122\257\112\160\026\206\302  
\072\310\261\023\160\066\330\317\356\364\012\064\325\133\114\375  
\007\234\242\272\331\001\162\134\363\115\301\335\016\261\034\015  
\304\143\276\255\364\024\373\211\354\242\101\016\114\314\310\127  
\100\320\156\003\252\315\014\216\211\231\231\154\360\074\060\257  
\070\337\157\274\243\276\051\040\047\253\164\377\023\042\170\336

```
\227\122\125\036\203\265\124\040\003\356\256\300\117\126\336\067
\314\303\177\252\004\047\273\323\167\270\142\333\027\174\234\050
\042\023\163\154\317\046\365\212\051\347
```

END

```
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRICT_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRICT_AFTER CK_BBOOL CK_FALSE
```

# Trust for "DigiCert Assured ID Root G2"

# Issuer: CN=DigiCert Assured ID Root G2,OU=www.digicert.com,O=DigiCert Inc,C=US

# Serial Number:0b:93:1c:3a:d6:39:67:ea:67:23:bf:c3:af:9a:f4:4b

# Subject: CN=DigiCert Assured ID Root G2,OU=www.digicert.com,O=DigiCert Inc,C=US

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

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

# Fingerprint (SHA-256):

7D:05:EB:B6:82:33:9F:8C:94:51:EE:09:4E:EB:FE:FA:79:53:A1:14:ED:B2:F4:49:49:45:2F:AB:7D:2F:C1:85

# Fingerprint (SHA1): A1:4B:48:D9:43:EE:0A:0E:40:90:4F:3C:E0:A4:C0:91:93:51:5D:3F

```
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
```

```
CKA_TOKEN CK_BBOOL CK_TRUE
```

```
CKA_PRIVATE CK_BBOOL CK_FALSE
```

```
CKA_MODIFIABLE CK_BBOOL CK_FALSE
```

```
CKA_LABEL UTF8 "DigiCert Assured ID Root G2"
```

```
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
```

```
\241\113\110\331\103\356\012\016\100\220\117\074\340\244\300\221
\223\121\135\077
```

END

```
CKA_CERT_MD5_HASH MULTILINE_OCTAL
```

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

END

```
CKA_ISSUER MULTILINE_OCTAL
```

```
\060\145\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\044\060\042\006\003\125\004\003\023\033\104\151\147\151
\103\145\162\164\040\101\163\163\165\162\145\144\040\111\104\040
\122\157\157\164\040\107\062
```

END

```
CKA_SERIAL_NUMBER MULTILINE_OCTAL
```

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

END

```
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
```

```
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
```

```
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
```

```
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
```

#

```

Certificate "DigiCert Assured ID Root G3"
#
Issuer: CN=DigiCert Assured ID Root G3,OU=www.digicert.com,O=DigiCert Inc,C=US
Serial Number:0b:a1:5a:fa:1d:df:a0:b5:49:44:af:cd:24:a0:6c:ec
Subject: CN=DigiCert Assured ID Root G3,OU=www.digicert.com,O=DigiCert Inc,C=US
Not Valid Before: Thu Aug 01 12:00:00 2013
Not Valid After : Fri Jan 15 12:00:00 2038
Fingerprint (SHA-256):
7E:37:CB:8B:4C:47:09:0C:AB:36:55:1B:A6:F4:5D:B8:40:68:0F:BA:16:6A:95:2D:B1:00:71:7F:43:05:3F:C2
Fingerprint (SHA1): F5:17:A2:4F:9A:48:C6:C9:F8:A2:00:26:9F:DC:0F:48:2C:AB:30:89
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Assured ID Root G3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\145\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\044\060\042\006\003\125\004\003\023\033\104\151\147\151
\103\145\162\164\040\101\163\163\165\162\145\144\040\111\104\040
\122\157\157\164\040\107\063
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\145\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\044\060\042\006\003\125\004\003\023\033\104\151\147\151
\103\145\162\164\040\101\163\163\165\162\145\144\040\111\104\040
\122\157\157\164\040\107\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\013\241\132\372\035\337\240\265\111\104\257\315\044\240
\154\354
END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\106\060\202\001\315\240\003\002\001\002\002\020\013
\241\132\372\035\337\240\265\111\104\257\315\044\240\154\354\060
\012\006\010\052\206\110\316\075\004\003\003\060\145\061\013\060
\011\006\003\125\004\006\023\002\125\123\061\025\060\023\006\003
\125\004\012\023\014\104\151\147\151\103\145\162\164\040\111\156
\143\061\031\060\027\006\003\125\004\013\023\020\167\167\167\056
\144\151\147\151\143\145\162\164\056\143\157\155\061\044\060\042
\006\003\125\004\003\023\033\104\151\147\151\103\145\162\164\040

```

\101\163\163\165\162\145\144\040\111\104\040\122\157\157\164\040  
\107\063\060\036\027\015\061\063\060\070\060\061\061\062\060\060  
\060\060\132\027\015\063\070\060\061\061\065\061\062\060\060\060  
\060\132\060\145\061\013\060\011\006\003\125\004\006\023\002\125  
\123\061\025\060\023\006\003\125\004\012\023\014\104\151\147\151  
\103\145\162\164\040\111\156\143\061\031\060\027\006\003\125\004  
\013\023\020\167\167\167\056\144\151\147\151\143\145\162\164\056  
\143\157\155\061\044\060\042\006\003\125\004\003\023\033\104\151  
\147\151\103\145\162\164\040\101\163\163\165\162\145\144\040\111  
\104\040\122\157\157\164\040\107\063\060\166\060\020\006\007\052  
\206\110\316\075\002\001\006\005\053\201\004\000\042\003\142\000  
\004\031\347\274\254\104\145\355\315\270\077\130\373\215\261\127  
\251\104\055\005\025\362\357\013\377\020\164\237\265\142\122\137  
\146\176\037\345\334\033\105\171\013\314\306\123\012\235\215\135  
\002\331\251\131\336\002\132\366\225\052\016\215\070\112\212\111  
\306\274\306\003\070\007\137\125\332\176\011\156\342\177\136\320  
\105\040\017\131\166\020\326\240\044\360\055\336\066\362\154\051  
\071\243\102\060\100\060\017\006\003\125\035\023\001\001\377\004  
\005\060\003\001\001\377\060\016\006\003\125\035\017\001\001\377  
\004\004\003\002\001\206\060\035\006\003\125\035\016\004\026\004  
\024\313\320\275\251\341\230\005\121\241\115\067\242\203\171\316  
\215\035\052\344\204\060\012\006\010\052\206\110\316\075\004\003  
\003\003\147\000\060\144\002\060\045\244\201\105\002\153\022\113  
\165\164\117\310\043\343\160\362\165\162\336\174\211\360\317\221  
\162\141\236\136\020\222\131\126\271\203\307\020\347\070\351\130  
\046\066\175\325\344\064\206\071\002\060\174\066\123\360\060\345  
\142\143\072\231\342\266\243\073\233\064\372\036\332\020\222\161  
\136\221\023\247\335\244\156\222\314\062\326\365\041\146\307\057  
\352\226\143\152\145\105\222\225\001\264

END

CKA\_NSS\_MOZILLA\_CA\_POLICY CK\_BBOOL CK\_TRUE  
CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE  
CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "DigiCert Assured ID Root G3"

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

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

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

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

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

# Fingerprint (SHA-256):

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

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

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "DigiCert Assured ID Root G3"



CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL  
\365\027\242\117\232\110\306\311\370\242\000\046\237\334\017\110  
\054\253\060\211

END

CKA\_CERT\_MD5\_HASH MULTILINE\_OCTAL  
\174\177\145\061\014\201\337\215\272\076\231\342\134\255\156\373

END

CKA\_ISSUER MULTILINE\_OCTAL  
\060\145\061\013\060\011\006\003\125\004\006\023\002\125\123\061  
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145  
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023  
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157  
\155\061\044\060\042\006\003\125\004\003\023\033\104\151\147\151  
\103\145\162\164\040\101\163\163\165\162\145\144\040\111\104\040  
\122\157\157\164\040\107\063

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL  
\002\020\013\241\132\372\035\337\240\265\111\104\257\315\044\240  
\154\354

END

CKA\_TRUST\_SERVER\_AUTH CK\_TRUST CKT\_NSS\_TRUSTED\_DELEGATOR  
CKA\_TRUST\_EMAIL\_PROTECTION CK\_TRUST CKT\_NSS\_TRUSTED\_DELEGATOR  
CKA\_TRUST\_CODE\_SIGNING CK\_TRUST CKT\_NSS\_MUST\_VERIFY\_TRUST  
CKA\_TRUST\_STEP\_UP\_APPROVED CK\_BBOOL CK\_FALSE

#

# Certificate "DigiCert Global Root G2"

#

# Issuer: CN=DigiCert Global Root G2,OU=www.digicert.com,O=DigiCert Inc,C=US

# Serial Number:03:3a:f1:e6:a7:11:a9:a0:bb:28:64:b1:1d:09:fa:e5

# Subject: CN=DigiCert Global Root G2,OU=www.digicert.com,O=DigiCert Inc,C=US

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

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

# Fingerprint (SHA-256):

CB:3C:CB:B7:60:31:E5:E0:13:8F:8D:D3:9A:23:F9:DE:47:FF:C3:5E:43:C1:14:4C:EA:27:D4:6A:5A:B1:CB:5F

# Fingerprint (SHA1): DF:3C:24:F9:BF:D6:66:76:1B:26:80:73:FE:06:D1:CC:8D:4F:82:A4

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_CERTIFICATE

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "DigiCert Global Root G2"

CKA\_CERTIFICATE\_TYPE CK\_CERTIFICATE\_TYPE CKC\_X\_509

CKA\_SUBJECT MULTILINE\_OCTAL  
\060\141\061\013\060\011\006\003\125\004\006\023\002\125\123\061  
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145  
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023  
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157  
\155\061\040\060\036\006\003\125\004\003\023\027\104\151\147\151

\103\145\162\164\040\107\154\157\142\141\154\040\122\157\157\164  
\040\107\062

END

CKA\_ID UTF8 "0"

CKA\_ISSUER MULTILINE\_OCTAL

\060\141\061\013\060\011\006\003\125\004\006\023\002\125\123\061  
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145  
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023  
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157  
\155\061\040\060\036\006\003\125\004\003\023\027\104\151\147\151  
\103\145\162\164\040\107\154\157\142\141\154\040\122\157\157\164  
\040\107\062

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

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

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\003\216\060\202\002\166\240\003\002\001\002\002\020\003  
\072\361\346\247\021\251\240\273\050\144\261\035\011\372\345\060  
\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060\141  
\061\013\060\011\006\003\125\004\006\023\002\125\123\061\025\060  
\023\006\003\125\004\012\023\014\104\151\147\151\103\145\162\164  
\040\111\156\143\061\031\060\027\006\003\125\004\013\023\020\167  
\167\167\056\144\151\147\151\143\145\162\164\056\143\157\155\061  
\040\060\036\006\003\125\004\003\023\027\104\151\147\151\103\145  
\162\164\040\107\154\157\142\141\154\040\122\157\157\164\040\107  
\062\060\036\027\015\061\063\060\070\060\061\061\062\060\060\060  
\060\132\027\015\063\070\060\061\061\065\061\062\060\060\060\060  
\132\060\141\061\013\060\011\006\003\125\004\006\023\002\125\123  
\061\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103  
\145\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013  
\023\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143  
\157\155\061\040\060\036\006\003\125\004\003\023\027\104\151\147  
\151\103\145\162\164\040\107\154\157\142\141\154\040\122\157\157  
\164\040\107\062\060\202\001\042\060\015\006\011\052\206\110\206  
\367\015\001\001\001\005\000\003\202\001\017\000\060\202\001\012  
\002\202\001\001\000\273\067\315\064\334\173\153\311\262\150\220  
\255\112\165\377\106\272\041\012\010\215\365\031\124\311\373\210  
\333\363\256\362\072\211\221\074\172\346\253\006\032\153\317\254  
\055\350\136\011\044\104\272\142\232\176\326\243\250\176\340\124  
\165\040\005\254\120\267\234\143\032\154\060\334\332\037\031\261  
\327\036\336\375\327\340\313\224\203\067\256\354\037\103\116\335  
\173\054\322\275\056\245\057\344\251\270\255\072\324\231\244\266  
\045\351\233\153\000\140\222\140\377\117\041\111\030\367\147\220  
\253\141\006\234\217\362\272\351\264\351\222\062\153\265\363\127  
\350\135\033\315\214\035\253\225\004\225\111\363\065\055\226\343  
\111\155\335\167\343\373\111\113\264\254\125\007\251\217\225\263

\264\043\273\114\155\105\360\366\251\262\225\060\264\375\114\125  
\214\047\112\127\024\174\202\235\315\163\222\323\026\112\006\014  
\214\120\321\217\036\011\276\027\241\346\041\312\375\203\345\020  
\274\203\245\012\304\147\050\366\163\024\024\075\106\166\303\207  
\024\211\041\064\115\257\017\105\014\246\111\241\272\273\234\305  
\261\063\203\051\205\002\003\001\000\001\243\102\060\100\060\017  
\006\003\125\035\023\001\001\377\004\005\060\003\001\001\377\060  
\016\006\003\125\035\017\001\001\377\004\004\003\002\001\206\060  
\035\006\003\125\035\016\004\026\004\024\116\042\124\040\030\225  
\346\343\156\346\017\372\372\271\022\355\006\027\217\071\060\015  
\006\011\052\206\110\206\367\015\001\001\013\005\000\003\202\001  
\001\000\140\147\050\224\157\016\110\143\353\061\335\352\147\030  
\325\211\175\074\305\213\112\177\351\276\333\053\027\337\260\137  
\163\167\052\062\023\071\201\147\102\204\043\362\105\147\065\354  
\210\277\370\217\260\141\014\064\244\256\040\114\204\306\333\370  
\065\341\166\331\337\246\102\273\307\104\010\206\177\066\164\044  
\132\332\154\015\024\131\065\275\362\111\335\266\037\311\263\015  
\107\052\075\231\057\273\134\273\265\324\040\341\231\137\123\106  
\025\333\150\233\360\363\060\325\076\061\342\215\204\236\343\212  
\332\332\226\076\065\023\245\137\360\371\160\120\160\107\101\021  
\127\031\116\300\217\256\006\304\225\023\027\057\033\045\237\165  
\362\261\216\231\241\157\023\261\101\161\376\210\052\310\117\020  
\040\125\327\363\024\105\345\340\104\364\352\207\225\062\223\016  
\376\123\106\372\054\235\377\213\042\271\113\331\011\105\244\336  
\244\270\232\130\335\033\175\122\237\216\131\103\210\201\244\236  
\046\325\157\255\335\015\306\067\175\355\003\222\033\345\167\137  
\166\356\074\215\304\135\126\133\242\331\146\156\263\065\067\345  
\062\266

END

CKA\_NSS\_MOZILLA\_CA\_POLICY CK\_BBOOL CK\_TRUE  
CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE  
CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "DigiCert Global Root G2"

# Issuer: CN=DigiCert Global Root G2,OU=www.digicert.com,O=DigiCert Inc,C=US

# Serial Number:03:3a:f1:e6:a7:11:a9:a0:bb:28:64:b1:1d:09:fa:e5

# Subject: CN=DigiCert Global Root G2,OU=www.digicert.com,O=DigiCert Inc,C=US

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

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

# Fingerprint (SHA-256):

CB:3C:CB:B7:60:31:E5:E0:13:8F:8D:D3:9A:23:F9:DE:47:FF:C3:5E:43:C1:14:4C:EA:27:D4:6A:5A:B1:CB:5F

# Fingerprint (SHA1): DF:3C:24:F9:BF:D6:66:76:1B:26:80:73:FE:06:D1:CC:8D:4F:82:A4

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "DigiCert Global Root G2"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

\337\074\044\371\277\326\146\166\033\046\200\163\376\006\321\314  
\215\117\202\244

END

CKA\_CERT\_MD5\_HASH MULTILINE\_OCTAL

\344\246\212\310\124\254\122\102\106\012\375\162\110\033\052\104  
END

CKA\_ISSUER MULTILINE\_OCTAL

\060\141\061\013\060\011\006\003\125\004\006\023\002\125\123\061  
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145  
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023  
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157  
\155\061\040\060\036\006\003\125\004\003\023\027\104\151\147\151  
\103\145\162\164\040\107\154\157\142\141\154\040\122\157\157\164  
\040\107\062

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

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

END

CKA\_TRUST\_SERVER\_AUTH CK\_TRUST CKT\_NSS\_TRUSTED\_DELEGATOR

CKA\_TRUST\_EMAIL\_PROTECTION CK\_TRUST CKT\_NSS\_TRUSTED\_DELEGATOR

CKA\_TRUST\_CODE\_SIGNING CK\_TRUST CKT\_NSS\_MUST\_VERIFY\_TRUST

CKA\_TRUST\_STEP\_UP\_APPROVED CK\_BBOOL CK\_FALSE

#

# Certificate "DigiCert Global Root G3"

#

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

# Serial Number:05:55:56:bc:f2:5e:a4:35:35:c3:a4:0f:d5:ab:45:72

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

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

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

# Fingerprint (SHA-256):

31:AD:66:48:F8:10:41:38:C7:38:F3:9E:A4:32:01:33:39:3E:3A:18:CC:02:29:6E:F9:7C:2A:C9:EF:67:31:D0

# Fingerprint (SHA1): 7E:04:DE:89:6A:3E:66:6D:00:E6:87:D3:3F:FA:D9:3B:E8:3D:34:9E

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_CERTIFICATE

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "DigiCert Global Root G3"

CKA\_CERTIFICATE\_TYPE CK\_CERTIFICATE\_TYPE CKC\_X\_509

CKA\_SUBJECT MULTILINE\_OCTAL

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

\040\107\063

END

CKA\_ID UTF8 "0"

CKA\_ISSUER MULTILINE\_OCTAL

\060\141\061\013\060\011\006\003\125\004\006\023\002\125\123\061  
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145  
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023  
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157  
\155\061\040\060\036\006\003\125\004\003\023\027\104\151\147\151  
\103\145\162\164\040\107\154\157\142\141\154\040\122\157\157\164  
\040\107\063

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

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

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\002\077\060\202\001\305\240\003\002\001\002\002\020\005  
\125\126\274\362\136\244\065\065\303\244\017\325\253\105\162\060  
\012\006\010\052\206\110\316\075\004\003\003\060\141\061\013\060  
\011\006\003\125\004\006\023\002\125\123\061\025\060\023\006\003  
\125\004\012\023\014\104\151\147\151\103\145\162\164\040\111\156  
\143\061\031\060\027\006\003\125\004\013\023\020\167\167\167\056  
\144\151\147\151\143\145\162\164\056\143\157\155\061\040\060\036  
\006\003\125\004\003\023\027\104\151\147\151\103\145\162\164\040  
\107\154\157\142\141\154\040\122\157\157\164\040\107\063\060\036  
\027\015\061\063\060\070\060\061\061\062\060\060\060\060\132\027  
\015\063\070\060\061\061\065\061\062\060\060\060\060\132\060\141  
\061\013\060\011\006\003\125\004\006\023\002\125\123\061\025\060  
\023\006\003\125\004\012\023\014\104\151\147\151\103\145\162\164  
\040\111\156\143\061\031\060\027\006\003\125\004\013\023\020\167  
\167\167\056\144\151\147\151\143\145\162\164\056\143\157\155\061  
\040\060\036\006\003\125\004\003\023\027\104\151\147\151\103\145  
\162\164\040\107\154\157\142\141\154\040\122\157\157\164\040\107  
\063\060\166\060\020\006\007\052\206\110\316\075\002\001\006\005  
\053\201\004\000\042\003\142\000\004\335\247\331\273\212\270\013  
\373\013\177\041\322\360\276\276\163\363\063\135\032\274\064\352  
\336\306\233\274\320\225\366\360\314\320\013\272\141\133\121\106  
\176\236\055\237\356\216\143\014\027\354\007\160\365\317\204\056  
\100\203\234\350\077\101\155\073\255\323\244\024\131\066\170\235  
\003\103\356\020\023\154\162\336\256\210\247\241\153\265\103\316  
\147\334\043\377\003\034\243\342\076\243\102\060\100\060\017\006  
\003\125\035\023\001\001\377\004\005\060\003\001\001\377\060\016  
\006\003\125\035\017\001\001\377\004\004\003\002\001\206\060\035  
\006\003\125\035\016\004\026\004\024\263\333\110\244\371\241\305  
\330\256\066\101\314\021\143\151\142\051\274\113\306\060\012\006  
\010\052\206\110\316\075\004\003\003\003\150\000\060\145\002\061  
\000\255\274\362\154\077\022\112\321\055\071\303\012\011\227\163

```
\364\210\066\214\210\047\273\346\210\215\120\205\247\143\371\236
\062\336\146\223\017\361\314\261\011\217\335\154\253\372\153\177
\240\002\060\071\146\133\302\144\215\270\236\120\334\250\325\111
\242\355\307\334\321\111\177\027\001\270\310\206\217\116\214\210
\053\250\232\251\212\305\321\000\275\370\124\342\232\345\133\174
\263\047\027
```

END

```
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRICT_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRICT_AFTER CK_BBOOL CK_FALSE
```

# Trust for "DigiCert Global Root G3"

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

# Serial Number:05:55:56:bc:f2:5e:a4:35:35:c3:a4:0f:d5:ab:45:72

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

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

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

# Fingerprint (SHA-256):

31:AD:66:48:F8:10:41:38:C7:38:F3:9E:A4:32:01:33:39:3E:3A:18:CC:02:29:6E:F9:7C:2A:C9:EF:67:31:D0

# Fingerprint (SHA1): 7E:04:DE:89:6A:3E:66:6D:00:E6:87:D3:3F:FA:D9:3B:E8:3D:34:9E

```
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
```

```
CKA_TOKEN CK_BBOOL CK_TRUE
```

```
CKA_PRIVATE CK_BBOOL CK_FALSE
```

```
CKA_MODIFIABLE CK_BBOOL CK_FALSE
```

```
CKA_LABEL UTF8 "DigiCert Global Root G3"
```

```
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
```

```
\176\004\336\211\152\076\146\155\000\346\207\323\077\372\331\073
\350\075\064\236
```

END

```
CKA_CERT_MD5_HASH MULTILINE_OCTAL
```

```
\365\135\244\120\245\373\050\176\036\017\015\314\226\127\126\312
```

END

```
CKA_ISSUER MULTILINE_OCTAL
```

```
\060\141\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\040\060\036\006\003\125\004\003\023\027\104\151\147\151
\103\145\162\164\040\107\154\157\142\141\154\040\122\157\157\164
\040\107\063
```

END

```
CKA_SERIAL_NUMBER MULTILINE_OCTAL
```

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

END

```
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
```

```
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
```

```
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
```

CKA\_TRUST\_STEP\_UP\_APPROVED CK\_BBOOL CK\_FALSE

#

# Certificate "DigiCert Trusted Root G4"

#

# Issuer: CN=DigiCert Trusted Root G4,OU=www.digicert.com,O=DigiCert Inc,C=US

# Serial Number:05:9b:1b:57:9e:8e:21:32:e2:39:07:bd:a7:77:75:5c

# Subject: CN=DigiCert Trusted Root G4,OU=www.digicert.com,O=DigiCert Inc,C=US

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

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

# Fingerprint (SHA-256):

55:2F:7B:DC:F1:A7:AF:9E:6C:E6:72:01:7F:4F:12:AB:F7:72:40:C7:8E:76:1A:C2:03:D1:D9:D2:0A:C8:99:88

# Fingerprint (SHA1): DD:FB:16:CD:49:31:C9:73:A2:03:7D:3F:C8:3A:4D:7D:77:5D:05:E4

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_CERTIFICATE

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "DigiCert Trusted Root G4"

CKA\_CERTIFICATE\_TYPE CK\_CERTIFICATE\_TYPE CKC\_X\_509

CKA\_SUBJECT MULTILINE\_OCTAL

\060\142\061\013\060\011\006\003\125\004\006\023\002\125\123\061  
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145  
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023  
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157  
\155\061\041\060\037\006\003\125\004\003\023\030\104\151\147\151  
\103\145\162\164\040\124\162\165\163\164\145\144\040\122\157\157  
\164\040\107\064

END

CKA\_ID UTF8 "0"

CKA\_ISSUER MULTILINE\_OCTAL

\060\142\061\013\060\011\006\003\125\004\006\023\002\125\123\061  
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145  
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023  
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157  
\155\061\041\060\037\006\003\125\004\003\023\030\104\151\147\151  
\103\145\162\164\040\124\162\165\163\164\145\144\040\122\157\157  
\164\040\107\064

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

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

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\005\220\060\202\003\170\240\003\002\001\002\002\020\005  
\233\033\127\236\216\041\062\342\071\007\275\247\167\165\134\060  
\015\006\011\052\206\110\206\367\015\001\001\014\005\000\060\142  
\061\013\060\011\006\003\125\004\006\023\002\125\123\061\025\060  
\023\006\003\125\004\012\023\014\104\151\147\151\103\145\162\164

\040\111\156\143\061\031\060\027\006\003\125\004\013\023\020\167  
\167\167\056\144\151\147\151\143\145\162\164\056\143\157\155\061  
\041\060\037\006\003\125\004\003\023\030\104\151\147\151\103\145  
\162\164\040\124\162\165\163\164\145\144\040\122\157\157\164\040  
\107\064\060\036\027\015\061\063\060\070\060\061\061\062\060\060  
\060\060\132\027\015\063\070\060\061\061\065\061\062\060\060\060  
\060\132\060\142\061\013\060\011\006\003\125\004\006\023\002\125  
\123\061\025\060\023\006\003\125\004\012\023\014\104\151\147\151  
\103\145\162\164\040\111\156\143\061\031\060\027\006\003\125\004  
\013\023\020\167\167\167\056\144\151\147\151\143\145\162\164\056  
\143\157\155\061\041\060\037\006\003\125\004\003\023\030\104\151  
\147\151\103\145\162\164\040\124\162\165\163\164\145\144\040\122  
\157\157\164\040\107\064\060\202\002\042\060\015\006\011\052\206  
\110\206\367\015\001\001\001\005\000\003\202\002\017\000\060\202  
\002\012\002\202\002\001\000\277\346\220\163\150\336\273\344\135  
\112\074\060\042\060\151\063\354\302\247\045\056\311\041\075\362  
\212\330\131\302\341\051\247\075\130\253\166\232\315\256\173\033  
\204\015\304\060\037\363\033\244\070\026\353\126\306\227\155\035  
\253\262\171\362\312\021\322\344\137\326\005\074\122\017\122\037  
\306\236\025\245\176\276\237\251\127\026\131\125\162\257\150\223  
\160\302\262\272\165\231\152\163\062\224\321\020\104\020\056\337  
\202\363\007\204\346\164\073\155\161\342\055\014\033\356\040\325  
\311\040\035\143\051\055\316\354\136\116\310\223\370\041\141\233  
\064\353\005\306\136\354\133\032\274\353\311\317\315\254\064\100  
\137\261\172\146\356\167\310\110\250\146\127\127\237\124\130\216  
\014\053\267\117\247\060\331\126\356\312\173\135\343\255\311\117  
\136\345\065\347\061\313\332\223\136\334\216\217\200\332\266\221  
\230\100\220\171\303\170\307\266\261\304\265\152\030\070\003\020  
\215\330\324\067\244\056\005\175\210\365\202\076\020\221\160\253  
\125\202\101\062\327\333\004\163\052\156\221\001\174\041\114\324  
\274\256\033\003\165\135\170\146\331\072\061\104\232\063\100\277  
\010\327\132\111\244\302\346\251\240\147\335\244\047\274\241\117  
\071\265\021\130\027\367\044\134\106\217\144\367\301\151\210\166  
\230\166\075\131\135\102\166\207\211\227\151\172\110\360\340\242  
\022\033\146\232\164\312\336\113\036\347\016\143\256\346\324\357  
\222\222\072\236\075\334\000\344\105\045\211\266\232\104\031\053  
\176\300\224\264\322\141\155\353\063\331\305\337\113\004\000\314  
\175\034\225\303\217\367\041\262\262\021\267\273\177\362\325\214  
\160\054\101\140\252\261\143\030\104\225\032\166\142\176\366\200  
\260\373\350\144\246\063\321\211\007\341\275\267\346\103\244\030  
\270\246\167\001\341\017\224\014\041\035\262\124\051\045\211\154  
\345\016\122\121\107\164\276\046\254\266\101\165\336\172\254\137  
\215\077\311\274\323\101\021\022\133\345\020\120\353\061\305\312  
\162\026\042\011\337\174\114\165\077\143\354\041\137\304\040\121  
\153\157\261\253\206\213\117\302\326\105\137\235\040\374\241\036  
\305\300\217\242\261\176\012\046\231\365\344\151\057\230\035\055  
\365\331\251\262\035\345\033\002\003\001\000\001\243\102\060\100  
\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001



\377\060\016\006\003\125\035\017\001\001\377\004\004\003\002\001  
\206\060\035\006\003\125\035\016\004\026\004\024\354\327\343\202  
\322\161\135\144\114\337\056\147\077\347\272\230\256\034\017\117  
\060\015\006\011\052\206\110\206\367\015\001\001\014\005\000\003  
\202\002\001\000\273\141\331\175\251\154\276\027\304\221\033\303  
\241\242\000\215\343\144\150\017\126\317\167\256\160\371\375\232  
\112\231\271\311\170\134\014\014\137\344\346\024\051\126\013\066  
\111\135\104\143\340\255\234\226\030\146\033\043\015\075\171\351  
\155\153\326\124\370\322\074\301\103\100\256\035\120\365\122\374  
\220\073\273\230\231\151\153\307\301\247\250\150\244\047\334\235  
\371\047\256\060\205\271\366\147\115\072\076\217\131\071\042\123  
\104\353\310\135\003\312\355\120\172\175\142\041\012\200\310\163  
\146\321\240\005\140\137\350\245\264\247\257\250\367\155\065\234  
\174\132\212\326\242\070\231\363\170\213\364\115\322\040\013\336  
\004\356\214\233\107\201\162\015\300\024\062\357\060\131\056\256  
\340\161\362\126\344\152\227\157\222\120\155\226\215\150\172\232  
\262\066\024\172\006\362\044\271\011\021\120\327\010\261\270\211  
\172\204\043\141\102\051\345\243\315\242\040\101\327\321\234\144  
\331\352\046\241\213\024\327\114\031\262\120\101\161\075\077\115  
\160\043\206\014\112\334\201\322\314\062\224\204\015\010\011\227  
\034\117\300\356\153\040\164\060\322\340\071\064\020\205\041\025  
\001\010\350\125\062\336\161\111\331\050\027\120\115\346\276\115  
\321\165\254\320\312\373\101\270\103\245\252\323\303\005\104\117  
\054\066\233\342\372\342\105\270\043\123\154\006\157\147\125\177  
\106\265\114\077\156\050\132\171\046\322\244\250\142\227\322\036  
\342\355\112\213\274\033\375\107\112\015\337\147\146\176\262\133  
\101\320\073\344\364\073\364\004\143\351\357\302\124\000\121\240  
\212\052\311\316\170\314\325\352\207\004\030\263\316\257\111\210  
\257\363\222\231\266\263\346\141\017\322\205\000\347\120\032\344  
\033\225\235\031\241\271\234\261\233\261\000\036\357\320\017\117  
\102\154\311\012\274\356\103\372\072\161\245\310\115\046\245\065  
\375\211\135\274\205\142\035\062\322\240\053\124\355\232\127\301  
\333\372\020\317\031\267\213\112\033\217\001\266\047\225\123\350  
\266\211\155\133\274\150\324\043\350\213\121\242\126\371\360\246  
\200\240\326\036\263\274\017\017\123\165\051\252\352\023\167\344  
\336\214\201\041\255\007\020\107\021\255\207\075\007\321\165\274  
\317\363\146\176

END

CKA\_NSS\_MOZILLA\_CA\_POLICY CK\_BBOOL CK\_TRUE  
CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE  
CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "DigiCert Trusted Root G4"  
# Issuer: CN=DigiCert Trusted Root G4,OU=www.digicert.com,O=DigiCert Inc,C=US  
# Serial Number:05:9b:1b:57:9e:8e:21:32:e2:39:07:bd:a7:77:75:5c  
# Subject: CN=DigiCert Trusted Root G4,OU=www.digicert.com,O=DigiCert Inc,C=US  
# Not Valid Before: Thu Aug 01 12:00:00 2013  
# Not Valid After : Fri Jan 15 12:00:00 2038

```

Fingerprint (SHA-256):
55:2F:7B:DC:F1:A7:AF:9E:6C:E6:72:01:7F:4F:12:AB:F7:72:40:C7:8E:76:1A:C2:03:D1:D9:D2:0A:C8:99:88
Fingerprint (SHA1): DD:FB:16:CD:49:31:C9:73:A2:03:7D:3F:C8:3A:4D:7D:77:5D:05:E4
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Trusted Root G4"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\335\373\026\315\111\061\311\163\242\003\175\077\310\072\115\175
\167\135\005\344
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\170\362\374\252\140\037\057\264\353\311\067\272\123\056\165\111
END
CKA_ISSUER MULTILINE_OCTAL
\060\142\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\041\060\037\006\003\125\004\003\023\030\104\151\147\151
\103\145\162\164\040\124\162\165\163\164\145\144\040\122\157\157
\164\040\107\064
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\005\233\033\127\236\216\041\062\342\071\007\275\247\167
\165\134
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "COMODO RSA Certification Authority"
#
Issuer: CN=COMODO RSA Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater
Manchester,C=GB
Serial Number:4c:aa:f9:ca:db:63:6f:e0:1f:f7:4e:d8:5b:03:86:9d
Subject: CN=COMODO RSA Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater
Manchester,C=GB
Not Valid Before: Tue Jan 19 00:00:00 2010
Not Valid After : Mon Jan 18 23:59:59 2038
Fingerprint (SHA-256):
52:F0:E1:C4:E5:8E:C6:29:29:1B:60:31:7F:07:46:71:B8:5D:7E:A8:0D:5B:07:27:34:63:53:4B:32:B4:02:34
Fingerprint (SHA1): AF:E5:D2:44:A8:D1:19:42:30:FF:47:9F:E2:F8:97:BB:CD:7A:8C:B4
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE

```

```
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "COMODO RSA Certification Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\205\061\013\060\011\006\003\125\004\006\023\002\107\102
\061\033\060\031\006\003\125\004\010\023\022\107\162\145\141\164
\145\162\040\115\141\156\143\150\145\163\164\145\162\061\020\060
\016\006\003\125\004\007\023\007\123\141\154\146\157\162\144\061
\032\060\030\006\003\125\004\012\023\021\103\117\115\117\104\117
\040\103\101\040\114\151\155\151\164\145\144\061\053\060\051\006
\003\125\004\003\023\042\103\117\115\117\104\117\040\122\123\101
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\205\061\013\060\011\006\003\125\004\006\023\002\107\102
\061\033\060\031\006\003\125\004\010\023\022\107\162\145\141\164
\145\162\040\115\141\156\143\150\145\163\164\145\162\061\020\060
\016\006\003\125\004\007\023\007\123\141\154\146\157\162\144\061
\032\060\030\006\003\125\004\012\023\021\103\117\115\117\104\117
\040\103\101\040\114\151\155\151\164\145\144\061\053\060\051\006
\003\125\004\003\023\042\103\117\115\117\104\117\040\122\123\101
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\114\252\371\312\333\143\157\340\037\367\116\330\133\003
\206\235
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\330\060\202\003\300\240\003\002\001\002\002\020\114
\252\371\312\333\143\157\340\037\367\116\330\133\003\206\235\060
\015\006\011\052\206\110\206\367\015\001\001\014\005\000\060\201
\205\061\013\060\011\006\003\125\004\006\023\002\107\102\061\033
\060\031\006\003\125\004\010\023\022\107\162\145\141\164\145\162
\040\115\141\156\143\150\145\163\164\145\162\061\020\060\016\006
\003\125\004\007\023\007\123\141\154\146\157\162\144\061\032\060
\030\006\003\125\004\012\023\021\103\117\115\117\104\117\040\103
\101\040\114\151\155\151\164\145\144\061\053\060\051\006\003\125
\004\003\023\042\103\117\115\117\104\117\040\122\123\101\040\103
\145\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164
\150\157\162\151\164\171\060\036\027\015\061\060\060\061\061\071
\060\060\060\060\060\060\132\027\015\063\070\060\061\061\070\062
\063\065\071\065\071\132\060\201\205\061\013\060\011\006\003\125
\004\006\023\002\107\102\061\033\060\031\006\003\125\004\010\023
\022\107\162\145\141\164\145\162\040\115\141\156\143\150\145\163
```

\164\145\162\061\020\060\016\006\003\125\004\007\023\007\123\141  
\154\146\157\162\144\061\032\060\030\006\003\125\004\012\023\021  
\103\117\115\117\104\117\040\103\101\040\114\151\155\151\164\145  
\144\061\053\060\051\006\003\125\004\003\023\042\103\117\115\117  
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CKA\_NSS\_MOZILLA\_CA\_POLICY CK\_BBOOL CK\_TRUE  
CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE  
CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "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

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CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "COMODO RSA Certification Authority"
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\257\345\322\104\250\321\031\102\060\377\107\237\342\370\227\273
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END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
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CKA_ISSUER MULTILINE_OCTAL
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\145\162\040\115\141\156\143\150\145\163\164\145\162\061\020\060
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CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_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"

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CKA\_CERTIFICATE\_TYPE CK\_CERTIFICATE\_TYPE CKC\_X\_509

CKA\_SUBJECT MULTILINE\_OCTAL

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CKA\_ID UTF8 "0"

CKA\_ISSUER MULTILINE\_OCTAL

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CKA\_VALUE MULTILINE\_OCTAL

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\231\042\365\122\346\130\305\037\210\061\103\356\210\035\327\306  
\216\074\103\152\035\247\030\336\175\075\026\361\142\371\312\220  
\250\375

END

CKA\_NSS\_MOZILLA\_CA\_POLICY CK\_BBOOL CK\_TRUE  
CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE  
CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "USERTrust RSA Certification Authority"

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

# Serial Number:01:fd:6d:30:fc:a3:ca:51:a8:1b:bc:64:0e:35:03:2d

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

# Not Valid Before: Mon Feb 01 00:00:00 2010

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

# Fingerprint (SHA-256):

E7:93:C9:B0:2F:D8:AA:13:E2:1C:31:22:8A:CC:B0:81:19:64:3B:74:9C:89:89:64:B1:74:6D:46:C3:D4:CB:D2

# Fingerprint (SHA1): 2B:8F:1B:57:33:0D:BB:A2:D0:7A:6C:51:F7:0E:E9:0D:DA:B9:AD:8E

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

```

CKA_LABEL UTF8 "USERTrust RSA Certification Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\053\217\033\127\063\015\273\242\320\172\154\121\367\016\351\015
\332\271\255\216
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\033\376\151\321\221\267\031\063\243\162\250\017\341\125\345\265
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\210\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\023\060\021\006\003\125\004\010\023\012\116\145\167\040\112
\145\162\163\145\171\061\024\060\022\006\003\125\004\007\023\013
\112\145\162\163\145\171\040\103\151\164\171\061\036\060\034\006
\003\125\004\012\023\025\124\150\145\040\125\123\105\122\124\122
\125\123\124\040\116\145\164\167\157\162\153\061\056\060\054\006
\003\125\004\003\023\045\125\123\105\122\124\162\165\163\164\040
\122\123\101\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\001\375\155\060\374\243\312\121\250\033\274\144\016\065
\003\055
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "USERTrust ECC Certification Authority"
#
Issuer: CN=USERTrust ECC Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New
Jersey,C=US
Serial Number:5c:8b:99:c5:5a:94:c5:d2:71:56:de:cd:89:80:cc:26
Subject: CN=USERTrust ECC Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New
Jersey,C=US
Not Valid Before: Mon Feb 01 00:00:00 2010
Not Valid After : Mon Jan 18 23:59:59 2038
Fingerprint (SHA-256):
4F:F4:60:D5:4B:9C:86:DA:BF:BC:FC:57:12:E0:40:0D:2B:ED:3F:BC:4D:4F:BD:AA:86:E0:6A:DC:D2:A9:AD:7A
Fingerprint (SHA1): D1:CB:CA:5D:B2:D5:2A:7F:69:3B:67:4D:E5:F0:5A:1D:0C:95:7D:F0
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "USERTrust ECC Certification Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL

```

\060\201\210\061\013\060\011\006\003\125\004\006\023\002\125\123  
\061\023\060\021\006\003\125\004\010\023\012\116\145\167\040\112  
\145\162\163\145\171\061\024\060\022\006\003\125\004\007\023\013  
\112\145\162\163\145\171\040\103\151\164\171\061\036\060\034\006  
\003\125\004\012\023\025\124\150\145\040\125\123\105\122\124\122  
\125\123\124\040\116\145\164\167\157\162\153\061\056\060\054\006  
\003\125\004\003\023\045\125\123\105\122\124\162\165\163\164\040  
\105\103\103\040\103\145\162\164\151\146\151\143\141\164\151\157  
\156\040\101\165\164\150\157\162\151\164\171

END

CKA\_ID UTF8 "0"

CKA\_ISSUER MULTILINE\_OCTAL

\060\201\210\061\013\060\011\006\003\125\004\006\023\002\125\123  
\061\023\060\021\006\003\125\004\010\023\012\116\145\167\040\112  
\145\162\163\145\171\061\024\060\022\006\003\125\004\007\023\013  
\112\145\162\163\145\171\040\103\151\164\171\061\036\060\034\006  
\003\125\004\012\023\025\124\150\145\040\125\123\105\122\124\122  
\125\123\124\040\116\145\164\167\157\162\153\061\056\060\054\006  
\003\125\004\003\023\045\125\123\105\122\124\162\165\163\164\040  
\105\103\103\040\103\145\162\164\151\146\151\143\141\164\151\157  
\156\040\101\165\164\150\157\162\151\164\171

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

\002\020\134\213\231\305\132\224\305\322\161\126\336\315\211\200  
\314\046

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\002\217\060\202\002\025\240\003\002\001\002\002\020\134  
\213\231\305\132\224\305\322\161\126\336\315\211\200\314\046\060  
\012\006\010\052\206\110\316\075\004\003\003\060\201\210\061\013  
\060\011\006\003\125\004\006\023\002\125\123\061\023\060\021\006  
\003\125\004\010\023\012\116\145\167\040\112\145\162\163\145\171  
\061\024\060\022\006\003\125\004\007\023\013\112\145\162\163\145  
\171\040\103\151\164\171\061\036\060\034\006\003\125\004\012\023  
\025\124\150\145\040\125\123\105\122\124\122\125\123\124\040\116  
\145\164\167\157\162\153\061\056\060\054\006\003\125\004\003\023  
\045\125\123\105\122\124\162\165\163\164\040\105\103\103\040\103  
\145\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164  
\150\157\162\151\164\171\060\036\027\015\061\060\060\062\060\061  
\060\060\060\060\060\060\132\027\015\063\070\060\061\061\070\062  
\063\065\071\065\071\132\060\201\210\061\013\060\011\006\003\125  
\004\006\023\002\125\123\061\023\060\021\006\003\125\004\010\023  
\012\116\145\167\040\112\145\162\163\145\171\061\024\060\022\006  
\003\125\004\007\023\013\112\145\162\163\145\171\040\103\151\164  
\171\061\036\060\034\006\003\125\004\012\023\025\124\150\145\040  
\125\123\105\122\124\122\125\123\124\040\116\145\164\167\157\162  
\153\061\056\060\054\006\003\125\004\003\023\045\125\123\105\122  
\124\162\165\163\164\040\105\103\103\040\103\145\162\164\151\146

\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164  
\171\060\166\060\020\006\007\052\206\110\316\075\002\001\006\005  
\053\201\004\000\042\003\142\000\004\032\254\124\132\251\371\150  
\043\347\172\325\044\157\123\306\132\330\113\253\306\325\266\321  
\346\163\161\256\335\234\326\014\141\375\333\240\211\003\270\005  
\024\354\127\316\356\135\077\342\041\263\316\367\324\212\171\340  
\243\203\176\055\227\320\141\304\361\231\334\045\221\143\253\177  
\060\243\264\160\342\307\241\063\234\363\277\056\134\123\261\137  
\263\175\062\177\212\064\343\171\171\243\102\060\100\060\035\006  
\003\125\035\016\004\026\004\024\072\341\011\206\324\317\031\302  
\226\166\164\111\166\334\340\065\306\143\143\232\060\016\006\003  
\125\035\017\001\001\377\004\004\003\002\001\006\060\017\006\003  
\125\035\023\001\001\377\004\005\060\003\001\001\377\060\012\006  
\010\052\206\110\316\075\004\003\003\003\150\000\060\145\002\060  
\066\147\241\026\010\334\344\227\000\101\035\116\276\341\143\001  
\317\073\252\102\021\144\240\235\224\071\002\021\171\134\173\035  
\372\144\271\356\026\102\263\277\212\302\011\304\354\344\261\115  
\002\061\000\351\052\141\107\214\122\112\113\116\030\160\366\326  
\104\326\156\365\203\272\155\130\275\044\331\126\110\352\357\304  
\242\106\201\210\152\072\106\321\251\233\115\311\141\332\321\135  
\127\152\030

END

CKA\_NSS\_MOZILLA\_CA\_POLICY CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "USERTrust ECC Certification Authority"

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

# Serial Number:5c:8b:99:c5:5a:94:c5:d2:71:56:de:cd:89:80:cc:26

# Subject: CN=USERTrust ECC Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New Jersey,C=US

# Not Valid Before: Mon Feb 01 00:00:00 2010

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

# Fingerprint (SHA-256):

4F:F4:60:D5:4B:9C:86:DA:BF:BC:FC:57:12:E0:40:0D:2B:ED:3F:BC:4D:4F:BD:AA:86:E0:6A:DC:D2:A9:AD:7A

# Fingerprint (SHA1): D1:CB:CA:5D:B2:D5:2A:7F:69:3B:67:4D:E5:F0:5A:1D:0C:95:7D:F0

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "USERTrust ECC Certification Authority"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

\321\313\312\135\262\325\052\177\151\073\147\115\345\360\132\035  
\014\225\175\360

END

CKA\_CERT\_MD5\_HASH MULTILINE\_OCTAL

\372\150\274\331\265\177\255\375\311\035\006\203\050\314\044\301

END

CKA\_ISSUER MULTILINE\_OCTAL

\060\201\210\061\013\060\011\006\003\125\004\006\023\002\125\123  
\061\023\060\021\006\003\125\004\010\023\012\116\145\167\040\112  
\145\162\163\145\171\061\024\060\022\006\003\125\004\007\023\013  
\112\145\162\163\145\171\040\103\151\164\171\061\036\060\034\006  
\003\125\004\012\023\025\124\150\145\040\125\123\105\122\124\122  
\125\123\124\040\116\145\164\167\157\162\153\061\056\060\054\006  
\003\125\004\003\023\045\125\123\105\122\124\162\165\163\164\040  
\105\103\103\040\103\145\162\164\151\146\151\143\141\164\151\157  
\156\040\101\165\164\150\157\162\151\164\171

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

\002\020\134\213\231\305\132\224\305\322\161\126\336\315\211\200  
\314\046

END

CKA\_TRUST\_SERVER\_AUTH CK\_TRUST CKT\_NSS\_TRUSTED\_DELEGATOR

CKA\_TRUST\_EMAIL\_PROTECTION CK\_TRUST CKT\_NSS\_TRUSTED\_DELEGATOR

CKA\_TRUST\_CODE\_SIGNING CK\_TRUST CKT\_NSS\_MUST\_VERIFY\_TRUST

CKA\_TRUST\_STEP\_UP\_APPROVED CK\_BBOOL CK\_FALSE

#

# Certificate "GlobalSign ECC Root CA - R5"

#

# Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R5

# Serial Number:60:59:49:e0:26:2e:bb:55:f9:0a:77:8a:71:f9:4a:d8:6c

# Subject: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R5

# Not Valid Before: Tue Nov 13 00:00:00 2012

# Not Valid After : Tue Jan 19 03:14:07 2038

# Fingerprint (SHA-256):

17:9F:BC:14:8A:3D:D0:0F:D2:4E:A1:34:58:CC:43:BF:A7:F5:9C:81:82:D7:83:A5:13:F6:EB:EC:10:0C:89:24

# Fingerprint (SHA1): 1F:24:C6:30:CD:A4:18:EF:20:69:FF:AD:4F:DD:5F:46:3A:1B:69:AA

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_CERTIFICATE

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "GlobalSign ECC Root CA - R5"

CKA\_CERTIFICATE\_TYPE CK\_CERTIFICATE\_TYPE CKC\_X\_509

CKA\_SUBJECT MULTILINE\_OCTAL

\060\120\061\044\060\042\006\003\125\004\013\023\033\107\154\157  
\142\141\154\123\151\147\156\040\105\103\103\040\122\157\157\164  
\040\103\101\040\055\040\122\065\061\023\060\021\006\003\125\004  
\012\023\012\107\154\157\142\141\154\123\151\147\156\061\023\060  
\021\006\003\125\004\003\023\012\107\154\157\142\141\154\123\151  
\147\156

END

CKA\_ID UTF8 "0"

CKA\_ISSUER MULTILINE\_OCTAL

\060\120\061\044\060\042\006\003\125\004\013\023\033\107\154\157  
\142\141\154\123\151\147\156\040\105\103\103\040\122\157\157\164  
\040\103\101\040\055\040\122\065\061\023\060\021\006\003\125\004  
\012\023\012\107\154\157\142\141\154\123\151\147\156\061\023\060  
\021\006\003\125\004\003\023\012\107\154\157\142\141\154\123\151  
\147\156

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

\002\021\140\131\111\340\046\056\273\125\371\012\167\212\161\371  
\112\330\154

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\002\036\060\202\001\244\240\003\002\001\002\002\021\140  
\131\111\340\046\056\273\125\371\012\167\212\161\371\112\330\154  
\060\012\006\010\052\206\110\316\075\004\003\003\060\120\061\044  
\060\042\006\003\125\004\013\023\033\107\154\157\142\141\154\123  
\151\147\156\040\105\103\103\040\122\157\157\164\040\103\101\040  
\055\040\122\065\061\023\060\021\006\003\125\004\012\023\012\107  
\154\157\142\141\154\123\151\147\156\061\023\060\021\006\003\125  
\004\003\023\012\107\154\157\142\141\154\123\151\147\156\060\036  
\027\015\061\062\061\061\061\063\060\060\060\060\060\060\132\027  
\015\063\070\060\061\061\071\060\063\061\064\060\067\132\060\120  
\061\044\060\042\006\003\125\004\013\023\033\107\154\157\142\141  
\154\123\151\147\156\040\105\103\103\040\122\157\157\164\040\103  
\101\040\055\040\122\065\061\023\060\021\006\003\125\004\012\023  
\012\107\154\157\142\141\154\123\151\147\156\061\023\060\021\006  
\003\125\004\003\023\012\107\154\157\142\141\154\123\151\147\156  
\060\166\060\020\006\007\052\206\110\316\075\002\001\006\005\053  
\201\004\000\042\003\142\000\004\107\105\016\226\373\175\135\277  
\351\071\321\041\370\237\013\266\325\173\036\222\072\110\131\034  
\360\142\061\055\300\172\050\376\032\247\134\263\266\314\227\347  
\105\324\130\372\321\167\155\103\242\300\207\145\064\012\037\172  
\335\353\074\063\241\305\235\115\244\157\101\225\070\177\311\036  
\204\353\321\236\111\222\207\224\207\014\072\205\112\146\237\235  
\131\223\115\227\141\006\206\112\243\102\060\100\060\016\006\003  
\125\035\017\001\001\377\004\004\003\002\001\006\060\017\006\003  
\125\035\023\001\001\377\004\005\060\003\001\001\377\060\035\006  
\003\125\035\016\004\026\004\024\075\346\051\110\233\352\007\312  
\041\104\112\046\336\156\336\322\203\320\237\131\060\012\006\010  
\052\206\110\316\075\004\003\003\003\150\000\060\145\002\061\000  
\345\151\022\311\156\333\306\061\272\011\101\341\227\370\373\375  
\232\342\175\022\311\355\174\144\323\313\005\045\213\126\331\240  
\347\136\135\116\013\203\234\133\166\051\240\011\046\041\152\142  
\002\060\161\322\265\217\134\352\073\341\170\011\205\250\165\222  
\073\310\134\375\110\357\015\164\042\250\010\342\156\305\111\316  
\307\014\274\247\141\151\361\367\073\341\052\313\371\053\363\146  
\220\067

END

```

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRICT_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRICT_AFTER CK_BBOOL CK_FALSE

Trust for "GlobalSign ECC Root CA - R5"
Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R5
Serial Number:60:59:49:e0:26:2e:bb:55:f9:0a:77:8a:71:f9:4a:d8:6c
Subject: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R5
Not Valid Before: Tue Nov 13 00:00:00 2012
Not Valid After : Tue Jan 19 03:14:07 2038
Fingerprint (SHA-256):
17:9F:BC:14:8A:3D:D0:0F:D2:4E:A1:34:58:CC:43:BF:A7:F5:9C:81:82:D7:83:A5:13:F6:EB:EC:10:0C:89:24
Fingerprint (SHA1): 1F:24:C6:30:CD:A4:18:EF:20:69:FF:AD:4F:DD:5F:46:3A:1B:69:AA
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign ECC Root CA - R5"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\037\044\306\060\315\244\030\357\040\151\377\255\117\335\137\106
\072\033\151\252
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\237\255\073\034\002\036\212\272\027\164\070\201\014\242\274\010
END
CKA_ISSUER MULTILINE_OCTAL
\060\120\061\044\060\042\006\003\125\004\013\023\033\107\154\157
\142\141\154\123\151\147\156\040\105\103\103\040\122\157\157\164
\040\103\101\040\055\040\122\065\061\023\060\021\006\003\125\004
\012\023\012\107\154\157\142\141\154\123\151\147\156\061\023\060
\021\006\003\125\004\003\023\012\107\154\157\142\141\154\123\151
\147\156
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\021\140\131\111\340\046\056\273\125\371\012\167\212\161\371
\112\330\154
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Staat der Nederlanden Root CA - G3"
#
Issuer: CN=Staat der Nederlanden Root CA - G3,O=Staat der Nederlanden,C=NL
Serial Number: 10003001 (0x98a239)
Subject: CN=Staat der Nederlanden Root CA - G3,O=Staat der Nederlanden,C=NL

```

```
Not Valid Before: Thu Nov 14 11:28:42 2013
Not Valid After : Mon Nov 13 23:00:00 2028
Fingerprint (SHA-256):
3C:4F:B0:B9:5A:B8:B3:00:32:F4:32:B8:6F:53:5F:E1:72:C1:85:D0:FD:39:86:58:37:CF:36:18:7F:A6:F4:28
Fingerprint (SHA1): D8:EB:6B:41:51:92:59:E0:F3:E7:85:00:C0:3D:B6:88:97:C9:EE:FC
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Staat der Nederlanden Root CA - G3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\132\061\013\060\011\006\003\125\004\006\023\002\116\114\061
\036\060\034\006\003\125\004\012\014\025\123\164\141\141\164\040
\144\145\162\040\116\145\144\145\162\154\141\156\144\145\156\061
\053\060\051\006\003\125\004\003\014\042\123\164\141\141\164\040
\144\145\162\040\116\145\144\145\162\154\141\156\144\145\156\040
\122\157\157\164\040\103\101\040\055\040\107\063
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\132\061\013\060\011\006\003\125\004\006\023\002\116\114\061
\036\060\034\006\003\125\004\012\014\025\123\164\141\141\164\040
\144\145\162\040\116\145\144\145\162\154\141\156\144\145\156\061
\053\060\051\006\003\125\004\003\014\042\123\164\141\141\164\040
\144\145\162\040\116\145\144\145\162\154\141\156\144\145\156\040
\122\157\157\164\040\103\101\040\055\040\107\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\000\230\242\071
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\164\060\202\003\134\240\003\002\001\002\002\004\000
\230\242\071\060\015\006\011\052\206\110\206\367\015\001\001\013
\005\000\060\132\061\013\060\011\006\003\125\004\006\023\002\116
\114\061\036\060\034\006\003\125\004\012\014\025\123\164\141\141
\164\040\144\145\162\040\116\145\144\145\162\154\141\156\144\145
\156\061\053\060\051\006\003\125\004\003\014\042\123\164\141\141
\164\040\144\145\162\040\116\145\144\145\162\154\141\156\144\145
\156\040\122\157\157\164\040\103\101\040\055\040\107\063\060\036
\027\015\061\063\061\061\061\064\061\061\062\070\064\062\132\027
\015\062\070\061\061\061\063\062\063\060\060\060\060\132\060\132
\061\013\060\011\006\003\125\004\006\023\002\116\114\061\036\060
\034\006\003\125\004\012\014\025\123\164\141\141\164\040\144\145
\162\040\116\145\144\145\162\154\141\156\144\145\156\061\053\060
\051\006\003\125\004\003\014\042\123\164\141\141\164\040\144\145
\162\040\116\145\144\145\162\154\141\156\144\145\156\040\122\157
\157\164\040\103\101\040\055\040\107\063\060\202\002\042\060\015
```



\006\011\052\206\110\206\367\015\001\001\001\005\000\003\202\002  
\017\000\060\202\002\012\002\202\002\001\000\276\062\242\124\017  
\160\373\054\134\131\353\154\304\244\121\350\205\052\263\314\112  
\064\362\260\137\363\016\307\034\075\123\036\210\010\150\330\157  
\075\255\302\236\314\202\147\007\047\207\150\161\072\237\165\226  
\042\106\005\260\355\255\307\133\236\052\336\234\374\072\306\225  
\247\365\027\147\030\347\057\111\010\014\134\317\346\314\064\355  
\170\373\120\261\334\153\062\360\242\376\266\074\344\354\132\227  
\307\077\036\160\010\060\240\334\305\263\155\157\320\202\162\021  
\253\322\201\150\131\202\027\267\170\222\140\372\314\336\077\204  
\353\215\070\063\220\012\162\043\372\065\314\046\161\061\321\162  
\050\222\331\133\043\155\146\265\155\007\102\353\246\063\316\222  
\333\300\366\154\143\170\315\312\116\075\265\345\122\233\361\276  
\073\346\124\140\260\146\036\011\253\007\376\124\211\021\102\321  
\367\044\272\140\170\032\230\367\311\021\375\026\301\065\032\124  
\165\357\103\323\345\256\116\316\347\173\303\306\116\141\121\113  
\253\232\105\113\241\037\101\275\110\123\025\161\144\013\206\263  
\345\056\276\316\244\033\301\051\204\242\265\313\010\043\166\103  
\042\044\037\027\004\324\156\234\306\374\177\053\146\032\354\212  
\345\326\317\115\365\143\011\267\025\071\326\173\254\353\343\174  
\351\116\374\165\102\310\355\130\225\014\006\102\242\234\367\344  
\160\263\337\162\157\132\067\100\211\330\205\244\327\361\013\336  
\103\031\324\112\130\054\214\212\071\236\277\204\207\361\026\073  
\066\014\351\323\264\312\154\031\101\122\011\241\035\260\152\277  
\202\357\160\121\041\062\334\005\166\214\313\367\144\344\003\120  
\257\214\221\147\253\305\362\356\130\330\336\276\367\347\061\317  
\154\311\073\161\301\325\210\265\145\274\300\350\027\027\007\022  
\265\134\322\253\040\223\264\346\202\203\160\066\305\315\243\215  
\255\213\354\243\301\103\207\346\103\342\064\276\225\213\065\355  
\007\071\332\250\035\172\237\066\236\022\260\014\145\022\220\025  
\140\331\046\100\104\343\126\140\245\020\324\152\074\375\101\334  
\016\132\107\266\357\227\141\165\117\331\376\307\262\035\324\355  
\135\111\263\251\152\313\146\204\023\325\134\240\334\337\156\167  
\006\321\161\165\310\127\157\257\017\167\133\002\003\001\000\001  
\243\102\060\100\060\017\006\003\125\035\023\001\001\377\004\005  
\060\003\001\001\377\060\016\006\003\125\035\017\001\001\377\004  
\004\003\002\001\006\060\035\006\003\125\035\016\004\026\004\024  
\124\255\372\307\222\127\256\312\065\234\056\022\373\344\272\135  
\040\334\224\127\060\015\006\011\052\206\110\206\367\015\001\001  
\013\005\000\003\202\002\001\000\060\231\235\005\062\310\136\016  
\073\230\001\072\212\244\347\007\367\172\370\347\232\337\120\103  
\123\227\052\075\312\074\107\230\056\341\025\173\361\222\363\141  
\332\220\045\026\145\300\237\124\135\016\003\073\133\167\002\234  
\204\266\015\230\137\064\335\073\143\302\303\050\201\302\234\051  
\056\051\342\310\303\001\362\063\352\052\252\314\011\010\367\145  
\147\306\315\337\323\266\053\247\275\314\321\016\160\137\270\043  
\321\313\221\116\012\364\310\172\345\331\143\066\301\324\337\374  
\042\227\367\140\135\352\051\057\130\262\275\130\275\215\226\117

```
\020\165\277\110\173\075\121\207\241\074\164\042\302\374\007\177
\200\334\304\254\376\152\301\160\060\260\351\216\151\342\054\151
\201\224\011\272\335\376\115\300\203\214\224\130\300\106\040\257
\234\037\002\370\065\125\111\057\106\324\300\360\240\226\002\017
\063\305\161\363\236\043\175\224\267\375\072\323\011\203\006\041
\375\140\075\256\062\300\322\356\215\246\360\347\264\202\174\012
\314\160\311\171\200\370\376\114\367\065\204\031\212\061\373\012
\331\327\177\233\360\242\232\153\303\005\112\355\101\140\024\060
\321\252\021\102\156\323\043\002\004\013\306\145\335\335\122\167
\332\201\153\262\250\372\001\070\271\226\352\052\154\147\227\211
\224\236\274\341\124\325\344\152\170\357\112\275\053\232\075\100
\176\306\300\165\322\156\373\150\060\354\354\213\235\371\111\065
\232\032\054\331\263\225\071\325\036\222\367\246\271\145\057\345
\075\155\072\110\114\010\334\344\050\022\050\276\175\065\134\352
\340\026\176\023\033\152\327\076\327\236\374\055\165\262\301\024
\325\043\003\333\133\157\013\076\170\057\015\336\063\215\026\267
\110\347\203\232\201\017\173\301\103\115\125\004\027\070\112\121
\325\131\242\211\164\323\237\276\036\113\327\306\155\267\210\044
\157\140\221\244\202\205\133\126\101\274\320\104\253\152\023\276
\321\054\130\267\022\063\130\262\067\143\334\023\365\224\035\077
\100\121\365\117\365\072\355\310\305\353\302\036\035\026\225\172
\307\176\102\161\223\156\113\025\267\060\337\252\355\127\205\110
\254\035\152\335\071\151\344\341\171\170\276\316\005\277\241\014
\367\200\173\041\147\047\060\131
```

END

```
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRICT_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRICT_AFTER CK_BBOOL CK_FALSE
```

```
Trust for "Staat der Nederlanden Root CA - G3"
```

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

```
Serial Number: 10003001 (0x98a239)
```

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

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

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

```
Fingerprint (SHA-256):
```

```
3C:4F:B0:B9:5A:B8:B3:00:32:F4:32:B8:6F:53:5F:E1:72:C1:85:D0:FD:39:86:58:37:CF:36:18:7F:A6:F4:28
```

```
Fingerprint (SHA1): D8:EB:6B:41:51:92:59:E0:F3:E7:85:00:C0:3D:B6:88:97:C9:EE:FC
```

```
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
```

```
CKA_TOKEN CK_BBOOL CK_TRUE
```

```
CKA_PRIVATE CK_BBOOL CK_FALSE
```

```
CKA_MODIFIABLE CK_BBOOL CK_FALSE
```

```
CKA_LABEL UTF8 "Staat der Nederlanden Root CA - G3"
```

```
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
```

```
\330\353\153\101\121\222\131\340\363\347\205\000\300\075\266\210
\227\311\356\374
```

END

```
CKA_CERT_MD5_HASH MULTILINE_OCTAL
```

\013\106\147\007\333\020\057\031\214\065\120\140\321\013\364\067

END

CKA\_ISSUER MULTILINE\_OCTAL

\060\132\061\013\060\011\006\003\125\004\006\023\002\116\114\061

\036\060\034\006\003\125\004\012\014\025\123\164\141\141\164\040

\144\145\162\040\116\145\144\145\162\154\141\156\144\145\156\061

\053\060\051\006\003\125\004\003\014\042\123\164\141\141\164\040

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

\122\157\157\164\040\103\101\040\055\040\107\063

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

\002\004\000\230\242\071

END

CKA\_TRUST\_SERVER\_AUTH CK\_TRUST CKT\_NSS\_MUST\_VERIFY\_TRUST

CKA\_TRUST\_EMAIL\_PROTECTION CK\_TRUST CKT\_NSS\_TRUSTED\_DELEGATOR

CKA\_TRUST\_CODE\_SIGNING CK\_TRUST CKT\_NSS\_MUST\_VERIFY\_TRUST

CKA\_TRUST\_STEP\_UP\_APPROVED CK\_BBOOL CK\_FALSE

#

# Certificate "Staat der Nederlanden EV Root CA"

#

# Issuer: CN=Staat der Nederlanden EV Root CA,O=Staat der Nederlanden,C=NL

# Serial Number: 10000013 (0x98968d)

# Subject: CN=Staat der Nederlanden EV Root CA,O=Staat der Nederlanden,C=NL

# Not Valid Before: Wed Dec 08 11:19:29 2010

# Not Valid After : Thu Dec 08 11:10:28 2022

# Fingerprint (SHA-256):

4D:24:91:41:4C:FE:95:67:46:EC:4C:EF:A6:CF:6F:72:E2:8A:13:29:43:2F:9D:8A:90:7A:C4:CB:5D:AD:C1:5A

# Fingerprint (SHA1): 76:E2:7E:C1:4F:DB:82:C1:C0:A6:75:B5:05:BE:3D:29:B4:ED:DB:BB

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_CERTIFICATE

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "Staat der Nederlanden EV Root CA"

CKA\_CERTIFICATE\_TYPE CK\_CERTIFICATE\_TYPE CKC\_X\_509

CKA\_SUBJECT MULTILINE\_OCTAL

\060\130\061\013\060\011\006\003\125\004\006\023\002\116\114\061

\036\060\034\006\003\125\004\012\014\025\123\164\141\141\164\040

\144\145\162\040\116\145\144\145\162\154\141\156\144\145\156\061

\051\060\047\006\003\125\004\003\014\040\123\164\141\141\164\040

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

\105\126\040\122\157\157\164\040\103\101

END

CKA\_ID UTF8 "0"

CKA\_ISSUER MULTILINE\_OCTAL

\060\130\061\013\060\011\006\003\125\004\006\023\002\116\114\061

\036\060\034\006\003\125\004\012\014\025\123\164\141\141\164\040

\144\145\162\040\116\145\144\145\162\154\141\156\144\145\156\061

\051\060\047\006\003\125\004\003\014\040\123\164\141\141\164\040  
\144\145\162\040\116\145\144\145\162\154\141\156\144\145\156\040  
\105\126\040\122\157\157\164\040\103\101  
END  
CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL  
\002\004\000\230\226\215  
END  
CKA\_VALUE MULTILINE\_OCTAL  
\060\202\005\160\060\202\003\130\240\003\002\001\002\002\004\000  
\230\226\215\060\015\006\011\052\206\110\206\367\015\001\001\013  
\005\000\060\130\061\013\060\011\006\003\125\004\006\023\002\116  
\114\061\036\060\034\006\003\125\004\012\014\025\123\164\141\141  
\164\040\144\145\162\040\116\145\144\145\162\154\141\156\144\145  
\156\061\051\060\047\006\003\125\004\003\014\040\123\164\141\141  
\164\040\144\145\162\040\116\145\144\145\162\154\141\156\144\145  
\156\040\105\126\040\122\157\157\164\040\103\101\060\036\027\015  
\061\060\061\062\060\070\061\061\061\071\062\071\132\027\015\062  
\062\061\062\060\070\061\061\061\060\062\070\132\060\130\061\013  
\060\011\006\003\125\004\006\023\002\116\114\061\036\060\034\006  
\003\125\004\012\014\025\123\164\141\141\164\040\144\145\162\040  
\116\145\144\145\162\154\141\156\144\145\156\061\051\060\047\006  
\003\125\004\003\014\040\123\164\141\141\164\040\144\145\162\040  
\116\145\144\145\162\154\141\156\144\145\156\040\105\126\040\122  
\157\157\164\040\103\101\060\202\002\042\060\015\006\011\052\206  
\110\206\367\015\001\001\001\005\000\003\202\002\017\000\060\202  
\002\012\002\202\002\001\000\343\307\176\211\371\044\113\072\322  
\063\203\065\054\151\354\334\011\244\343\121\250\045\053\171\270  
\010\075\340\221\272\204\205\306\205\244\312\346\311\056\123\244  
\311\044\036\375\125\146\161\135\054\305\140\150\004\267\331\302  
\122\046\070\210\244\326\073\100\246\302\315\077\315\230\223\263  
\124\024\130\226\125\325\120\376\206\255\244\143\177\134\207\366  
\216\346\047\222\147\027\222\002\003\054\334\326\146\164\355\335  
\147\377\301\141\215\143\117\017\233\155\027\060\046\357\253\322  
\037\020\240\371\305\177\026\151\201\003\107\355\036\150\215\162  
\241\115\262\046\306\272\154\137\155\326\257\321\261\023\216\251  
\255\363\136\151\165\046\030\076\101\053\041\177\356\213\135\007  
\006\235\103\304\051\012\053\374\052\076\206\313\074\203\072\371  
\311\015\332\305\231\342\274\170\101\063\166\341\277\057\135\345  
\244\230\120\014\025\335\340\372\234\177\070\150\320\262\246\172  
\247\321\061\275\176\212\130\047\103\263\272\063\221\323\247\230  
\025\134\232\346\323\017\165\331\374\101\230\227\076\252\045\333  
\217\222\056\260\173\014\137\361\143\251\067\371\233\165\151\114  
\050\046\045\332\325\362\022\160\105\125\343\337\163\136\067\365  
\041\154\220\216\065\132\311\323\043\353\323\300\276\170\254\102  
\050\130\146\245\106\155\160\002\327\020\371\113\124\374\135\206  
\112\207\317\177\312\105\254\021\132\265\040\121\215\057\210\107  
\227\071\300\317\272\300\102\001\100\231\110\041\013\153\247\322  
\375\226\325\321\276\106\235\111\340\013\246\240\042\116\070\320

\301\074\060\274\160\217\054\165\314\320\305\214\121\073\075\224  
\010\144\046\141\175\271\303\145\217\024\234\041\320\252\375\027  
\162\003\217\275\233\214\346\136\123\236\271\235\357\202\273\341  
\274\342\162\101\133\041\224\323\105\067\224\321\337\011\071\135  
\347\043\252\232\035\312\155\250\012\206\205\212\202\276\102\007  
\326\362\070\202\163\332\207\133\345\074\323\236\076\247\073\236  
\364\003\263\371\361\175\023\164\002\377\273\241\345\372\000\171  
\034\246\146\101\210\134\140\127\246\056\011\304\272\375\232\317  
\247\037\100\303\273\314\132\012\125\113\073\070\166\121\270\143  
\213\204\224\026\346\126\363\002\003\001\000\001\243\102\060\100  
\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001  
\377\060\016\006\003\125\035\017\001\001\377\004\004\003\002\001  
\006\060\035\006\003\125\035\016\004\026\004\024\376\253\000\220  
\230\236\044\374\251\314\032\212\373\047\270\277\060\156\250\073  
\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\003  
\202\002\001\000\317\167\054\156\126\276\116\263\266\204\000\224  
\253\107\311\015\322\166\307\206\237\035\007\323\266\264\273\010  
\170\257\151\322\013\111\336\063\305\254\255\302\210\002\175\006  
\267\065\002\301\140\311\277\304\350\224\336\324\323\251\023\045  
\132\376\156\242\256\175\005\334\175\363\154\360\176\246\215\356  
\331\327\316\130\027\350\251\051\256\163\110\207\347\233\312\156  
\051\241\144\137\031\023\367\256\006\020\377\121\306\233\115\125  
\045\117\223\231\020\001\123\165\361\023\316\307\246\101\101\322  
\277\210\245\177\105\374\254\270\245\265\063\014\202\304\373\007  
\366\152\345\045\204\137\006\312\301\206\071\021\333\130\315\167  
\073\054\302\114\017\136\232\343\360\253\076\141\033\120\044\302  
\300\364\361\031\360\021\051\266\245\030\002\233\327\143\114\160  
\214\107\243\003\103\134\271\135\106\240\015\157\377\131\216\276  
\335\237\162\303\133\053\337\214\133\316\345\014\106\154\222\262  
\012\243\114\124\102\030\025\022\030\275\332\374\272\164\156\377  
\301\266\240\144\330\251\137\125\256\237\134\152\166\226\330\163  
\147\207\373\115\177\134\356\151\312\163\020\373\212\251\375\236  
\275\066\070\111\111\207\364\016\024\360\351\207\270\077\247\117  
\172\132\216\171\324\223\344\273\150\122\204\254\154\351\363\230  
\160\125\162\062\371\064\253\053\111\265\315\040\142\344\072\172  
\147\143\253\226\334\155\256\227\354\374\237\166\126\210\056\146  
\317\133\266\311\244\260\327\005\272\341\047\057\223\273\046\052  
\242\223\260\033\363\216\276\035\100\243\271\066\217\076\202\032  
\032\136\210\352\120\370\131\342\203\106\051\013\343\104\134\341  
\225\266\151\220\232\024\157\227\256\201\317\150\357\231\232\276  
\265\347\341\177\370\372\023\107\026\114\314\155\010\100\347\213  
\170\157\120\202\104\120\077\146\006\212\253\103\204\126\112\017  
\040\055\206\016\365\322\333\322\172\212\113\315\245\350\116\361  
\136\046\045\001\131\043\240\176\322\366\176\041\127\327\047\274  
\025\127\114\244\106\301\340\203\036\014\114\115\037\117\006\031  
\342\371\250\364\072\202\241\262\171\103\171\326\255\157\172\047  
\220\003\244\352\044\207\077\331\275\331\351\362\137\120\111\034  
\356\354\327\056

```

END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRICT_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRICT_AFTER CK_BBOOL CK_FALSE

Trust for "Staat der Nederlanden EV Root CA"
Issuer: CN=Staat der Nederlanden EV Root CA,O=Staat der Nederlanden,C=NL
Serial Number: 10000013 (0x98968d)
Subject: CN=Staat der Nederlanden EV Root CA,O=Staat der Nederlanden,C=NL
Not Valid Before: Wed Dec 08 11:19:29 2010
Not Valid After : Thu Dec 08 11:10:28 2022
Fingerprint (SHA-256):
4D:24:91:41:4C:FE:95:67:46:EC:4C:EF:A6:CF:6F:72:E2:8A:13:29:43:2F:9D:8A:90:7A:C4:CB:5D:AD:C1:5A
Fingerprint (SHA1): 76:E2:7E:C1:4F:DB:82:C1:C0:A6:75:B5:05:BE:3D:29:B4:ED:DB:BB
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Staat der Nederlanden EV Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\166\342\176\301\117\333\202\301\300\246\165\265\005\276\075\051
\264\355\333\273
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\374\006\257\173\350\032\361\232\264\350\322\160\037\300\365\272
END
CKA_ISSUER MULTILINE_OCTAL
\060\130\061\013\060\011\006\003\125\004\006\023\002\116\114\061
\036\060\034\006\003\125\004\012\014\025\123\164\141\141\164\040
\144\145\162\040\116\145\144\145\162\154\141\156\144\145\156\061
\051\060\047\006\003\125\004\003\014\040\123\164\141\141\164\040
\144\145\162\040\116\145\144\145\162\154\141\156\144\145\156\040
\105\126\040\122\157\157\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\000\230\226\215
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "IdenTrust Commercial Root CA 1"
#
Issuer: CN=IdenTrust Commercial Root CA 1,O=IdenTrust,C=US
Serial Number:0a:01:42:80:00:00:01:45:23:c8:44:b5:00:00:00:02
Subject: CN=IdenTrust Commercial Root CA 1,O=IdenTrust,C=US

```

```
Not Valid Before: Thu Jan 16 18:12:23 2014
Not Valid After : Mon Jan 16 18:12:23 2034
Fingerprint (SHA-256):
5D:56:49:9B:E4:D2:E0:8B:CF:CA:D0:8A:3E:38:72:3D:50:50:3B:DE:70:69:48:E4:2F:55:60:30:19:E5:28:AE
Fingerprint (SHA1): DF:71:7E:AA:4A:D9:4E:C9:55:84:99:60:2D:48:DE:5F:BC:F0:3A:25
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "IdenTrust Commercial Root CA 1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\112\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\022\060\020\006\003\125\004\012\023\011\111\144\145\156\124\162
\165\163\164\061\047\060\045\006\003\125\004\003\023\036\111\144
\145\156\124\162\165\163\164\040\103\157\155\155\145\162\143\151
\141\154\040\122\157\157\164\040\103\101\040\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\112\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\022\060\020\006\003\125\004\012\023\011\111\144\145\156\124\162
\165\163\164\061\047\060\045\006\003\125\004\003\023\036\111\144
\145\156\124\162\165\163\164\040\103\157\155\155\145\162\143\151
\141\154\040\122\157\157\164\040\103\101\040\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\012\001\102\200\000\000\001\105\043\310\104\265\000\000
\000\002
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\140\060\202\003\110\240\003\002\001\002\002\020\012
\001\102\200\000\000\001\105\043\310\104\265\000\000\000\002\060
\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060\112
\061\013\060\011\006\003\125\004\006\023\002\125\123\061\022\060
\020\006\003\125\004\012\023\011\111\144\145\156\124\162\165\163
\164\061\047\060\045\006\003\125\004\003\023\036\111\144\145\156
\124\162\165\163\164\040\103\157\155\155\145\162\143\151\141\154
\040\122\157\157\164\040\103\101\040\061\060\036\027\015\061\064
\060\061\061\066\061\070\061\062\062\063\132\027\015\063\064\060
\061\061\066\061\070\061\062\062\063\132\060\112\061\013\060\011
\006\003\125\004\006\023\002\125\123\061\022\060\020\006\003\125
\004\012\023\011\111\144\145\156\124\162\165\163\164\061\047\060
\045\006\003\125\004\003\023\036\111\144\145\156\124\162\165\163
\164\040\103\157\155\155\145\162\143\151\141\154\040\122\157\157
\164\040\103\101\040\061\060\202\002\042\060\015\006\011\052\206
\110\206\367\015\001\001\001\005\000\003\202\002\017\000\060\202
\002\012\002\202\002\001\000\247\120\031\336\077\231\075\324\063
```

\106\361\157\121\141\202\262\251\117\217\147\211\135\204\331\123  
\335\014\050\331\327\360\377\256\225\103\162\231\371\265\135\174  
\212\301\102\341\061\120\164\321\201\015\174\315\233\041\253\103  
\342\254\255\136\206\156\363\011\212\037\132\062\275\242\353\224  
\371\350\134\012\354\377\230\322\257\161\263\264\123\237\116\207  
\357\222\274\275\354\117\062\060\210\113\027\136\127\304\123\302  
\366\002\227\215\331\142\053\277\044\037\142\215\337\303\270\051  
\113\111\170\074\223\140\210\042\374\231\332\066\310\302\242\324  
\054\124\000\147\065\156\163\277\002\130\360\244\335\345\260\242  
\046\172\312\340\066\245\031\026\365\375\267\357\256\077\100\365  
\155\132\004\375\316\064\312\044\334\164\043\033\135\063\023\022  
\135\304\001\045\366\060\335\002\135\237\340\325\107\275\264\353  
\033\241\273\111\111\330\237\133\002\363\212\344\044\220\344\142  
\117\117\301\257\213\016\164\027\250\321\162\210\152\172\001\111  
\314\264\106\171\306\027\261\332\230\036\007\131\372\165\041\205  
\145\335\220\126\316\373\253\245\140\235\304\235\371\122\260\213  
\275\207\371\217\053\043\012\043\166\073\367\063\341\311\000\363  
\151\371\113\242\340\116\274\176\223\071\204\007\367\104\160\176  
\376\007\132\345\261\254\321\030\314\362\065\345\111\111\010\312  
\126\311\075\373\017\030\175\213\073\301\023\302\115\217\311\117  
\016\067\351\037\241\016\152\337\142\056\313\065\006\121\171\054  
\310\045\070\364\372\113\247\211\134\234\322\343\015\071\206\112  
\164\174\325\131\207\302\077\116\014\134\122\364\075\367\122\202  
\361\352\243\254\375\111\064\032\050\363\101\210\072\023\356\350  
\336\377\231\035\137\272\313\350\036\362\271\120\140\300\061\323  
\163\345\357\276\240\355\063\013\164\276\040\040\304\147\154\360  
\010\003\172\125\200\177\106\116\226\247\364\036\076\341\366\330  
\011\341\063\144\053\143\327\062\136\237\371\300\173\017\170\157  
\227\274\223\232\371\234\022\220\170\172\200\207\025\327\162\164  
\234\125\164\170\261\272\341\156\160\004\272\117\240\272\150\303  
\173\377\061\360\163\075\075\224\052\261\013\101\016\240\376\115  
\210\145\153\171\063\264\327\002\003\001\000\001\243\102\060\100  
\060\016\006\003\125\035\017\001\001\377\004\004\003\002\001\006  
\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001  
\377\060\035\006\003\125\035\016\004\026\004\024\355\104\031\300  
\323\360\006\213\356\244\173\276\102\347\046\124\310\216\066\166  
\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\003  
\202\002\001\000\015\256\220\062\366\246\113\174\104\166\031\141  
\036\047\050\315\136\124\357\045\274\343\010\220\371\051\327\256  
\150\010\341\224\000\130\357\056\056\176\123\122\214\266\134\007  
\352\210\272\231\213\120\224\327\202\200\337\141\011\000\223\255  
\015\024\346\316\301\362\067\224\170\260\137\234\263\242\163\270  
\217\005\223\070\315\215\076\260\270\373\300\317\261\362\354\055  
\055\033\314\354\252\232\263\252\140\202\033\055\073\303\204\075  
\127\212\226\036\234\165\270\323\060\315\140\010\203\220\323\216  
\124\361\115\146\300\135\164\003\100\243\356\205\176\302\037\167  
\234\006\350\301\247\030\135\122\225\355\311\335\045\236\155\372  
\251\355\243\072\064\320\131\173\332\355\120\363\065\277\355\353



```
\024\115\061\307\140\364\332\361\207\234\342\110\342\306\305\067
\373\006\020\372\165\131\146\061\107\051\332\166\232\034\351\202
\256\357\232\271\121\367\210\043\232\151\225\142\074\345\125\200
\066\327\124\002\377\361\271\135\316\324\043\157\330\105\204\112
\133\145\357\211\014\335\024\247\040\313\030\245\045\264\015\371
\001\360\242\322\364\000\310\164\216\241\052\110\216\145\333\023
\304\342\045\027\175\353\276\207\133\027\040\124\121\223\112\123
\003\013\354\135\312\063\355\142\375\105\307\057\133\334\130\240
\200\071\346\372\327\376\023\024\246\355\075\224\112\102\164\324
\303\167\131\163\315\217\106\276\125\070\357\372\350\221\062\352
\227\130\004\042\336\070\303\314\274\155\311\063\072\152\012\151
\077\240\310\352\162\217\214\143\206\043\275\155\074\226\236\225
\340\111\114\252\242\271\052\033\234\066\201\170\355\303\350\106
\342\046\131\104\165\036\331\165\211\121\315\020\204\235\141\140
\313\135\371\227\042\115\216\230\346\343\177\366\133\273\256\315
\312\112\201\153\136\013\363\121\341\164\053\351\176\047\247\331
\231\111\116\370\245\200\333\045\017\034\143\142\212\311\063\147
\153\074\020\203\306\255\336\250\315\026\216\215\360\007\067\161
\237\362\253\374\101\365\301\213\354\000\067\135\011\345\116\200
\357\372\261\134\070\006\245\033\112\341\334\070\055\074\334\253
\037\220\032\325\112\234\356\321\160\154\314\356\364\127\370\030
\272\204\156\207
```

END

```
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRICT_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRICT_AFTER CK_BBOOL CK_FALSE
```

```
Trust for "IdenTrust Commercial Root CA 1"
```

```
Issuer: CN=IdenTrust Commercial Root CA 1,O=IdenTrust,C=US
```

```
Serial Number:0a:01:42:80:00:00:01:45:23:c8:44:b5:00:00:00:02
```

```
Subject: CN=IdenTrust Commercial Root CA 1,O=IdenTrust,C=US
```

```
Not Valid Before: Thu Jan 16 18:12:23 2014
```

```
Not Valid After : Mon Jan 16 18:12:23 2034
```

```
Fingerprint (SHA-256):
```

```
5D:56:49:9B:E4:D2:E0:8B:CF:CA:D0:8A:3E:38:72:3D:50:50:3B:DE:70:69:48:E4:2F:55:60:30:19:E5:28:AE
```

```
Fingerprint (SHA1): DF:71:7E:AA:4A:D9:4E:C9:55:84:99:60:2D:48:DE:5F:BC:F0:3A:25
```

```
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
```

```
CKA_TOKEN CK_BBOOL CK_TRUE
```

```
CKA_PRIVATE CK_BBOOL CK_FALSE
```

```
CKA_MODIFIABLE CK_BBOOL CK_FALSE
```

```
CKA_LABEL UTF8 "IdenTrust Commercial Root CA 1"
```

```
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
```

```
\337\161\176\252\112\331\116\311\125\204\231\140\055\110\336\137
\274\360\072\045
```

END

```
CKA_CERT_MD5_HASH MULTILINE_OCTAL
```

```
\263\076\167\163\165\356\240\323\343\176\111\143\111\131\273\307
```

END

```

CKA_ISSUER MULTILINE_OCTAL
\060\112\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\022\060\020\006\003\125\004\012\023\011\111\144\145\156\124\162
\165\163\164\061\047\060\045\006\003\125\004\003\023\036\111\144
\145\156\124\162\165\163\164\040\103\157\155\155\145\162\143\151
\141\154\040\122\157\157\164\040\103\101\040\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\012\001\102\200\000\000\001\105\043\310\104\265\000\000
\000\002
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "IdenTrust Public Sector Root CA 1"
#
Issuer: CN=IdenTrust Public Sector Root CA 1,O=IdenTrust,C=US
Serial Number:0a:01:42:80:00:00:01:45:23:cf:46:7c:00:00:00:02
Subject: CN=IdenTrust Public Sector Root CA 1,O=IdenTrust,C=US
Not Valid Before: Thu Jan 16 17:53:32 2014
Not Valid After : Mon Jan 16 17:53:32 2034
Fingerprint (SHA-256):
30:D0:89:5A:9A:44:8A:26:20:91:63:55:22:D1:F5:20:10:B5:86:7A:CA:E1:2C:78:EF:95:8F:D4:F4:38:9F:2F
Fingerprint (SHA1): BA:29:41:60:77:98:3F:F4:F3:EF:F2:31:05:3B:2E:EA:6D:4D:45:FD
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "IdenTrust Public Sector Root CA 1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\115\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\022\060\020\006\003\125\004\012\023\011\111\144\145\156\124\162
\165\163\164\061\052\060\050\006\003\125\004\003\023\041\111\144
\145\156\124\162\165\163\164\040\120\165\142\154\151\143\040\123
\145\143\164\157\162\040\122\157\157\164\040\103\101\040\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\115\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\022\060\020\006\003\125\004\012\023\011\111\144\145\156\124\162
\165\163\164\061\052\060\050\006\003\125\004\003\023\041\111\144
\145\156\124\162\165\163\164\040\120\165\142\154\151\143\040\123
\145\143\164\157\162\040\122\157\157\164\040\103\101\040\061
END

```

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

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

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\005\146\060\202\003\116\240\003\002\001\002\002\020\012  
\001\102\200\000\000\001\105\043\317\106\174\000\000\000\002\060  
\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060\115  
\061\013\060\011\006\003\125\004\006\023\002\125\123\061\022\060  
\020\006\003\125\004\012\023\011\111\144\145\156\124\162\165\163  
\164\061\052\060\050\006\003\125\004\003\023\041\111\144\145\156  
\124\162\165\163\164\040\120\165\142\154\151\143\040\123\145\143  
\164\157\162\040\122\157\157\164\040\103\101\040\061\060\036\027  
\015\061\064\060\061\061\066\061\067\065\063\063\062\132\027\015  
\063\064\060\061\061\066\061\067\065\063\063\062\132\060\115\061  
\013\060\011\006\003\125\004\006\023\002\125\123\061\022\060\020  
\006\003\125\004\012\023\011\111\144\145\156\124\162\165\163\164  
\061\052\060\050\006\003\125\004\003\023\041\111\144\145\156\124  
\162\165\163\164\040\120\165\142\154\151\143\040\123\145\143\164  
\157\162\040\122\157\157\164\040\103\101\040\061\060\202\002\042  
\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003  
\202\002\017\000\060\202\002\012\002\202\002\001\000\266\042\224  
\374\244\110\257\350\107\153\012\373\047\166\344\362\077\212\073  
\172\112\054\061\052\214\215\260\251\303\061\153\250\167\166\204  
\046\266\254\201\102\015\010\353\125\130\273\172\370\274\145\175  
\362\240\155\213\250\107\351\142\166\036\021\356\010\024\321\262  
\104\026\364\352\320\372\036\057\136\333\313\163\101\256\274\000  
\260\112\053\100\262\254\341\073\113\302\055\235\344\241\233\354  
\032\072\036\360\010\263\320\344\044\065\007\237\234\264\311\122  
\155\333\007\312\217\265\133\360\203\363\117\307\055\245\310\255  
\313\225\040\244\061\050\127\130\132\344\215\033\232\253\236\015  
\014\362\012\063\071\042\071\012\227\056\363\123\167\271\104\105  
\375\204\313\066\040\201\131\055\232\157\155\110\110\141\312\114  
\337\123\321\257\122\274\104\237\253\057\153\203\162\357\165\200  
\332\006\063\033\135\310\332\143\306\115\315\254\146\061\315\321  
\336\076\207\020\066\341\271\244\172\357\140\120\262\313\312\246  
\126\340\067\257\253\064\023\071\045\350\071\146\344\230\172\252  
\022\230\234\131\146\206\076\255\361\260\312\076\006\017\173\360  
\021\113\067\240\104\155\173\313\250\214\161\364\325\265\221\066  
\314\360\025\306\053\336\121\027\261\227\114\120\075\261\225\131  
\174\005\175\055\041\325\000\277\001\147\242\136\173\246\134\362  
\367\042\361\220\015\223\333\252\104\121\146\314\175\166\003\353  
\152\250\052\070\031\227\166\015\153\212\141\371\274\366\356\166  
\375\160\053\335\051\074\370\012\036\133\102\034\213\126\057\125  
\033\034\241\056\265\307\026\346\370\252\074\222\216\151\266\001  
\301\265\206\235\211\017\013\070\224\124\350\352\334\236\075\045  
\274\123\046\355\325\253\071\252\305\100\114\124\253\262\264\331  
\331\370\327\162\333\034\274\155\275\145\137\357\210\065\052\146

\057\356\366\263\145\360\063\215\174\230\101\151\106\017\103\034  
\151\372\233\265\320\141\152\315\312\113\331\114\220\106\253\025  
\131\241\107\124\051\056\203\050\137\034\302\242\253\162\027\000  
\006\216\105\354\213\342\063\075\177\332\031\104\344\142\162\303  
\337\042\306\362\126\324\335\137\225\162\355\155\137\367\110\003  
\133\375\305\052\240\366\163\043\204\020\033\001\347\002\003\001  
\000\001\243\102\060\100\060\016\006\003\125\035\017\001\001\377  
\004\004\003\002\001\006\060\017\006\003\125\035\023\001\001\377  
\004\005\060\003\001\001\377\060\035\006\003\125\035\016\004\026  
\004\024\343\161\340\236\330\247\102\331\333\161\221\153\224\223  
\353\303\243\321\024\243\060\015\006\011\052\206\110\206\367\015  
\001\001\013\005\000\003\202\002\001\000\107\372\335\012\260\021  
\221\070\255\115\135\367\345\016\227\124\031\202\110\207\124\214  
\252\144\231\330\132\376\210\001\305\130\245\231\261\043\124\043  
\267\152\035\040\127\345\001\142\101\027\323\011\333\165\313\156  
\124\220\165\376\032\237\201\012\302\335\327\367\011\320\133\162  
\025\344\036\011\152\075\063\363\041\232\346\025\176\255\121\325  
\015\020\355\175\102\300\217\356\300\232\010\325\101\326\134\016  
\041\151\156\200\141\016\025\300\270\317\305\111\022\122\314\276  
\072\314\324\056\070\005\336\065\375\037\157\270\200\150\230\075  
\115\240\312\100\145\322\163\174\365\213\331\012\225\077\330\077  
\043\155\032\321\052\044\031\331\205\263\027\357\170\156\251\130  
\321\043\323\307\023\355\162\045\177\135\261\163\160\320\177\006  
\227\011\204\051\200\141\035\372\136\377\163\254\240\343\211\270  
\034\161\025\306\336\061\177\022\334\341\155\233\257\347\350\237  
\165\170\114\253\106\073\232\316\277\005\030\135\115\025\074\026  
\232\031\120\004\232\262\232\157\145\213\122\137\074\130\004\050  
\045\300\146\141\061\176\271\340\165\271\032\250\201\326\162\027  
\263\305\003\061\065\021\170\170\242\340\351\060\214\177\200\337  
\130\337\074\272\047\226\342\200\064\155\343\230\323\144\047\254  
\110\176\050\167\134\306\045\141\045\370\205\014\145\372\304\062  
\057\245\230\005\344\370\013\147\026\026\306\202\270\062\031\371  
\371\271\171\334\037\315\353\257\253\016\335\033\333\105\344\172  
\347\002\342\225\135\374\151\360\123\151\141\225\165\171\013\136  
\125\346\070\034\224\251\131\063\236\310\161\164\171\177\121\211  
\266\310\152\270\060\310\152\070\303\156\236\341\067\026\352\005  
\142\114\133\022\107\355\247\264\263\130\126\307\111\363\177\022  
\150\011\061\161\360\155\370\116\107\373\326\205\356\305\130\100  
\031\244\035\247\371\113\103\067\334\150\132\117\317\353\302\144  
\164\336\264\025\331\364\124\124\032\057\034\327\227\161\124\220  
\216\331\040\235\123\053\177\253\217\342\352\060\274\120\067\357  
\361\107\265\175\174\054\004\354\150\235\264\111\104\020\364\162  
\113\034\144\347\374\346\153\220\335\151\175\151\375\000\126\245  
\267\254\266\255\267\312\076\001\357\234

END

CKA\_NSS\_MOZILLA\_CA\_POLICY CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

```

Trust for "IdenTrust Public Sector Root CA 1"
Issuer: CN=IdenTrust Public Sector Root CA 1,O=IdenTrust,C=US
Serial Number:0a:01:42:80:00:00:01:45:23:cf:46:7c:00:00:00:02
Subject: CN=IdenTrust Public Sector Root CA 1,O=IdenTrust,C=US
Not Valid Before: Thu Jan 16 17:53:32 2014
Not Valid After : Mon Jan 16 17:53:32 2034
Fingerprint (SHA-256):
30:D0:89:5A:9A:44:8A:26:20:91:63:55:22:D1:F5:20:10:B5:86:7A:CA:E1:2C:78:EF:95:8F:D4:F4:38:9F:2F
Fingerprint (SHA1): BA:29:41:60:77:98:3F:F4:F3:EF:F2:31:05:3B:2E:EA:6D:4D:45:FD
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "IdenTrust Public Sector Root CA 1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\272\051\101\140\167\230\077\364\363\357\362\061\005\073\056\352
\155\115\105\375
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\067\006\245\260\374\211\235\272\364\153\214\032\144\315\325\272
END
CKA_ISSUER MULTILINE_OCTAL
\060\115\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\022\060\020\006\003\125\004\012\023\011\111\144\145\156\124\162
\165\163\164\061\052\060\050\006\003\125\004\003\023\041\111\144
\145\156\124\162\165\163\164\040\120\165\142\154\151\143\040\123
\145\143\164\157\162\040\122\157\157\164\040\103\101\040\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\012\001\102\200\000\000\001\105\043\317\106\174\000\000
\000\002
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Entrust Root Certification Authority - G2"
#
Issuer: CN=Entrust Root Certification Authority - G2,OU="(c) 2009 Entrust, Inc. - for authorized use
only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US
Serial Number: 1246989352 (0x4a538c28)
Subject: CN=Entrust Root Certification Authority - G2,OU="(c) 2009 Entrust, Inc. - for authorized use
only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US
Not Valid Before: Tue Jul 07 17:25:54 2009
Not Valid After : Sat Dec 07 17:55:54 2030

```

```
Fingerprint (SHA-256):
43:DF:57:74:B0:3E:7F:EF:5F:E4:0D:93:1A:7B:ED:F1:BB:2E:6B:42:73:8C:4E:6D:38:41:10:3D:3A:A7:F3:39
Fingerprint (SHA1): 8C:F4:27:FD:79:0C:3A:D1:66:06:8D:E8:1E:57:EF:BB:93:22:72:D4
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Entrust Root Certification Authority - G2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\276\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\026\060\024\006\003\125\004\012\023\015\105\156\164\162\165
\163\164\054\040\111\156\143\056\061\050\060\046\006\003\125\004
\013\023\037\123\145\145\040\167\167\167\056\145\156\164\162\165
\163\164\056\156\145\164\057\154\145\147\141\154\055\164\145\162
\155\163\061\071\060\067\006\003\125\004\013\023\060\050\143\051
\040\062\060\060\071\040\105\156\164\162\165\163\164\054\040\111
\156\143\056\040\055\040\146\157\162\040\141\165\164\150\157\162
\151\172\145\144\040\165\163\145\040\157\156\154\171\061\062\060
\060\006\003\125\004\003\023\051\105\156\164\162\165\163\164\040
\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164\151
\157\156\040\101\165\164\150\157\162\151\164\171\040\055\040\107
\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\276\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\026\060\024\006\003\125\004\012\023\015\105\156\164\162\165
\163\164\054\040\111\156\143\056\061\050\060\046\006\003\125\004
\013\023\037\123\145\145\040\167\167\167\056\145\156\164\162\165
\163\164\056\156\145\164\057\154\145\147\141\154\055\164\145\162
\155\163\061\071\060\067\006\003\125\004\013\023\060\050\143\051
\040\062\060\060\071\040\105\156\164\162\165\163\164\054\040\111
\156\143\056\040\055\040\146\157\162\040\141\165\164\150\157\162
\151\172\145\144\040\165\163\145\040\157\156\154\171\061\062\060
\060\006\003\125\004\003\023\051\105\156\164\162\165\163\164\040
\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164\151
\157\156\040\101\165\164\150\157\162\151\164\171\040\055\040\107
\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\112\123\214\050
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\076\060\202\003\046\240\003\002\001\002\002\004\112
\123\214\050\060\015\006\011\052\206\110\206\367\015\001\001\013
\005\000\060\201\276\061\013\060\011\006\003\125\004\006\023\002
\125\123\061\026\060\024\006\003\125\004\012\023\015\105\156\164
```

\162\165\163\164\054\040\111\156\143\056\061\050\060\046\006\003  
\125\004\013\023\037\123\145\145\040\167\167\167\056\145\156\164  
\162\165\163\164\056\156\145\164\057\154\145\147\141\154\055\164  
\145\162\155\163\061\071\060\067\006\003\125\004\013\023\060\050  
\143\051\040\062\060\060\071\040\105\156\164\162\165\163\164\054  
\040\111\156\143\056\040\055\040\146\157\162\040\141\165\164\150  
\157\162\151\172\145\144\040\165\163\145\040\157\156\154\171\061  
\062\060\060\006\003\125\004\003\023\051\105\156\164\162\165\163  
\164\040\122\157\157\164\040\103\145\162\164\151\146\151\143\141  
\164\151\157\156\040\101\165\164\150\157\162\151\164\171\040\055  
\040\107\062\060\036\027\015\060\071\060\067\060\067\061\067\062  
\065\065\064\132\027\015\063\060\061\062\060\067\061\067\065\065  
\065\064\132\060\201\276\061\013\060\011\006\003\125\004\006\023  
\002\125\123\061\026\060\024\006\003\125\004\012\023\015\105\156  
\164\162\165\163\164\054\040\111\156\143\056\061\050\060\046\006  
\003\125\004\013\023\037\123\145\145\040\167\167\167\056\145\156  
\164\162\165\163\164\056\156\145\164\057\154\145\147\141\154\055  
\164\145\162\155\163\061\071\060\067\006\003\125\004\013\023\060  
\050\143\051\040\062\060\060\071\040\105\156\164\162\165\163\164  
\054\040\111\156\143\056\040\055\040\146\157\162\040\141\165\164  
\150\157\162\151\172\145\144\040\165\163\145\040\157\156\154\171  
\061\062\060\060\006\003\125\004\003\023\051\105\156\164\162\165  
\163\164\040\122\157\157\164\040\103\145\162\164\151\146\151\143  
\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171\040  
\055\040\107\062\060\202\001\042\060\015\006\011\052\206\110\206  
\367\015\001\001\001\005\000\003\202\001\017\000\060\202\001\012  
\002\202\001\001\000\272\204\266\162\333\236\014\153\342\231\351  
\060\001\247\166\352\062\270\225\101\032\311\332\141\116\130\162  
\317\376\366\202\171\277\163\141\006\012\245\047\330\263\137\323  
\105\116\034\162\326\116\062\362\162\212\017\367\203\031\320\152  
\200\200\000\105\036\260\307\347\232\277\022\127\047\034\243\150  
\057\012\207\275\152\153\016\136\145\363\034\167\325\324\205\215  
\160\041\264\263\062\347\213\242\325\206\071\002\261\270\322\107  
\316\344\311\111\304\073\247\336\373\124\175\127\276\360\350\156  
\302\171\262\072\013\125\342\120\230\026\062\023\134\057\170\126  
\301\302\224\263\362\132\344\047\232\237\044\327\306\354\320\233  
\045\202\343\314\302\304\105\305\214\227\172\006\153\052\021\237  
\251\012\156\110\073\157\333\324\021\031\102\367\217\007\277\365  
\123\137\234\076\364\027\054\346\151\254\116\062\114\142\167\352  
\267\350\345\273\064\274\031\213\256\234\121\347\267\176\265\123  
\261\063\042\345\155\317\160\074\032\372\342\233\147\266\203\364  
\215\245\257\142\114\115\340\130\254\144\064\022\003\370\266\215  
\224\143\044\244\161\002\003\001\000\001\243\102\060\100\060\016  
\006\003\125\035\017\001\001\377\004\004\003\002\001\006\060\017  
\006\003\125\035\023\001\001\377\004\005\060\003\001\001\377\060  
\035\006\003\125\035\016\004\026\004\024\152\162\046\172\320\036  
\357\175\347\073\151\121\324\154\215\237\220\022\146\253\060\015  
\006\011\052\206\110\206\367\015\001\001\013\005\000\003\202\001

```
\001\000\171\237\035\226\306\266\171\077\042\215\207\323\207\003
\004\140\152\153\232\056\131\211\163\021\254\103\321\365\023\377
\215\071\053\300\362\275\117\160\214\251\057\352\027\304\013\124
\236\324\033\226\230\063\074\250\255\142\242\000\166\253\131\151
\156\006\035\176\304\271\104\215\230\257\022\324\141\333\012\031
\106\107\363\353\367\143\301\100\005\100\245\322\267\364\265\232
\066\277\251\210\166\210\004\125\004\053\234\207\177\032\067\074
\176\055\245\032\330\324\211\136\312\275\254\075\154\330\155\257
\325\363\166\017\315\073\210\070\042\235\154\223\232\304\075\277
\202\033\145\077\246\017\135\252\374\345\262\025\312\265\255\306
\274\075\320\204\350\352\006\162\260\115\071\062\170\277\076\021
\234\013\244\235\232\041\363\360\233\013\060\170\333\301\334\207
\103\376\274\143\232\312\305\302\034\311\307\215\377\073\022\130
\010\346\266\075\354\172\054\116\373\203\226\316\014\074\151\207
\124\163\244\163\302\223\377\121\020\254\025\124\001\330\374\005
\261\211\241\177\164\203\232\111\327\334\116\173\212\110\157\213
\105\366
```

END

```
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRICT_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRICT_AFTER CK_BBOOL CK_FALSE
```

```
Trust for "Entrust Root Certification Authority - G2"
```

```
Issuer: CN=Entrust Root Certification Authority - G2,OU="(c) 2009 Entrust, Inc. - for authorized use
only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US
```

```
Serial Number: 1246989352 (0x4a538c28)
```

```
Subject: CN=Entrust Root Certification Authority - G2,OU="(c) 2009 Entrust, Inc. - for authorized use
only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US
```

```
Not Valid Before: Tue Jul 07 17:25:54 2009
```

```
Not Valid After : Sat Dec 07 17:55:54 2030
```

```
Fingerprint (SHA-256):
```

```
43:DF:57:74:B0:3E:7F:EF:5F:E4:0D:93:1A:7B:ED:F1:BB:2E:6B:42:73:8C:4E:6D:38:41:10:3D:3A:A7:F3:39
```

```
Fingerprint (SHA1): 8C:F4:27:FD:79:0C:3A:D1:66:06:8D:E8:1E:57:EF:BB:93:22:72:D4
```

```
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
```

```
CKA_TOKEN CK_BBOOL CK_TRUE
```

```
CKA_PRIVATE CK_BBOOL CK_FALSE
```

```
CKA_MODIFIABLE CK_BBOOL CK_FALSE
```

```
CKA_LABEL UTF8 "Entrust Root Certification Authority - G2"
```

```
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
```

```
\214\364\047\375\171\014\072\321\146\006\215\350\036\127\357\273
\223\042\162\324
```

END

```
CKA_CERT_MD5_HASH MULTILINE_OCTAL
```

```
\113\342\311\221\226\145\014\364\016\132\223\222\240\012\376\262
```

END

```
CKA_ISSUER MULTILINE_OCTAL
```

```
\060\201\276\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\026\060\024\006\003\125\004\012\023\015\105\156\164\162\165
```



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

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

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

END

CKA\_TRUST\_SERVER\_AUTH CK\_TRUST CKT\_NSS\_TRUSTED\_DELEGATOR

CKA\_TRUST\_EMAIL\_PROTECTION CK\_TRUST CKT\_NSS\_TRUSTED\_DELEGATOR

CKA\_TRUST\_CODE\_SIGNING CK\_TRUST CKT\_NSS\_MUST\_VERIFY\_TRUST

CKA\_TRUST\_STEP\_UP\_APPROVED CK\_BBOOL CK\_FALSE

#

# Certificate "Entrust Root Certification Authority - EC1"

#

# Issuer: CN=Entrust Root Certification Authority - EC1,OU="(c) 2012 Entrust, Inc. - for authorized use only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US

# Serial Number:00:a6:8b:79:29:00:00:00:00:50:d0:91:f9

# Subject: CN=Entrust Root Certification Authority - EC1,OU="(c) 2012 Entrust, Inc. - for authorized use only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US

# Not Valid Before: Tue Dec 18 15:25:36 2012

# Not Valid After : Fri Dec 18 15:55:36 2037

# Fingerprint (SHA-256):

02:ED:0E:B2:8C:14:DA:45:16:5C:56:67:91:70:0D:64:51:D7:FB:56:F0:B2:AB:1D:3B:8E:B0:70:E5:6E:DF:F5

# Fingerprint (SHA1): 20:D8:06:40:DF:9B:25:F5:12:25:3A:11:EA:F7:59:8A:EB:14:B5:47

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_CERTIFICATE

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "Entrust Root Certification Authority - EC1"

CKA\_CERTIFICATE\_TYPE CK\_CERTIFICATE\_TYPE CKC\_X\_509

CKA\_SUBJECT MULTILINE\_OCTAL

```
\060\201\277\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\026\060\024\006\003\125\004\012\023\015\105\156\164\162\165
\163\164\054\040\111\156\143\056\061\050\060\046\006\003\125\004
\013\023\037\123\145\145\040\167\167\167\056\145\156\164\162\165
\163\164\056\156\145\164\057\154\145\147\141\154\055\164\145\162
\155\163\061\071\060\067\006\003\125\004\013\023\060\050\143\051
\040\062\060\061\062\040\105\156\164\162\165\163\164\054\040\111
\156\143\056\040\055\040\146\157\162\040\141\165\164\150\157\162
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\151\172\145\144\040\165\163\145\040\157\156\154\171\061\063\060  
\061\006\003\125\004\003\023\052\105\156\164\162\165\163\164\040  
\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164\151  
\157\156\040\101\165\164\150\157\162\151\164\171\040\055\040\105  
\103\061

END

CKA\_ID UTF8 "0"

CKA\_ISSUER MULTILINE\_OCTAL

\060\201\277\061\013\060\011\006\003\125\004\006\023\002\125\123  
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\163\164\054\040\111\156\143\056\061\050\060\046\006\003\125\004  
\013\023\037\123\145\145\040\167\167\167\056\145\156\164\162\165  
\163\164\056\156\145\164\057\154\145\147\141\154\055\164\145\162  
\155\163\061\071\060\067\006\003\125\004\013\023\060\050\143\051  
\040\062\060\061\062\040\105\156\164\162\165\163\164\054\040\111  
\156\143\056\040\055\040\146\157\162\040\141\165\164\150\157\162  
\151\172\145\144\040\165\163\145\040\157\156\154\171\061\063\060  
\061\006\003\125\004\003\023\052\105\156\164\162\165\163\164\040  
\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164\151  
\157\156\040\101\165\164\150\157\162\151\164\171\040\055\040\105  
\103\061

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

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

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\002\371\060\202\002\200\240\003\002\001\002\002\015\000  
\246\213\171\051\000\000\000\000\120\320\221\371\060\012\006\010  
\052\206\110\316\075\004\003\003\060\201\277\061\013\060\011\006  
\003\125\004\006\023\002\125\123\061\026\060\024\006\003\125\004  
\012\023\015\105\156\164\162\165\163\164\054\040\111\156\143\056  
\061\050\060\046\006\003\125\004\013\023\037\123\145\145\040\167  
\167\167\056\145\156\164\162\165\163\164\056\156\145\164\057\154  
\145\147\141\154\055\164\145\162\155\163\061\071\060\067\006\003  
\125\004\013\023\060\050\143\051\040\062\060\061\062\040\105\156  
\164\162\165\163\164\054\040\111\156\143\056\040\055\040\146\157  
\162\040\141\165\164\150\157\162\151\172\145\144\040\165\163\145  
\040\157\156\154\171\061\063\060\061\006\003\125\004\003\023\052  
\105\156\164\162\165\163\164\040\122\157\157\164\040\103\145\162  
\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157  
\162\151\164\171\040\055\040\105\103\061\060\036\027\015\061\062  
\061\062\061\070\061\065\062\065\063\066\132\027\015\063\067\061  
\062\061\070\061\065\065\065\063\066\132\060\201\277\061\013\060  
\011\006\003\125\004\006\023\002\125\123\061\026\060\024\006\003  
\125\004\012\023\015\105\156\164\162\165\163\164\054\040\111\156  
\143\056\061\050\060\046\006\003\125\004\013\023\037\123\145\145  
\040\167\167\167\056\145\156\164\162\165\163\164\056\156\145\164  
\057\154\145\147\141\154\055\164\145\162\155\163\061\071\060\067

\006\003\125\004\013\023\060\050\143\051\040\062\060\061\062\040  
\105\156\164\162\165\163\164\054\040\111\156\143\056\040\055\040  
\146\157\162\040\141\165\164\150\157\162\151\172\145\144\040\165  
\163\145\040\157\156\154\171\061\063\060\061\006\003\125\004\003  
\023\052\105\156\164\162\165\163\164\040\122\157\157\164\040\103  
\145\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164  
\150\157\162\151\164\171\040\055\040\105\103\061\060\166\060\020  
\006\007\052\206\110\316\075\002\001\006\005\053\201\004\000\042  
\003\142\000\004\204\023\311\320\272\155\101\173\342\154\320\353  
\125\137\146\002\032\044\364\133\211\151\107\343\270\302\175\361  
\362\002\305\237\240\366\133\325\213\006\031\206\117\123\020\155  
\007\044\047\241\240\370\325\107\031\141\114\175\312\223\047\352  
\164\014\357\157\226\011\376\143\354\160\135\066\255\147\167\256  
\311\235\174\125\104\072\242\143\121\037\365\343\142\324\251\107  
\007\076\314\040\243\102\060\100\060\016\006\003\125\035\017\001  
\001\377\004\004\003\002\001\006\060\017\006\003\125\035\023\001  
\001\377\004\005\060\003\001\001\377\060\035\006\003\125\035\016  
\004\026\004\024\267\143\347\032\335\215\351\010\246\125\203\244  
\340\152\120\101\145\021\102\111\060\012\006\010\052\206\110\316  
\075\004\003\003\003\147\000\060\144\002\060\141\171\330\345\102  
\107\337\034\256\123\231\027\266\157\034\175\341\277\021\224\321  
\003\210\165\344\215\211\244\212\167\106\336\155\141\357\002\365  
\373\265\337\314\376\116\377\376\251\346\247\002\060\133\231\327  
\205\067\006\265\173\010\375\353\047\213\112\224\371\341\372\247  
\216\046\010\350\174\222\150\155\163\330\157\046\254\041\002\270  
\231\267\046\101\133\045\140\256\320\110\032\356\006

END

CKA\_NSS\_MOZILLA\_CA\_POLICY CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "Entrust Root Certification Authority - EC1"

# Issuer: CN=Entrust Root Certification Authority - EC1,OU="(c) 2012 Entrust, Inc. - for authorized use only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US

# Serial Number:00:a6:8b:79:29:00:00:00:50:d0:91:f9

# Subject: CN=Entrust Root Certification Authority - EC1,OU="(c) 2012 Entrust, Inc. - for authorized use only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US

# Not Valid Before: Tue Dec 18 15:25:36 2012

# Not Valid After : Fri Dec 18 15:55:36 2037

# Fingerprint (SHA-256):

02:ED:0E:B2:8C:14:DA:45:16:5C:56:67:91:70:0D:64:51:D7:FB:56:F0:B2:AB:1D:3B:8E:B0:70:E5:6E:DF:F5

# Fingerprint (SHA1): 20:D8:06:40:DF:9B:25:F5:12:25:3A:11:EA:F7:59:8A:EB:14:B5:47

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "Entrust Root Certification Authority - EC1"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

\040\330\006\100\337\233\045\365\022\045\072\021\352\367\131\212  
\353\024\265\107

END

CKA\_CERT\_MD5\_HASH MULTILINE\_OCTAL

\266\176\035\360\130\305\111\154\044\073\075\355\230\030\355\274

END

CKA\_ISSUER MULTILINE\_OCTAL

\060\201\277\061\013\060\011\006\003\125\004\006\023\002\125\123  
\061\026\060\024\006\003\125\004\012\023\015\105\156\164\162\165  
\163\164\054\040\111\156\143\056\061\050\060\046\006\003\125\004  
\013\023\037\123\145\145\040\167\167\167\056\145\156\164\162\165  
\163\164\056\156\145\164\057\154\145\147\141\154\055\164\145\162  
\155\163\061\071\060\067\006\003\125\004\013\023\060\050\143\051  
\040\062\060\061\062\040\105\156\164\162\165\163\164\054\040\111  
\156\143\056\040\055\040\146\157\162\040\141\165\164\150\157\162  
\151\172\145\144\040\165\163\145\040\157\156\154\171\061\063\060  
\061\006\003\125\004\003\023\052\105\156\164\162\165\163\164\040  
\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164\151  
\157\156\040\101\165\164\150\157\162\151\164\171\040\055\040\105  
\103\061

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

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

END

CKA\_TRUST\_SERVER\_AUTH CK\_TRUST CKT\_NSS\_TRUSTED\_DELEGATOR

CKA\_TRUST\_EMAIL\_PROTECTION CK\_TRUST CKT\_NSS\_TRUSTED\_DELEGATOR

CKA\_TRUST\_CODE\_SIGNING CK\_TRUST CKT\_NSS\_MUST\_VERIFY\_TRUST

CKA\_TRUST\_STEP\_UP\_APPROVED CK\_BBOOL CK\_FALSE

#

# Certificate "CFCA EV ROOT"

#

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

# Serial Number: 407555286 (0x184accd6)

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

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

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

# Fingerprint (SHA-256):

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

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

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_CERTIFICATE

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "CFCA EV ROOT"

CKA\_CERTIFICATE\_TYPE CK\_CERTIFICATE\_TYPE CKC\_X\_509

CKA\_SUBJECT MULTILINE\_OCTAL

\060\126\061\013\060\011\006\003\125\004\006\023\002\103\116\061

\060\060\056\006\003\125\004\012\014\047\103\150\151\156\141\040  
\106\151\156\141\156\143\151\141\154\040\103\145\162\164\151\146  
\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164  
\171\061\025\060\023\006\003\125\004\003\014\014\103\106\103\101  
\040\105\126\040\122\117\117\124

END

CKA\_ID UTF8 "0"

CKA\_ISSUER MULTILINE\_OCTAL

\060\126\061\013\060\011\006\003\125\004\006\023\002\103\116\061  
\060\060\056\006\003\125\004\012\014\047\103\150\151\156\141\040  
\106\151\156\141\156\143\151\141\154\040\103\145\162\164\151\146  
\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164  
\171\061\025\060\023\006\003\125\004\003\014\014\103\106\103\101  
\040\105\126\040\122\117\117\124

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

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

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\005\215\060\202\003\165\240\003\002\001\002\002\004\030  
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\005\000\060\126\061\013\060\011\006\003\125\004\006\023\002\103  
\116\061\060\060\056\006\003\125\004\012\014\047\103\150\151\156  
\141\040\106\151\156\141\156\143\151\141\154\040\103\145\162\164  
\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162  
\151\164\171\061\025\060\023\006\003\125\004\003\014\014\103\106  
\103\101\040\105\126\040\122\117\117\124\060\036\027\015\061\062  
\060\070\060\070\060\063\060\067\060\061\132\027\015\062\071\061  
\062\063\061\060\063\060\067\060\061\132\060\126\061\013\060\011  
\006\003\125\004\006\023\002\103\116\061\060\060\056\006\003\125  
\004\012\014\047\103\150\151\156\141\040\106\151\156\141\156\143  
\151\141\154\040\103\145\162\164\151\146\151\143\141\164\151\157  
\156\040\101\165\164\150\157\162\151\164\171\061\025\060\023\006  
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\117\124\060\202\002\042\060\015\006\011\052\206\110\206\367\015  
\001\001\001\005\000\003\202\002\017\000\060\202\002\012\002\202  
\002\001\000\327\135\153\315\020\077\037\005\131\325\005\115\067  
\261\016\354\230\053\216\025\035\372\223\113\027\202\041\161\020  
\122\327\121\144\160\026\302\125\151\115\216\025\155\237\277\014  
\033\302\340\243\147\326\014\254\317\042\256\257\167\124\052\113  
\114\212\123\122\172\303\356\056\336\263\161\045\301\351\135\075  
\356\241\057\243\367\052\074\311\043\035\152\253\035\241\247\361  
\363\354\240\325\104\317\025\317\162\057\035\143\227\350\231\371  
\375\223\244\124\200\114\122\324\122\253\056\111\337\220\315\270  
\137\276\077\336\241\312\115\040\324\045\350\204\051\123\267\261  
\210\037\377\372\332\220\237\012\251\055\101\077\261\361\030\051  
\356\026\131\054\064\111\032\250\006\327\250\210\322\003\162\172  
\062\342\352\150\115\156\054\226\145\173\312\131\372\362\342\335

\356\060\054\373\314\106\254\304\143\353\157\177\066\053\064\163  
\022\224\177\337\314\046\236\361\162\135\120\145\131\217\151\263  
\207\136\062\157\303\030\212\265\225\217\260\172\067\336\132\105  
\073\307\066\341\357\147\321\071\323\227\133\163\142\031\110\055  
\207\034\006\373\164\230\040\111\163\360\005\322\033\261\240\243  
\267\033\160\323\210\151\271\132\326\070\364\142\334\045\213\170  
\277\370\350\176\270\134\311\225\117\137\247\055\271\040\153\317  
\153\335\365\015\364\202\267\364\262\146\056\020\050\366\227\132  
\173\226\026\217\001\031\055\154\156\177\071\130\006\144\203\001  
\203\203\303\115\222\335\062\306\207\244\067\351\026\316\252\055  
\150\257\012\201\145\072\160\301\233\255\115\155\124\312\052\055  
\113\205\033\263\200\346\160\105\015\153\136\065\360\177\073\270  
\234\344\004\160\211\022\045\223\332\012\231\042\140\152\143\140  
\116\166\006\230\116\275\203\255\035\130\212\045\205\322\307\145  
\036\055\216\306\337\266\306\341\177\212\004\041\025\051\164\360  
\076\234\220\235\014\056\361\212\076\132\252\014\011\036\307\325  
\074\243\355\227\303\036\064\372\070\371\010\016\343\300\135\053  
\203\321\126\152\311\266\250\124\123\056\170\062\147\075\202\177  
\164\320\373\341\266\005\140\271\160\333\216\013\371\023\130\157  
\161\140\020\122\020\271\301\101\011\357\162\037\147\061\170\377  
\226\005\215\002\003\001\000\001\243\143\060\141\060\037\006\003  
\125\035\043\004\030\060\026\200\024\343\376\055\375\050\320\013  
\265\272\266\242\304\277\006\252\005\214\223\373\057\060\017\006  
\003\125\035\023\001\001\377\004\005\060\003\001\001\377\060\016  
\006\003\125\035\017\001\001\377\004\004\003\002\001\006\060\035  
\006\003\125\035\016\004\026\004\024\343\376\055\375\050\320\013  
\265\272\266\242\304\277\006\252\005\214\223\373\057\060\015\006  
\011\052\206\110\206\367\015\001\001\013\005\000\003\202\002\001  
\000\045\306\272\153\353\207\313\336\202\071\226\075\360\104\247  
\153\204\163\003\336\235\053\117\272\040\177\274\170\262\317\227  
\260\033\234\363\327\171\056\365\110\266\322\373\027\210\346\323  
\172\077\355\123\023\320\342\057\152\171\313\000\043\050\346\036  
\067\127\065\211\204\302\166\117\064\066\255\147\303\316\101\006  
\210\305\367\356\330\032\270\326\013\177\120\377\223\252\027\113  
\214\354\355\122\140\262\244\006\352\116\353\364\153\031\375\353  
\365\032\340\045\052\232\334\307\101\066\367\310\164\005\204\071  
\225\071\326\013\073\244\047\372\010\330\134\036\370\004\140\122  
\021\050\050\003\377\357\123\146\000\245\112\064\026\146\174\375  
\011\244\256\236\147\032\157\101\013\153\006\023\233\217\206\161  
\005\264\057\215\211\146\063\051\166\124\232\021\370\047\372\262  
\077\221\340\316\015\033\363\060\032\255\277\042\135\033\323\277  
\045\005\115\341\222\032\177\231\237\074\104\223\312\324\100\111  
\154\200\207\327\004\072\303\062\122\065\016\126\370\245\335\175  
\304\213\015\021\037\123\313\036\262\027\266\150\167\132\340\324  
\313\310\007\256\365\072\056\216\067\267\320\001\113\103\051\167  
\214\071\227\217\202\132\370\121\345\211\240\030\347\150\177\135  
\012\056\373\243\107\016\075\246\043\172\306\001\307\217\310\136  
\277\155\200\126\276\212\044\272\063\352\237\341\062\021\236\361

\322\117\200\366\033\100\257\070\236\021\120\171\163\022\022\315  
\346\154\235\054\210\162\074\060\201\006\221\042\352\131\255\332  
\031\056\042\302\215\271\214\207\340\146\274\163\043\137\041\144  
\143\200\110\365\240\074\030\075\224\310\110\101\035\100\272\136  
\376\376\126\071\241\310\317\136\236\031\144\106\020\332\027\221  
\267\005\200\254\213\231\222\175\347\242\330\007\013\066\047\347  
\110\171\140\212\303\327\023\134\370\162\100\337\112\313\317\231  
\000\012\000\013\021\225\332\126\105\003\210\012\237\147\320\325  
\171\261\250\215\100\155\015\302\172\100\372\363\137\144\107\222  
\313\123\271\273\131\316\117\375\320\025\123\001\330\337\353\331  
\346\166\357\320\043\273\073\251\171\263\325\002\051\315\211\243  
\226\017\112\065\347\116\102\300\165\315\007\317\346\054\353\173  
\056

END

CKA\_NSS\_MOZILLA\_CA\_POLICY CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "CFCA EV ROOT"

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

# Serial Number: 407555286 (0x184accd6)

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

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

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

# Fingerprint (SHA-256):

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

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

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "CFCA EV ROOT"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

\342\270\051\113\125\204\253\153\130\302\220\106\154\254\077\270  
\071\217\204\203

END

CKA\_CERT\_MD5\_HASH MULTILINE\_OCTAL

\164\341\266\355\046\172\172\104\060\063\224\253\173\047\201\060  
END

CKA\_ISSUER MULTILINE\_OCTAL

\060\126\061\013\060\011\006\003\125\004\006\023\002\103\116\061  
\060\060\056\006\003\125\004\012\014\047\103\150\151\156\141\040  
\106\151\156\141\156\143\151\141\154\040\103\145\162\164\151\146  
\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164  
\171\061\025\060\023\006\003\125\004\003\014\014\103\106\103\101  
\040\105\126\040\122\117\117\124

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

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

END

CKA\_TRUST\_SERVER\_AUTH CK\_TRUST CKT\_NSS\_TRUSTED\_DELEGATOR  
CKA\_TRUST\_EMAIL\_PROTECTION CK\_TRUST CKT\_NSS\_MUST\_VERIFY\_TRUST  
CKA\_TRUST\_CODE\_SIGNING CK\_TRUST CKT\_NSS\_MUST\_VERIFY\_TRUST  
CKA\_TRUST\_STEP\_UP\_APPROVED CK\_BBOOL CK\_FALSE

#

# Certificate "OISTE WISeKey Global Root GB CA"

#

# Issuer: CN=OISTE WISeKey Global Root GB CA,OU=OISTE Foundation Endorsed,O=WISeKey,C=CH

# Serial Number:76:b1:20:52:74:f0:85:87:46:b3:f8:23:1a:f6:c2:c0

# Subject: CN=OISTE WISeKey Global Root GB CA,OU=OISTE Foundation Endorsed,O=WISeKey,C=CH

# Not Valid Before: Mon Dec 01 15:00:32 2014

# Not Valid After : Thu Dec 01 15:10:31 2039

# Fingerprint (SHA-256):

6B:9C:08:E8:6E:B0:F7:67:CF:AD:65:CD:98:B6:21:49:E5:49:4A:67:F5:84:5E:7B:D1:ED:01:9F:27:B8:6B:D6

# Fingerprint (SHA1): 0F:F9:40:76:18:D3:D7:6A:4B:98:F0:A8:35:9E:0C:FD:27:AC:CC:ED

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_CERTIFICATE

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "OISTE WISeKey Global Root GB CA"

CKA\_CERTIFICATE\_TYPE CK\_CERTIFICATE\_TYPE CKC\_X\_509

CKA\_SUBJECT MULTILINE\_OCTAL

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

END

CKA\_ID UTF8 "0"

CKA\_ISSUER MULTILINE\_OCTAL

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

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

\002\020\166\261\040\122\164\360\205\207\106\263\370\043\032\366  
\302\300

END

CKA\_VALUE MULTILINE\_OCTAL



\060\202\003\265\060\202\002\235\240\003\002\001\002\002\020\166  
\261\040\122\164\360\205\207\106\263\370\043\032\366\302\300\060  
\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060\155  
\061\013\060\011\006\003\125\004\006\023\002\103\110\061\020\060  
\016\006\003\125\004\012\023\007\127\111\123\145\113\145\171\061  
\042\060\040\006\003\125\004\013\023\031\117\111\123\124\105\040  
\106\157\165\156\144\141\164\151\157\156\040\105\156\144\157\162  
\163\145\144\061\050\060\046\006\003\125\004\003\023\037\117\111  
\123\124\105\040\127\111\123\145\113\145\171\040\107\154\157\142  
\141\154\040\122\157\157\164\040\107\102\040\103\101\060\036\027  
\015\061\064\061\062\060\061\061\065\060\060\063\062\132\027\015  
\063\071\061\062\060\061\061\065\061\060\063\061\132\060\155\061  
\013\060\011\006\003\125\004\006\023\002\103\110\061\020\060\016  
\006\003\125\004\012\023\007\127\111\123\145\113\145\171\061\042  
\060\040\006\003\125\004\013\023\031\117\111\123\124\105\040\106  
\157\165\156\144\141\164\151\157\156\040\105\156\144\157\162\163  
\145\144\061\050\060\046\006\003\125\004\003\023\037\117\111\123  
\124\105\040\127\111\123\145\113\145\171\040\107\154\157\142\141  
\154\040\122\157\157\164\040\107\102\040\103\101\060\202\001\042  
\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003  
\202\001\017\000\060\202\001\012\002\202\001\001\000\330\027\267  
\034\112\044\052\326\227\261\312\342\036\373\175\070\357\230\365  
\262\071\230\116\047\270\021\135\173\322\045\224\210\202\025\046  
\152\033\061\273\250\133\041\041\053\330\017\116\237\132\361\261  
\132\344\171\326\062\043\053\341\123\314\231\105\134\173\117\255  
\274\277\207\112\013\113\227\132\250\366\110\354\175\173\015\315  
\041\006\337\236\025\375\101\212\110\267\040\364\241\172\033\127  
\324\135\120\377\272\147\330\043\231\037\310\077\343\336\377\157  
\133\167\261\153\156\270\311\144\367\341\312\101\106\016\051\161  
\320\271\043\374\311\201\137\116\367\157\337\277\204\255\163\144  
\273\267\102\216\151\366\324\166\035\176\235\247\270\127\212\121  
\147\162\327\324\250\270\225\124\100\163\003\366\352\364\353\376  
\050\102\167\077\235\043\033\262\266\075\200\024\007\114\056\117  
\367\325\012\026\015\275\146\103\067\176\043\103\171\303\100\206  
\365\114\051\332\216\232\255\015\245\004\207\210\036\205\343\351  
\123\325\233\310\213\003\143\170\353\340\031\112\156\273\057\153  
\063\144\130\223\255\151\277\217\033\357\202\110\307\002\003\001  
\000\001\243\121\060\117\060\013\006\003\125\035\017\004\004\003  
\002\001\206\060\017\006\003\125\035\023\001\001\377\004\005\060  
\003\001\001\377\060\035\006\003\125\035\016\004\026\004\024\065  
\017\310\066\143\136\342\243\354\371\073\146\025\316\121\122\343  
\221\232\075\060\020\006\011\053\006\001\004\001\202\067\025\001  
\004\003\002\001\000\060\015\006\011\052\206\110\206\367\015\001  
\001\013\005\000\003\202\001\001\000\100\114\373\207\262\231\201  
\220\176\235\305\260\260\046\315\210\173\053\062\215\156\270\041  
\161\130\227\175\256\067\024\257\076\347\367\232\342\175\366\161  
\230\231\004\252\103\164\170\243\343\111\141\076\163\214\115\224  
\340\371\161\304\266\026\016\123\170\037\326\242\207\057\002\071

```
\201\051\074\257\025\230\041\060\376\050\220\000\214\321\341\313
\372\136\310\375\370\020\106\073\242\170\102\221\027\164\125\012
\336\120\147\115\146\321\247\377\375\331\300\265\250\243\212\316
\146\365\017\103\315\247\053\127\173\143\106\152\252\056\122\330
\364\355\341\155\255\051\220\170\110\272\341\043\252\243\211\354
\265\253\226\300\264\113\242\035\227\236\172\362\156\100\161\337
\150\361\145\115\316\174\005\337\123\145\251\245\360\261\227\004
\160\025\106\003\230\324\322\277\124\264\240\130\175\122\157\332
\126\046\142\324\330\333\211\061\157\034\360\042\302\323\142\034
\065\315\114\151\025\124\032\220\230\336\353\036\137\312\167\307
\313\216\075\103\151\234\232\130\320\044\073\337\033\100\226\176
\065\255\201\307\116\161\272\210\023
```

END

```
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRICT_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRICT_AFTER CK_BBOOL CK_FALSE
```

```
Trust for "OISTE WISEKey Global Root GB CA"
```

```
Issuer: CN=OISTE WISEKey Global Root GB CA,OU=OISTE Foundation Endorsed,O=WISEKey,C=CH
```

```
Serial Number:76:b1:20:52:74:f0:85:87:46:b3:f8:23:1a:f6:c2:c0
```

```
Subject: CN=OISTE WISEKey Global Root GB CA,OU=OISTE Foundation Endorsed,O=WISEKey,C=CH
```

```
Not Valid Before: Mon Dec 01 15:00:32 2014
```

```
Not Valid After : Thu Dec 01 15:10:31 2039
```

```
Fingerprint (SHA-256):
```

```
6B:9C:08:E8:6E:B0:F7:67:CF:AD:65:CD:98:B6:21:49:E5:49:4A:67:F5:84:5E:7B:D1:ED:01:9F:27:B8:6B:D6
```

```
Fingerprint (SHA1): 0F:F9:40:76:18:D3:D7:6A:4B:98:F0:A8:35:9E:0C:FD:27:AC:CC:ED
```

```
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
```

```
CKA_TOKEN CK_BBOOL CK_TRUE
```

```
CKA_PRIVATE CK_BBOOL CK_FALSE
```

```
CKA_MODIFIABLE CK_BBOOL CK_FALSE
```

```
CKA_LABEL UTF8 "OISTE WISEKey Global Root GB CA"
```

```
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
```

```
\017\371\100\166\030\323\327\152\113\230\360\250\065\236\014\375
```

```
\047\254\314\355
```

END

```
CKA_CERT_MD5_HASH MULTILINE_OCTAL
```

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

END

```
CKA_ISSUER MULTILINE_OCTAL
```

```
\060\155\061\013\060\011\006\003\125\004\006\023\002\103\110\061
```

```
\020\060\016\006\003\125\004\012\023\007\127\111\123\145\113\145
```

```
\171\061\042\060\040\006\003\125\004\013\023\031\117\111\123\124
```

```
\105\040\106\157\165\156\144\141\164\151\157\156\040\105\156\144
```

```
\157\162\163\145\144\061\050\060\046\006\003\125\004\003\023\037
```

```
\117\111\123\124\105\040\127\111\123\145\113\145\171\040\107\154
```

```
\157\142\141\154\040\122\157\157\164\040\107\102\040\103\101
```

END

```
CKA_SERIAL_NUMBER MULTILINE_OCTAL
```

```

\002\020\166\261\040\122\164\360\205\207\106\263\370\043\032\366
\302\300
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "SZAFIR ROOT CA2"
#
Issuer: CN=SZAFIR ROOT CA2,O=Krajowa Izba Rozliczeniowa S.A.,C=PL
Serial Number:3e:8a:5d:07:ec:55:d2:32:d5:b7:e3:b6:5f:01:eb:2d:dc:e4:d6:e4
Subject: CN=SZAFIR ROOT CA2,O=Krajowa Izba Rozliczeniowa S.A.,C=PL
Not Valid Before: Mon Oct 19 07:43:30 2015
Not Valid After : Fri Oct 19 07:43:30 2035
Fingerprint (SHA-256):
A1:33:9D:33:28:1A:0B:56:E5:57:D3:D3:2B:1C:E7:F9:36:7E:B0:94:BD:5F:A7:2A:7E:50:04:C8:DE:D7:CA:FE
Fingerprint (SHA1): E2:52:FA:95:3F:ED:DB:24:60:BD:6E:28:F3:9C:CC:CF:5E:B3:3F:DE
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SZAFIR ROOT CA2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\121\061\013\060\011\006\003\125\004\006\023\002\120\114\061
\050\060\046\006\003\125\004\012\014\037\113\162\141\152\157\167
\141\040\111\172\142\141\040\122\157\172\154\151\143\172\145\156
\151\157\167\141\040\123\056\101\056\061\030\060\026\006\003\125
\004\003\014\017\123\132\101\106\111\122\040\122\117\117\124\040
\103\101\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\121\061\013\060\011\006\003\125\004\006\023\002\120\114\061
\050\060\046\006\003\125\004\012\014\037\113\162\141\152\157\167
\141\040\111\172\142\141\040\122\157\172\154\151\143\172\145\156
\151\157\167\141\040\123\056\101\056\061\030\060\026\006\003\125
\004\003\014\017\123\132\101\106\111\122\040\122\117\117\124\040
\103\101\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\076\212\135\007\354\125\322\062\325\267\343\266\137\001
\353\055\334\344\326\344
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\162\060\202\002\132\240\003\002\001\002\002\024\076

```

\212\135\007\354\125\322\062\325\267\343\266\137\001\353\055\334  
\344\326\344\060\015\006\011\052\206\110\206\367\015\001\001\013  
\005\000\060\121\061\013\060\011\006\003\125\004\006\023\002\120  
\114\061\050\060\046\006\003\125\004\012\014\037\113\162\141\152  
\157\167\141\040\111\172\142\141\040\122\157\172\154\151\143\172  
\145\156\151\157\167\141\040\123\056\101\056\061\030\060\026\006  
\003\125\004\003\014\017\123\132\101\106\111\122\040\122\117\117  
\124\040\103\101\062\060\036\027\015\061\065\061\060\061\071\060  
\067\064\063\063\060\132\027\015\063\065\061\060\061\071\060\067  
\064\063\063\060\132\060\121\061\013\060\011\006\003\125\004\006  
\023\002\120\114\061\050\060\046\006\003\125\004\012\014\037\113  
\162\141\152\157\167\141\040\111\172\142\141\040\122\157\172\154  
\151\143\172\145\156\151\157\167\141\040\123\056\101\056\061\030  
\060\026\006\003\125\004\003\014\017\123\132\101\106\111\122\040  
\122\117\117\124\040\103\101\062\060\202\001\042\060\015\006\011  
\052\206\110\206\367\015\001\001\001\005\000\003\202\001\017\000  
\060\202\001\012\002\202\001\001\000\267\274\076\120\250\113\315  
\100\265\316\141\347\226\312\264\241\332\014\042\260\372\265\173  
\166\000\167\214\013\317\175\250\206\314\046\121\344\040\075\205  
\014\326\130\343\347\364\052\030\235\332\321\256\046\356\353\123  
\334\364\220\326\023\112\014\220\074\303\364\332\322\216\015\222  
\072\334\261\261\377\070\336\303\272\055\137\200\271\002\275\112  
\235\033\017\264\303\302\301\147\003\335\334\033\234\075\263\260  
\336\000\036\250\064\107\273\232\353\376\013\024\275\066\204\332  
\015\040\277\372\133\313\251\026\040\255\071\140\356\057\165\266  
\347\227\234\371\076\375\176\115\157\115\057\357\210\015\152\372  
\335\361\075\156\040\245\240\022\264\115\160\271\316\327\162\073  
\211\223\247\200\204\034\047\111\162\111\265\377\073\225\236\301  
\314\310\001\354\350\016\212\012\226\347\263\246\207\345\326\371  
\005\053\015\227\100\160\074\272\254\165\132\234\325\115\235\002  
\012\322\113\233\146\113\106\007\027\145\255\237\154\210\000\334  
\042\211\340\341\144\324\147\274\061\171\141\074\273\312\101\315  
\134\152\000\310\074\070\216\130\257\002\003\001\000\001\243\102  
\060\100\060\017\006\003\125\035\023\001\001\377\004\005\060\003  
\001\001\377\060\016\006\003\125\035\017\001\001\377\004\004\003  
\002\001\006\060\035\006\003\125\035\016\004\026\004\024\056\026  
\251\112\030\265\313\314\365\157\120\363\043\137\370\135\347\254  
\360\310\060\015\006\011\052\206\110\206\367\015\001\001\013\005  
\000\003\202\001\001\000\265\163\370\003\334\131\133\035\166\351  
\243\052\173\220\050\262\115\300\063\117\252\232\261\324\270\344  
\047\377\251\226\231\316\106\340\155\174\114\242\070\244\006\160  
\360\364\101\021\354\077\107\215\077\162\207\371\073\375\244\157  
\053\123\000\340\377\071\271\152\007\016\353\035\034\366\242\162  
\220\313\202\075\021\202\213\322\273\237\052\257\041\346\143\206  
\235\171\031\357\367\273\014\065\220\303\212\355\117\017\365\314  
\022\331\244\076\273\240\374\040\225\137\117\046\057\021\043\203  
\116\165\007\017\277\233\321\264\035\351\020\004\376\312\140\217  
\242\114\270\255\317\341\220\017\315\256\012\307\135\173\267\120

```
\322\324\141\372\325\025\333\327\237\207\121\124\353\245\343\353
\311\205\240\045\040\067\373\216\316\014\064\204\341\074\201\262
\167\116\103\245\210\137\206\147\241\075\346\264\134\141\266\076
\333\376\267\050\305\242\007\256\265\312\312\215\052\022\357\227
\355\302\060\244\311\052\172\373\363\115\043\033\231\063\064\240
\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_DISTRICT_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRICT_AFTER CK_BBOOL CK_FALSE
```

# Trust for "SZAFIR ROOT CA2"

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

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

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

# Not Valid Before: Mon Oct 19 07:43:30 2015

# Not Valid After : Fri Oct 19 07:43:30 2035

# Fingerprint (SHA-256):

A1:33:9D:33:28:1A:0B:56:E5:57:D3:D3:2B:1C:E7:F9:36:7E:B0:94:BD:5F:A7:2A:7E:50:04:C8:DE:D7:CA:FE

# Fingerprint (SHA1): E2:52:FA:95:3F:ED:DB:24:60:BD:6E:28:F3:9C:CC:CF:5E:B3:3F:DE

```
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
```

```
CKA_TOKEN CK_BBOOL CK_TRUE
```

```
CKA_PRIVATE CK_BBOOL CK_FALSE
```

```
CKA_MODIFIABLE CK_BBOOL CK_FALSE
```

```
CKA_LABEL UTF8 "SZAFIR ROOT CA2"
```

```
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
```

```
\342\122\372\225\077\355\333\044\140\275\156\050\363\234\314\317
\136\263\077\336
```

END

```
CKA_CERT_MD5_HASH MULTILINE_OCTAL
```

```
\021\144\301\211\260\044\261\214\261\007\176\211\236\121\236\231
```

END

```
CKA_ISSUER MULTILINE_OCTAL
```

```
\060\121\061\013\060\011\006\003\125\004\006\023\002\120\114\061
\050\060\046\006\003\125\004\012\014\037\113\162\141\152\157\167
\141\040\111\172\142\141\040\122\157\172\154\151\143\172\145\156
\151\157\167\141\040\123\056\101\056\061\030\060\026\006\003\125
\004\003\014\017\123\132\101\106\111\122\040\122\117\117\124\040
\103\101\062
```

END

```
CKA_SERIAL_NUMBER MULTILINE_OCTAL
```

```
\002\024\076\212\135\007\354\125\322\062\325\267\343\266\137\001
\353\055\334\344\326\344
```

END

```
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
```

```
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
```

```
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
```

CKA\_TRUST\_STEP\_UP\_APPROVED CK\_BBOOL CK\_FALSE

#

# Certificate "Certum Trusted Network CA 2"

#

# Issuer: CN=Certum Trusted Network CA 2,OU=Certum Certification Authority,O=Unizeto Technologies S.A.,C=PL

# Serial Number:21:d6:d0:4a:4f:25:0f:c9:32:37:fc:aa:5e:12:8d:e9

# Subject: CN=Certum Trusted Network CA 2,OU=Certum Certification Authority,O=Unizeto Technologies S.A.,C=PL

# Not Valid Before: Thu Oct 06 08:39:56 2011

# Not Valid After : Sat Oct 06 08:39:56 2046

# Fingerprint (SHA-256):

B6:76:F2:ED:DA:E8:77:5C:D3:6C:B0:F6:3C:D1:D4:60:39:61:F4:9E:62:65:BA:01:3A:2F:03:07:B6:D0:B8:04

# Fingerprint (SHA1): D3:DD:48:3E:2B:BF:4C:05:E8:AF:10:F5:FA:76:26:CF:D3:DC:30:92

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_CERTIFICATE

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "Certum Trusted Network CA 2"

CKA\_CERTIFICATE\_TYPE CK\_CERTIFICATE\_TYPE CKC\_X\_509

CKA\_SUBJECT MULTILINE\_OCTAL

\060\201\200\061\013\060\011\006\003\125\004\006\023\002\120\114  
\061\042\060\040\006\003\125\004\012\023\031\125\156\151\172\145  
\164\157\040\124\145\143\150\156\157\154\157\147\151\145\163\040  
\123\056\101\056\061\047\060\045\006\003\125\004\013\023\036\103  
\145\162\164\165\155\040\103\145\162\164\151\146\151\143\141\164  
\151\157\156\040\101\165\164\150\157\162\151\164\171\061\044\060  
\042\006\003\125\004\003\023\033\103\145\162\164\165\155\040\124  
\162\165\163\164\145\144\040\116\145\164\167\157\162\153\040\103  
\101\040\062

END

CKA\_ID UTF8 "0"

CKA\_ISSUER MULTILINE\_OCTAL

\060\201\200\061\013\060\011\006\003\125\004\006\023\002\120\114  
\061\042\060\040\006\003\125\004\012\023\031\125\156\151\172\145  
\164\157\040\124\145\143\150\156\157\154\157\147\151\145\163\040  
\123\056\101\056\061\047\060\045\006\003\125\004\013\023\036\103  
\145\162\164\165\155\040\103\145\162\164\151\146\151\143\141\164  
\151\157\156\040\101\165\164\150\157\162\151\164\171\061\044\060  
\042\006\003\125\004\003\023\033\103\145\162\164\165\155\040\124  
\162\165\163\164\145\144\040\116\145\164\167\157\162\153\040\103  
\101\040\062

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

\002\020\041\326\320\112\117\045\017\311\062\067\374\252\136\022  
\215\351

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\005\322\060\202\003\272\240\003\002\001\002\002\020\041  
\326\320\112\117\045\017\311\062\067\374\252\136\022\215\351\060  
\015\006\011\052\206\110\206\367\015\001\001\015\005\000\060\201  
\200\061\013\060\011\006\003\125\004\006\023\002\120\114\061\042  
\060\040\006\003\125\004\012\023\031\125\156\151\172\145\164\157  
\040\124\145\143\150\156\157\154\157\147\151\145\163\040\123\056  
\101\056\061\047\060\045\006\003\125\004\013\023\036\103\145\162  
\164\165\155\040\103\145\162\164\151\146\151\143\141\164\151\157  
\156\040\101\165\164\150\157\162\151\164\171\061\044\060\042\006  
\003\125\004\003\023\033\103\145\162\164\165\155\040\124\162\165  
\163\164\145\144\040\116\145\164\167\157\162\153\040\103\101\040  
\062\060\042\030\017\062\060\061\061\061\060\060\066\060\070\063  
\071\065\066\132\030\017\062\060\064\066\061\060\060\066\060\070  
\063\071\065\066\132\060\201\200\061\013\060\011\006\003\125\004  
\006\023\002\120\114\061\042\060\040\006\003\125\004\012\023\031  
\125\156\151\172\145\164\157\040\124\145\143\150\156\157\154\157  
\147\151\145\163\040\123\056\101\056\061\047\060\045\006\003\125  
\004\013\023\036\103\145\162\164\165\155\040\103\145\162\164\151  
\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151  
\164\171\061\044\060\042\006\003\125\004\003\023\033\103\145\162  
\164\165\155\040\124\162\165\163\164\145\144\040\116\145\164\167  
\157\162\153\040\103\101\040\062\060\202\002\042\060\015\006\011  
\052\206\110\206\367\015\001\001\001\005\000\003\202\002\017\000  
\060\202\002\012\002\202\002\001\000\275\371\170\370\346\325\200  
\014\144\235\206\033\226\144\147\077\042\072\036\165\001\175\357  
\373\134\147\214\311\314\134\153\251\221\346\271\102\345\040\113  
\233\332\233\173\271\231\135\331\233\200\113\327\204\100\053\047  
\323\350\272\060\273\076\011\032\247\111\225\357\053\100\044\302  
\227\307\247\356\233\045\357\250\012\000\227\205\132\252\235\334  
\051\311\342\065\007\353\160\115\112\326\301\263\126\270\241\101  
\070\233\321\373\061\177\217\340\137\341\261\077\017\216\026\111  
\140\327\006\215\030\371\252\046\020\253\052\323\320\321\147\215  
\033\106\276\107\060\325\056\162\321\305\143\332\347\143\171\104  
\176\113\143\044\211\206\056\064\077\051\114\122\213\052\247\300  
\342\221\050\211\271\300\133\371\035\331\347\047\255\377\232\002  
\227\301\306\120\222\233\002\054\275\251\271\064\131\012\277\204  
\112\377\337\376\263\237\353\331\236\340\230\043\354\246\153\167  
\026\052\333\314\255\073\034\244\207\334\106\163\136\031\142\150  
\105\127\344\220\202\102\273\102\326\360\141\340\301\243\075\146  
\243\135\364\030\356\210\311\215\027\105\051\231\062\165\002\061  
\356\051\046\310\153\002\346\265\142\105\177\067\025\132\043\150  
\211\324\076\336\116\047\260\360\100\014\274\115\027\313\115\242  
\263\036\320\006\132\335\366\223\317\127\165\231\365\372\206\032  
\147\170\263\277\226\376\064\334\275\347\122\126\345\263\345\165  
\173\327\101\221\005\334\135\151\343\225\015\103\271\374\203\226  
\071\225\173\154\200\132\117\023\162\306\327\175\051\172\104\272  
\122\244\052\325\101\106\011\040\376\042\240\266\133\060\215\274

\211\014\325\327\160\370\207\122\375\332\357\254\121\056\007\263  
\116\376\320\011\332\160\357\230\372\126\346\155\333\265\127\113  
\334\345\054\045\025\310\236\056\170\116\370\332\234\236\206\054  
\312\127\363\032\345\310\222\213\032\202\226\172\303\274\120\022  
\151\330\016\132\106\213\072\353\046\372\043\311\266\260\201\276  
\102\000\244\370\326\376\060\056\307\322\106\366\345\216\165\375  
\362\314\271\320\207\133\314\006\020\140\273\203\065\267\136\147  
\336\107\354\231\110\361\244\241\025\376\255\214\142\216\071\125  
\117\071\026\271\261\143\235\377\267\002\003\001\000\001\243\102  
\060\100\060\017\006\003\125\035\023\001\001\377\004\005\060\003  
\001\001\377\060\035\006\003\125\035\016\004\026\004\024\266\241  
\124\071\002\303\240\077\216\212\274\372\324\370\034\246\321\072  
\016\375\060\016\006\003\125\035\017\001\001\377\004\004\003\002  
\001\006\060\015\006\011\052\206\110\206\367\015\001\001\015\005  
\000\003\202\002\001\000\161\245\016\316\344\351\277\077\070\325  
\211\132\304\002\141\373\114\305\024\027\055\213\117\123\153\020  
\027\374\145\204\307\020\111\220\336\333\307\046\223\210\046\157  
\160\326\002\136\071\240\367\217\253\226\265\245\023\134\201\024  
\155\016\201\202\021\033\212\116\306\117\245\335\142\036\104\337  
\011\131\364\133\167\013\067\351\213\040\306\370\012\116\056\130  
\034\353\063\320\317\206\140\311\332\373\200\057\236\114\140\204  
\170\075\041\144\326\373\101\037\030\017\347\311\165\161\275\275  
\134\336\064\207\076\101\260\016\366\271\326\077\011\023\226\024  
\057\336\232\035\132\271\126\316\065\072\260\137\160\115\136\343  
\051\361\043\050\162\131\266\253\302\214\146\046\034\167\054\046  
\166\065\213\050\247\151\240\371\073\365\043\335\205\020\164\311  
\220\003\126\221\347\257\272\107\324\022\227\021\042\343\242\111  
\224\154\347\267\224\113\272\055\244\332\063\213\114\246\104\377  
\132\074\306\035\144\330\265\061\344\246\074\172\250\127\013\333  
\355\141\032\313\361\316\163\167\143\244\207\157\114\121\070\326  
\344\137\307\237\266\201\052\344\205\110\171\130\136\073\370\333  
\002\202\147\301\071\333\303\164\113\075\066\036\371\051\223\210  
\150\133\250\104\031\041\360\247\350\201\015\054\350\223\066\264  
\067\262\312\260\033\046\172\232\045\037\232\232\200\236\113\052  
\077\373\243\232\376\163\062\161\302\236\306\162\341\212\150\047  
\361\344\017\264\304\114\245\141\223\370\227\020\007\052\060\045  
\251\271\310\161\270\357\150\314\055\176\365\340\176\017\202\250  
\157\266\272\154\203\103\167\315\212\222\027\241\236\133\170\026  
\075\105\342\063\162\335\341\146\312\231\323\311\305\046\375\015  
\150\004\106\256\266\331\233\214\276\031\276\261\306\362\031\343  
\134\002\312\054\330\157\112\007\331\311\065\332\100\165\362\304  
\247\031\157\236\102\020\230\165\346\225\213\140\274\355\305\022  
\327\212\316\325\230\134\126\226\003\305\356\167\006\065\377\317  
\344\356\077\023\141\356\333\332\055\205\360\315\256\235\262\030  
\011\105\303\222\241\162\027\374\107\266\240\013\054\361\304\336  
\103\150\010\152\137\073\360\166\143\373\314\006\054\246\306\342  
\016\265\271\276\044\217

END



```

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRICT_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRICT_AFTER CK_BBOOL CK_FALSE

Trust for "Certum Trusted Network CA 2"
Issuer: CN=Certum Trusted Network CA 2,OU=Certum Certification Authority,O=Unizeto Technologies
S.A.,C=PL
Serial Number:21:d6:d0:4a:4f:25:0f:c9:32:37:fc:aa:5e:12:8d:e9
Subject: CN=Certum Trusted Network CA 2,OU=Certum Certification Authority,O=Unizeto Technologies
S.A.,C=PL
Not Valid Before: Thu Oct 06 08:39:56 2011
Not Valid After : Sat Oct 06 08:39:56 2046
Fingerprint (SHA-256):
B6:76:F2:ED:DA:E8:77:5C:D3:6C:B0:F6:3C:D1:D4:60:39:61:F4:9E:62:65:BA:01:3A:2F:03:07:B6:D0:B8:04
Fingerprint (SHA1): D3:DD:48:3E:2B:BF:4C:05:E8:AF:10:F5:FA:76:26:CF:D3:DC:30:92
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certum Trusted Network CA 2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\323\335\110\076\053\277\114\005\350\257\020\365\372\166\046\317
\323\334\060\222
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\155\106\236\331\045\155\010\043\133\136\164\175\036\047\333\362
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\200\061\013\060\011\006\003\125\004\006\023\002\120\114
\061\042\060\040\006\003\125\004\012\023\031\125\156\151\172\145
\164\157\040\124\145\143\150\156\157\154\157\147\151\145\163\040
\123\056\101\056\061\047\060\045\006\003\125\004\013\023\036\103
\145\162\164\165\155\040\103\145\162\164\151\146\151\143\141\164
\151\157\156\040\101\165\164\150\157\162\151\164\171\061\044\060
\042\006\003\125\004\003\023\033\103\145\162\164\165\155\040\124
\162\165\163\164\145\144\040\116\145\164\167\157\162\153\040\103
\101\040\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\041\326\320\112\117\045\017\311\062\067\374\252\136\022
\215\351
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#

```

```

Certificate "Hellenic Academic and Research Institutions RootCA 2015"
#
Issuer: CN=Hellenic Academic and Research Institutions RootCA 2015,O=Hellenic Academic and Research
Institutions Cert. Authority,L=Athens,C=GR
Serial Number: 0 (0x0)
Subject: CN=Hellenic Academic and Research Institutions RootCA 2015,O=Hellenic Academic and Research
Institutions Cert. Authority,L=Athens,C=GR
Not Valid Before: Tue Jul 07 10:11:21 2015
Not Valid After : Sat Jun 30 10:11:21 2040
Fingerprint (SHA-256):
A0:40:92:9A:02:CE:53:B4:AC:F4:F2:FF:C6:98:1C:E4:49:6F:75:5E:6D:45:FE:0B:2A:69:2B:CD:52:52:3F:36
Fingerprint (SHA1): 01:0C:06:95:A6:98:19:14:FF:BF:5F:C6:B0:B6:95:EA:29:E9:12:A6
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Hellenic Academic and Research Institutions RootCA 2015"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\246\061\013\060\011\006\003\125\004\006\023\002\107\122
\061\017\060\015\006\003\125\004\007\023\006\101\164\150\145\156
\163\061\104\060\102\006\003\125\004\012\023\073\110\145\154\154
\145\156\151\143\040\101\143\141\144\145\155\151\143\040\141\156
\144\040\122\145\163\145\141\162\143\150\040\111\156\163\164\151
\164\165\164\151\157\156\163\040\103\145\162\164\056\040\101\165
\164\150\157\162\151\164\171\061\100\060\076\006\003\125\004\003
\023\067\110\145\154\154\145\156\151\143\040\101\143\141\144\145
\155\151\143\040\141\156\144\040\122\145\163\145\141\162\143\150
\040\111\156\163\164\151\164\165\164\151\157\156\163\040\122\157
\157\164\103\101\040\062\060\061\065
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\246\061\013\060\011\006\003\125\004\006\023\002\107\122
\061\017\060\015\006\003\125\004\007\023\006\101\164\150\145\156
\163\061\104\060\102\006\003\125\004\012\023\073\110\145\154\154
\145\156\151\143\040\101\143\141\144\145\155\151\143\040\141\156
\144\040\122\145\163\145\141\162\143\150\040\111\156\163\164\151
\164\165\164\151\157\156\163\040\103\145\162\164\056\040\101\165
\164\150\157\162\151\164\171\061\100\060\076\006\003\125\004\003
\023\067\110\145\154\154\145\156\151\143\040\101\143\141\144\145
\155\151\143\040\141\156\144\040\122\145\163\145\141\162\143\150
\040\111\156\163\164\151\164\165\164\151\157\156\163\040\122\157
\157\164\103\101\040\062\060\061\065
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END

```

CKA\_VALUE MULTILINE\_OCTAL

\060\202\006\013\060\202\003\363\240\003\002\001\002\002\001\000  
\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060  
\201\246\061\013\060\011\006\003\125\004\006\023\002\107\122\061  
\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  
\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\202\002\042\060\015\006\011\052\206\110\206\367\015\001  
\001\001\005\000\003\202\002\017\000\060\202\002\012\002\202\002  
\001\000\302\370\251\077\033\211\374\074\074\004\135\075\220\066  
\260\221\072\171\074\146\132\357\155\071\001\111\032\264\267\317  
\177\115\043\123\267\220\000\343\023\052\050\246\061\361\221\000  
\343\050\354\256\041\101\316\037\332\375\175\022\133\001\203\017  
\271\260\137\231\341\362\022\203\200\115\006\076\337\254\257\347  
\241\210\153\061\257\360\213\320\030\063\270\333\105\152\064\364  
\002\200\044\050\012\002\025\225\136\166\052\015\231\072\024\133  
\366\313\313\123\274\023\115\001\210\067\224\045\033\102\274\042  
\330\216\243\226\136\072\331\062\333\076\350\360\020\145\355\164  
\341\057\247\174\257\047\064\273\051\175\233\266\317\011\310\345  
\323\012\374\210\145\145\164\012\334\163\034\134\315\100\261\034  
\324\266\204\214\114\120\317\150\216\250\131\256\302\047\116\202  
\242\065\335\024\364\037\377\262\167\325\207\057\252\156\175\044  
\047\347\306\313\046\346\345\376\147\007\143\330\105\015\335\072  
\131\145\071\130\172\222\231\162\075\234\204\136\210\041\270\325  
\364\054\374\331\160\122\117\170\270\275\074\053\213\225\230\365  
\263\321\150\317\040\024\176\114\134\137\347\213\345\365\065\201  
\031\067\327\021\010\267\146\276\323\112\316\203\127\000\072\303  
\201\370\027\313\222\066\135\321\243\330\165\033\341\213\047\352  
\172\110\101\375\105\031\006\255\047\231\116\301\160\107\335\265

\237\201\123\022\345\261\214\110\135\061\103\027\343\214\306\172  
\143\226\113\051\060\116\204\116\142\031\136\074\316\227\220\245  
\177\001\353\235\340\370\213\211\335\045\230\075\222\266\176\357  
\331\361\121\121\175\055\046\310\151\131\141\340\254\152\270\052  
\066\021\004\172\120\275\062\204\276\057\334\162\325\327\035\026  
\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  
\064\013\002\003\001\000\001\243\102\060\100\060\017\006\003\125  
\035\023\001\001\377\004\005\060\003\001\001\377\060\016\006\003  
\125\035\017\001\001\377\004\004\003\002\001\006\060\035\006\003  
\125\035\016\004\026\004\024\161\025\147\310\310\311\275\165\135  
\162\320\070\030\152\235\363\161\044\124\013\060\015\006\011\052  
\206\110\206\367\015\001\001\013\005\000\003\202\002\001\000\165  
\273\155\124\113\252\020\130\106\064\362\142\327\026\066\135\010  
\136\325\154\310\207\275\264\056\106\362\061\370\174\352\102\265  
\223\026\125\334\241\014\022\240\332\141\176\017\130\130\163\144  
\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  
\011\154\205\206\223\377\211\226\047\170\201\217\147\343\106\164  
\124\216\331\015\151\342\112\364\115\164\003\377\262\167\355\225  
\147\227\344\261\305\253\277\152\043\350\324\224\342\104\050\142  
\304\113\342\360\330\342\051\153\032\160\176\044\141\223\173\117  
\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  
\052\334\107\232\276\262\316\305\045\350\372\003\271\332\371\026  
\156\221\204\365\034\050\310\374\046\314\327\034\220\126\247\137  
\157\072\004\274\315\170\211\013\216\017\057\243\252\117\242\033  
\022\075\026\010\100\017\361\106\114\327\252\173\010\301\012\365  
\155\047\336\002\217\312\303\265\053\312\351\353\310\041\123\070  
\245\314\073\330\167\067\060\242\117\331\157\321\362\100\255\101  
\172\027\305\326\112\065\211\267\101\325\174\206\177\125\115\203  
\112\245\163\040\300\072\257\220\361\232\044\216\331\216\161\312  
\173\270\206\332\262\217\231\076\035\023\015\022\021\356\324\253  
\360\351\025\166\002\344\340\337\252\040\036\133\141\205\144\100

\251\220\227\015\255\123\322\132\035\207\152\000\227\145\142\264

\276\157\152\247\365\054\102\355\062\255\266\041\236\276\274

END

CKA\_NSS\_MOZILLA\_CA\_POLICY CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "Hellenic Academic and Research Institutions RootCA 2015"

# Issuer: CN=Hellenic Academic and Research Institutions RootCA 2015,O=Hellenic Academic and Research Institutions Cert. Authority,L=Athens,C=GR

# Serial Number: 0 (0x0)

# Subject: CN=Hellenic Academic and Research Institutions RootCA 2015,O=Hellenic Academic and Research Institutions Cert. Authority,L=Athens,C=GR

# Not Valid Before: Tue Jul 07 10:11:21 2015

# Not Valid After : Sat Jun 30 10:11:21 2040

# Fingerprint (SHA-256):

A0:40:92:9A:02:CE:53:B4:AC:F4:F2:FF:C6:98:1C:E4:49:6F:75:5E:6D:45:FE:0B:2A:69:2B:CD:52:52:3F:36

# Fingerprint (SHA1): 01:0C:06:95:A6:98:19:14:FF:BF:5F:C6:B0:B6:95:EA:29:E9:12:A6

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "Hellenic Academic and Research Institutions RootCA 2015"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

\001\014\006\225\246\230\031\024\377\277\137\306\260\266\225\352

\051\351\022\246

END

CKA\_CERT\_MD5\_HASH MULTILINE\_OCTAL

\312\377\342\333\003\331\313\113\351\017\255\204\375\173\030\316

END

CKA\_ISSUER MULTILINE\_OCTAL

\060\201\246\061\013\060\011\006\003\125\004\006\023\002\107\122

\061\017\060\015\006\003\125\004\007\023\006\101\164\150\145\156

\163\061\104\060\102\006\003\125\004\012\023\073\110\145\154\154

\145\156\151\143\040\101\143\141\144\145\155\151\143\040\141\156

\144\040\122\145\163\145\141\162\143\150\040\111\156\163\164\151

\164\165\164\151\157\156\163\040\103\145\162\164\056\040\101\165

\164\150\157\162\151\164\171\061\100\060\076\006\003\125\004\003

\023\067\110\145\154\154\145\156\151\143\040\101\143\141\144\145

\155\151\143\040\141\156\144\040\122\145\163\145\141\162\143\150

\040\111\156\163\164\151\164\165\164\151\157\156\163\040\122\157

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

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

\002\001\000

END

CKA\_TRUST\_SERVER\_AUTH CK\_TRUST CKT\_NSS\_TRUSTED\_DELEGATOR

CKA\_TRUST\_EMAIL\_PROTECTION CK\_TRUST CKT\_NSS\_TRUSTED\_DELEGATOR

CKA\_TRUST\_CODE\_SIGNING CK\_TRUST CKT\_NSS\_MUST\_VERIFY\_TRUST  
CKA\_TRUST\_STEP\_UP\_APPROVED CK\_BBOOL CK\_FALSE

#

# Certificate "Hellenic Academic and Research Institutions ECC RootCA 2015"

#

# Issuer: CN=Hellenic Academic and Research Institutions ECC RootCA 2015,O=Hellenic Academic and Research  
Institutions Cert. Authority,L=Athens,C=GR

# Serial Number: 0 (0x0)

# Subject: CN=Hellenic Academic and Research Institutions ECC RootCA 2015,O=Hellenic Academic and  
Research Institutions Cert. Authority,L=Athens,C=GR

# Not Valid Before: Tue Jul 07 10:37:12 2015

# Not Valid After : Sat Jun 30 10:37:12 2040

# Fingerprint (SHA-256):

44:B5:45:AA:8A:25:E6:5A:73:CA:15:DC:27:FC:36:D2:4C:1C:B9:95:3A:06:65:39:B1:15:82:DC:48:7B:48:33

# Fingerprint (SHA1): 9F:F1:71:8D:92:D5:9A:F3:7D:74:97:B4:BC:6F:84:68:0B:BA:B6:66

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_CERTIFICATE

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "Hellenic Academic and Research Institutions ECC RootCA 2015"

CKA\_CERTIFICATE\_TYPE CK\_CERTIFICATE\_TYPE CKC\_X\_509

CKA\_SUBJECT MULTILINE\_OCTAL

\060\201\252\061\013\060\011\006\003\125\004\006\023\002\107\122  
\061\017\060\015\006\003\125\004\007\023\006\101\164\150\145\156  
\163\061\104\060\102\006\003\125\004\012\023\073\110\145\154\154  
\145\156\151\143\040\101\143\141\144\145\155\151\143\040\141\156  
\144\040\122\145\163\145\141\162\143\150\040\111\156\163\164\151  
\164\165\164\151\157\156\163\040\103\145\162\164\056\040\101\165  
\164\150\157\162\151\164\171\061\104\060\102\006\003\125\004\003  
\023\073\110\145\154\154\145\156\151\143\040\101\143\141\144\145  
\155\151\143\040\141\156\144\040\122\145\163\145\141\162\143\150  
\040\111\156\163\164\151\164\165\164\151\157\156\163\040\105\103  
\103\040\122\157\157\164\103\101\040\062\060\061\065

END

CKA\_ID UTF8 "0"

CKA\_ISSUER MULTILINE\_OCTAL

\060\201\252\061\013\060\011\006\003\125\004\006\023\002\107\122  
\061\017\060\015\006\003\125\004\007\023\006\101\164\150\145\156  
\163\061\104\060\102\006\003\125\004\012\023\073\110\145\154\154  
\145\156\151\143\040\101\143\141\144\145\155\151\143\040\141\156  
\144\040\122\145\163\145\141\162\143\150\040\111\156\163\164\151  
\164\165\164\151\157\156\163\040\103\145\162\164\056\040\101\165  
\164\150\157\162\151\164\171\061\104\060\102\006\003\125\004\003  
\023\073\110\145\154\154\145\156\151\143\040\101\143\141\144\145  
\155\151\143\040\141\156\144\040\122\145\163\145\141\162\143\150  
\040\111\156\163\164\151\164\165\164\151\157\156\163\040\105\103  
\103\040\122\157\157\164\103\101\040\062\060\061\065

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

\002\001\000

END

CKA\_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  
\157\156\163\040\103\145\162\164\056\040\101\165\164\150\157\162  
\151\164\171\061\104\060\102\006\003\125\004\003\023\073\110\145  
\154\154\145\156\151\143\040\101\143\141\144\145\155\151\143\040  
\141\156\144\040\122\145\163\145\141\162\143\150\040\111\156\163  
\164\151\164\165\164\151\157\156\163\040\105\103\103\040\122\157  
\157\164\103\101\040\062\060\061\065\060\036\027\015\061\065\060  
\067\060\067\061\060\063\067\061\062\132\027\015\064\060\060\066  
\063\060\061\060\063\067\061\062\132\060\201\252\061\013\060\011  
\006\003\125\004\006\023\002\107\122\061\017\060\015\006\003\125  
\004\007\023\006\101\164\150\145\156\163\061\104\060\102\006\003  
\125\004\012\023\073\110\145\154\154\145\156\151\143\040\101\143  
\141\144\145\155\151\143\040\141\156\144\040\122\145\163\145\141  
\162\143\150\040\111\156\163\164\151\164\165\164\151\157\156\163  
\040\103\145\162\164\056\040\101\165\164\150\157\162\151\164\171  
\061\104\060\102\006\003\125\004\003\023\073\110\145\154\154\145  
\156\151\143\040\101\143\141\144\145\155\151\143\040\141\156\144  
\040\122\145\163\145\141\162\143\150\040\111\156\163\164\151\164  
\165\164\151\157\156\163\040\105\103\103\040\122\157\157\164\103  
\101\040\062\060\061\065\060\166\060\020\006\007\052\206\110\316  
\075\002\001\006\005\053\201\004\000\042\003\142\000\004\222\240  
\101\350\113\202\204\134\342\370\061\021\231\206\144\116\011\045  
\057\235\101\057\012\256\065\117\164\225\262\121\144\153\215\153  
\346\077\160\225\360\005\104\107\246\162\070\120\166\225\002\132  
\216\256\050\236\371\055\116\231\357\054\110\157\114\045\051\350  
\321\161\133\337\035\301\165\067\264\327\372\173\172\102\234\152  
\012\126\132\174\151\013\252\200\011\044\154\176\301\106\243\102  
\060\100\060\017\006\003\125\035\023\001\001\377\004\005\060\003  
\001\001\377\060\016\006\003\125\035\017\001\001\377\004\004\003  
\002\001\006\060\035\006\003\125\035\016\004\026\004\024\264\042  
\013\202\231\044\001\016\234\273\344\016\375\277\373\227\040\223  
\231\052\060\012\006\010\052\206\110\316\075\004\003\002\003\147  
\000\060\144\002\060\147\316\026\142\070\242\254\142\105\247\251  
\225\044\300\032\047\234\062\073\300\300\325\272\251\347\370\004  
\103\123\205\356\122\041\336\235\365\045\203\076\236\130\113\057  
\327\147\023\016\041\002\060\005\341\165\001\336\150\355\052\037  
\115\114\011\010\015\354\113\255\144\027\050\347\165\316\105\145

```
\162\041\027\313\042\101\016\214\023\230\070\232\124\155\233\312
\342\174\352\002\130\042\221
```

END

```
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRICT_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRICT_AFTER CK_BBOOL CK_FALSE
```

```
Trust for "Hellenic Academic and Research Institutions ECC RootCA 2015"
```

```
Issuer: CN=Hellenic Academic and Research Institutions ECC RootCA 2015,O=Hellenic Academic and Research
Institutions Cert. Authority,L=Athens,C=GR
```

```
Serial Number: 0 (0x0)
```

```
Subject: CN=Hellenic Academic and Research Institutions ECC RootCA 2015,O=Hellenic Academic and
Research Institutions Cert. Authority,L=Athens,C=GR
```

```
Not Valid Before: Tue Jul 07 10:37:12 2015
```

```
Not Valid After : Sat Jun 30 10:37:12 2040
```

```
Fingerprint (SHA-256):
```

```
44:B5:45:AA:8A:25:E6:5A:73:CA:15:DC:27:FC:36:D2:4C:1C:B9:95:3A:06:65:39:B1:15:82:DC:48:7B:48:33
```

```
Fingerprint (SHA1): 9F:F1:71:8D:92:D5:9A:F3:7D:74:97:B4:BC:6F:84:68:0B:BA:B6:66
```

```
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
```

```
CKA_TOKEN CK_BBOOL CK_TRUE
```

```
CKA_PRIVATE CK_BBOOL CK_FALSE
```

```
CKA_MODIFIABLE CK_BBOOL CK_FALSE
```

```
CKA_LABEL UTF8 "Hellenic Academic and Research Institutions ECC RootCA 2015"
```

```
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
```

```
\237\361\161\215\222\325\232\363\175\164\227\264\274\157\204\150
\013\272\266\146
```

END

```
CKA_CERT_MD5_HASH MULTILINE_OCTAL
```

```
\201\345\264\027\353\302\365\341\113\015\101\173\111\222\376\357
END
```

```
CKA_ISSUER MULTILINE_OCTAL
```

```
\060\201\252\061\013\060\011\006\003\125\004\006\023\002\107\122
\061\017\060\015\006\003\125\004\007\023\006\101\164\150\145\156
\163\061\104\060\102\006\003\125\004\012\023\073\110\145\154\154
\145\156\151\143\040\101\143\141\144\145\155\151\143\040\141\156
\144\040\122\145\163\145\141\162\143\150\040\111\156\163\164\151
\164\165\164\151\157\156\163\040\103\145\162\164\056\040\101\165
\164\150\157\162\151\164\171\061\104\060\102\006\003\125\004\003
\023\073\110\145\154\154\145\156\151\143\040\101\143\141\144\145
\155\151\143\040\141\156\144\040\122\145\163\145\141\162\143\150
\040\111\156\163\164\151\164\165\164\151\157\156\163\040\105\103
\103\040\122\157\157\164\103\101\040\062\060\061\065
```

END

```
CKA_SERIAL_NUMBER MULTILINE_OCTAL
```

```
\002\001\000
```

END

```
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
```

```
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
```



CKA\_TRUST\_CODE\_SIGNING CK\_TRUST CKT\_NSS\_MUST\_VERIFY\_TRUST  
CKA\_TRUST\_STEP\_UP\_APPROVED CK\_BBOOL CK\_FALSE

#

# Certificate "ISRG Root X1"

#

# Issuer: CN=ISRG Root X1,O=Internet Security Research Group,C=US

# Serial Number:00:82:10:cf:b0:d2:40:e3:59:44:63:e0:bb:63:82:8b:00

# Subject: CN=ISRG Root X1,O=Internet Security Research Group,C=US

# Not Valid Before: Thu Jun 04 11:04:38 2015

# Not Valid After : Mon Jun 04 11:04:38 2035

# Fingerprint (SHA-256):

96:BC:EC:06:26:49:76:F3:74:60:77:9A:CF:28:C5:A7:CF:E8:A3:C0:AA:E1:1A:8F:FC:EE:05:C0:BD:DF:08:C6

# Fingerprint (SHA1): CA:BD:2A:79:A1:07:6A:31:F2:1D:25:36:35:CB:03:9D:43:29:A5:E8

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_CERTIFICATE

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "ISRG Root X1"

CKA\_CERTIFICATE\_TYPE CK\_CERTIFICATE\_TYPE CKC\_X\_509

CKA\_SUBJECT MULTILINE\_OCTAL

\060\117\061\013\060\011\006\003\125\004\006\023\002\125\123\061  
\051\060\047\006\003\125\004\012\023\040\111\156\164\145\162\156  
\145\164\040\123\145\143\165\162\151\164\171\040\122\145\163\145  
\141\162\143\150\040\107\162\157\165\160\061\025\060\023\006\003  
\125\004\003\023\014\111\123\122\107\040\122\157\157\164\040\130  
\061

END

CKA\_ID UTF8 "0"

CKA\_ISSUER MULTILINE\_OCTAL

\060\117\061\013\060\011\006\003\125\004\006\023\002\125\123\061  
\051\060\047\006\003\125\004\012\023\040\111\156\164\145\162\156  
\145\164\040\123\145\143\165\162\151\164\171\040\122\145\163\145  
\141\162\143\150\040\107\162\157\165\160\061\025\060\023\006\003  
\125\004\003\023\014\111\123\122\107\040\122\157\157\164\040\130  
\061

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

\002\021\000\202\020\317\260\322\100\343\131\104\143\340\273\143  
\202\213\000

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\005\153\060\202\003\123\240\003\002\001\002\002\021\000  
\202\020\317\260\322\100\343\131\104\143\340\273\143\202\213\000  
\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060  
\117\061\013\060\011\006\003\125\004\006\023\002\125\123\061\051  
\060\047\006\003\125\004\012\023\040\111\156\164\145\162\156\145  
\164\040\123\145\143\165\162\151\164\171\040\122\145\163\145\141

\162\143\150\040\107\162\157\165\160\061\025\060\023\006\003\125  
\004\003\023\014\111\123\122\107\040\122\157\157\164\040\130\061  
\060\036\027\015\061\065\060\066\060\064\061\061\060\064\063\070  
\132\027\015\063\065\060\066\060\064\061\061\060\064\063\070\132  
\060\117\061\013\060\011\006\003\125\004\006\023\002\125\123\061  
\051\060\047\006\003\125\004\012\023\040\111\156\164\145\162\156  
\145\164\040\123\145\143\165\162\151\164\171\040\122\145\163\145  
\141\162\143\150\040\107\162\157\165\160\061\025\060\023\006\003  
\125\004\003\023\014\111\123\122\107\040\122\157\157\164\040\130  
\061\060\202\002\042\060\015\006\011\052\206\110\206\367\015\001  
\001\001\005\000\003\202\002\017\000\060\202\002\012\002\202\002  
\001\000\255\350\044\163\364\024\067\363\233\236\053\127\050\034  
\207\276\334\267\337\070\220\214\156\074\346\127\240\170\367\165  
\302\242\376\365\152\156\366\000\117\050\333\336\150\206\154\104  
\223\266\261\143\375\024\022\153\277\037\322\352\061\233\041\176  
\321\063\074\272\110\365\335\171\337\263\270\377\022\361\041\232  
\113\301\212\206\161\151\112\146\146\154\217\176\074\160\277\255  
\051\042\006\363\344\300\346\200\256\342\113\217\267\231\176\224  
\003\237\323\107\227\174\231\110\043\123\350\070\256\117\012\157  
\203\056\321\111\127\214\200\164\266\332\057\320\070\215\173\003  
\160\041\033\165\362\060\074\372\217\256\335\332\143\253\353\026  
\117\302\216\021\113\176\317\013\350\377\265\167\056\364\262\173  
\112\340\114\022\045\014\160\215\003\051\240\341\123\044\354\023  
\331\356\031\277\020\263\112\214\077\211\243\141\121\336\254\207  
\007\224\364\143\161\354\056\342\157\133\230\201\341\211\134\064  
\171\154\166\357\073\220\142\171\346\333\244\232\057\046\305\320  
\020\341\016\336\331\020\216\026\373\267\367\250\367\307\345\002  
\007\230\217\066\010\225\347\342\067\226\015\066\165\236\373\016  
\162\261\035\233\274\003\371\111\005\330\201\335\005\264\052\326  
\101\351\254\001\166\225\012\017\330\337\325\275\022\037\065\057  
\050\027\154\322\230\301\250\011\144\167\156\107\067\272\316\254  
\131\136\150\235\177\162\326\211\305\006\101\051\076\131\076\335  
\046\365\044\311\021\247\132\243\114\100\037\106\241\231\265\247  
\072\121\156\206\073\236\175\162\247\022\005\170\131\355\076\121  
\170\025\013\003\217\215\320\057\005\262\076\173\112\034\113\163  
\005\022\374\306\352\340\120\023\174\103\223\164\263\312\164\347  
\216\037\001\010\320\060\324\133\161\066\264\007\272\301\060\060  
\134\110\267\202\073\230\246\175\140\212\242\243\051\202\314\272  
\275\203\004\033\242\203\003\101\241\326\005\361\033\302\266\360  
\250\174\206\073\106\250\110\052\210\334\166\232\166\277\037\152  
\245\075\031\217\353\070\363\144\336\310\053\015\012\050\377\367  
\333\342\025\102\324\042\320\047\135\341\171\376\030\347\160\210  
\255\116\346\331\213\072\306\335\047\121\156\377\274\144\365\063  
\103\117\002\003\001\000\001\243\102\060\100\060\016\006\003\125  
\035\017\001\001\377\004\004\003\002\001\006\060\017\006\003\125  
\035\023\001\001\377\004\005\060\003\001\001\377\060\035\006\003  
\125\035\016\004\026\004\024\171\264\131\346\173\266\345\344\001  
\163\200\010\210\310\032\130\366\351\233\156\060\015\006\011\052

\206\110\206\367\015\001\001\013\005\000\003\202\002\001\000\125  
\037\130\251\274\262\250\120\320\014\261\330\032\151\040\047\051  
\010\254\141\165\134\212\156\370\202\345\151\057\325\366\126\113  
\271\270\163\020\131\323\041\227\176\347\114\161\373\262\322\140  
\255\071\250\013\352\027\041\126\205\361\120\016\131\353\316\340  
\131\351\272\311\025\357\206\235\217\204\200\366\344\351\221\220  
\334\027\233\142\033\105\360\146\225\322\174\157\302\352\073\357  
\037\317\313\326\256\047\361\251\260\310\256\375\175\176\232\372  
\042\004\353\377\331\177\352\221\053\042\261\027\016\217\362\212  
\064\133\130\330\374\001\311\124\271\270\046\314\212\210\063\211  
\114\055\204\074\202\337\356\226\127\005\272\054\273\367\304\267  
\307\116\073\202\276\061\310\042\163\163\222\321\302\200\244\071  
\071\020\063\043\202\114\074\237\206\262\125\230\035\276\051\206  
\214\042\233\236\342\153\073\127\072\202\160\115\334\011\307\211  
\313\012\007\115\154\350\135\216\311\357\316\253\307\273\265\053  
\116\105\326\112\320\046\314\345\162\312\010\152\245\225\343\025  
\241\367\244\355\311\054\137\245\373\377\254\050\002\056\276\327  
\173\273\343\161\173\220\026\323\007\136\106\123\174\067\007\102  
\214\323\304\226\234\325\231\265\052\340\225\032\200\110\256\114  
\071\007\316\314\107\244\122\225\053\272\270\373\255\322\063\123  
\175\345\035\115\155\325\241\261\307\102\157\346\100\047\065\134  
\243\050\267\007\215\347\215\063\220\347\043\237\373\120\234\171  
\154\106\325\264\025\263\226\156\176\233\014\226\072\270\122\055  
\077\326\133\341\373\010\302\204\376\044\250\243\211\332\254\152  
\341\030\052\261\250\103\141\133\323\037\334\073\215\166\362\055  
\350\215\165\337\027\063\154\075\123\373\173\313\101\137\377\334  
\242\320\141\070\341\226\270\254\135\213\067\327\165\325\063\300  
\231\021\256\235\101\301\162\165\204\276\002\101\102\137\147\044  
\110\224\321\233\047\276\007\077\271\270\117\201\164\121\341\172  
\267\355\235\043\342\276\340\325\050\004\023\074\061\003\236\335  
\172\154\217\306\007\030\306\177\336\107\216\077\050\236\004\006  
\317\245\124\064\167\275\354\211\233\351\027\103\337\133\333\137  
\376\216\036\127\242\315\100\235\176\142\042\332\336\030\047

END

CKA\_NSS\_MOZILLA\_CA\_POLICY CK\_BBOOL CK\_TRUE  
CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE  
CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "ISRG Root X1"

# Issuer: CN=ISRG Root X1,O=Internet Security Research Group,C=US

# Serial Number:00:82:10:cf:b0:d2:40:e3:59:44:63:e0:bb:63:82:8b:00

# Subject: CN=ISRG Root X1,O=Internet Security Research Group,C=US

# Not Valid Before: Thu Jun 04 11:04:38 2015

# Not Valid After : Mon Jun 04 11:04:38 2035

# Fingerprint (SHA-256):

96:BC:EC:06:26:49:76:F3:74:60:77:9A:CF:28:C5:A7:CF:E8:A3:C0:AA:E1:1A:8F:FC:EE:05:C0:BD:DF:08:C6

# Fingerprint (SHA1): CA:BD:2A:79:A1:07:6A:31:F2:1D:25:36:35:CB:03:9D:43:29:A5:E8

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

```

CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ISRG Root X1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\312\275\052\171\241\007\152\061\362\035\045\066\065\313\003\235
\103\051\245\350
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\014\322\371\340\332\027\163\351\355\206\115\245\343\160\347\116
END
CKA_ISSUER MULTILINE_OCTAL
\060\117\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\051\060\047\006\003\125\004\012\023\040\111\156\164\145\162\156
\145\164\040\123\145\143\165\162\151\164\171\040\122\145\163\145
\141\162\143\150\040\107\162\157\165\160\061\025\060\023\006\003
\125\004\003\023\014\111\123\122\107\040\122\157\157\164\040\130
\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\021\000\202\020\317\260\322\100\343\131\104\143\340\273\143
\202\213\000
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "AC RAIZ FNMT-RCM"
#
Issuer: OU=AC RAIZ FNMT-RCM,O=FNMT-RCM,C=ES
Serial Number:5d:93:8d:30:67:36:c8:06:1d:1a:c7:54:84:69:07
Subject: OU=AC RAIZ FNMT-RCM,O=FNMT-RCM,C=ES
Not Valid Before: Wed Oct 29 15:59:56 2008
Not Valid After : Tue Jan 01 00:00:00 2030
Fingerprint (SHA-256):
EB:C5:57:0C:29:01:8C:4D:67:B1:AA:12:7B:AF:12:F7:03:B4:61:1E:BC:17:B7:DA:B5:57:38:94:17:9B:93:FA
Fingerprint (SHA1): EC:50:35:07:B2:15:C4:95:62:19:E2:A8:9A:5B:42:99:2C:4C:2C:20
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AC RAIZ FNMT-RCM"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\073\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\021\060\017\006\003\125\004\012\014\010\106\116\115\124\055\122

```

\103\115\061\031\060\027\006\003\125\004\013\014\020\101\103\040  
\122\101\111\132\040\106\116\115\124\055\122\103\115  
END  
CKA\_ID UTF8 "0"  
CKA\_ISSUER MULTILINE\_OCTAL  
\060\073\061\013\060\011\006\003\125\004\006\023\002\105\123\061  
\021\060\017\006\003\125\004\012\014\010\106\116\115\124\055\122  
\103\115\061\031\060\027\006\003\125\004\013\014\020\101\103\040  
\122\101\111\132\040\106\116\115\124\055\122\103\115  
END  
CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL  
\002\017\135\223\215\060\147\066\310\006\035\032\307\124\204\151  
\007  
END  
CKA\_VALUE MULTILINE\_OCTAL  
\060\202\005\203\060\202\003\153\240\003\002\001\002\002\017\135  
\223\215\060\147\066\310\006\035\032\307\124\204\151\007\060\015  
\006\011\052\206\110\206\367\015\001\001\013\005\000\060\073\061  
\013\060\011\006\003\125\004\006\023\002\105\123\061\021\060\017  
\006\003\125\004\012\014\010\106\116\115\124\055\122\103\115\061  
\031\060\027\006\003\125\004\013\014\020\101\103\040\122\101\111  
\132\040\106\116\115\124\055\122\103\115\060\036\027\015\060\070  
\061\060\062\071\061\065\065\071\065\066\132\027\015\063\060\060  
\061\060\061\060\060\060\060\060\132\060\073\061\013\060\011  
\006\003\125\004\006\023\002\105\123\061\021\060\017\006\003\125  
\004\012\014\010\106\116\115\124\055\122\103\115\061\031\060\027  
\006\003\125\004\013\014\020\101\103\040\122\101\111\132\040\106  
\116\115\124\055\122\103\115\060\202\002\042\060\015\006\011\052  
\206\110\206\367\015\001\001\001\005\000\003\202\002\017\000\060  
\202\002\012\002\202\002\001\000\272\161\200\172\114\206\156\177  
\310\023\155\300\306\175\034\000\227\217\054\014\043\273\020\232  
\100\251\032\267\207\210\370\233\126\152\373\346\173\216\213\222  
\216\247\045\135\131\021\333\066\056\267\121\027\037\251\010\037  
\004\027\044\130\252\067\112\030\337\345\071\324\127\375\327\301  
\054\221\001\221\342\042\324\003\300\130\374\167\107\354\217\076  
\164\103\272\254\064\215\115\070\166\147\216\260\310\157\060\063  
\130\161\134\264\365\153\156\324\001\120\270\023\176\154\112\243  
\111\321\040\031\356\274\300\051\030\145\247\336\376\357\335\012  
\220\041\347\032\147\222\102\020\230\137\117\060\274\076\034\105  
\264\020\327\150\100\024\300\100\372\347\167\027\172\346\013\217  
\145\133\074\331\232\122\333\265\275\236\106\317\075\353\221\005  
\002\300\226\262\166\114\115\020\226\073\222\372\234\177\017\231  
\337\276\043\065\105\036\002\134\376\265\250\233\231\045\332\136  
\363\042\303\071\365\344\052\056\323\306\037\304\154\252\305\034  
\152\001\005\112\057\322\305\301\250\064\046\135\146\245\322\002  
\041\371\030\267\006\365\116\231\157\250\253\114\121\350\317\120  
\030\305\167\310\071\011\054\111\222\062\231\250\273\027\027\171  
\260\132\305\346\243\304\131\145\107\065\203\136\251\350\065\013

\231\273\344\315\040\306\233\112\006\071\265\150\374\042\272\356  
\125\214\053\116\352\363\261\343\374\266\231\232\325\102\372\161  
\115\010\317\207\036\152\161\175\371\323\264\351\245\161\201\173  
\302\116\107\226\245\366\166\205\243\050\217\351\200\156\201\123  
\245\155\137\270\110\371\302\371\066\246\056\111\377\270\226\302  
\214\007\263\233\210\130\374\353\033\034\336\055\160\342\227\222  
\060\241\211\343\274\125\250\047\326\113\355\220\255\213\372\143  
\045\131\055\250\065\335\312\227\063\274\345\315\307\235\321\354  
\357\136\016\112\220\006\046\143\255\271\331\065\055\007\272\166  
\145\054\254\127\217\175\364\007\224\327\201\002\226\135\243\007  
\111\325\172\320\127\371\033\347\123\106\165\252\260\171\102\313  
\150\161\010\351\140\275\071\151\316\364\257\303\126\100\307\255  
\122\242\011\344\157\206\107\212\037\353\050\047\135\203\040\257  
\004\311\154\126\232\213\106\365\002\003\001\000\001\243\201\203  
\060\201\200\060\017\006\003\125\035\023\001\001\377\004\005\060  
\003\001\001\377\060\016\006\003\125\035\017\001\001\377\004\004  
\003\002\001\006\060\035\006\003\125\035\016\004\026\004\024\367  
\175\305\375\304\350\232\033\167\144\247\365\035\240\314\277\207  
\140\232\155\060\076\006\003\125\035\040\004\067\060\065\060\063  
\006\004\125\035\040\000\060\053\060\051\006\010\053\006\001\005  
\005\007\002\001\026\035\150\164\164\160\072\057\057\167\167\167  
\056\143\145\162\164\056\146\156\155\164\056\145\163\057\144\160  
\143\163\057\060\015\006\011\052\206\110\206\367\015\001\001\013  
\005\000\003\202\002\001\000\007\220\112\337\363\043\116\360\303  
\234\121\145\233\234\042\242\212\014\205\363\163\051\153\115\376  
\001\342\251\014\143\001\277\004\147\245\235\230\137\375\001\023  
\372\354\232\142\351\206\376\266\142\322\156\114\224\373\300\165  
\105\174\145\014\370\262\067\317\254\017\317\215\157\371\031\367  
\217\354\036\362\160\236\360\312\270\357\267\377\166\067\166\133  
\366\156\210\363\257\142\062\042\223\015\072\152\216\024\146\014  
\055\123\164\127\145\036\325\262\335\043\201\073\245\146\043\047  
\147\011\217\341\167\252\103\315\145\121\010\355\121\130\376\346  
\071\371\313\107\204\244\025\361\166\273\244\356\244\073\304\137  
\357\262\063\226\021\030\267\311\145\276\030\341\243\244\334\372  
\030\371\323\274\023\233\071\172\064\272\323\101\373\372\062\212  
\052\267\053\206\013\151\203\070\276\315\212\056\013\160\255\215  
\046\222\356\036\365\001\053\012\331\326\227\233\156\340\250\031  
\034\072\041\213\014\036\100\255\003\347\335\146\176\365\271\040  
\015\003\350\226\371\202\105\324\071\340\240\000\135\327\230\346  
\175\236\147\163\303\232\052\367\253\213\241\072\024\357\064\274  
\122\016\211\230\232\004\100\204\035\176\105\151\223\127\316\353  
\316\370\120\174\117\034\156\004\103\233\371\326\073\043\030\351  
\352\216\321\115\106\215\361\073\344\152\312\272\373\043\267\233  
\372\231\001\051\132\130\132\055\343\371\324\155\016\046\255\301  
\156\064\274\062\370\014\005\372\145\243\333\073\067\203\042\351  
\326\334\162\063\375\135\362\040\275\166\074\043\332\050\367\371  
\033\353\131\144\325\334\137\162\176\040\374\315\211\265\220\147  
\115\142\172\077\116\255\035\303\071\376\172\364\050\026\337\101

```
\366\110\200\005\327\017\121\171\254\020\253\324\354\003\146\346
\152\260\272\061\222\102\100\152\276\072\323\162\341\152\067\125
\274\254\035\225\267\151\141\362\103\221\164\346\240\323\012\044
\106\241\010\257\326\332\105\031\226\324\123\035\133\204\171\360
\300\367\107\357\213\217\305\006\256\235\114\142\235\377\106\004
\370\323\311\266\020\045\100\165\376\026\252\311\112\140\206\057
\272\357\060\167\344\124\342\270\204\231\130\200\252\023\213\121
\072\117\110\366\213\266\263
```

END

```
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRICT_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRICT_AFTER CK_BBOOL CK_FALSE
```

```
Trust for "AC RAIZ FNMT-RCM"
```

```
Issuer: OU=AC RAIZ FNMT-RCM,O=FNMT-RCM,C=ES
```

```
Serial Number:5d:93:8d:30:67:36:c8:06:1d:1a:c7:54:84:69:07
```

```
Subject: OU=AC RAIZ FNMT-RCM,O=FNMT-RCM,C=ES
```

```
Not Valid Before: Wed Oct 29 15:59:56 2008
```

```
Not Valid After : Tue Jan 01 00:00:00 2030
```

```
Fingerprint (SHA-256):
```

```
EB:C5:57:0C:29:01:8C:4D:67:B1:AA:12:7B:AF:12:F7:03:B4:61:1E:BC:17:B7:DA:B5:57:38:94:17:9B:93:FA
```

```
Fingerprint (SHA1): EC:50:35:07:B2:15:C4:95:62:19:E2:A8:9A:5B:42:99:2C:4C:2C:20
```

```
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
```

```
CKA_TOKEN CK_BBOOL CK_TRUE
```

```
CKA_PRIVATE CK_BBOOL CK_FALSE
```

```
CKA_MODIFIABLE CK_BBOOL CK_FALSE
```

```
CKA_LABEL UTF8 "AC RAIZ FNMT-RCM"
```

```
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
```

```
\354\120\065\007\262\025\304\225\142\031\342\250\232\133\102\231
\054\114\054\040
```

END

```
CKA_CERT_MD5_HASH MULTILINE_OCTAL
```

```
\342\011\004\264\323\275\321\240\024\375\032\322\107\304\127\035
```

END

```
CKA_ISSUER MULTILINE_OCTAL
```

```
\060\073\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\021\060\017\006\003\125\004\012\014\010\106\116\115\124\055\122
\103\115\061\031\060\027\006\003\125\004\013\014\020\101\103\040
\122\101\111\132\040\106\116\115\124\055\122\103\115
```

END

```
CKA_SERIAL_NUMBER MULTILINE_OCTAL
```

```
\002\017\135\223\215\060\147\066\310\006\035\032\307\124\204\151
\007
```

END

```
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
```

```
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
```

```
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
```

```
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
```

```
#
Certificate "Amazon Root CA 1"
#
Issuer: CN=Amazon Root CA 1,O=Amazon,C=US
Serial Number:06:6c:9f:cf:99:bf:8c:0a:39:e2:f0:78:8a:43:e6:96:36:5b:ca
Subject: CN=Amazon Root CA 1,O=Amazon,C=US
Not Valid Before: Tue May 26 00:00:00 2015
Not Valid After : Sun Jan 17 00:00:00 2038
Fingerprint (SHA-256):
8E:CD:E6:88:4F:3D:87:B1:12:5B:A3:1A:C3:FC:B1:3D:70:16:DE:7F:57:CC:90:4F:E1:CB:97:C6:AE:98:19:6E
Fingerprint (SHA1): 8D:A7:F9:65:EC:5E:FC:37:91:0F:1C:6E:59:FD:C1:CC:6A:6E:DE:16
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Amazon Root CA 1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\071\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\017\060\015\006\003\125\004\012\023\006\101\155\141\172\157\156
\061\031\060\027\006\003\125\004\003\023\020\101\155\141\172\157
\156\040\122\157\157\164\040\103\101\040\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\071\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\017\060\015\006\003\125\004\012\023\006\101\155\141\172\157\156
\061\031\060\027\006\003\125\004\003\023\020\101\155\141\172\157
\156\040\122\157\157\164\040\103\101\040\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\023\006\154\237\317\231\277\214\012\071\342\360\170\212\103
\346\226\066\133\312
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\101\060\202\002\051\240\003\002\001\002\002\023\006
\154\237\317\231\277\214\012\071\342\360\170\212\103\346\226\066
\133\312\060\015\006\011\052\206\110\206\367\015\001\001\013\005
\000\060\071\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\017\060\015\006\003\125\004\012\023\006\101\155\141\172\157
\156\061\031\060\027\006\003\125\004\003\023\020\101\155\141\172
\157\156\040\122\157\157\164\040\103\101\040\061\060\036\027\015
\061\065\060\065\062\066\060\060\060\060\060\060\132\027\015\063
\070\060\061\061\067\060\060\060\060\060\060\132\060\071\061\013
\060\011\006\003\125\004\006\023\002\125\123\061\017\060\015\006
\003\125\004\012\023\006\101\155\141\172\157\156\061\031\060\027
\006\003\125\004\003\023\020\101\155\141\172\157\156\040\122\157
```



\157\164\040\103\101\040\061\060\202\001\042\060\015\006\011\052  
\206\110\206\367\015\001\001\001\005\000\003\202\001\017\000\060  
\202\001\012\002\202\001\001\000\262\170\200\161\312\170\325\343  
\161\257\107\200\120\164\175\156\330\327\210\166\364\231\150\367  
\130\041\140\371\164\204\001\057\254\002\055\206\323\240\103\172  
\116\262\244\320\066\272\001\276\215\333\110\310\007\027\066\114  
\364\356\210\043\307\076\353\067\365\265\031\370\111\150\260\336  
\327\271\166\070\035\141\236\244\376\202\066\245\345\112\126\344  
\105\341\371\375\264\026\372\164\332\234\233\065\071\057\372\260  
\040\120\006\154\172\320\200\262\246\371\257\354\107\031\217\120  
\070\007\334\242\207\071\130\370\272\325\251\371\110\147\060\226  
\356\224\170\136\157\211\243\121\300\060\206\146\241\105\146\272  
\124\353\243\303\221\371\110\334\377\321\350\060\055\175\055\164  
\160\065\327\210\044\367\236\304\131\156\273\163\207\027\362\062  
\106\050\270\103\372\267\035\252\312\264\362\237\044\016\055\113  
\367\161\134\136\151\377\352\225\002\313\070\212\256\120\070\157  
\333\373\055\142\033\305\307\036\124\341\167\340\147\310\017\234  
\207\043\326\077\100\040\177\040\200\304\200\114\076\073\044\046  
\216\004\256\154\232\310\252\015\002\003\001\000\001\243\102\060  
\100\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001  
\001\377\060\016\006\003\125\035\017\001\001\377\004\004\003\002  
\001\206\060\035\006\003\125\035\016\004\026\004\024\204\030\314  
\205\064\354\274\014\224\224\056\010\131\234\307\262\020\116\012  
\010\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000  
\003\202\001\001\000\230\362\067\132\101\220\241\032\305\166\121  
\050\040\066\043\016\256\346\050\273\252\370\224\256\110\244\060  
\177\033\374\044\215\113\264\310\241\227\366\266\361\172\160\310  
\123\223\314\010\050\343\230\045\317\043\244\371\336\041\323\174  
\205\011\255\116\232\165\072\302\013\152\211\170\166\104\107\030  
\145\154\215\101\216\073\177\232\313\364\265\247\120\327\005\054  
\067\350\003\113\255\351\141\240\002\156\365\362\360\305\262\355  
\133\267\334\372\224\134\167\236\023\245\177\122\255\225\362\370  
\223\073\336\213\134\133\312\132\122\133\140\257\024\367\113\357  
\243\373\237\100\225\155\061\124\374\102\323\307\106\037\043\255  
\331\017\110\160\232\331\165\170\161\321\162\103\064\165\156\127  
\131\302\002\134\046\140\051\317\043\031\026\216\210\103\245\324  
\344\313\010\373\043\021\103\350\103\051\162\142\241\251\135\136  
\010\324\220\256\270\330\316\024\302\320\125\362\206\366\304\223  
\103\167\146\141\300\271\350\101\327\227\170\140\003\156\112\162  
\256\245\321\175\272\020\236\206\154\033\212\271\131\063\370\353  
\304\220\276\361\271

END

CKA\_NSS\_MOZILLA\_CA\_POLICY CK\_BBOOL CK\_TRUE  
CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE  
CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "Amazon Root CA 1"

# Issuer: CN=Amazon Root CA 1,O=Amazon,C=US

```

Serial Number:06:6c:9f:cf:99:bf:8c:0a:39:e2:f0:78:8a:43:e6:96:36:5b:ca
Subject: CN=Amazon Root CA 1,O=Amazon,C=US
Not Valid Before: Tue May 26 00:00:00 2015
Not Valid After : Sun Jan 17 00:00:00 2038
Fingerprint (SHA-256):
8E:CD:E6:88:4F:3D:87:B1:12:5B:A3:1A:C3:FC:B1:3D:70:16:DE:7F:57:CC:90:4F:E1:CB:97:C6:AE:98:19:6E
Fingerprint (SHA1): 8D:A7:F9:65:EC:5E:FC:37:91:0F:1C:6E:59:FD:C1:CC:6A:6E:DE:16
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Amazon Root CA 1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\215\247\371\145\354\136\374\067\221\017\034\156\131\375\301\314
\152\156\336\026
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\103\306\277\256\354\376\255\057\030\306\210\150\060\374\310\346
END
CKA_ISSUER MULTILINE_OCTAL
\060\071\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\017\060\015\006\003\125\004\012\023\006\101\155\141\172\157\156
\061\031\060\027\006\003\125\004\003\023\020\101\155\141\172\157
\156\040\122\157\157\164\040\103\101\040\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\023\006\154\237\317\231\277\214\012\071\342\360\170\212\103
\346\226\066\133\312
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Amazon Root CA 2"
#
Issuer: CN=Amazon Root CA 2,O=Amazon,C=US
Serial Number:06:6c:9f:d2:96:35:86:9f:0a:0f:e5:86:78:f8:5b:26:bb:8a:37
Subject: CN=Amazon Root CA 2,O=Amazon,C=US
Not Valid Before: Tue May 26 00:00:00 2015
Not Valid After : Sat May 26 00:00:00 2040
Fingerprint (SHA-256):
1B:A5:B2:AA:8C:65:40:1A:82:96:01:18:F8:0B:EC:4F:62:30:4D:83:CE:C4:71:3A:19:C3:9C:01:1E:A4:6D:B4
Fingerprint (SHA1): 5A:8C:EF:45:D7:A6:98:59:76:7A:8C:8B:44:96:B5:78:CF:47:4B:1A
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE

```

```
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Amazon Root CA 2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\071\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\017\060\015\006\003\125\004\012\023\006\101\155\141\172\157\156
\061\031\060\027\006\003\125\004\003\023\020\101\155\141\172\157
\156\040\122\157\157\164\040\103\101\040\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\071\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\017\060\015\006\003\125\004\012\023\006\101\155\141\172\157\156
\061\031\060\027\006\003\125\004\003\023\020\101\155\141\172\157
\156\040\122\157\157\164\040\103\101\040\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\023\006\154\237\322\226\065\206\237\012\017\345\206\170\370
\133\046\273\212\067
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\101\060\202\003\051\240\003\002\001\002\002\023\006
\154\237\322\226\065\206\237\012\017\345\206\170\370\133\046\273
\212\067\060\015\006\011\052\206\110\206\367\015\001\001\014\005
\000\060\071\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\017\060\015\006\003\125\004\012\023\006\101\155\141\172\157
\156\061\031\060\027\006\003\125\004\003\023\020\101\155\141\172
\157\156\040\122\157\157\164\040\103\101\040\062\060\036\027\015
\061\065\060\065\062\066\060\060\060\060\060\060\132\027\015\064
\060\060\065\062\066\060\060\060\060\060\060\132\060\071\061\013
\060\011\006\003\125\004\006\023\002\125\123\061\017\060\015\006
\003\125\004\012\023\006\101\155\141\172\157\156\061\031\060\027
\006\003\125\004\003\023\020\101\155\141\172\157\156\040\122\157
\157\164\040\103\101\040\062\060\202\002\042\060\015\006\011\052
\206\110\206\367\015\001\001\001\005\000\003\202\002\017\000\060
\202\002\012\002\202\002\001\000\255\226\237\055\234\112\114\112
\201\171\121\231\354\212\313\153\140\121\023\274\115\155\006\374
\260\010\215\335\031\020\152\307\046\014\065\330\300\157\040\204
\351\224\261\233\205\003\303\133\333\112\350\310\370\220\166\331
\133\117\343\114\350\006\066\115\314\232\254\075\014\220\053\222
\324\006\031\140\254\067\104\171\205\201\202\255\132\067\340\015
\314\235\246\114\122\166\352\103\235\267\004\321\120\366\125\340
\325\322\246\111\205\351\067\351\312\176\256\134\225\115\110\232
\077\256\040\132\155\210\225\331\064\270\122\032\103\220\260\277
\154\005\271\266\170\267\352\320\344\072\074\022\123\142\377\112
\362\173\276\065\005\251\022\064\343\363\144\164\142\054\075\000
\111\132\050\376\062\104\273\207\335\145\047\002\161\073\332\112
\367\037\332\315\367\041\125\220\117\017\354\256\202\341\237\153
```

\331\105\323\273\360\137\207\355\074\054\071\206\332\077\336\354  
\162\125\353\171\243\255\333\335\174\260\272\034\316\374\336\117  
\065\166\317\017\370\170\037\152\066\121\106\047\141\133\351\236  
\317\360\242\125\175\174\045\212\157\057\264\305\317\204\056\053  
\375\015\121\020\154\373\137\033\274\033\176\305\256\073\230\001  
\061\222\377\013\127\364\232\262\271\127\351\253\357\015\166\321  
\360\356\364\316\206\247\340\156\351\264\151\241\337\151\366\063  
\306\151\056\227\023\236\245\207\260\127\020\201\067\311\123\263  
\273\177\366\222\321\234\320\030\364\222\156\332\203\117\246\143  
\231\114\245\373\136\357\041\144\172\040\137\154\144\205\025\313  
\067\351\142\014\013\052\026\334\001\056\062\332\076\113\365\236  
\072\366\027\100\224\357\236\221\010\206\372\276\143\250\132\063  
\354\313\164\103\225\371\154\151\122\066\307\051\157\374\125\003  
\134\037\373\237\275\107\353\347\111\107\225\013\116\211\042\011  
\111\340\365\141\036\361\277\056\212\162\156\200\131\377\127\072  
\371\165\062\243\116\137\354\355\050\142\331\115\163\362\314\201  
\027\140\355\315\353\334\333\247\312\305\176\002\275\362\124\010  
\124\375\264\055\011\054\027\124\112\230\321\124\341\121\147\010  
\322\355\156\176\157\077\322\055\201\131\051\146\313\220\071\225  
\021\036\164\047\376\335\353\257\002\003\001\000\001\243\102\060  
\100\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001  
\001\377\060\016\006\003\125\035\017\001\001\377\004\004\003\002  
\001\206\060\035\006\003\125\035\016\004\026\004\024\260\014\360  
\114\060\364\005\130\002\110\375\063\345\122\257\113\204\343\146  
\122\060\015\006\011\052\206\110\206\367\015\001\001\014\005\000  
\003\202\002\001\000\252\250\200\217\016\170\243\340\242\324\315  
\346\365\230\172\073\352\000\003\260\227\016\223\274\132\250\366  
\054\214\162\207\251\261\374\177\163\375\143\161\170\245\207\131  
\317\060\341\015\020\262\023\132\155\202\365\152\346\200\237\240  
\005\013\150\344\107\153\307\152\337\266\375\167\062\162\345\030  
\372\011\364\240\223\054\135\322\214\165\205\166\145\220\014\003  
\171\267\061\043\143\255\170\203\011\206\150\204\312\377\371\317  
\046\232\222\171\347\315\113\305\347\141\247\027\313\363\251\022  
\223\223\153\247\350\057\123\222\304\140\130\260\314\002\121\030  
\133\205\215\142\131\143\266\255\264\336\232\373\046\367\000\047  
\300\135\125\067\164\231\311\120\177\343\131\056\104\343\054\045  
\356\354\114\062\167\264\237\032\351\113\135\040\305\332\375\034  
\207\026\306\103\350\324\273\046\232\105\160\136\251\013\067\123  
\342\106\173\047\375\340\106\362\211\267\314\102\266\313\050\046  
\156\331\245\311\072\310\101\023\140\367\120\214\025\256\262\155  
\032\025\032\127\170\346\222\052\331\145\220\202\077\154\002\257  
\256\022\072\047\226\066\004\327\035\242\200\143\251\233\361\345  
\272\264\174\024\260\116\311\261\037\164\137\070\366\121\352\233  
\372\054\242\021\324\251\055\047\032\105\261\257\262\116\161\015  
\300\130\106\326\151\006\313\123\313\263\376\153\101\315\101\176  
\175\114\017\174\162\171\172\131\315\136\112\016\254\233\251\230  
\163\171\174\264\364\314\271\270\007\014\262\164\134\270\307\157  
\210\241\220\247\364\252\371\277\147\072\364\032\025\142\036\267

```
\237\276\075\261\051\257\147\241\022\362\130\020\031\123\003\060
\033\270\032\211\366\234\275\227\003\216\243\011\363\035\213\041
\361\264\337\344\034\321\237\145\002\006\352\134\326\023\263\204
\357\242\245\134\214\167\051\247\150\300\153\256\100\322\250\264
\352\315\360\215\113\070\234\031\232\033\050\124\270\211\220\357
\312\165\201\076\036\362\144\044\307\030\257\116\377\107\236\007
\366\065\145\244\323\012\126\377\365\027\144\154\357\250\042\045
\111\223\266\337\000\027\332\130\176\135\356\305\033\260\321\321
\137\041\020\307\371\363\272\002\012\047\007\305\361\326\307\323
\340\373\011\140\154
```

END

```
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRICT_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRICT_AFTER CK_BBOOL CK_FALSE
```

```
Trust for "Amazon Root CA 2"
```

```
Issuer: CN=Amazon Root CA 2,O=Amazon,C=US
```

```
Serial Number:06:6c:9f:d2:96:35:86:9f:0a:0f:e5:86:78:f8:5b:26:bb:8a:37
```

```
Subject: CN=Amazon Root CA 2,O=Amazon,C=US
```

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

```
Not Valid After : Sat May 26 00:00:00 2040
```

```
Fingerprint (SHA-256):
```

```
1B:A5:B2:AA:8C:65:40:1A:82:96:01:18:F8:0B:EC:4F:62:30:4D:83:CE:C4:71:3A:19:C3:9C:01:1E:A4:6D:B4
```

```
Fingerprint (SHA1): 5A:8C:EF:45:D7:A6:98:59:76:7A:8C:8B:44:96:B5:78:CF:47:4B:1A
```

```
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
```

```
CKA_TOKEN CK_BBOOL CK_TRUE
```

```
CKA_PRIVATE CK_BBOOL CK_FALSE
```

```
CKA_MODIFIABLE CK_BBOOL CK_FALSE
```

```
CKA_LABEL UTF8 "Amazon Root CA 2"
```

```
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
```

```
\132\214\357\105\327\246\230\131\166\172\214\213\104\226\265\170
\317\107\113\032
```

END

```
CKA_CERT_MD5_HASH MULTILINE_OCTAL
```

```
\310\345\215\316\250\102\342\172\300\052\134\174\236\046\277\146
```

END

```
CKA_ISSUER MULTILINE_OCTAL
```

```
\060\071\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\017\060\015\006\003\125\004\012\023\006\101\155\141\172\157\156
\061\031\060\027\006\003\125\004\003\023\020\101\155\141\172\157
\156\040\122\157\157\164\040\103\101\040\062
```

END

```
CKA_SERIAL_NUMBER MULTILINE_OCTAL
```

```
\002\023\006\154\237\322\226\065\206\237\012\017\345\206\170\370
\133\046\273\212\067
```

END

```
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
```

```
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
```

CKA\_TRUST\_CODE\_SIGNING CK\_TRUST CKT\_NSS\_MUST\_VERIFY\_TRUST  
CKA\_TRUST\_STEP\_UP\_APPROVED CK\_BBOOL CK\_FALSE

#

# Certificate "Amazon Root CA 3"

#

# Issuer: CN=Amazon Root CA 3,O=Amazon,C=US

# Serial Number:06:6c:9f:d5:74:97:36:66:3f:3b:0b:9a:d9:e8:9e:76:03:f2:4a

# Subject: CN=Amazon Root CA 3,O=Amazon,C=US

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

# Not Valid After : Sat May 26 00:00:00 2040

# Fingerprint (SHA-256):

18:CE:6C:FE:7B:F1:4E:60:B2:E3:47:B8:DF:E8:68:CB:31:D0:2E:BB:3A:DA:27:15:69:F5:03:43:B4:6D:B3:A4

# Fingerprint (SHA1): 0D:44:DD:8C:3C:8C:1A:1A:58:75:64:81:E9:0F:2E:2A:FF:B3:D2:6E

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_CERTIFICATE

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "Amazon Root CA 3"

CKA\_CERTIFICATE\_TYPE CK\_CERTIFICATE\_TYPE CKC\_X\_509

CKA\_SUBJECT MULTILINE\_OCTAL

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

\017\060\015\006\003\125\004\012\023\006\101\155\141\172\157\156

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

\156\040\122\157\157\164\040\103\101\040\063

END

CKA\_ID UTF8 "0"

CKA\_ISSUER MULTILINE\_OCTAL

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

\017\060\015\006\003\125\004\012\023\006\101\155\141\172\157\156

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

\156\040\122\157\157\164\040\103\101\040\063

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

\002\023\006\154\237\325\164\227\066\146\077\073\013\232\331\350

\236\166\003\362\112

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\001\266\060\202\001\133\240\003\002\001\002\002\023\006

\154\237\325\164\227\066\146\077\073\013\232\331\350\236\166\003

\362\112\060\012\006\010\052\206\110\316\075\004\003\002\060\071

\061\013\060\011\006\003\125\004\006\023\002\125\123\061\017\060

\015\006\003\125\004\012\023\006\101\155\141\172\157\156\061\031

\060\027\006\003\125\004\003\023\020\101\155\141\172\157\156\040

\122\157\157\164\040\103\101\040\063\060\036\027\015\061\065\060

\065\062\066\060\060\060\060\060\132\027\015\064\060\060\065

\062\066\060\060\060\060\060\132\060\071\061\013\060\011\006

\003\125\004\006\023\002\125\123\061\017\060\015\006\003\125\004

```
\012\023\006\101\155\141\172\157\156\061\031\060\027\006\003\125
\004\003\023\020\101\155\141\172\157\156\040\122\157\157\164\040
\103\101\040\063\060\131\060\023\006\007\052\206\110\316\075\002
\001\006\010\052\206\110\316\075\003\001\007\003\102\000\004\051
\227\247\306\101\177\300\015\233\350\001\033\126\306\362\122\245
\272\055\262\022\350\322\056\327\372\311\305\330\252\155\037\163
\201\073\073\230\153\071\174\063\245\305\116\206\216\200\027\150
\142\105\127\175\104\130\035\263\067\345\147\010\353\146\336\243
\102\060\100\060\017\006\003\125\035\023\001\001\377\004\005\060
\003\001\001\377\060\016\006\003\125\035\017\001\001\377\004\004
\003\002\001\206\060\035\006\003\125\035\016\004\026\004\024\253
\266\333\327\006\236\067\254\060\206\007\221\160\307\234\304\031
\261\170\300\060\012\006\010\052\206\110\316\075\004\003\002\003
\111\000\060\106\002\041\000\340\205\222\243\027\267\215\371\053
\006\245\223\254\032\230\150\141\162\372\341\241\320\373\034\170
\140\246\103\231\305\270\304\002\041\000\234\002\357\361\224\234
\263\226\371\353\306\052\370\266\054\376\072\220\024\026\327\214
\143\044\110\034\337\060\175\325\150\073
```

END

```
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRICT_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRICT_AFTER CK_BBOOL CK_FALSE
```

```
Trust for "Amazon Root CA 3"
```

```
Issuer: CN=Amazon Root CA 3,O=Amazon,C=US
```

```
Serial Number:06:6c:9f:d5:74:97:36:66:3f:3b:0b:9a:d9:e8:9e:76:03:f2:4a
```

```
Subject: CN=Amazon Root CA 3,O=Amazon,C=US
```

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

```
Not Valid After : Sat May 26 00:00:00 2040
```

```
Fingerprint (SHA-256):
```

```
18:CE:6C:FE:7B:F1:4E:60:B2:E3:47:B8:DF:E8:68:CB:31:D0:2E:BB:3A:DA:27:15:69:F5:03:43:B4:6D:B3:A4
```

```
Fingerprint (SHA1): 0D:44:DD:8C:3C:8C:1A:1A:58:75:64:81:E9:0F:2E:2A:FF:B3:D2:6E
```

```
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
```

```
CKA_TOKEN CK_BBOOL CK_TRUE
```

```
CKA_PRIVATE CK_BBOOL CK_FALSE
```

```
CKA_MODIFIABLE CK_BBOOL CK_FALSE
```

```
CKA_LABEL UTF8 "Amazon Root CA 3"
```

```
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
```

```
\015\104\335\214\074\214\032\032\130\165\144\201\351\017\056\052
\377\263\322\156
```

END

```
CKA_CERT_MD5_HASH MULTILINE_OCTAL
```

```
\240\324\357\013\367\265\330\111\225\052\354\365\304\374\201\207
```

END

```
CKA_ISSUER MULTILINE_OCTAL
```

```
\060\071\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\017\060\015\006\003\125\004\012\023\006\101\155\141\172\157\156
\061\031\060\027\006\003\125\004\003\023\020\101\155\141\172\157
```

```

\156\040\122\157\157\164\040\103\101\040\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\023\006\154\237\325\164\227\066\146\077\073\013\232\331\350
\236\166\003\362\112
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Amazon Root CA 4"
#
Issuer: CN=Amazon Root CA 4,O=Amazon,C=US
Serial Number:06:6c:9f:d7:c1:bb:10:4c:29:43:e5:71:7b:7b:2c:c8:1a:c1:0e
Subject: CN=Amazon Root CA 4,O=Amazon,C=US
Not Valid Before: Tue May 26 00:00:00 2015
Not Valid After : Sat May 26 00:00:00 2040
Fingerprint (SHA-256):
E3:5D:28:41:9E:D0:20:25:CF:A6:90:38:CD:62:39:62:45:8D:A5:C6:95:FB:DE:A3:C2:2B:0B:FB:25:89:70:92
Fingerprint (SHA1): F6:10:84:07:D6:F8:BB:67:98:0C:C2:E2:44:C2:EB:AE:1C:EF:63:BE
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Amazon Root CA 4"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\071\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\017\060\015\006\003\125\004\012\023\006\101\155\141\172\157\156
\061\031\060\027\006\003\125\004\003\023\020\101\155\141\172\157
\156\040\122\157\157\164\040\103\101\040\064
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\071\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\017\060\015\006\003\125\004\012\023\006\101\155\141\172\157\156
\061\031\060\027\006\003\125\004\003\023\020\101\155\141\172\157
\156\040\122\157\157\164\040\103\101\040\064
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\023\006\154\237\327\301\273\020\114\051\103\345\161\173\173
\054\310\032\301\016
END
CKA_VALUE MULTILINE_OCTAL
\060\202\001\362\060\202\001\170\240\003\002\001\002\002\023\006
\154\237\327\301\273\020\114\051\103\345\161\173\173\054\310\032

```



\301\016\060\012\006\010\052\206\110\316\075\004\003\003\060\071  
\061\013\060\011\006\003\125\004\006\023\002\125\123\061\017\060  
\015\006\003\125\004\012\023\006\101\155\141\172\157\156\061\031  
\060\027\006\003\125\004\003\023\020\101\155\141\172\157\156\040  
\122\157\157\164\040\103\101\040\064\060\036\027\015\061\065\060  
\065\062\066\060\060\060\060\060\132\027\015\064\060\060\065  
\062\066\060\060\060\060\060\132\060\071\061\013\060\011\006  
\003\125\004\006\023\002\125\123\061\017\060\015\006\003\125\004  
\012\023\006\101\155\141\172\157\156\061\031\060\027\006\003\125  
\004\003\023\020\101\155\141\172\157\156\040\122\157\157\164\040  
\103\101\040\064\060\166\060\020\006\007\052\206\110\316\075\002  
\001\006\005\053\201\004\000\042\003\142\000\004\322\253\212\067  
\117\243\123\015\376\301\212\173\113\250\173\106\113\143\260\142  
\366\055\033\333\010\161\041\322\000\350\143\275\232\047\373\360  
\071\156\135\352\075\245\311\201\252\243\133\040\230\105\135\026  
\333\375\350\020\155\343\234\340\343\275\137\204\142\363\160\144  
\063\240\313\044\057\160\272\210\241\052\240\165\370\201\256\142  
\006\304\201\333\071\156\051\260\036\372\056\134\243\102\060\100  
\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001  
\377\060\016\006\003\125\035\017\001\001\377\004\004\003\002\001  
\206\060\035\006\003\125\035\016\004\026\004\024\323\354\307\072  
\145\156\314\341\332\166\232\126\373\234\363\206\155\127\345\201  
\060\012\006\010\052\206\110\316\075\004\003\003\003\150\000\060  
\145\002\060\072\213\041\361\275\176\021\255\320\357\130\226\057  
\326\353\235\176\220\215\053\317\146\125\303\054\343\050\251\160  
\012\107\016\360\067\131\022\377\055\231\224\050\116\052\117\065  
\115\063\132\002\061\000\352\165\000\116\073\304\072\224\022\221  
\311\130\106\235\041\023\162\247\210\234\212\344\114\112\333\226  
\324\254\213\153\153\111\022\123\063\255\327\344\276\044\374\265  
\012\166\324\245\274\020

END

CKA\_NSS\_MOZILLA\_CA\_POLICY CK\_BBOOL CK\_TRUE  
CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE  
CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "Amazon Root CA 4"

# Issuer: CN=Amazon Root CA 4,O=Amazon,C=US

# Serial Number:06:6c:9f:d7:c1:bb:10:4c:29:43:e5:71:7b:7b:2c:c8:1a:c1:0e

# Subject: CN=Amazon Root CA 4,O=Amazon,C=US

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

# Not Valid After : Sat May 26 00:00:00 2040

# Fingerprint (SHA-256):

E3:5D:28:41:9E:D0:20:25:CF:A6:90:38:CD:62:39:62:45:8D:A5:C6:95:FB:DE:A3:C2:2B:0B:FB:25:89:70:92

# Fingerprint (SHA1): F6:10:84:07:D6:F8:BB:67:98:0C:C2:E2:44:C2:EB:AE:1C:EF:63:BE

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

```

CKA_LABEL UTF8 "Amazon Root CA 4"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\366\020\204\007\326\370\273\147\230\014\302\342\104\302\353\256
\034\357\143\276
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\211\274\047\325\353\027\215\006\152\151\325\375\211\107\264\315
END
CKA_ISSUER MULTILINE_OCTAL
\060\071\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\017\060\015\006\003\125\004\012\023\006\101\155\141\172\157\156
\061\031\060\027\006\003\125\004\003\023\020\101\155\141\172\157
\156\040\122\157\157\164\040\103\101\040\064
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\023\006\154\237\327\301\273\020\114\051\103\345\161\173\173
\054\310\032\301\016
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Symantec Class 1 Public Primary Certification Authority - G6"
#
Issuer: CN=Symantec Class 1 Public Primary Certification Authority - G6,OU=Symantec Trust
Network,O=Symantec Corporation,C=US
Serial Number:24:32:75:f2:1d:2f:d2:09:33:f7:b4:6a:ca:d0:f3:98
Subject: CN=Symantec Class 1 Public Primary Certification Authority - G6,OU=Symantec Trust
Network,O=Symantec Corporation,C=US
Not Valid Before: Tue Oct 18 00:00:00 2011
Not Valid After : Tue Dec 01 23:59:59 2037
Fingerprint (SHA-256):
9D:19:0B:2E:31:45:66:68:5B:E8:A8:89:E2:7A:A8:C7:D7:AE:1D:8A:AD:DB:A3:C1:EC:F9:D2:48:63:CD:34:B9
Fingerprint (SHA1): 51:7F:61:1E:29:91:6B:53:82:FB:72:E7:44:D9:8D:C3:CC:53:6D:64
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Symantec Class 1 Public Primary Certification Authority - G6"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\224\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\035\060\033\006\003\125\004\012\023\024\123\171\155\141\156
\164\145\143\040\103\157\162\160\157\162\141\164\151\157\156\061
\037\060\035\006\003\125\004\013\023\026\123\171\155\141\156\164
\145\143\040\124\162\165\163\164\040\116\145\164\167\157\162\153

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\061\105\060\103\006\003\125\004\003\023\074\123\171\155\141\156  
\164\145\143\040\103\154\141\163\163\040\061\040\120\165\142\154  
\151\143\040\120\162\151\155\141\162\171\040\103\145\162\164\151  
\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151  
\164\171\040\055\040\107\066

END

CKA\_ID UTF8 "0"

CKA\_ISSUER MULTILINE\_OCTAL

\060\201\224\061\013\060\011\006\003\125\004\006\023\002\125\123  
\061\035\060\033\006\003\125\004\012\023\024\123\171\155\141\156  
\164\145\143\040\103\157\162\160\157\162\141\164\151\157\156\061  
\037\060\035\006\003\125\004\013\023\026\123\171\155\141\156\164  
\145\143\040\124\162\165\163\164\040\116\145\164\167\157\162\153  
\061\105\060\103\006\003\125\004\003\023\074\123\171\155\141\156  
\164\145\143\040\103\154\141\163\163\040\061\040\120\165\142\154  
\151\143\040\120\162\151\155\141\162\171\040\103\145\162\164\151  
\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151  
\164\171\040\055\040\107\066

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

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

\060\202\003\366\060\202\002\336\240\003\002\001\002\002\020\044  
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\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060\201  
\224\061\013\060\011\006\003\125\004\006\023\002\125\123\061\035  
\060\033\006\003\125\004\012\023\024\123\171\155\141\156\164\145  
\143\040\103\157\162\160\157\162\141\164\151\157\156\061\037\060  
\035\006\003\125\004\013\023\026\123\171\155\141\156\164\145\143  
\040\124\162\165\163\164\040\116\145\164\167\157\162\153\061\105  
\060\103\006\003\125\004\003\023\074\123\171\155\141\156\164\145  
\143\040\103\154\141\163\163\040\061\040\120\165\142\154\151\143  
\040\120\162\151\155\141\162\171\040\103\145\162\164\151\146\151  
\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171  
\040\055\040\107\066\060\036\027\015\061\061\061\060\061\070\060  
\060\060\060\060\060\132\027\015\063\067\061\062\060\061\062\063  
\065\071\065\071\132\060\201\224\061\013\060\011\006\003\125\004  
\006\023\002\125\123\061\035\060\033\006\003\125\004\012\023\024  
\123\171\155\141\156\164\145\143\040\103\157\162\160\157\162\141  
\164\151\157\156\061\037\060\035\006\003\125\004\013\023\026\123  
\171\155\141\156\164\145\143\040\124\162\165\163\164\040\116\145  
\164\167\157\162\153\061\105\060\103\006\003\125\004\003\023\074  
\123\171\155\141\156\164\145\143\040\103\154\141\163\163\040\061  
\040\120\165\142\154\151\143\040\120\162\151\155\141\162\171\040  
\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101\165  
\164\150\157\162\151\164\171\040\055\040\107\066\060\202\001\042

\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003  
\202\001\017\000\060\202\001\012\002\202\001\001\000\307\071\327  
\111\144\251\231\202\042\114\352\105\331\007\026\343\173\364\203  
\350\231\163\372\153\261\066\340\232\167\240\100\302\201\215\001  
\307\314\214\275\217\175\367\171\343\172\114\003\115\331\373\375  
\207\070\050\054\335\232\213\124\010\333\147\373\033\214\376\050  
\222\057\276\267\262\110\247\201\241\330\136\210\303\314\071\100  
\101\132\321\334\345\332\020\237\057\332\001\115\375\056\106\174  
\371\056\047\012\151\067\356\221\243\033\152\314\104\277\033\307  
\303\324\021\262\120\140\227\011\275\056\042\365\101\204\146\237  
\315\100\246\251\000\200\301\037\225\222\237\336\363\110\357\333  
\035\167\141\374\177\337\356\226\244\162\320\266\076\377\170\047  
\257\313\222\025\151\010\333\143\020\342\346\227\254\156\334\254  
\366\242\316\036\107\231\271\211\267\022\346\241\324\315\131\021  
\147\303\157\205\330\102\116\050\276\131\125\131\004\225\253\217  
\067\200\277\015\360\374\037\072\144\061\130\201\170\327\342\065  
\366\040\077\051\270\217\026\156\076\110\334\265\114\007\341\362  
\032\352\176\012\171\326\250\275\353\135\206\053\115\002\003\001  
\000\001\243\102\060\100\060\016\006\003\125\035\017\001\001\377  
\004\004\003\002\001\006\060\017\006\003\125\035\023\001\001\377  
\004\005\060\003\001\001\377\060\035\006\003\125\035\016\004\026  
\004\024\063\101\350\310\071\022\025\223\110\362\226\062\056\132  
\365\332\224\137\123\140\060\015\006\011\052\206\110\206\367\015  
\001\001\013\005\000\003\202\001\001\000\025\343\163\127\261\027  
\266\137\111\151\104\246\366\136\172\147\254\322\336\165\111\253  
\376\045\125\307\072\311\104\025\020\156\277\061\153\313\331\007  
\223\177\034\205\143\000\343\062\022\340\314\313\373\071\154\217  
\342\123\342\074\100\063\331\244\214\107\346\255\130\373\211\257  
\343\336\206\051\126\064\054\105\270\022\372\104\211\156\055\024  
\045\050\044\001\145\326\352\122\254\005\156\126\022\011\075\320  
\164\364\327\275\006\312\250\072\215\126\102\372\215\162\076\164  
\361\003\162\337\207\033\136\016\172\125\226\054\070\267\230\205  
\315\115\063\104\311\224\217\132\061\060\067\113\243\072\022\263  
\347\066\321\041\150\113\055\070\346\123\256\034\045\126\010\126  
\003\147\204\235\306\303\316\044\142\307\114\066\317\260\006\104  
\267\365\137\002\335\331\124\351\057\220\116\172\310\116\203\100  
\014\232\227\074\067\277\277\354\366\360\264\205\167\050\301\013  
\310\147\202\020\027\070\242\267\006\352\233\277\072\370\351\043  
\007\277\164\340\230\070\025\125\170\356\162\000\134\031\243\364  
\322\063\340\377\275\321\124\071\051\017

END

CKA\_NSS\_MOZILLA\_CA\_POLICY CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

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

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER MULTILINE\_OCTAL

\062\062\060\070\063\061\060\060\060\060\060\060\132

END

```

Trust for "Symantec Class 1 Public Primary Certification Authority - G6"
Issuer: CN=Symantec Class 1 Public Primary Certification Authority - G6,OU=Symantec Trust
Network,O=Symantec Corporation,C=US
Serial Number:24:32:75:f2:1d:2f:d2:09:33:f7:b4:6a:ca:d0:f3:98
Subject: CN=Symantec Class 1 Public Primary Certification Authority - G6,OU=Symantec Trust
Network,O=Symantec Corporation,C=US
Not Valid Before: Tue Oct 18 00:00:00 2011
Not Valid After : Tue Dec 01 23:59:59 2037
Fingerprint (SHA-256):
9D:19:0B:2E:31:45:66:68:5B:E8:A8:89:E2:7A:A8:C7:D7:AE:1D:8A:AD:DB:A3:C1:EC:F9:D2:48:63:CD:34:B9
Fingerprint (SHA1): 51:7F:61:1E:29:91:6B:53:82:FB:72:E7:44:D9:8D:C3:CC:53:6D:64
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Symantec Class 1 Public Primary Certification Authority - G6"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\121\177\141\036\051\221\153\123\202\373\162\347\104\331\215\303
\314\123\155\144
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\057\250\264\332\366\144\113\036\202\371\106\075\124\032\174\260
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\224\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\035\060\033\006\003\125\004\012\023\024\123\171\155\141\156
\164\145\143\040\103\157\162\160\157\162\141\164\151\157\156\061
\037\060\035\006\003\125\004\013\023\026\123\171\155\141\156\164
\145\143\040\124\162\165\163\164\040\116\145\164\167\157\162\153
\061\105\060\103\006\003\125\004\003\023\074\123\171\155\141\156
\164\145\143\040\103\154\141\163\163\040\061\040\120\165\142\154
\151\143\040\120\162\151\155\141\162\171\040\103\145\162\164\151
\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151
\164\171\040\055\040\107\066
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\044\062\165\362\035\057\322\011\063\367\264\152\312\320
\363\230
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Symantec Class 2 Public Primary Certification Authority - G6"
#
Issuer: CN=Symantec Class 2 Public Primary Certification Authority - G6,OU=Symantec Trust

```

Network,O=Symantec Corporation,C=US  
# Serial Number:64:82:9e:fc:37:1e:74:5d:fc:97:ff:97:c8:b1:ff:41  
# Subject: CN=Symantec Class 2 Public Primary Certification Authority - G6,OU=Symantec Trust  
Network,O=Symantec Corporation,C=US  
# Not Valid Before: Tue Oct 18 00:00:00 2011  
# Not Valid After : Tue Dec 01 23:59:59 2037  
# Fingerprint (SHA-256):  
CB:62:7D:18:B5:8A:D5:6D:DE:33:1A:30:45:6B:C6:5C:60:1A:4E:9B:18:DE:DC:EA:08:E7:DA:AA:07:81:5F:F0  
# Fingerprint (SHA1): 40:B3:31:A0:E9:BF:E8:55:BC:39:93:CA:70:4F:4E:C2:51:D4:1D:8F  
CKA\_CLASS CK\_OBJECT\_CLASS CKO\_CERTIFICATE  
CKA\_TOKEN CK\_BBOOL CK\_TRUE  
CKA\_PRIVATE CK\_BBOOL CK\_FALSE  
CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE  
CKA\_LABEL UTF8 "Symantec Class 2 Public Primary Certification Authority - G6"  
CKA\_CERTIFICATE\_TYPE CK\_CERTIFICATE\_TYPE CKC\_X\_509  
CKA\_SUBJECT MULTILINE\_OCTAL  
\060\201\224\061\013\060\011\006\003\125\004\006\023\002\125\123  
\061\035\060\033\006\003\125\004\012\023\024\123\171\155\141\156  
\164\145\143\040\103\157\162\160\157\162\141\164\151\157\156\061  
\037\060\035\006\003\125\004\013\023\026\123\171\155\141\156\164  
\145\143\040\124\162\165\163\164\040\116\145\164\167\157\162\153  
\061\105\060\103\006\003\125\004\003\023\074\123\171\155\141\156  
\164\145\143\040\103\154\141\163\163\040\062\040\120\165\142\154  
\151\143\040\120\162\151\155\141\162\171\040\103\145\162\164\151  
\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151  
\164\171\040\055\040\107\066  
END  
CKA\_ID UTF8 "0"  
CKA\_ISSUER MULTILINE\_OCTAL  
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\061\035\060\033\006\003\125\004\012\023\024\123\171\155\141\156  
\164\145\143\040\103\157\162\160\157\162\141\164\151\157\156\061  
\037\060\035\006\003\125\004\013\023\026\123\171\155\141\156\164  
\145\143\040\124\162\165\163\164\040\116\145\164\167\157\162\153  
\061\105\060\103\006\003\125\004\003\023\074\123\171\155\141\156  
\164\145\143\040\103\154\141\163\163\040\062\040\120\165\142\154  
\151\143\040\120\162\151\155\141\162\171\040\103\145\162\164\151  
\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151  
\164\171\040\055\040\107\066  
END  
CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL  
\002\020\144\202\236\374\067\036\164\135\374\227\377\227\310\261  
\377\101  
END  
CKA\_VALUE MULTILINE\_OCTAL  
\060\202\003\366\060\202\002\336\240\003\002\001\002\002\020\144  
\202\236\374\067\036\164\135\374\227\377\227\310\261\377\101\060  
\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060\201

\224\061\013\060\011\006\003\125\004\006\023\002\125\123\061\035  
\060\033\006\003\125\004\012\023\024\123\171\155\141\156\164\145  
\143\040\103\157\162\160\157\162\141\164\151\157\156\061\037\060  
\035\006\003\125\004\013\023\026\123\171\155\141\156\164\145\143  
\040\124\162\165\163\164\040\116\145\164\167\157\162\153\061\105  
\060\103\006\003\125\004\003\023\074\123\171\155\141\156\164\145  
\143\040\103\154\141\163\163\040\062\040\120\165\142\154\151\143  
\040\120\162\151\155\141\162\171\040\103\145\162\164\151\146\151  
\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171  
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\060\060\060\060\060\132\027\015\063\067\061\062\060\061\062\063  
\065\071\065\071\132\060\201\224\061\013\060\011\006\003\125\004  
\006\023\002\125\123\061\035\060\033\006\003\125\004\012\023\024  
\123\171\155\141\156\164\145\143\040\103\157\162\160\157\162\141  
\164\151\157\156\061\037\060\035\006\003\125\004\013\023\026\123  
\171\155\141\156\164\145\143\040\124\162\165\163\164\040\116\145  
\164\167\157\162\153\061\105\060\103\006\003\125\004\003\023\074  
\123\171\155\141\156\164\145\143\040\103\154\141\163\163\040\062  
\040\120\165\142\154\151\143\040\120\162\151\155\141\162\171\040  
\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101\165  
\164\150\157\162\151\164\171\040\055\040\107\066\060\202\001\042  
\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003  
\202\001\017\000\060\202\001\012\002\202\001\001\000\315\314\351  
\005\310\143\205\313\077\100\143\027\275\030\372\065\346\004\147  
\127\145\230\051\244\117\311\134\217\017\064\322\370\332\250\023  
\142\252\270\036\120\147\170\260\026\114\240\071\251\025\172\256  
\355\322\242\300\360\220\067\051\030\046\134\350\015\074\266\154  
\111\077\301\340\334\331\113\266\024\031\013\246\323\226\341\326  
\011\343\031\046\034\371\037\145\113\371\032\103\034\000\203\326  
\320\252\111\242\324\333\346\142\070\272\120\024\103\155\371\061  
\370\126\026\331\070\002\221\317\353\154\335\273\071\116\231\341  
\060\147\105\361\324\360\215\303\337\376\362\070\007\041\175\000  
\136\126\104\263\344\140\275\221\053\234\253\133\004\162\017\262  
\050\331\162\253\005\040\102\045\251\133\003\152\040\020\314\061  
\360\053\332\065\054\320\373\232\227\116\360\202\113\053\330\137  
\066\243\013\055\257\143\015\035\045\177\241\156\134\142\241\215  
\050\076\241\374\034\040\370\001\057\272\125\232\021\260\031\322  
\310\120\171\153\016\152\005\327\252\004\066\262\243\362\341\137  
\167\247\167\234\345\036\334\351\337\152\301\145\135\002\003\001  
\000\001\243\102\060\100\060\016\006\003\125\035\017\001\001\377  
\004\004\003\002\001\006\060\017\006\003\125\035\023\001\001\377  
\004\005\060\003\001\001\377\060\035\006\003\125\035\016\004\026  
\004\024\207\214\040\225\310\230\112\321\326\200\006\112\220\064  
\104\337\034\115\277\260\060\015\006\011\052\206\110\206\367\015  
\001\001\013\005\000\003\202\001\001\000\201\216\262\245\146\226  
\267\041\245\266\357\157\043\132\137\333\201\305\102\245\170\301  
\151\375\364\074\327\371\134\153\160\162\032\374\132\227\115\000  
\200\210\210\202\212\303\161\015\216\305\211\233\054\355\215\013

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\322\162\124\365\175\324\134\103\127\351\363\256\245\002\021\366
\166\053\201\127\335\175\332\164\060\375\124\107\366\340\026\156
\246\264\012\110\346\347\165\007\017\051\031\071\316\171\364\266
\154\305\137\231\325\037\113\372\337\155\054\074\015\124\200\160
\360\210\013\200\317\306\150\242\270\035\160\331\166\214\374\356
\245\311\317\255\035\317\231\045\127\132\142\105\313\026\153\275
\111\315\245\243\214\151\171\045\256\270\114\154\213\100\146\113
\026\077\317\002\032\335\341\154\153\007\141\152\166\025\051\231
\177\033\335\210\200\301\277\265\217\163\305\246\226\043\204\246
\050\206\044\063\152\001\056\127\163\045\266\136\277\217\346\035
\141\250\100\051\147\035\207\233\035\177\233\237\231\315\061\326
\124\276\142\273\071\254\150\022\110\221\040\245\313\261\335\376
\157\374\132\344\202\125\131\257\061\251
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END

CKA\_NSS\_MOZILLA\_CA\_POLICY CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

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

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER MULTILINE\_OCTAL

\062\062\060\070\063\061\060\060\060\060\060\060\132

END

# Trust for "Symantec Class 2 Public Primary Certification Authority - G6"

# Issuer: CN=Symantec Class 2 Public Primary Certification Authority - G6,OU=Symantec Trust  
Network,O=Symantec Corporation,C=US

# Serial Number:64:82:9e:fc:37:1e:74:5d:fc:97:ff:97:c8:b1:ff:41

# Subject: CN=Symantec Class 2 Public Primary Certification Authority - G6,OU=Symantec Trust  
Network,O=Symantec Corporation,C=US

# Not Valid Before: Tue Oct 18 00:00:00 2011

# Not Valid After : Tue Dec 01 23:59:59 2037

# Fingerprint (SHA-256):

CB:62:7D:18:B5:8A:D5:6D:DE:33:1A:30:45:6B:C6:5C:60:1A:4E:9B:18:DE:DC:EA:08:E7:DA:AA:07:81:5F:F0

# Fingerprint (SHA1): 40:B3:31:A0:E9:BF:E8:55:BC:39:93:CA:70:4F:4E:C2:51:D4:1D:8F

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "Symantec Class 2 Public Primary Certification Authority - G6"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

\100\263\061\240\351\277\350\125\274\071\223\312\160\117\116\302  
\121\324\035\217

END

CKA\_CERT\_MD5\_HASH MULTILINE\_OCTAL

\175\013\203\345\373\174\255\007\117\040\251\265\337\143\355\171

END

CKA\_ISSUER MULTILINE\_OCTAL

\060\201\224\061\013\060\011\006\003\125\004\006\023\002\125\123  
\061\035\060\033\006\003\125\004\012\023\024\123\171\155\141\156  
\164\145\143\040\103\157\162\160\157\162\141\164\151\157\156\061



```
\037\060\035\006\003\125\004\013\023\026\123\171\155\141\156\164
\145\143\040\124\162\165\163\164\040\116\145\164\167\157\162\153
\061\105\060\103\006\003\125\004\003\023\074\123\171\155\141\156
\164\145\143\040\103\154\141\163\163\040\062\040\120\165\142\154
\151\143\040\120\162\151\155\141\162\171\040\103\145\162\164\151
\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151
\164\171\040\055\040\107\066
```

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

```
\002\020\144\202\236\374\067\036\164\135\374\227\377\227\310\261
\377\101
```

END

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

#

# Certificate "D-TRUST Root CA 3 2013"

#

# Issuer: CN=D-TRUST Root CA 3 2013,O=D-Trust GmbH,C=DE

# Serial Number: 1039788 (0xfddac)

# Subject: CN=D-TRUST Root CA 3 2013,O=D-Trust GmbH,C=DE

# Not Valid Before: Fri Sep 20 08:25:51 2013

# Not Valid After : Wed Sep 20 08:25:51 2028

# Fingerprint (SHA-256):

A1:A8:6D:04:12:1E:B8:7F:02:7C:66:F5:33:03:C2:8E:57:39:F9:43:FC:84:B3:8A:D6:AF:00:90:35:DD:94:57

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

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_CERTIFICATE

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "D-TRUST Root CA 3 2013"

CKA\_CERTIFICATE\_TYPE CK\_CERTIFICATE\_TYPE CKC\_X\_509

CKA\_SUBJECT MULTILINE\_OCTAL

```
\060\105\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\025\060\023\006\003\125\004\012\014\014\104\055\124\162\165\163
\164\040\107\155\142\110\061\037\060\035\006\003\125\004\003\014
\026\104\055\124\122\125\123\124\040\122\157\157\164\040\103\101
\040\063\040\062\060\061\063
```

END

CKA\_ID UTF8 "0"

CKA\_ISSUER MULTILINE\_OCTAL

```
\060\105\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\025\060\023\006\003\125\004\012\014\014\104\055\124\162\165\163
\164\040\107\155\142\110\061\037\060\035\006\003\125\004\003\014
\026\104\055\124\122\125\123\124\040\122\157\157\164\040\103\101
\040\063\040\062\060\061\063
```

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

\002\003\017\335\254

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\004\016\060\202\002\366\240\003\002\001\002\002\003\017  
\335\254\060\015\006\011\052\206\110\206\367\015\001\001\013\005  
\000\060\105\061\013\060\011\006\003\125\004\006\023\002\104\105  
\061\025\060\023\006\003\125\004\012\014\014\104\055\124\162\165  
\163\164\040\107\155\142\110\061\037\060\035\006\003\125\004\003  
\014\026\104\055\124\122\125\123\124\040\122\157\157\164\040\103  
\101\040\063\040\062\060\061\063\060\036\027\015\061\063\060\071  
\062\060\060\070\062\065\065\061\132\027\015\062\070\060\071\062  
\060\060\070\062\065\065\061\132\060\105\061\013\060\011\006\003  
\125\004\006\023\002\104\105\061\025\060\023\006\003\125\004\012  
\014\014\104\055\124\162\165\163\164\040\107\155\142\110\061\037  
\060\035\006\003\125\004\003\014\026\104\055\124\122\125\123\124  
\040\122\157\157\164\040\103\101\040\063\040\062\060\061\063\060  
\202\001\042\060\015\006\011\052\206\110\206\367\015\001\001\001  
\005\000\003\202\001\017\000\060\202\001\012\002\202\001\001\000  
\304\173\102\222\202\037\354\355\124\230\216\022\300\312\011\337  
\223\156\072\223\134\033\344\020\167\236\116\151\210\154\366\341  
\151\362\366\233\242\141\261\275\007\040\164\230\145\361\214\046  
\010\315\250\065\312\200\066\321\143\155\350\104\172\202\303\154  
\136\336\273\350\066\322\304\150\066\214\237\062\275\204\042\340  
\334\302\356\020\106\071\155\257\223\071\256\207\346\303\274\011  
\311\054\153\147\133\331\233\166\165\114\013\340\273\305\327\274  
\076\171\362\137\276\321\220\127\371\256\366\146\137\061\277\323  
\155\217\247\272\112\363\043\145\273\267\357\243\045\327\012\352  
\130\266\357\210\372\372\171\262\122\130\325\360\254\214\241\121  
\164\051\225\252\121\073\220\062\003\237\034\162\164\220\336\075  
\355\141\322\345\343\375\144\107\345\271\267\112\251\367\037\256  
\226\206\004\254\057\343\244\201\167\267\132\026\377\330\017\077  
\366\267\170\314\244\257\372\133\074\022\133\250\122\211\162\357  
\210\363\325\104\201\206\225\043\237\173\335\274\331\064\357\174  
\224\074\252\300\101\302\343\235\120\032\300\344\031\042\374\263  
\002\003\001\000\001\243\202\001\005\060\202\001\001\060\017\006  
\003\125\035\023\001\001\377\004\005\060\003\001\001\377\060\035  
\006\003\125\035\016\004\026\004\024\077\220\310\175\307\025\157  
\363\044\217\251\303\057\113\242\017\041\262\057\347\060\016\006  
\003\125\035\017\001\001\377\004\004\003\002\001\006\060\201\276  
\006\003\125\035\037\004\201\266\060\201\263\060\164\240\162\240  
\160\206\156\154\144\141\160\072\057\057\144\151\162\145\143\164  
\157\162\171\056\144\055\164\162\165\163\164\056\156\145\164\057  
\103\116\075\104\055\124\122\125\123\124\045\062\060\122\157\157  
\164\045\062\060\103\101\045\062\060\063\045\062\060\062\060\061  
\063\054\117\075\104\055\124\162\165\163\164\045\062\060\107\155  
\142\110\054\103\075\104\105\077\143\145\162\164\151\146\151\143

```
\141\164\145\162\145\166\157\143\141\164\151\157\156\154\151\163
\164\060\073\240\071\240\067\206\065\150\164\164\160\072\057\057
\143\162\154\056\144\055\164\162\165\163\164\056\156\145\164\057
\143\162\154\057\144\055\164\162\165\163\164\137\162\157\157\164
\137\143\141\137\063\137\062\060\061\063\056\143\162\154\060\015
\006\011\052\206\110\206\367\015\001\001\013\005\000\003\202\001
\001\000\016\131\016\130\344\164\110\043\104\317\064\041\265\234
\024\032\255\232\113\267\263\210\155\134\251\027\160\360\052\237
\215\173\371\173\205\372\307\071\350\020\010\260\065\053\137\317
\002\322\323\234\310\013\036\356\005\124\256\067\223\004\011\175
\154\217\302\164\274\370\034\224\276\061\001\100\055\363\044\040
\267\204\125\054\134\310\365\164\112\020\031\213\243\307\355\065
\326\011\110\323\016\300\272\071\250\260\106\002\260\333\306\210
\131\302\276\374\173\261\053\317\176\142\207\125\226\314\001\157
\233\147\041\225\065\213\370\020\374\161\033\267\113\067\151\246
\073\326\354\213\356\301\260\363\045\311\217\222\175\241\352\303
\312\104\277\046\245\164\222\234\343\164\353\235\164\331\313\115
\207\330\374\264\151\154\213\240\103\007\140\170\227\351\331\223
\174\302\106\274\233\067\122\243\355\212\074\023\251\173\123\113
\111\232\021\005\054\013\156\126\254\037\056\202\154\340\151\147
\265\016\155\055\331\344\300\025\361\077\372\030\162\341\025\155
\047\133\055\060\050\053\237\110\232\144\053\231\357\362\165\111
\137\134
```

END

```
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRICT_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRICT_AFTER CK_BBOOL CK_FALSE
```

```
Trust for "D-TRUST Root CA 3 2013"
```

```
Issuer: CN=D-TRUST Root CA 3 2013,O=D-Trust GmbH,C=DE
```

```
Serial Number: 1039788 (0xfddac)
```

```
Subject: CN=D-TRUST Root CA 3 2013,O=D-Trust GmbH,C=DE
```

```
Not Valid Before: Fri Sep 20 08:25:51 2013
```

```
Not Valid After : Wed Sep 20 08:25:51 2028
```

```
Fingerprint (SHA-256):
```

```
A1:A8:6D:04:12:1E:B8:7F:02:7C:66:F5:33:03:C2:8E:57:39:F9:43:FC:84:B3:8A:D6:AF:00:90:35:DD:94:57
```

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

```
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
```

```
CKA_TOKEN CK_BBOOL CK_TRUE
```

```
CKA_PRIVATE CK_BBOOL CK_FALSE
```

```
CKA_MODIFIABLE CK_BBOOL CK_FALSE
```

```
CKA_LABEL UTF8 "D-TRUST Root CA 3 2013"
```

```
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
```

```
\154\174\314\347\324\256\121\137\231\010\315\077\366\350\303\170
\337\157\357\227
```

END

```
CKA_CERT_MD5_HASH MULTILINE_OCTAL
```

```
\267\042\146\230\176\326\003\340\301\161\346\165\315\126\105\277
```

```

END
CKA_ISSUER MULTILINE_OCTAL
\060\105\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\025\060\023\006\003\125\004\012\014\014\104\055\124\162\165\163
\164\040\107\155\142\110\061\037\060\035\006\003\125\004\003\014
\026\104\055\124\122\125\123\124\040\122\157\157\164\040\103\101
\040\063\040\062\060\061\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\003\017\335\254
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "TUBITAK Kamu SM SSL Kok Sertifikasi - Surum 1"
#
Issuer: CN=TUBITAK Kamu SM SSL Kok Sertifikasi - Surum 1,OU=Kamu Sertifikasyon Merkezi - Kamu
SM,O=Turkiye Bilimsel ve Teknolojik Arastirma Kurumu - TUBITAK,L=Gebze - Kocaeli,C=TR
Serial Number: 1 (0x1)
Subject: CN=TUBITAK Kamu SM SSL Kok Sertifikasi - Surum 1,OU=Kamu Sertifikasyon Merkezi - Kamu
SM,O=Turkiye Bilimsel ve Teknolojik Arastirma Kurumu - TUBITAK,L=Gebze - Kocaeli,C=TR
Not Valid Before: Mon Nov 25 08:25:55 2013
Not Valid After : Sun Oct 25 08:25:55 2043
Fingerprint (SHA-256):
46:ED:C3:68:90:46:D5:3A:45:3F:B3:10:4A:B8:0D:CA:EC:65:8B:26:60:EA:16:29:DD:7E:86:79:90:64:87:16
Fingerprint (SHA1): 31:43:64:9B:EC:CE:27:EC:ED:3A:3F:0B:8F:0D:E4:E8:91:DD:EE:CA
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TUBITAK Kamu SM SSL Kok Sertifikasi - Surum 1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\322\061\013\060\011\006\003\125\004\006\023\002\124\122
\061\030\060\026\006\003\125\004\007\023\017\107\145\142\172\145
\040\055\040\113\157\143\141\145\154\151\061\102\060\100\006\003
\125\004\012\023\071\124\165\162\153\151\171\145\040\102\151\154
\151\155\163\145\154\040\166\145\040\124\145\153\156\157\154\157
\152\151\153\040\101\162\141\163\164\151\162\155\141\040\113\165
\162\165\155\165\040\055\040\124\125\102\111\124\101\113\061\055
\060\053\006\003\125\004\013\023\044\113\141\155\165\040\123\145
\162\164\151\146\151\153\141\163\171\157\156\040\115\145\162\153
\145\172\151\040\055\040\113\141\155\165\040\123\115\061\066\060
\064\006\003\125\004\003\023\055\124\125\102\111\124\101\113\040
\113\141\155\165\040\123\115\040\123\123\114\040\113\157\153\040

```

\123\145\162\164\151\146\151\153\141\163\151\040\055\040\123\165  
\162\165\155\040\061

END

CKA\_ID UTF8 "0"

CKA\_ISSUER MULTILINE\_OCTAL

\060\201\322\061\013\060\011\006\003\125\004\006\023\002\124\122  
\061\030\060\026\006\003\125\004\007\023\017\107\145\142\172\145  
\040\055\040\113\157\143\141\145\154\151\061\102\060\100\006\003  
\125\004\012\023\071\124\165\162\153\151\171\145\040\102\151\154  
\151\155\163\145\154\040\166\145\040\124\145\153\156\157\154\157  
\152\151\153\040\101\162\141\163\164\151\162\155\141\040\113\165  
\162\165\155\165\040\055\040\124\125\102\111\124\101\113\061\055  
\060\053\006\003\125\004\013\023\044\113\141\155\165\040\123\145  
\162\164\151\146\151\153\141\163\171\157\156\040\115\145\162\153  
\145\172\151\040\055\040\113\141\155\165\040\123\115\061\066\060  
\064\006\003\125\004\003\023\055\124\125\102\111\124\101\113\040  
\113\141\155\165\040\123\115\040\123\123\114\040\113\157\153\040  
\123\145\162\164\151\146\151\153\141\163\151\040\055\040\123\165  
\162\165\155\040\061

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

\002\001\001

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\004\143\060\202\003\113\240\003\002\001\002\002\001\001  
\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060  
\201\322\061\013\060\011\006\003\125\004\006\023\002\124\122\061  
\030\060\026\006\003\125\004\007\023\017\107\145\142\172\145\040  
\055\040\113\157\143\141\145\154\151\061\102\060\100\006\003\125  
\004\012\023\071\124\165\162\153\151\171\145\040\102\151\154\151  
\155\163\145\154\040\166\145\040\124\145\153\156\157\154\157\152  
\151\153\040\101\162\141\163\164\151\162\155\141\040\113\165\162  
\165\155\165\040\055\040\124\125\102\111\124\101\113\061\055\060  
\053\006\003\125\004\013\023\044\113\141\155\165\040\123\145\162  
\164\151\146\151\153\141\163\171\157\156\040\115\145\162\153\145  
\172\151\040\055\040\113\141\155\165\040\123\115\061\066\060\064  
\006\003\125\004\003\023\055\124\125\102\111\124\101\113\040\113  
\141\155\165\040\123\115\040\123\123\114\040\113\157\153\040\123  
\145\162\164\151\146\151\153\141\163\151\040\055\040\123\165\162  
\165\155\040\061\060\036\027\015\061\063\061\061\062\065\060\070  
\062\065\065\065\132\027\015\064\063\061\060\062\065\060\070\062  
\065\065\065\132\060\201\322\061\013\060\011\006\003\125\004\006  
\023\002\124\122\061\030\060\026\006\003\125\004\007\023\017\107  
\145\142\172\145\040\055\040\113\157\143\141\145\154\151\061\102  
\060\100\006\003\125\004\012\023\071\124\165\162\153\151\171\145  
\040\102\151\154\151\155\163\145\154\040\166\145\040\124\145\153  
\156\157\154\157\152\151\153\040\101\162\141\163\164\151\162\155  
\141\040\113\165\162\165\155\165\040\055\040\124\125\102\111\124

\101\113\061\055\060\053\006\003\125\004\013\023\044\113\141\155  
\165\040\123\145\162\164\151\146\151\153\141\163\171\157\156\040  
\115\145\162\153\145\172\151\040\055\040\113\141\155\165\040\123  
\115\061\066\060\064\006\003\125\004\003\023\055\124\125\102\111  
\124\101\113\040\113\141\155\165\040\123\115\040\123\123\114\040  
\113\157\153\040\123\145\162\164\151\146\151\153\141\163\151\040  
\055\040\123\165\162\165\155\040\061\060\202\001\042\060\015\006  
\011\052\206\110\206\367\015\001\001\001\005\000\003\202\001\017  
\000\060\202\001\012\002\202\001\001\000\257\165\060\063\252\273  
\153\323\231\054\022\067\204\331\215\173\227\200\323\156\347\377  
\233\120\225\076\220\225\126\102\327\031\174\046\204\215\222\372  
\001\035\072\017\342\144\070\267\214\274\350\210\371\213\044\253  
\056\243\365\067\344\100\216\030\045\171\203\165\037\073\377\154  
\250\305\306\126\370\264\355\212\104\243\253\154\114\374\035\320  
\334\357\150\275\317\344\252\316\360\125\367\242\064\324\203\153  
\067\174\034\302\376\265\003\354\127\316\274\264\265\305\355\000  
\017\123\067\052\115\364\117\014\203\373\206\317\313\376\214\116  
\275\207\371\247\213\041\127\234\172\337\003\147\211\054\235\227  
\141\247\020\270\125\220\177\016\055\047\070\164\337\347\375\332  
\116\022\343\115\025\042\002\310\340\340\374\017\255\212\327\311  
\124\120\314\073\017\312\026\200\204\320\121\126\303\216\126\177  
\211\042\063\057\346\205\012\275\245\250\033\066\336\323\334\054  
\155\073\307\023\275\131\043\054\346\345\244\367\330\013\355\352  
\220\100\104\250\225\273\223\325\320\200\064\266\106\170\016\037  
\000\223\106\341\356\351\371\354\117\027\002\003\001\000\001\243  
\102\060\100\060\035\006\003\125\035\016\004\026\004\024\145\077  
\307\212\206\306\074\335\074\124\134\065\370\072\355\122\014\107  
\127\310\060\016\006\003\125\035\017\001\001\377\004\004\003\002  
\001\006\060\017\006\003\125\035\023\001\001\377\004\005\060\003  
\001\001\377\060\015\006\011\052\206\110\206\367\015\001\001\013  
\005\000\003\202\001\001\000\052\077\341\361\062\216\256\341\230  
\134\113\136\317\153\036\152\011\322\042\251\022\307\136\127\175  
\163\126\144\200\204\172\223\344\011\271\020\315\237\052\047\341  
\000\167\276\110\310\065\250\201\237\344\270\054\311\177\016\260  
\322\113\067\135\352\271\325\013\136\064\275\364\163\051\303\355  
\046\025\234\176\010\123\212\130\215\320\113\050\337\301\263\337  
\040\363\371\343\343\072\337\314\234\224\330\116\117\303\153\027  
\267\367\162\350\255\146\063\265\045\123\253\340\370\114\251\235  
\375\362\015\272\256\271\331\252\306\153\371\223\273\256\253\270  
\227\074\003\032\272\103\306\226\271\105\162\070\263\247\241\226  
\075\221\173\176\300\041\123\114\207\355\362\013\124\225\121\223  
\325\042\245\015\212\361\223\016\076\124\016\260\330\311\116\334  
\362\061\062\126\352\144\371\352\265\235\026\146\102\162\363\177  
\323\261\061\103\374\244\216\027\361\155\043\253\224\146\370\255  
\373\017\010\156\046\055\177\027\007\011\262\214\373\120\300\237  
\226\215\317\266\375\000\235\132\024\232\277\002\104\365\301\302  
\237\042\136\242\017\241\343

END

```

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "TUBITAK Kamu SM SSL Kok Sertifikasi - Surum 1"
Issuer: CN=TUBITAK Kamu SM SSL Kok Sertifikasi - Surum 1,OU=Kamu Sertifikasyon Merkezi - Kamu
SM,O=Turkiye Bilimsel ve Teknolojik Arastirma Kurumu - TUBITAK,L=Gebze - Kocaeli,C=TR
Serial Number: 1 (0x1)
Subject: CN=TUBITAK Kamu SM SSL Kok Sertifikasi - Surum 1,OU=Kamu Sertifikasyon Merkezi - Kamu
SM,O=Turkiye Bilimsel ve Teknolojik Arastirma Kurumu - TUBITAK,L=Gebze - Kocaeli,C=TR
Not Valid Before: Mon Nov 25 08:25:55 2013
Not Valid After : Sun Oct 25 08:25:55 2043
Fingerprint (SHA-256):
46:ED:C3:68:90:46:D5:3A:45:3F:B3:10:4A:B8:0D:CA:EC:65:8B:26:60:EA:16:29:DD:7E:86:79:90:64:87:16
Fingerprint (SHA1): 31:43:64:9B:EC:CE:27:EC:ED:3A:3F:0B:8F:0D:E4:E8:91:DD:EE:CA
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TUBITAK Kamu SM SSL Kok Sertifikasi - Surum 1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\061\103\144\233\354\316\047\354\355\072\077\013\217\015\344\350
\221\335\356\312
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\334\000\201\334\151\057\076\057\260\073\366\075\132\221\216\111
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\322\061\013\060\011\006\003\125\004\006\023\002\124\122
\061\030\060\026\006\003\125\004\007\023\017\107\145\142\172\145
\040\055\040\113\157\143\141\145\154\151\061\102\060\100\006\003
\125\004\012\023\071\124\165\162\153\151\171\145\040\102\151\154
\151\155\163\145\154\040\166\145\040\124\145\153\156\157\154\157
\152\151\153\040\101\162\141\163\164\151\162\155\141\040\113\165
\162\165\155\165\040\055\040\124\125\102\111\124\101\113\061\055
\060\053\006\003\125\004\013\023\044\113\141\155\165\040\123\145
\162\164\151\146\151\153\141\163\171\157\156\040\115\145\162\153
\145\172\151\040\055\040\113\141\155\165\040\123\115\061\066\060
\064\006\003\125\004\003\023\055\124\125\102\111\124\101\113\040
\113\141\155\165\040\123\115\040\123\123\114\040\113\157\153\040
\123\145\162\164\151\146\151\153\141\163\151\040\055\040\123\165
\162\165\155\040\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST

```

CKA\_TRUST\_CODE\_SIGNING CK\_TRUST CKT\_NSS\_MUST\_VERIFY\_TRUST  
CKA\_TRUST\_STEP\_UP\_APPROVED CK\_BBOOL CK\_FALSE

#

# Certificate "GDCA TrustAUTH R5 ROOT"

#

# Issuer: CN=GDCA TrustAUTH R5 ROOT,O="GUANG DONG CERTIFICATE AUTHORITY  
CO.,LTD.",C=CN

# Serial Number:7d:09:97:fe:f0:47:ea:7a

# Subject: CN=GDCA TrustAUTH R5 ROOT,O="GUANG DONG CERTIFICATE AUTHORITY  
CO.,LTD.",C=CN

# Not Valid Before: Wed Nov 26 05:13:15 2014

# Not Valid After : Mon Dec 31 15:59:59 2040

# Fingerprint (SHA-256):

BF:FF:8F:D0:44:33:48:7D:6A:8A:A6:0C:1A:29:76:7A:9F:C2:BB:B0:5E:42:0F:71:3A:13:B9:92:89:1D:38:93

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

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_CERTIFICATE

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "GDCA TrustAUTH R5 ROOT"

CKA\_CERTIFICATE\_TYPE CK\_CERTIFICATE\_TYPE CKC\_X\_509

CKA\_SUBJECT MULTILINE\_OCTAL

\060\142\061\013\060\011\006\003\125\004\006\023\002\103\116\061  
\062\060\060\006\003\125\004\012\014\051\107\125\101\116\107\040  
\104\117\116\107\040\103\105\122\124\111\106\111\103\101\124\105  
\040\101\125\124\110\117\122\111\124\131\040\103\117\056\054\114  
\124\104\056\061\037\060\035\006\003\125\004\003\014\026\107\104  
\103\101\040\124\162\165\163\164\101\125\124\110\040\122\065\040  
\122\117\117\124

END

CKA\_ID UTF8 "0"

CKA\_ISSUER MULTILINE\_OCTAL

\060\142\061\013\060\011\006\003\125\004\006\023\002\103\116\061  
\062\060\060\006\003\125\004\012\014\051\107\125\101\116\107\040  
\104\117\116\107\040\103\105\122\124\111\106\111\103\101\124\105  
\040\101\125\124\110\117\122\111\124\131\040\103\117\056\054\114  
\124\104\056\061\037\060\035\006\003\125\004\003\014\026\107\104  
\103\101\040\124\162\165\163\164\101\125\124\110\040\122\065\040  
\122\117\117\124

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

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

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\005\210\060\202\003\160\240\003\002\001\002\002\010\175  
\011\227\376\360\107\352\172\060\015\006\011\052\206\110\206\367  
\015\001\001\013\005\000\060\142\061\013\060\011\006\003\125\004



\006\023\002\103\116\061\062\060\060\006\003\125\004\012\014\051  
\107\125\101\116\107\040\104\117\116\107\040\103\105\122\124\111  
\106\111\103\101\124\105\040\101\125\124\110\117\122\111\124\131  
\040\103\117\056\054\114\124\104\056\061\037\060\035\006\003\125  
\004\003\014\026\107\104\103\101\040\124\162\165\163\164\101\125  
\124\110\040\122\065\040\122\117\117\124\060\036\027\015\061\064  
\061\061\062\066\060\065\061\063\061\065\132\027\015\064\060\061  
\062\063\061\061\065\065\071\065\071\132\060\142\061\013\060\011  
\006\003\125\004\006\023\002\103\116\061\062\060\060\006\003\125  
\004\012\014\051\107\125\101\116\107\040\104\117\116\107\040\103  
\105\122\124\111\106\111\103\101\124\105\040\101\125\124\110\117  
\122\111\124\131\040\103\117\056\054\114\124\104\056\061\037\060  
\035\006\003\125\004\003\014\026\107\104\103\101\040\124\162\165  
\163\164\101\125\124\110\040\122\065\040\122\117\117\124\060\202  
\002\042\060\015\006\011\052\206\110\206\367\015\001\001\001\005  
\000\003\202\002\017\000\060\202\002\012\002\202\002\001\000\331  
\243\026\360\310\164\164\167\233\357\063\015\073\006\176\125\374  
\265\140\217\166\206\022\102\175\126\146\076\210\202\355\162\143  
\016\236\213\335\064\054\002\121\121\303\031\375\131\124\204\311  
\361\153\263\114\260\351\350\106\135\070\306\242\247\056\021\127  
\272\202\025\242\234\217\155\260\231\112\012\362\353\211\160\143  
\116\171\304\267\133\275\242\135\261\362\101\002\053\255\251\072  
\243\354\171\012\354\137\072\343\375\357\200\074\255\064\233\032  
\253\210\046\173\126\242\202\206\037\353\065\211\203\177\137\256  
\051\116\075\266\156\354\256\301\360\047\233\256\343\364\354\357  
\256\177\367\206\075\162\172\353\245\373\131\116\247\353\225\214  
\042\071\171\341\055\010\217\314\274\221\270\101\367\024\301\043  
\251\303\255\232\105\104\263\262\327\054\315\306\051\342\120\020  
\256\134\313\202\216\027\030\066\175\227\346\210\232\260\115\064  
\011\364\054\271\132\146\052\260\027\233\236\036\166\235\112\146  
\061\101\337\077\373\305\006\357\033\266\176\032\106\066\367\144  
\143\073\343\071\030\043\347\147\165\024\325\165\127\222\067\275  
\276\152\033\046\120\362\066\046\006\220\305\160\001\144\155\166  
\146\341\221\333\156\007\300\141\200\056\262\056\057\214\160\247  
\321\073\074\263\221\344\156\266\304\073\160\362\154\222\227\011  
\315\107\175\030\300\363\273\236\017\326\213\256\007\266\132\017  
\316\013\014\107\247\345\076\270\275\175\307\233\065\240\141\227  
\072\101\165\027\314\053\226\167\052\222\041\036\331\225\166\040  
\147\150\317\015\275\337\326\037\011\152\232\342\314\163\161\244  
\057\175\022\200\267\123\060\106\136\113\124\231\017\147\311\245  
\310\362\040\301\202\354\235\021\337\302\002\373\032\073\321\355  
\040\232\357\145\144\222\020\015\052\342\336\160\361\030\147\202  
\214\141\336\270\274\321\057\234\373\017\320\053\355\033\166\271  
\344\071\125\370\370\241\035\270\252\200\000\114\202\347\262\177  
\011\270\274\060\240\057\015\365\122\236\216\367\222\263\012\000  
\035\000\124\227\006\340\261\007\331\307\017\134\145\175\074\155  
\131\127\344\355\245\215\351\100\123\237\025\113\240\161\366\032  
\041\343\332\160\006\041\130\024\207\205\167\171\252\202\171\002

\003\001\000\001\243\102\060\100\060\035\006\003\125\035\016\004  
\026\004\024\342\311\100\237\115\316\350\232\241\174\317\016\077  
\145\305\051\210\152\031\121\060\017\006\003\125\035\023\001\001  
\377\004\005\060\003\001\001\377\060\016\006\003\125\035\017\001  
\001\377\004\004\003\002\001\206\060\015\006\011\052\206\110\206  
\367\015\001\001\013\005\000\003\202\002\001\000\321\111\127\340  
\247\314\150\130\272\001\017\053\031\315\215\260\141\105\254\021  
\355\143\120\151\370\037\177\276\026\217\375\235\353\013\252\062  
\107\166\322\147\044\355\275\174\063\062\227\052\307\005\206\146  
\015\027\175\024\025\033\324\353\375\037\232\366\136\227\151\267  
\032\045\244\012\263\221\077\137\066\254\213\354\127\250\076\347  
\201\212\030\127\071\205\164\032\102\307\351\133\023\137\217\371  
\010\351\222\164\215\365\107\322\253\073\326\373\170\146\116\066  
\175\371\351\222\351\004\336\375\111\143\374\155\373\024\161\223  
\147\057\107\112\267\271\377\036\052\163\160\106\060\277\132\362  
\057\171\245\341\215\014\331\371\262\143\067\214\067\145\205\160  
\152\134\133\011\162\271\255\143\074\261\335\370\374\062\277\067  
\206\344\273\216\230\047\176\272\037\026\341\160\021\362\003\337  
\045\142\062\047\046\030\062\204\237\377\000\072\023\272\232\115  
\364\117\270\024\160\042\261\312\053\220\316\051\301\160\364\057  
\235\177\362\220\036\326\132\337\267\106\374\346\206\372\313\340  
\040\166\172\272\246\313\365\174\336\142\245\261\213\356\336\202  
\146\212\116\072\060\037\077\200\313\255\047\272\014\136\327\320  
\261\126\312\167\161\262\265\165\241\120\251\100\103\027\302\050  
\331\317\122\213\133\310\143\324\102\076\240\063\172\106\056\367  
\012\040\106\124\176\152\117\061\361\201\176\102\164\070\145\163  
\047\356\306\174\270\216\327\245\072\327\230\241\234\214\020\125  
\323\333\113\354\100\220\362\315\156\127\322\142\016\174\127\223  
\261\247\155\315\235\203\273\052\347\345\266\073\161\130\255\375  
\321\105\274\132\221\356\123\025\157\323\105\011\165\156\272\220  
\135\036\004\317\067\337\036\250\146\261\214\346\040\152\357\374  
\110\116\164\230\102\257\051\157\056\152\307\373\175\321\146\061  
\042\314\206\000\176\146\203\014\102\364\275\064\222\303\032\352  
\117\312\176\162\115\013\160\214\246\110\273\246\241\024\366\373  
\130\104\231\024\256\252\013\223\151\240\051\045\112\245\313\053  
\335\212\146\007\026\170\025\127\161\033\354\365\107\204\363\236  
\061\067\172\325\177\044\255\344\274\375\375\314\156\203\350\014  
\250\267\101\154\007\335\275\074\206\227\057\322

END

CKA\_NSS\_MOZILLA\_CA\_POLICY CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRUST\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRUST\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "GDCA TrustAUTH R5 ROOT"

# Issuer: CN=GDCA TrustAUTH R5 ROOT,O="GUANG DONG CERTIFICATE AUTHORITY  
CO.,LTD.",C=CN

# Serial Number:7d:09:97:fe:f0:47:ea:7a

# Subject: CN=GDCA TrustAUTH R5 ROOT,O="GUANG DONG CERTIFICATE AUTHORITY

```

CO.,LTD.",C=CN
Not Valid Before: Wed Nov 26 05:13:15 2014
Not Valid After : Mon Dec 31 15:59:59 2040
Fingerprint (SHA-256):
BF:FF:8F:D0:44:33:48:7D:6A:8A:A6:0C:1A:29:76:7A:9F:C2:BB:B0:5E:42:0F:71:3A:13:B9:92:89:1D:38:93
Fingerprint (SHA1): 0F:36:38:5B:81:1A:25:C3:9B:31:4E:83:CA:E9:34:66:70:CC:74:B4
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GDCA TrustAUTH R5 ROOT"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\017\066\070\133\201\032\045\303\233\061\116\203\312\351\064\146
\160\314\164\264
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\143\314\331\075\064\065\134\157\123\243\342\010\160\110\037\264
END
CKA_ISSUER MULTILINE_OCTAL
\060\142\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\062\060\060\006\003\125\004\012\014\051\107\125\101\116\107\040
\104\117\116\107\040\103\105\122\124\111\106\111\103\101\124\105
\040\101\125\124\110\117\122\111\124\131\040\103\117\056\054\114
\124\104\056\061\037\060\035\006\003\125\004\003\014\026\107\104
\103\101\040\124\162\165\163\164\101\125\124\110\040\122\065\040
\122\117\117\124
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\175\011\227\376\360\107\352\172
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "TrustCor RootCert CA-1"
#
Issuer: CN=TrustCor RootCert CA-1,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de
R.L.,L=Panama City,ST=Panama,C=PA
Serial Number:00:da:9b:ec:71:f3:03:b0:19
Subject: CN=TrustCor RootCert CA-1,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de
R.L.,L=Panama City,ST=Panama,C=PA
Not Valid Before: Thu Feb 04 12:32:16 2016
Not Valid After : Mon Dec 31 17:23:16 2029
Fingerprint (SHA-256):
D4:0E:9C:86:CD:8F:E4:68:C1:77:69:59:F4:9E:A7:74:FA:54:86:84:B6:C4:06:F3:90:92:61:F4:DC:E2:57:5C
Fingerprint (SHA1): FF:BD:CD:E7:82:C8:43:5E:3C:6F:26:86:5C:CA:A8:3A:45:5B:C3:0A

```

```
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TrustCor RootCert CA-1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\244\061\013\060\011\006\003\125\004\006\023\002\120\101
\061\017\060\015\006\003\125\004\010\014\006\120\141\156\141\155
\141\061\024\060\022\006\003\125\004\007\014\013\120\141\156\141
\155\141\040\103\151\164\171\061\044\060\042\006\003\125\004\012
\014\033\124\162\165\163\164\103\157\162\040\123\171\163\164\145
\155\163\040\123\056\040\144\145\040\122\056\114\056\061\047\060
\045\006\003\125\004\013\014\036\124\162\165\163\164\103\157\162
\040\103\145\162\164\151\146\151\143\141\164\145\040\101\165\164
\150\157\162\151\164\171\061\037\060\035\006\003\125\004\003\014
\026\124\162\165\163\164\103\157\162\040\122\157\157\164\103\145
\162\164\040\103\101\055\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\244\061\013\060\011\006\003\125\004\006\023\002\120\101
\061\017\060\015\006\003\125\004\010\014\006\120\141\156\141\155
\141\061\024\060\022\006\003\125\004\007\014\013\120\141\156\141
\155\141\040\103\151\164\171\061\044\060\042\006\003\125\004\012
\014\033\124\162\165\163\164\103\157\162\040\123\171\163\164\145
\155\163\040\123\056\040\144\145\040\122\056\114\056\061\047\060
\045\006\003\125\004\013\014\036\124\162\165\163\164\103\157\162
\040\103\145\162\164\151\146\151\143\141\164\145\040\101\165\164
\150\157\162\151\164\171\061\037\060\035\006\003\125\004\003\014
\026\124\162\165\163\164\103\157\162\040\122\157\157\164\103\145
\162\164\040\103\101\055\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\011\000\332\233\354\161\363\003\260\031
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\060\060\202\003\030\240\003\002\001\002\002\011\000
\332\233\354\161\363\003\260\031\060\015\006\011\052\206\110\206
\367\015\001\001\013\005\000\060\201\244\061\013\060\011\006\003
\125\004\006\023\002\120\101\061\017\060\015\006\003\125\004\010
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\221\357\221\213\267\334\355\146\242\317\216\146\073\274\237\072  
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\065\234\220\137\210\067\006\255\131\225\012\260\321\147\323\031
\312\211\347\062\132\066\034\076\202\250\132\223\276\306\320\144
\221\266\317\331\266\030\317\333\176\322\145\243\246\304\216\027
\061\301\373\176\166\333\323\205\343\130\262\167\172\166\073\154
\057\120\034\347\333\366\147\171\037\365\202\225\232\007\247\024
\257\217\334\050\041\147\011\322\326\115\132\034\031\034\216\167
\134\303\224\044\075\062\153\113\176\324\170\224\203\276\067\115
\316\137\307\036\116\074\340\211\063\225\013\017\245\062\326\074
\132\171\054\031
```

END

```
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRICT_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRICT_AFTER CK_BBOOL CK_FALSE
```

```
Trust for "TrustCor RootCert CA-1"
```

```
Issuer: CN=TrustCor RootCert CA-1,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de
R.L.,L=Panama City,ST=Panama,C=PA
```

```
Serial Number:00:da:9b:ec:71:f3:03:b0:19
```

```
Subject: CN=TrustCor RootCert CA-1,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de
R.L.,L=Panama City,ST=Panama,C=PA
```

```
Not Valid Before: Thu Feb 04 12:32:16 2016
```

```
Not Valid After : Mon Dec 31 17:23:16 2029
```

```
Fingerprint (SHA-256):
```

```
D4:0E:9C:86:CD:8F:E4:68:C1:77:69:59:F4:9E:A7:74:FA:54:86:84:B6:C4:06:F3:90:92:61:F4:DC:E2:57:5C
```

```
Fingerprint (SHA1): FF:BD:CD:E7:82:C8:43:5E:3C:6F:26:86:5C:CA:A8:3A:45:5B:C3:0A
```

```
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
```

```
CKA_TOKEN CK_BBOOL CK_TRUE
```

```
CKA_PRIVATE CK_BBOOL CK_FALSE
```

```
CKA_MODIFIABLE CK_BBOOL CK_FALSE
```

```
CKA_LABEL UTF8 "TrustCor RootCert CA-1"
```

```
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
```

```
\377\275\315\347\202\310\103\136\074\157\046\206\134\312\250\072
\105\133\303\012
```

END

```
CKA_CERT_MD5_HASH MULTILINE_OCTAL
```

```
\156\205\361\334\032\000\323\042\325\262\262\254\153\067\005\105
END
```

```
CKA_ISSUER MULTILINE_OCTAL
```

```
\060\201\244\061\013\060\011\006\003\125\004\006\023\002\120\101
\061\017\060\015\006\003\125\004\010\014\006\120\141\156\141\155
\141\061\024\060\022\006\003\125\004\007\014\013\120\141\156\141
\155\141\040\103\151\164\171\061\044\060\042\006\003\125\004\012
\014\033\124\162\165\163\164\103\157\162\040\123\171\163\164\145
\155\163\040\123\056\040\144\145\040\122\056\114\056\061\047\060
\045\006\003\125\004\013\014\036\124\162\165\163\164\103\157\162
\040\103\145\162\164\151\146\151\143\141\164\145\040\101\165\164
\150\157\162\151\164\171\061\037\060\035\006\003\125\004\003\014
\026\124\162\165\163\164\103\157\162\040\122\157\157\164\103\145
```

```

\162\164\040\103\101\055\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\011\000\332\233\354\161\363\003\260\031
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "TrustCor RootCert CA-2"
#
Issuer: CN=TrustCor RootCert CA-2,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de
R.L.,L=Panama City,ST=Panama,C=PA
Serial Number:25:a1:df:ca:33:cb:59:02
Subject: CN=TrustCor RootCert CA-2,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de
R.L.,L=Panama City,ST=Panama,C=PA
Not Valid Before: Thu Feb 04 12:32:23 2016
Not Valid After : Sun Dec 31 17:26:39 2034
Fingerprint (SHA-256):
07:53:E9:40:37:8C:1B:D5:E3:83:6E:39:5D:AE:A5:CB:83:9E:50:46:F1:BD:0E:AE:19:51:CF:10:FE:C7:C9:65
Fingerprint (SHA1): B8:BE:6D:CB:56:F1:55:B9:63:D4:12:CA:4E:06:34:C7:94:B2:1C:C0
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TrustCor RootCert CA-2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\244\061\013\060\011\006\003\125\004\006\023\002\120\101
\061\017\060\015\006\003\125\004\010\014\006\120\141\156\141\155
\141\061\024\060\022\006\003\125\004\007\014\013\120\141\156\141
\155\141\040\103\151\164\171\061\044\060\042\006\003\125\004\012
\014\033\124\162\165\163\164\103\157\162\040\123\171\163\164\145
\155\163\040\123\056\040\144\145\040\122\056\114\056\061\047\060
\045\006\003\125\004\013\014\036\124\162\165\163\164\103\157\162
\040\103\145\162\164\151\146\151\143\141\164\145\040\101\165\164
\150\157\162\151\164\171\061\037\060\035\006\003\125\004\003\014
\026\124\162\165\163\164\103\157\162\040\122\157\157\164\103\145
\162\164\040\103\101\055\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\244\061\013\060\011\006\003\125\004\006\023\002\120\101
\061\017\060\015\006\003\125\004\010\014\006\120\141\156\141\155
\141\061\024\060\022\006\003\125\004\007\014\013\120\141\156\141
\155\141\040\103\151\164\171\061\044\060\042\006\003\125\004\012

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\014\033\124\162\165\163\164\103\157\162\040\123\171\163\164\145  
\155\163\040\123\056\040\144\145\040\122\056\114\056\061\047\060  
\045\006\003\125\004\013\014\036\124\162\165\163\164\103\157\162  
\040\103\145\162\164\151\146\151\143\141\164\145\040\101\165\164  
\150\157\162\151\164\171\061\037\060\035\006\003\125\004\003\014  
\026\124\162\165\163\164\103\157\162\040\122\157\157\164\103\145  
\162\164\040\103\101\055\062

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

\002\010\045\241\337\312\063\313\131\002

END

CKA\_VALUE MULTILINE\_OCTAL

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\241\337\312\063\313\131\002\060\015\006\011\052\206\110\206\367  
\015\001\001\013\005\000\060\201\244\061\013\060\011\006\003\125  
\004\006\023\002\120\101\061\017\060\015\006\003\125\004\010\014  
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\014\013\120\141\156\141\155\141\040\103\151\164\171\061\044\060  
\042\006\003\125\004\012\014\033\124\162\165\163\164\103\157\162  
\040\123\171\163\164\145\155\163\040\123\056\040\144\145\040\122  
\056\114\056\061\047\060\045\006\003\125\004\013\014\036\124\162  
\165\163\164\103\157\162\040\103\145\162\164\151\146\151\143\141  
\164\145\040\101\165\164\150\157\162\151\164\171\061\037\060\035  
\006\003\125\004\003\014\026\124\162\165\163\164\103\157\162\040  
\122\157\157\164\103\145\162\164\040\103\101\055\062\060\036\027  
\015\061\066\060\062\060\064\061\062\063\062\062\063\132\027\015  
\063\064\061\062\063\061\061\067\062\066\063\071\132\060\201\244  
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\015\006\003\125\004\010\014\006\120\141\156\141\155\141\061\024  
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\151\164\171\061\037\060\035\006\003\125\004\003\014\026\124\162  
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\144\106\364\124\251\334\072\124\055\061\053\231\202\362\331\052  
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\067\246\267\274\272\204\351\036\154\032\324\144\332\324\103\376
\223\213\113\362\054\171\026\020\324\223\013\210\217\241\330\206
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\005\016\131\335\231\010\056\056\372\234\000\122\323\305\146\051
\344\247\227\104\244\016\050\201\023\065\305\366\157\144\346\101
\304\325\057\314\064\105\045\317\101\000\226\075\112\056\302\226
\230\117\116\112\234\227\267\333\037\222\062\310\377\017\121\156
\326\354\011
```

END

```
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRICT_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRICT_AFTER CK_BBOOL CK_FALSE
```

```
Trust for "TrustCor RootCert CA-2"
```

```
Issuer: CN=TrustCor RootCert CA-2,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de
R.L.,L=Panama City,ST=Panama,C=PA
```

```
Serial Number:25:a1:df:ca:33:cb:59:02
```

```
Subject: CN=TrustCor RootCert CA-2,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de
R.L.,L=Panama City,ST=Panama,C=PA
```

```
Not Valid Before: Thu Feb 04 12:32:23 2016
```

```
Not Valid After : Sun Dec 31 17:26:39 2034
```

```
Fingerprint (SHA-256):
```

```
07:53:E9:40:37:8C:1B:D5:E3:83:6E:39:5D:AE:A5:CB:83:9E:50:46:F1:BD:0E:AE:19:51:CF:10:FE:C7:C9:65
```

```
Fingerprint (SHA1): B8:BE:6D:CB:56:F1:55:B9:63:D4:12:CA:4E:06:34:C7:94:B2:1C:C0
```

```
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
```

```
CKA_TOKEN CK_BBOOL CK_TRUE
```

```
CKA_PRIVATE CK_BBOOL CK_FALSE
```

```
CKA_MODIFIABLE CK_BBOOL CK_FALSE
```

```
CKA_LABEL UTF8 "TrustCor RootCert CA-2"
```

```
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
```

```
\270\276\155\313\126\361\125\271\143\324\022\312\116\006\064\307
\224\262\034\300
```

END

```
CKA_CERT_MD5_HASH MULTILINE_OCTAL
```

```
\242\341\370\030\013\272\105\325\307\101\052\273\067\122\105\144
```

END

```
CKA_ISSUER MULTILINE_OCTAL
```

```
\060\201\244\061\013\060\011\006\003\125\004\006\023\002\120\101
\061\017\060\015\006\003\125\004\010\014\006\120\141\156\141\155
\141\061\024\060\022\006\003\125\004\007\014\013\120\141\156\141
```

\155\141\040\103\151\164\171\061\044\060\042\006\003\125\004\012  
\014\033\124\162\165\163\164\103\157\162\040\123\171\163\164\145  
\155\163\040\123\056\040\144\145\040\122\056\114\056\061\047\060  
\045\006\003\125\004\013\014\036\124\162\165\163\164\103\157\162  
\040\103\145\162\164\151\146\151\143\141\164\145\040\101\165\164  
\150\157\162\151\164\171\061\037\060\035\006\003\125\004\003\014  
\026\124\162\165\163\164\103\157\162\040\122\157\157\164\103\145  
\162\164\040\103\101\055\062

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

\002\010\045\241\337\312\063\313\131\002

END

CKA\_TRUST\_SERVER\_AUTH CK\_TRUST CKT\_NSS\_TRUSTED\_DELEGATOR

CKA\_TRUST\_EMAIL\_PROTECTION CK\_TRUST CKT\_NSS\_TRUSTED\_DELEGATOR

CKA\_TRUST\_CODE\_SIGNING CK\_TRUST CKT\_NSS\_MUST\_VERIFY\_TRUST

CKA\_TRUST\_STEP\_UP\_APPROVED CK\_BBOOL CK\_FALSE

#

# Certificate "TrustCor ECA-1"

#

# Issuer: CN=TrustCor ECA-1,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de R.L.,L=Panama  
City,ST=Panama,C=PA

# Serial Number:00:84:82:2c:5f:1c:62:d0:40

# Subject: CN=TrustCor ECA-1,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de R.L.,L=Panama  
City,ST=Panama,C=PA

# Not Valid Before: Thu Feb 04 12:32:33 2016

# Not Valid After : Mon Dec 31 17:28:07 2029

# Fingerprint (SHA-256):

5A:88:5D:B1:9C:01:D9:12:C5:75:93:88:93:8C:AF:BB:DF:03:1A:B2:D4:8E:91:EE:15:58:9B:42:97:1D:03:9C

# Fingerprint (SHA1): 58:D1:DF:95:95:67:6B:63:C0:F0:5B:1C:17:4D:8B:84:0B:C8:78:BD

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_CERTIFICATE

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "TrustCor ECA-1"

CKA\_CERTIFICATE\_TYPE CK\_CERTIFICATE\_TYPE CKC\_X\_509

CKA\_SUBJECT MULTILINE\_OCTAL

\060\201\234\061\013\060\011\006\003\125\004\006\023\002\120\101  
\061\017\060\015\006\003\125\004\010\014\006\120\141\156\141\155  
\141\061\024\060\022\006\003\125\004\007\014\013\120\141\156\141  
\155\141\040\103\151\164\171\061\044\060\042\006\003\125\004\012  
\014\033\124\162\165\163\164\103\157\162\040\123\171\163\164\145  
\155\163\040\123\056\040\144\145\040\122\056\114\056\061\047\060  
\045\006\003\125\004\013\014\036\124\162\165\163\164\103\157\162  
\040\103\145\162\164\151\146\151\143\141\164\145\040\101\165\164  
\150\157\162\151\164\171\061\027\060\025\006\003\125\004\003\014  
\016\124\162\165\163\164\103\157\162\040\105\103\101\055\061

END

CKA\_ID UTF8 "0"

CKA\_ISSUER MULTILINE\_OCTAL

\060\201\234\061\013\060\011\006\003\125\004\006\023\002\120\101  
\061\017\060\015\006\003\125\004\010\014\006\120\141\156\141\155  
\141\061\024\060\022\006\003\125\004\007\014\013\120\141\156\141  
\155\141\040\103\151\164\171\061\044\060\042\006\003\125\004\012  
\014\033\124\162\165\163\164\103\157\162\040\123\171\163\164\145  
\155\163\040\123\056\040\144\145\040\122\056\114\056\061\047\060  
\045\006\003\125\004\013\014\036\124\162\165\163\164\103\157\162  
\040\103\145\162\164\151\146\151\143\141\164\145\040\101\165\164  
\150\157\162\151\164\171\061\027\060\025\006\003\125\004\003\014  
\016\124\162\165\163\164\103\157\162\040\105\103\101\055\061

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

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

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\004\040\060\202\003\010\240\003\002\001\002\002\011\000  
\204\202\054\137\034\142\320\100\060\015\006\011\052\206\110\206  
\367\015\001\001\013\005\000\060\201\234\061\013\060\011\006\003  
\125\004\006\023\002\120\101\061\017\060\015\006\003\125\004\010  
\014\006\120\141\156\141\155\141\061\024\060\022\006\003\125\004  
\007\014\013\120\141\156\141\155\141\040\103\151\164\171\061\044  
\060\042\006\003\125\004\012\014\033\124\162\165\163\164\103\157  
\162\040\123\171\163\164\145\155\163\040\123\056\040\144\145\040  
\122\056\114\056\061\047\060\045\006\003\125\004\013\014\036\124  
\162\165\163\164\103\157\162\040\103\145\162\164\151\146\151\143  
\141\164\145\040\101\165\164\150\157\162\151\164\171\061\027\060  
\025\006\003\125\004\003\014\016\124\162\165\163\164\103\157\162  
\040\105\103\101\055\061\060\036\027\015\061\066\060\062\060\064  
\061\062\063\062\063\063\132\027\015\062\071\061\062\063\061\061  
\067\062\070\060\067\132\060\201\234\061\013\060\011\006\003\125  
\004\006\023\002\120\101\061\017\060\015\006\003\125\004\010\014  
\006\120\141\156\141\155\141\061\024\060\022\006\003\125\004\007  
\014\013\120\141\156\141\155\141\040\103\151\164\171\061\044\060  
\042\006\003\125\004\012\014\033\124\162\165\163\164\103\157\162  
\040\123\171\163\164\145\155\163\040\123\056\040\144\145\040\122  
\056\114\056\061\047\060\045\006\003\125\004\013\014\036\124\162  
\165\163\164\103\157\162\040\103\145\162\164\151\146\151\143\141  
\164\145\040\101\165\164\150\157\162\151\164\171\061\027\060\025  
\006\003\125\004\003\014\016\124\162\165\163\164\103\157\162\040  
\105\103\101\055\061\060\202\001\042\060\015\006\011\052\206\110  
\206\367\015\001\001\001\005\000\003\202\001\017\000\060\202\001  
\012\002\202\001\001\000\317\217\340\021\265\237\250\166\166\333  
\337\017\124\357\163\143\051\202\255\107\306\243\153\355\376\137  
\063\370\103\121\351\032\063\221\061\027\240\164\304\324\247\001  
\346\262\222\076\152\235\355\016\371\164\230\100\323\077\003\200  
\006\202\100\350\261\342\247\121\247\035\203\046\153\253\336\372

\027\221\053\330\306\254\036\261\236\031\001\325\227\246\352\015  
\267\304\125\037\047\174\322\010\325\166\037\051\025\207\100\071  
\335\070\105\021\165\320\232\247\064\340\277\315\310\122\035\271  
\107\176\015\270\273\306\014\366\163\127\026\132\176\103\221\037  
\125\072\306\155\104\004\252\234\251\234\247\114\211\027\203\256  
\243\004\136\122\200\213\036\022\045\021\031\327\014\175\175\061  
\104\101\352\333\257\260\034\357\201\320\054\305\232\041\233\075  
\355\102\073\120\046\362\354\316\161\141\006\142\041\124\116\177  
\301\235\076\177\040\214\200\313\052\330\227\142\310\203\063\221  
\175\260\242\132\017\127\350\073\314\362\045\262\324\174\057\354  
\115\306\241\072\025\172\347\266\135\065\365\366\110\112\066\105  
\146\324\272\230\130\301\002\003\001\000\001\243\143\060\141\060  
\035\006\003\125\035\016\004\026\004\024\104\236\110\365\314\155  
\110\324\240\113\177\376\131\044\057\203\227\231\232\206\060\037  
\006\003\125\035\043\004\030\060\026\200\024\104\236\110\365\314  
\155\110\324\240\113\177\376\131\044\057\203\227\231\232\206\060  
\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001\377  
\060\016\006\003\125\035\017\001\001\377\004\004\003\002\001\206  
\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\003  
\202\001\001\000\005\076\065\134\025\160\233\311\307\163\141\157  
\162\053\324\302\217\362\103\135\002\316\304\224\271\224\021\203  
\147\135\342\147\154\165\166\277\273\014\252\066\306\255\107\223  
\143\334\036\176\326\336\056\376\351\031\062\070\003\177\024\366  
\000\163\054\131\261\041\006\341\373\254\030\225\014\243\377\231  
\226\367\053\047\233\325\044\314\035\335\301\072\340\230\104\260  
\304\344\076\167\261\163\251\144\054\366\034\001\174\077\135\105  
\205\300\205\347\045\217\225\334\027\363\074\237\032\156\260\312  
\343\035\052\351\114\143\372\044\141\142\326\332\176\266\034\154  
\365\002\035\324\052\335\125\220\353\052\021\107\074\056\136\164  
\262\202\042\245\175\123\037\105\354\047\221\175\347\042\026\350  
\300\150\066\330\306\361\117\200\104\062\371\341\321\321\035\252  
\336\250\253\234\004\257\255\040\016\144\230\115\245\153\300\110  
\130\226\151\115\334\007\214\121\223\242\337\237\017\075\213\140  
\264\202\215\252\010\116\142\105\340\371\013\322\340\340\074\133  
\336\134\161\047\045\302\346\003\201\213\020\123\343\307\125\242  
\264\237\327\346

END

CKA\_NSS\_MOZILLA\_CA\_POLICY CK\_BBOOL CK\_TRUE  
CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE  
CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "TrustCor ECA-1"

# Issuer: CN=TrustCor ECA-1,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de R.L.,L=Panama  
City,ST=Panama,C=PA

# Serial Number:00:84:82:2c:5f:1c:62:d0:40

# Subject: CN=TrustCor ECA-1,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de R.L.,L=Panama  
City,ST=Panama,C=PA

# Not Valid Before: Thu Feb 04 12:32:33 2016

```
Not Valid After : Mon Dec 31 17:28:07 2029
Fingerprint (SHA-256):
5A:88:5D:B1:9C:01:D9:12:C5:75:93:88:93:8C:AF:BB:DF:03:1A:B2:D4:8E:91:EE:15:58:9B:42:97:1D:03:9C
Fingerprint (SHA1): 58:D1:DF:95:95:67:6B:63:C0:F0:5B:1C:17:4D:8B:84:0B:C8:78:BD
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TrustCor ECA-1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\130\321\337\225\225\147\153\143\300\360\133\034\027\115\213\204
\013\310\170\275
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\047\222\043\035\012\365\100\174\351\346\153\235\330\365\347\154
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\234\061\013\060\011\006\003\125\004\006\023\002\120\101
\061\017\060\015\006\003\125\004\010\014\006\120\141\156\141\155
\141\061\024\060\022\006\003\125\004\007\014\013\120\141\156\141
\155\141\040\103\151\164\171\061\044\060\042\006\003\125\004\012
\014\033\124\162\165\163\164\103\157\162\040\123\171\163\164\145
\155\163\040\123\056\040\144\145\040\122\056\114\056\061\047\060
\045\006\003\125\004\013\014\036\124\162\165\163\164\103\157\162
\040\103\145\162\164\151\146\151\143\141\164\145\040\101\165\164
\150\157\162\151\164\171\061\027\060\025\006\003\125\004\003\014
\016\124\162\165\163\164\103\157\162\040\105\103\101\055\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\011\000\204\202\054\137\034\142\320\100
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "SSL.com Root Certification Authority RSA"
#
Issuer: CN=SSL.com Root Certification Authority RSA,O=SSL Corporation,L=Houston,ST=Texas,C=US
Serial Number:7b:2c:9b:d3:16:80:32:99
Subject: CN=SSL.com Root Certification Authority RSA,O=SSL Corporation,L=Houston,ST=Texas,C=US
Not Valid Before: Fri Feb 12 17:39:39 2016
Not Valid After : Tue Feb 12 17:39:39 2041
Fingerprint (SHA-256):
85:66:6A:56:2E:E0:BE:5C:E9:25:C1:D8:89:0A:6F:76:A8:7E:C1:6D:4D:7D:5F:29:EA:74:19:CF:20:12:3B:69
Fingerprint (SHA1): B7:AB:33:08:D1:EA:44:77:BA:14:80:12:5A:6F:BD:A9:36:49:0C:BB
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
```

```
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SSL.com Root Certification Authority RSA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\174\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\016\060\014\006\003\125\004\010\014\005\124\145\170\141\163\061
\020\060\016\006\003\125\004\007\014\007\110\157\165\163\164\157
\156\061\030\060\026\006\003\125\004\012\014\017\123\123\114\040
\103\157\162\160\157\162\141\164\151\157\156\061\061\060\057\006
\003\125\004\003\014\050\123\123\114\056\143\157\155\040\122\157
\157\164\040\103\145\162\164\151\146\151\143\141\164\151\157\156
\040\101\165\164\150\157\162\151\164\171\040\122\123\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\174\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\016\060\014\006\003\125\004\010\014\005\124\145\170\141\163\061
\020\060\016\006\003\125\004\007\014\007\110\157\165\163\164\157
\156\061\030\060\026\006\003\125\004\012\014\017\123\123\114\040
\103\157\162\160\157\162\141\164\151\157\156\061\061\060\057\006
\003\125\004\003\014\050\123\123\114\056\143\157\155\040\122\157
\157\164\040\103\145\162\164\151\146\151\143\141\164\151\157\156
\040\101\165\164\150\157\162\151\164\171\040\122\123\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\173\054\233\323\026\200\062\231
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\335\060\202\003\305\240\003\002\001\002\002\010\173
\054\233\323\026\200\062\231\060\015\006\011\052\206\110\206\367
\015\001\001\013\005\000\060\174\061\013\060\011\006\003\125\004
\006\023\002\125\123\061\016\060\014\006\003\125\004\010\014\005
\124\145\170\141\163\061\020\060\016\006\003\125\004\007\014\007
\110\157\165\163\164\157\156\061\030\060\026\006\003\125\004\012
\014\017\123\123\114\040\103\157\162\160\157\162\141\164\151\157
\156\061\061\060\057\006\003\125\004\003\014\050\123\123\114\056
\143\157\155\040\122\157\157\164\040\103\145\162\164\151\146\151
\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171
\040\122\123\101\060\036\027\015\061\066\060\062\061\062\061\067
\063\071\063\071\132\027\015\064\061\060\062\061\062\061\067\063
\071\063\071\132\060\174\061\013\060\011\006\003\125\004\006\023
\002\125\123\061\016\060\014\006\003\125\004\010\014\005\124\145
\170\141\163\061\020\060\016\006\003\125\004\007\014\007\110\157
\165\163\164\157\156\061\030\060\026\006\003\125\004\012\014\017
\123\123\114\040\103\157\162\160\157\162\141\164\151\157\156\061
\061\060\057\006\003\125\004\003\014\050\123\123\114\056\143\157
```

\155\040\122\157\157\164\040\103\145\162\164\151\146\151\143\141  
\164\151\157\156\040\101\165\164\150\157\162\151\164\171\040\122  
\123\101\060\202\002\042\060\015\006\011\052\206\110\206\367\015  
\001\001\001\005\000\003\202\002\017\000\060\202\002\012\002\202  
\002\001\000\371\017\335\243\053\175\313\320\052\376\354\147\205  
\246\347\056\033\272\167\341\343\365\257\244\354\372\112\135\221  
\304\127\107\153\030\167\153\166\362\375\223\344\075\017\302\026  
\236\013\146\303\126\224\236\027\203\205\316\126\357\362\026\375  
\000\142\365\042\011\124\350\145\027\116\101\271\340\117\106\227  
\252\033\310\270\156\142\136\151\261\137\333\052\002\176\374\154  
\312\363\101\330\355\320\350\374\077\141\110\355\260\003\024\035  
\020\016\113\031\340\273\116\354\206\145\377\066\363\136\147\002  
\013\235\206\125\141\375\172\070\355\376\342\031\000\267\157\241  
\120\142\165\164\074\240\372\310\045\222\264\156\172\042\307\370  
\036\241\343\262\335\221\061\253\053\035\004\377\245\112\004\067  
\351\205\244\063\053\375\342\326\125\064\174\031\244\112\150\307  
\262\250\323\267\312\241\223\210\353\301\227\274\214\371\035\331  
\042\204\044\164\307\004\075\152\251\051\223\314\353\270\133\341  
\376\137\045\252\064\130\310\301\043\124\235\033\230\021\303\070  
\234\176\075\206\154\245\017\100\206\174\002\364\134\002\117\050  
\313\256\161\237\017\072\310\063\376\021\045\065\352\374\272\305  
\140\075\331\174\030\325\262\251\323\165\170\003\162\042\312\072  
\303\037\357\054\345\056\251\372\236\054\266\121\106\375\257\003  
\326\352\140\150\352\205\026\066\153\205\351\036\300\263\335\304  
\044\334\200\052\201\101\155\224\076\310\340\311\201\101\000\236  
\136\277\177\305\010\230\242\030\054\102\100\263\371\157\070\047  
\113\116\200\364\075\201\107\340\210\174\352\034\316\265\165\134  
\121\056\034\053\177\032\162\050\347\000\265\321\164\306\327\344  
\237\255\007\223\266\123\065\065\374\067\344\303\366\135\026\276  
\041\163\336\222\012\370\240\143\152\274\226\222\152\076\370\274  
\145\125\233\336\365\015\211\046\004\374\045\032\246\045\151\313  
\302\155\312\174\342\131\137\227\254\353\357\056\310\274\327\033  
\131\074\053\314\362\031\310\223\153\047\143\031\317\374\351\046  
\370\312\161\233\177\223\376\064\147\204\116\231\353\374\263\170  
\011\063\160\272\146\246\166\355\033\163\353\032\245\015\304\042  
\023\040\224\126\012\116\054\154\116\261\375\317\234\011\272\242  
\063\355\207\002\003\001\000\001\243\143\060\141\060\035\006\003  
\125\035\016\004\026\004\024\335\004\011\007\242\365\172\175\122  
\123\022\222\225\356\070\200\045\015\246\131\060\017\006\003\125  
\035\023\001\001\377\004\005\060\003\001\001\377\060\037\006\003  
\125\035\043\004\030\060\026\200\024\335\004\011\007\242\365\172  
\175\122\123\022\222\225\356\070\200\045\015\246\131\060\016\006  
\003\125\035\017\001\001\377\004\004\003\002\001\206\060\015\006  
\011\052\206\110\206\367\015\001\001\013\005\000\003\202\002\001  
\000\040\030\021\224\051\373\046\235\034\036\036\160\141\361\225  
\162\223\161\044\255\150\223\130\216\062\257\033\263\160\003\374  
\045\053\164\205\220\075\170\152\364\271\213\245\227\073\265\030  
\221\273\036\247\371\100\133\221\371\125\231\257\036\021\320\134



\035\247\146\343\261\224\007\014\062\071\246\352\033\260\171\330  
\035\234\160\104\343\212\335\304\371\225\037\212\070\103\077\001  
\205\245\107\247\075\106\262\274\345\042\150\367\173\234\330\054  
\076\012\041\310\055\063\254\277\305\201\231\061\164\301\165\161  
\305\276\261\360\043\105\364\235\153\374\031\143\235\243\274\004  
\306\030\013\045\273\123\211\017\263\200\120\336\105\356\104\177  
\253\224\170\144\230\323\366\050\335\207\330\160\145\164\373\016  
\271\023\353\247\017\141\251\062\226\314\336\273\355\143\114\030  
\273\251\100\367\240\124\156\040\210\161\165\030\352\172\264\064  
\162\340\043\047\167\134\266\220\352\206\045\100\253\357\063\017  
\313\237\202\276\242\040\373\366\265\055\032\346\302\205\261\164  
\017\373\310\145\002\244\122\001\107\335\111\042\301\277\330\353  
\153\254\176\336\354\143\063\025\267\043\010\217\306\017\215\101  
\132\335\216\305\271\217\345\105\077\170\333\272\322\033\100\261  
\376\161\115\077\340\201\242\272\136\264\354\025\340\223\335\010  
\037\176\341\125\231\013\041\336\223\236\012\373\346\243\111\275  
\066\060\376\347\167\262\240\165\227\265\055\201\210\027\145\040  
\367\332\220\000\237\311\122\314\062\312\065\174\365\075\017\330  
\053\327\365\046\154\311\006\064\226\026\352\160\131\032\062\171  
\171\013\266\210\177\017\122\110\075\277\154\330\242\104\056\321  
\116\267\162\130\323\211\023\225\376\104\253\370\327\213\033\156  
\234\274\054\240\133\325\152\000\257\137\067\341\325\372\020\013  
\230\234\206\347\046\217\316\360\354\156\212\127\013\200\343\116  
\262\300\240\143\141\220\272\125\150\067\164\152\266\222\333\237  
\241\206\042\266\145\047\016\354\266\237\102\140\344\147\302\265  
\332\101\013\304\323\213\141\033\274\372\037\221\053\327\104\007  
\136\272\051\254\331\305\351\357\123\110\132\353\200\361\050\130  
\041\315\260\006\125\373\047\077\123\220\160\251\004\036\127\047  
\271

END

CKA\_NSS\_MOZILLA\_CA\_POLICY CK\_BBOOL CK\_TRUE  
CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE  
CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "SSL.com Root Certification Authority RSA"

# Issuer: CN=SSL.com Root Certification Authority RSA,O=SSL Corporation,L=Houston,ST=Texas,C=US

# Serial Number:7b:2c:9b:d3:16:80:32:99

# Subject: CN=SSL.com Root Certification Authority RSA,O=SSL Corporation,L=Houston,ST=Texas,C=US

# Not Valid Before: Fri Feb 12 17:39:39 2016

# Not Valid After : Tue Feb 12 17:39:39 2041

# Fingerprint (SHA-256):

85:66:6A:56:2E:E0:BE:5C:E9:25:C1:D8:89:0A:6F:76:A8:7E:C1:6D:4D:7D:5F:29:EA:74:19:CF:20:12:3B:69

# Fingerprint (SHA1): B7:AB:33:08:D1:EA:44:77:BA:14:80:12:5A:6F:BD:A9:36:49:0C:BB

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "SSL.com Root Certification Authority RSA"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL  
\\267\\253\\063\\010\\321\\352\\104\\167\\272\\024\\200\\022\\132\\157\\275\\251  
\\066\\111\\014\\273

END

CKA\_CERT\_MD5\_HASH MULTILINE\_OCTAL  
\\206\\151\\022\\300\\160\\361\\354\\254\\254\\302\\325\\274\\245\\133\\241\\051

END

CKA\_ISSUER MULTILINE\_OCTAL  
\\060\\174\\061\\013\\060\\011\\006\\003\\125\\004\\006\\023\\002\\125\\123\\061  
\\016\\060\\014\\006\\003\\125\\004\\010\\014\\005\\124\\145\\170\\141\\163\\061  
\\020\\060\\016\\006\\003\\125\\004\\007\\014\\007\\110\\157\\165\\163\\164\\157  
\\156\\061\\030\\060\\026\\006\\003\\125\\004\\012\\014\\017\\123\\123\\114\\040  
\\103\\157\\162\\160\\157\\162\\141\\164\\151\\157\\156\\061\\061\\060\\057\\006  
\\003\\125\\004\\003\\014\\050\\123\\123\\114\\056\\143\\157\\155\\040\\122\\157  
\\157\\164\\040\\103\\145\\162\\164\\151\\146\\151\\143\\141\\164\\151\\157\\156  
\\040\\101\\165\\164\\150\\157\\162\\151\\164\\171\\040\\122\\123\\101

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL  
\\002\\010\\173\\054\\233\\323\\026\\200\\062\\231

END

CKA\_TRUST\_SERVER\_AUTH CK\_TRUST CKT\_NSS\_TRUSTED\_DELEGATOR  
CKA\_TRUST\_EMAIL\_PROTECTION CK\_TRUST CKT\_NSS\_TRUSTED\_DELEGATOR  
CKA\_TRUST\_CODE\_SIGNING CK\_TRUST CKT\_NSS\_MUST\_VERIFY\_TRUST  
CKA\_TRUST\_STEP\_UP\_APPROVED CK\_BBOOL CK\_FALSE

#

# Certificate "SSL.com Root Certification Authority ECC"

#

# Issuer: CN=SSL.com Root Certification Authority ECC,O=SSL Corporation,L=Houston,ST=Texas,C=US

# Serial Number:75:e6:df:cb:c1:68:5b:a8

# Subject: CN=SSL.com Root Certification Authority ECC,O=SSL Corporation,L=Houston,ST=Texas,C=US

# Not Valid Before: Fri Feb 12 18:14:03 2016

# Not Valid After : Tue Feb 12 18:14:03 2041

# Fingerprint (SHA-256):

34:17:BB:06:CC:60:07:DA:1B:96:1C:92:0B:8A:B4:CE:3F:AD:82:0E:4A:A3:0B:9A:CB:C4:A7:4E:BD:CE:BC:65

# Fingerprint (SHA1): C3:19:7C:39:24:E6:54:AF:1B:C4:AB:20:95:7A:E2:C3:0E:13:02:6A

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_CERTIFICATE

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "SSL.com Root Certification Authority ECC"

CKA\_CERTIFICATE\_TYPE CK\_CERTIFICATE\_TYPE CKC\_X\_509

CKA\_SUBJECT MULTILINE\_OCTAL

\\060\\174\\061\\013\\060\\011\\006\\003\\125\\004\\006\\023\\002\\125\\123\\061  
\\016\\060\\014\\006\\003\\125\\004\\010\\014\\005\\124\\145\\170\\141\\163\\061  
\\020\\060\\016\\006\\003\\125\\004\\007\\014\\007\\110\\157\\165\\163\\164\\157  
\\156\\061\\030\\060\\026\\006\\003\\125\\004\\012\\014\\017\\123\\123\\114\\040  
\\103\\157\\162\\160\\157\\162\\141\\164\\151\\157\\156\\061\\061\\060\\057\\006

\003\125\004\003\014\050\123\123\114\056\143\157\155\040\122\157  
\157\164\040\103\145\162\164\151\146\151\143\141\164\151\157\156  
\040\101\165\164\150\157\162\151\164\171\040\105\103\103  
END  
CKA\_ID UTF8 "0"  
CKA\_ISSUER MULTILINE\_OCTAL  
\060\174\061\013\060\011\006\003\125\004\006\023\002\125\123\061  
\016\060\014\006\003\125\004\010\014\005\124\145\170\141\163\061  
\020\060\016\006\003\125\004\007\014\007\110\157\165\163\164\157  
\156\061\030\060\026\006\003\125\004\012\014\017\123\123\114\040  
\103\157\162\160\157\162\141\164\151\157\156\061\061\060\057\006  
\003\125\004\003\014\050\123\123\114\056\143\157\155\040\122\157  
\157\164\040\103\145\162\164\151\146\151\143\141\164\151\157\156  
\040\101\165\164\150\157\162\151\164\171\040\105\103\103  
END  
CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL  
\002\010\165\346\337\313\301\150\133\250  
END  
CKA\_VALUE MULTILINE\_OCTAL  
\060\202\002\215\060\202\002\024\240\003\002\001\002\002\010\165  
\346\337\313\301\150\133\250\060\012\006\010\052\206\110\316\075  
\004\003\002\060\174\061\013\060\011\006\003\125\004\006\023\002  
\125\123\061\016\060\014\006\003\125\004\010\014\005\124\145\170  
\141\163\061\020\060\016\006\003\125\004\007\014\007\110\157\165  
\163\164\157\156\061\030\060\026\006\003\125\004\012\014\017\123  
\123\114\040\103\157\162\160\157\162\141\164\151\157\156\061\061  
\060\057\006\003\125\004\003\014\050\123\123\114\056\143\157\155  
\040\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164  
\151\157\156\040\101\165\164\150\157\162\151\164\171\040\105\103  
\103\060\036\027\015\061\066\060\062\061\062\061\070\061\064\060\063  
\063\132\027\015\064\061\060\062\061\062\061\070\061\064\060\063  
\132\060\174\061\013\060\011\006\003\125\004\006\023\002\125\123  
\061\016\060\014\006\003\125\004\010\014\005\124\145\170\141\163  
\061\020\060\016\006\003\125\004\007\014\007\110\157\165\163\164  
\157\156\061\030\060\026\006\003\125\004\012\014\017\123\123\114  
\040\103\157\162\160\157\162\141\164\151\157\156\061\061\060\057  
\006\003\125\004\003\014\050\123\123\114\056\143\157\155\040\122  
\157\157\164\040\103\145\162\164\151\146\151\143\141\164\151\157  
\156\040\101\165\164\150\157\162\151\164\171\040\105\103\103\060  
\166\060\020\006\007\052\206\110\316\075\002\001\006\005\053\201  
\004\000\042\003\142\000\004\105\156\251\120\304\246\043\066\236  
\137\050\215\027\313\226\042\144\077\334\172\216\035\314\010\263  
\242\161\044\272\216\111\271\004\033\107\226\130\253\055\225\310  
\355\236\010\065\310\047\353\211\214\123\130\353\142\212\376\360  
\133\017\153\061\122\143\101\073\211\315\354\354\266\215\031\323  
\064\007\334\273\306\006\177\302\105\225\354\313\177\250\043\340  
\011\351\201\372\363\107\323\243\143\060\141\060\035\006\003\125  
\035\016\004\026\004\024\202\321\205\163\060\347\065\004\323\216

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\002\222\373\345\244\321\304\041\350\315\060\017\006\003\125\035
\023\001\001\377\004\005\060\003\001\001\377\060\037\006\003\125
\035\043\004\030\060\026\200\024\202\321\205\163\060\347\065\004
\323\216\002\222\373\345\244\321\304\041\350\315\060\016\006\003
\125\035\017\001\001\377\004\004\003\002\001\206\060\012\006\010
\052\206\110\316\075\004\003\002\003\147\000\060\144\002\060\157
\347\353\131\021\244\140\317\141\260\226\173\355\005\371\057\023
\221\334\355\345\374\120\153\021\106\106\263\034\041\000\142\273
\276\303\347\350\315\007\231\371\015\013\135\162\076\304\252\002
\060\037\274\272\013\342\060\044\373\174\155\200\125\012\231\076
\200\015\063\345\146\243\263\243\273\245\325\213\217\011\054\246
\135\176\342\360\007\010\150\155\322\174\151\156\137\337\345\152
\145
```

END

CKA\_NSS\_MOZILLA\_CA\_POLICY CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "SSL.com Root Certification Authority ECC"

# Issuer: CN=SSL.com Root Certification Authority ECC,O=SSL Corporation,L=Houston,ST=Texas,C=US

# Serial Number:75:e6:df:cb:c1:68:5b:a8

# Subject: CN=SSL.com Root Certification Authority ECC,O=SSL Corporation,L=Houston,ST=Texas,C=US

# Not Valid Before: Fri Feb 12 18:14:03 2016

# Not Valid After : Tue Feb 12 18:14:03 2041

# Fingerprint (SHA-256):

34:17:BB:06:CC:60:07:DA:1B:96:1C:92:0B:8A:B4:CE:3F:AD:82:0E:4A:A3:0B:9A:CB:C4:A7:4E:BD:CE:BC:65

# Fingerprint (SHA1): C3:19:7C:39:24:E6:54:AF:1B:C4:AB:20:95:7A:E2:C3:0E:13:02:6A

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "SSL.com Root Certification Authority ECC"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

```
\303\031\174\071\044\346\124\257\033\304\253\040\225\172\342\303
\016\023\002\152
```

END

CKA\_CERT\_MD5\_HASH MULTILINE\_OCTAL

```
\056\332\344\071\177\234\217\067\321\160\237\046\027\121\072\216
```

END

CKA\_ISSUER MULTILINE\_OCTAL

```
\060\174\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\016\060\014\006\003\125\004\010\014\005\124\145\170\141\163\061
\020\060\016\006\003\125\004\007\014\007\110\157\165\163\164\157
\156\061\030\060\026\006\003\125\004\012\014\017\123\123\114\040
\103\157\162\160\157\162\141\164\151\157\156\061\061\060\057\006
\003\125\004\003\014\050\123\123\114\056\143\157\155\040\122\157
\157\164\040\103\145\162\164\151\146\151\143\141\164\151\157\156
\040\101\165\164\150\157\162\151\164\171\040\105\103\103
```

```

END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\165\346\337\313\301\150\133\250
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "SSL.com EV Root Certification Authority RSA R2"
#
Issuer: CN=SSL.com EV Root Certification Authority RSA R2,O=SSL Corporation,L=Houston,ST=Texas,C=US
Serial Number:56:b6:29:cd:34:bc:78:f6
Subject: CN=SSL.com EV Root Certification Authority RSA R2,O=SSL
Corporation,L=Houston,ST=Texas,C=US
Not Valid Before: Wed May 31 18:14:37 2017
Not Valid After : Fri May 30 18:14:37 2042
Fingerprint (SHA-256):
2E:7B:F1:6C:C2:24:85:A7:BB:E2:AA:86:96:75:07:61:B0:AE:39:BE:3B:2F:E9:D0:CC:6D:4E:F7:34:91:42:5C
Fingerprint (SHA1): 74:3A:F0:52:9B:D0:32:A0:F4:4A:83:CD:D4:BA:A9:7B:7C:2E:C4:9A
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SSL.com EV Root Certification Authority RSA R2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\202\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\016\060\014\006\003\125\004\010\014\005\124\145\170\141\163
\061\020\060\016\006\003\125\004\007\014\007\110\157\165\163\164
\157\156\061\030\060\026\006\003\125\004\012\014\017\123\123\114
\040\103\157\162\160\157\162\141\164\151\157\156\061\067\060\065
\006\003\125\004\003\014\056\123\123\114\056\143\157\155\040\105
\126\040\122\157\157\164\040\103\145\162\164\151\146\151\143\141
\164\151\157\156\040\101\165\164\150\157\162\151\164\171\040\122
\123\101\040\122\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\202\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\016\060\014\006\003\125\004\010\014\005\124\145\170\141\163
\061\020\060\016\006\003\125\004\007\014\007\110\157\165\163\164
\157\156\061\030\060\026\006\003\125\004\012\014\017\123\123\114
\040\103\157\162\160\157\162\141\164\151\157\156\061\067\060\065
\006\003\125\004\003\014\056\123\123\114\056\143\157\155\040\105
\126\040\122\157\157\164\040\103\145\162\164\151\146\151\143\141
\164\151\157\156\040\101\165\164\150\157\162\151\164\171\040\122

```

\123\101\040\122\062

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

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

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\005\353\060\202\003\323\240\003\002\001\002\002\010\126  
\266\051\315\064\274\170\366\060\015\006\011\052\206\110\206\367  
\015\001\001\013\005\000\060\201\202\061\013\060\011\006\003\125  
\004\006\023\002\125\123\061\016\060\014\006\003\125\004\010\014  
\005\124\145\170\141\163\061\020\060\016\006\003\125\004\007\014  
\007\110\157\165\163\164\157\156\061\030\060\026\006\003\125\004  
\012\014\017\123\123\114\040\103\157\162\160\157\162\141\164\151  
\157\156\061\067\060\065\006\003\125\004\003\014\056\123\123\114  
\056\143\157\155\040\105\126\040\122\157\157\164\040\103\145\162  
\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157  
\162\151\164\171\040\122\123\101\040\122\062\060\036\027\015\061  
\067\060\065\063\061\061\070\061\064\063\067\132\027\015\064\062  
\060\065\063\060\061\070\061\064\063\067\132\060\201\202\061\013  
\060\011\006\003\125\004\006\023\002\125\123\061\016\060\014\006  
\003\125\004\010\014\005\124\145\170\141\163\061\020\060\016\006  
\003\125\004\007\014\007\110\157\165\163\164\157\156\061\030\060  
\026\006\003\125\004\012\014\017\123\123\114\040\103\157\162\160  
\157\162\141\164\151\157\156\061\067\060\065\006\003\125\004\003  
\014\056\123\123\114\056\143\157\155\040\105\126\040\122\157\157  
\164\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040  
\101\165\164\150\157\162\151\164\171\040\122\123\101\040\122\062  
\060\202\002\042\060\015\006\011\052\206\110\206\367\015\001\001  
\001\005\000\003\202\002\017\000\060\202\002\012\002\202\002\001  
\000\217\066\145\100\341\326\115\300\327\264\351\106\332\153\352  
\063\107\315\114\371\175\175\276\275\055\075\360\333\170\341\206  
\245\331\272\011\127\150\355\127\076\240\320\010\101\203\347\050  
\101\044\037\343\162\025\320\001\032\373\136\160\043\262\313\237  
\071\343\317\305\116\306\222\155\046\306\173\273\263\332\047\235  
\012\206\351\201\067\005\376\360\161\161\354\303\034\351\143\242  
\027\024\235\357\033\147\323\205\125\002\002\326\111\311\314\132  
\341\261\367\157\062\237\311\324\073\210\101\250\234\275\313\253  
\333\155\173\011\037\242\114\162\220\332\053\010\374\317\074\124  
\316\147\017\250\317\135\226\031\013\304\343\162\353\255\321\175  
\035\047\357\222\353\020\277\133\353\073\257\317\200\335\301\322  
\226\004\133\172\176\244\251\074\070\166\244\142\216\240\071\136  
\352\167\317\135\000\131\217\146\054\076\007\242\243\005\046\021  
\151\227\352\205\267\017\226\013\113\310\100\341\120\272\056\212  
\313\367\017\232\042\347\177\232\067\023\315\362\115\023\153\041  
\321\300\314\042\362\241\106\366\104\151\234\312\141\065\007\000  
\157\326\141\010\021\352\272\270\366\351\263\140\345\115\271\354  
\237\024\146\311\127\130\333\315\207\151\370\212\206\022\003\107  
\277\146\023\166\254\167\175\064\044\205\203\315\327\252\234\220

\032\237\041\054\177\170\267\144\270\330\350\246\364\170\263\125  
\313\204\322\062\304\170\256\243\217\141\335\316\010\123\255\354  
\210\374\025\344\232\015\346\237\032\167\316\114\217\270\024\025  
\075\142\234\206\070\006\000\146\022\344\131\166\132\123\300\002  
\230\242\020\053\150\104\173\216\171\316\063\112\166\252\133\201  
\026\033\265\212\330\320\000\173\136\142\264\011\326\206\143\016  
\246\005\225\111\272\050\213\210\223\262\064\034\330\244\125\156  
\267\034\320\336\231\125\073\043\364\042\340\371\051\146\046\354  
\040\120\167\333\112\013\217\276\345\002\140\160\101\136\324\256  
\120\071\042\024\046\313\262\073\163\164\125\107\007\171\201\071  
\250\060\023\104\345\004\212\256\226\023\045\102\017\271\123\304  
\233\374\315\344\034\336\074\372\253\326\006\112\037\147\246\230  
\060\034\335\054\333\334\030\225\127\146\306\377\134\213\126\365  
\167\002\003\001\000\001\243\143\060\141\060\017\006\003\125\035  
\023\001\001\377\004\005\060\003\001\001\377\060\037\006\003\125  
\035\043\004\030\060\026\200\024\371\140\273\324\343\325\064\366  
\270\365\006\200\045\247\163\333\106\151\250\236\060\035\006\003  
\125\035\016\004\026\004\024\371\140\273\324\343\325\064\366\270  
\365\006\200\045\247\163\333\106\151\250\236\060\016\006\003\125  
\035\017\001\001\377\004\004\003\002\001\206\060\015\006\011\052  
\206\110\206\367\015\001\001\013\005\000\003\202\002\001\000\126  
\263\216\313\012\235\111\216\277\244\304\221\273\146\027\005\121  
\230\165\373\345\120\054\172\236\361\024\372\253\323\212\076\377  
\221\051\217\143\213\330\264\251\124\001\015\276\223\206\057\371  
\112\155\307\136\365\127\371\312\125\034\022\276\107\017\066\305  
\337\152\267\333\165\302\107\045\177\271\361\143\370\150\055\125  
\004\321\362\215\260\244\317\274\074\136\037\170\347\245\240\040  
\160\260\004\305\267\367\162\247\336\042\015\275\063\045\106\214  
\144\222\046\343\076\056\143\226\332\233\214\075\370\030\011\327  
\003\314\175\206\202\340\312\004\007\121\120\327\377\222\325\014  
\357\332\206\237\231\327\353\267\257\150\342\071\046\224\272\150  
\267\277\203\323\352\172\147\075\142\147\256\045\345\162\350\342  
\344\354\256\022\366\113\053\074\237\351\260\100\363\070\124\263  
\375\267\150\310\332\306\217\121\074\262\373\221\334\034\347\233  
\235\341\267\015\162\217\342\244\304\251\170\371\353\024\254\306  
\103\005\302\145\071\050\030\002\303\202\262\235\005\276\145\355  
\226\137\145\164\074\373\011\065\056\173\234\023\375\033\017\135  
\307\155\201\072\126\017\314\073\341\257\002\057\042\254\106\312  
\106\074\240\034\114\326\104\264\136\056\134\025\146\011\341\046  
\051\376\306\122\141\272\261\163\377\303\014\234\345\154\152\224  
\077\024\312\100\026\225\204\363\131\251\254\137\114\141\223\155  
\321\073\314\242\225\014\042\246\147\147\104\056\271\331\322\212  
\101\263\146\013\132\373\175\043\245\362\032\260\377\336\233\203  
\224\056\321\077\337\222\267\221\257\005\073\145\307\240\154\261  
\315\142\022\303\220\033\343\045\316\064\274\157\167\166\261\020  
\303\367\005\032\300\326\257\164\142\110\027\167\222\151\220\141  
\034\336\225\200\164\124\217\030\034\303\363\003\320\277\244\103  
\165\206\123\030\172\012\056\011\034\066\237\221\375\202\212\042

```
\113\321\016\120\045\335\313\003\014\027\311\203\000\010\116\065
\115\212\213\355\360\002\224\146\054\104\177\313\225\047\226\027
\255\011\060\254\266\161\027\156\213\027\366\034\011\324\055\073
\230\245\161\323\124\023\331\140\363\365\113\146\117\372\361\356
\040\022\215\264\254\127\261\105\143\241\254\166\251\302\373
```

END

```
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRICT_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRICT_AFTER CK_BBOOL CK_FALSE
```

```
Trust for "SSL.com EV Root Certification Authority RSA R2"
```

```
Issuer: CN=SSL.com EV Root Certification Authority RSA R2,O=SSL Corporation,L=Houston,ST=Texas,C=US
```

```
Serial Number:56:b6:29:cd:34:bc:78:f6
```

```
Subject: CN=SSL.com EV Root Certification Authority RSA R2,O=SSL
Corporation,L=Houston,ST=Texas,C=US
```

```
Not Valid Before: Wed May 31 18:14:37 2017
```

```
Not Valid After : Fri May 30 18:14:37 2042
```

```
Fingerprint (SHA-256):
```

```
2E:7B:F1:6C:C2:24:85:A7:BB:E2:AA:86:96:75:07:61:B0:AE:39:BE:3B:2F:E9:D0:CC:6D:4E:F7:34:91:42:5C
```

```
Fingerprint (SHA1): 74:3A:F0:52:9B:D0:32:A0:F4:4A:83:CD:D4:BA:A9:7B:7C:2E:C4:9A
```

```
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
```

```
CKA_TOKEN CK_BBOOL CK_TRUE
```

```
CKA_PRIVATE CK_BBOOL CK_FALSE
```

```
CKA_MODIFIABLE CK_BBOOL CK_FALSE
```

```
CKA_LABEL UTF8 "SSL.com EV Root Certification Authority RSA R2"
```

```
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
```

```
\164\072\360\122\233\320\062\240\364\112\203\315\324\272\251\173
\174\056\304\232
```

END

```
CKA_CERT_MD5_HASH MULTILINE_OCTAL
```

```
\341\036\061\130\032\256\124\123\002\366\027\152\021\173\115\225
```

END

```
CKA_ISSUER MULTILINE_OCTAL
```

```
\060\201\202\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\016\060\014\006\003\125\004\010\014\005\124\145\170\141\163
\061\020\060\016\006\003\125\004\007\014\007\110\157\165\163\164
\157\156\061\030\060\026\006\003\125\004\012\014\017\123\123\114
\040\103\157\162\160\157\162\141\164\151\157\156\061\067\060\065
\006\003\125\004\003\014\056\123\123\114\056\143\157\155\040\105
\126\040\122\157\157\164\040\103\145\162\164\151\146\151\143\141
\164\151\157\156\040\101\165\164\150\157\162\151\164\171\040\122
\123\101\040\122\062
```

END

```
CKA_SERIAL_NUMBER MULTILINE_OCTAL
```

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

END

```
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
```

```
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
```



CKA\_TRUST\_CODE\_SIGNING CK\_TRUST CKT\_NSS\_MUST\_VERIFY\_TRUST  
CKA\_TRUST\_STEP\_UP\_APPROVED CK\_BBOOL CK\_FALSE

#

# Certificate "SSL.com EV Root Certification Authority ECC"

#

# Issuer: CN=SSL.com EV Root Certification Authority ECC,O=SSL Corporation,L=Houston,ST=Texas,C=US

# Serial Number:2c:29:9c:5b:16:ed:05:95

# Subject: CN=SSL.com EV Root Certification Authority ECC,O=SSL Corporation,L=Houston,ST=Texas,C=US

# Not Valid Before: Fri Feb 12 18:15:23 2016

# Not Valid After : Tue Feb 12 18:15:23 2041

# Fingerprint (SHA-256):

22:A2:C1:F7:BD:ED:70:4C:C1:E7:01:B5:F4:08:C3:10:88:0F:E9:56:B5:DE:2A:4A:44:F9:9C:87:3A:25:A7:C8

# Fingerprint (SHA1): 4C:DD:51:A3:D1:F5:20:32:14:B0:C6:C5:32:23:03:91:C7:46:42:6D

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_CERTIFICATE

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "SSL.com EV Root Certification Authority ECC"

CKA\_CERTIFICATE\_TYPE CK\_CERTIFICATE\_TYPE CKC\_X\_509

CKA\_SUBJECT MULTILINE\_OCTAL

\060\177\061\013\060\011\006\003\125\004\006\023\002\125\123\061  
\016\060\014\006\003\125\004\010\014\005\124\145\170\141\163\061  
\020\060\016\006\003\125\004\007\014\007\110\157\165\163\164\157  
\156\061\030\060\026\006\003\125\004\012\014\017\123\123\114\040  
\103\157\162\160\157\162\141\164\151\157\156\061\064\060\062\006  
\003\125\004\003\014\053\123\123\114\056\143\157\155\040\105\126  
\040\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164  
\151\157\156\040\101\165\164\150\157\162\151\164\171\040\105\103  
\103

END

CKA\_ID UTF8 "0"

CKA\_ISSUER MULTILINE\_OCTAL

\060\177\061\013\060\011\006\003\125\004\006\023\002\125\123\061  
\016\060\014\006\003\125\004\010\014\005\124\145\170\141\163\061  
\020\060\016\006\003\125\004\007\014\007\110\157\165\163\164\157  
\156\061\030\060\026\006\003\125\004\012\014\017\123\123\114\040  
\103\157\162\160\157\162\141\164\151\157\156\061\064\060\062\006  
\003\125\004\003\014\053\123\123\114\056\143\157\155\040\105\126  
\040\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164  
\151\157\156\040\101\165\164\150\157\162\151\164\171\040\105\103  
\103

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

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

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\002\224\060\202\002\032\240\003\002\001\002\002\010\054

\051\234\133\026\355\005\225\060\012\006\010\052\206\110\316\075  
\004\003\002\060\177\061\013\060\011\006\003\125\004\006\023\002  
\125\123\061\016\060\014\006\003\125\004\010\014\005\124\145\170  
\141\163\061\020\060\016\006\003\125\004\007\014\007\110\157\165  
\163\164\157\156\061\030\060\026\006\003\125\004\012\014\017\123  
\123\114\040\103\157\162\160\157\162\141\164\151\157\156\061\064  
\060\062\006\003\125\004\003\014\053\123\123\114\056\143\157\155  
\040\105\126\040\122\157\157\164\040\103\145\162\164\151\146\151  
\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171  
\040\105\103\103\060\036\027\015\061\066\060\062\061\062\061\070  
\061\065\062\063\132\027\015\064\061\060\062\061\062\061\070\061  
\065\062\063\132\060\177\061\013\060\011\006\003\125\004\006\023  
\002\125\123\061\016\060\014\006\003\125\004\010\014\005\124\145  
\170\141\163\061\020\060\016\006\003\125\004\007\014\007\110\157  
\165\163\164\157\156\061\030\060\026\006\003\125\004\012\014\017  
\123\123\114\040\103\157\162\160\157\162\141\164\151\157\156\061  
\064\060\062\006\003\125\004\003\014\053\123\123\114\056\143\157  
\155\040\105\126\040\122\157\157\164\040\103\145\162\164\151\146  
\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164  
\171\040\105\103\103\060\166\060\020\006\007\052\206\110\316\075  
\002\001\006\005\053\201\004\000\042\003\142\000\004\252\022\107  
\220\230\033\373\357\303\100\007\203\040\116\361\060\202\242\006  
\321\362\222\206\141\362\366\041\150\312\000\304\307\352\103\000  
\124\206\334\375\037\337\000\270\101\142\134\334\160\026\062\336  
\037\231\324\314\305\007\310\010\037\141\026\007\121\075\175\134  
\007\123\343\065\070\214\337\315\237\331\056\015\112\266\031\056  
\132\160\132\006\355\276\360\241\260\312\320\011\051\243\143\060  
\141\060\035\006\003\125\035\016\004\026\004\024\133\312\136\345  
\336\322\201\252\315\250\055\144\121\266\331\162\233\227\346\117  
\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001  
\377\060\037\006\003\125\035\043\004\030\060\026\200\024\133\312  
\136\345\336\322\201\252\315\250\055\144\121\266\331\162\233\227  
\346\117\060\016\006\003\125\035\017\001\001\377\004\004\003\002  
\001\206\060\012\006\010\052\206\110\316\075\004\003\002\003\150  
\000\060\145\002\061\000\212\346\100\211\067\353\351\325\023\331  
\312\324\153\044\363\260\075\207\106\130\032\354\261\337\157\373  
\126\272\160\153\307\070\314\350\261\214\117\017\367\361\147\166  
\016\203\320\036\121\217\002\060\075\366\043\050\046\114\306\140  
\207\223\046\233\262\065\036\272\326\367\074\321\034\316\372\045  
\074\246\032\201\025\133\363\022\017\154\356\145\212\311\207\250  
\371\007\340\142\232\214\134\112

END

CKA\_NSS\_MOZILLA\_CA\_POLICY CK\_BBOOL CK\_TRUE  
CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE  
CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "SSL.com EV Root Certification Authority ECC"

# Issuer: CN=SSL.com EV Root Certification Authority ECC,O=SSL Corporation,L=Houston,ST=Texas,C=US

```
Serial Number:2c:29:9c:5b:16:ed:05:95
Subject: CN=SSL.com EV Root Certification Authority ECC,O=SSL Corporation,L=Houston,ST=Texas,C=US
Not Valid Before: Fri Feb 12 18:15:23 2016
Not Valid After : Tue Feb 12 18:15:23 2041
Fingerprint (SHA-256):
22:A2:C1:F7:BD:ED:70:4C:C1:E7:01:B5:F4:08:C3:10:88:0F:E9:56:B5:DE:2A:4A:44:F9:9C:87:3A:25:A7:C8
Fingerprint (SHA1): 4C:DD:51:A3:D1:F5:20:32:14:B0:C6:C5:32:23:03:91:C7:46:42:6D
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SSL.com EV Root Certification Authority ECC"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\114\335\121\243\321\365\040\062\024\260\306\305\062\043\003\221
\307\106\102\155
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\131\123\042\145\203\102\001\124\300\316\102\271\132\174\362\220
END
CKA_ISSUER MULTILINE_OCTAL
\060\177\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\016\060\014\006\003\125\004\010\014\005\124\145\170\141\163\061
\020\060\016\006\003\125\004\007\014\007\110\157\165\163\164\157
\156\061\030\060\026\006\003\125\004\012\014\017\123\123\114\040
\103\157\162\160\157\162\141\164\151\157\156\061\064\060\062\006
\003\125\004\003\014\053\123\123\114\056\143\157\155\040\105\126
\040\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164
\151\157\156\040\101\165\164\150\157\162\151\164\171\040\105\103
\103
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\054\051\234\133\026\355\005\225
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "GlobalSign Root CA - R6"
#
Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R6
Serial Number:45:e6:bb:03:83:33:c3:85:65:48:e6:ff:45:51
Subject: CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R6
Not Valid Before: Wed Dec 10 00:00:00 2014
Not Valid After : Sun Dec 10 00:00:00 2034
Fingerprint (SHA-256):
2C:AB:EA:FE:37:D0:6C:A2:2A:BA:73:91:C0:03:3D:25:98:29:52:C4:53:64:73:49:76:3A:3A:B5:AD:6C:CF:69
```

# Fingerprint (SHA1): 80:94:64:0E:B5:A7:A1:CA:11:9C:1F:DD:D5:9F:81:02:63:A7:FB:D1

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_CERTIFICATE

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "GlobalSign Root CA - R6"

CKA\_CERTIFICATE\_TYPE CK\_CERTIFICATE\_TYPE CKC\_X\_509

CKA\_SUBJECT MULTILINE\_OCTAL

\060\114\061\040\060\036\006\003\125\004\013\023\027\107\154\157  
\142\141\154\123\151\147\156\040\122\157\157\164\040\103\101\040  
\055\040\122\066\061\023\060\021\006\003\125\004\012\023\012\107  
\154\157\142\141\154\123\151\147\156\061\023\060\021\006\003\125  
\004\003\023\012\107\154\157\142\141\154\123\151\147\156

END

CKA\_ID UTF8 "0"

CKA\_ISSUER MULTILINE\_OCTAL

\060\114\061\040\060\036\006\003\125\004\013\023\027\107\154\157  
\142\141\154\123\151\147\156\040\122\157\157\164\040\103\101\040  
\055\040\122\066\061\023\060\021\006\003\125\004\012\023\012\107  
\154\157\142\141\154\123\151\147\156\061\023\060\021\006\003\125  
\004\003\023\012\107\154\157\142\141\154\123\151\147\156

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

\002\016\105\346\273\003\203\063\303\205\145\110\346\377\105\121

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\005\203\060\202\003\153\240\003\002\001\002\002\016\105  
\346\273\003\203\063\303\205\145\110\346\377\105\121\060\015\006  
\011\052\206\110\206\367\015\001\001\014\005\000\060\114\061\040  
\060\036\006\003\125\004\013\023\027\107\154\157\142\141\154\123  
\151\147\156\040\122\157\157\164\040\103\101\040\055\040\122\066  
\061\023\060\021\006\003\125\004\012\023\012\107\154\157\142\141  
\154\123\151\147\156\061\023\060\021\006\003\125\004\003\023\012  
\107\154\157\142\141\154\123\151\147\156\060\036\027\015\061\064  
\061\062\061\060\060\060\060\060\060\060\132\027\015\063\064\061  
\062\061\060\060\060\060\060\060\060\132\060\114\061\040\060\036  
\006\003\125\004\013\023\027\107\154\157\142\141\154\123\151\147  
\156\040\122\157\157\164\040\103\101\040\055\040\122\066\061\023  
\060\021\006\003\125\004\012\023\012\107\154\157\142\141\154\123  
\151\147\156\061\023\060\021\006\003\125\004\003\023\012\107\154  
\157\142\141\154\123\151\147\156\060\202\002\042\060\015\006\011  
\052\206\110\206\367\015\001\001\001\005\000\003\202\002\017\000  
\060\202\002\012\002\202\002\001\000\225\007\350\163\312\146\371  
\354\024\312\173\074\367\015\010\361\264\105\013\054\202\264\110  
\306\353\133\074\256\203\270\101\222\063\024\244\157\177\351\052  
\314\306\260\210\153\305\266\211\321\306\262\377\024\316\121\024  
\041\354\112\335\033\132\306\326\207\356\115\072\025\006\355\144  
\146\013\222\200\312\104\336\163\224\116\363\247\211\177\117\170

\143\010\310\022\120\155\102\146\057\115\271\171\050\115\122\032  
\212\032\200\267\031\201\016\176\304\212\274\144\114\041\034\103  
\150\327\075\074\212\305\262\146\325\220\232\267\061\006\305\276  
\342\155\062\006\246\036\371\271\353\252\243\270\277\276\202\143  
\120\320\360\030\211\337\344\017\171\365\352\242\037\052\322\160  
\056\173\347\274\223\273\155\123\342\110\174\214\020\007\070\377  
\146\262\167\141\176\340\352\214\074\252\264\244\366\363\225\112  
\022\007\155\375\214\262\211\317\320\240\141\167\310\130\164\260  
\324\043\072\367\135\072\312\242\333\235\011\336\135\104\055\220  
\361\201\315\127\222\372\176\274\120\004\143\064\337\153\223\030  
\276\153\066\262\071\344\254\044\066\267\360\357\266\034\023\127  
\223\266\336\262\370\342\205\267\163\242\270\065\252\105\362\340  
\235\066\241\157\124\212\361\162\126\156\056\210\305\121\102\104  
\025\224\356\243\305\070\226\233\116\116\132\013\107\363\006\066  
\111\167\060\274\161\067\345\246\354\041\010\165\374\346\141\026  
\077\167\325\331\221\227\204\012\154\324\002\115\164\300\024\355  
\375\071\373\203\362\136\024\241\004\260\013\351\376\356\217\341  
\156\013\262\010\263\141\146\011\152\261\006\072\145\226\131\300  
\360\065\375\311\332\050\215\032\021\207\160\201\012\250\232\165  
\035\236\072\206\005\000\236\333\200\326\045\371\334\005\236\047  
\131\114\166\071\133\352\371\245\241\330\203\017\321\377\337\060  
\021\371\205\317\063\110\365\312\155\144\024\054\172\130\117\323  
\113\010\111\305\225\144\032\143\016\171\075\365\263\214\312\130  
\255\234\102\105\171\156\016\207\031\134\124\261\145\266\277\214  
\233\334\023\351\015\157\270\056\334\147\156\311\213\021\265\204  
\024\212\000\031\160\203\171\221\227\221\324\032\047\277\067\036  
\062\007\330\024\143\074\050\114\257\002\003\001\000\001\243\143  
\060\141\060\016\006\003\125\035\017\001\001\377\004\004\003\002  
\001\006\060\017\006\003\125\035\023\001\001\377\004\005\060\003  
\001\001\377\060\035\006\003\125\035\016\004\026\004\024\256\154  
\005\243\223\023\342\242\347\342\327\034\326\307\360\177\310\147  
\123\240\060\037\006\003\125\035\043\004\030\060\026\200\024\256  
\154\005\243\223\023\342\242\347\342\327\034\326\307\360\177\310  
\147\123\240\060\015\006\011\052\206\110\206\367\015\001\001\014  
\005\000\003\202\002\001\000\203\045\355\350\321\375\225\122\315  
\236\300\004\240\221\151\346\134\320\204\336\334\255\242\117\350  
\107\170\326\145\230\251\133\250\074\207\174\002\212\321\156\267  
\026\163\346\137\300\124\230\325\164\276\301\315\342\021\221\255  
\043\030\075\335\341\162\104\226\264\225\136\300\173\216\231\170  
\026\103\023\126\127\263\242\263\073\265\167\334\100\162\254\243  
\353\233\065\076\261\010\041\241\347\304\103\067\171\062\276\265  
\347\234\054\114\274\103\051\231\216\060\323\254\041\340\343\035  
\372\330\007\063\166\124\000\042\052\271\115\040\056\160\150\332  
\345\123\374\203\134\323\235\362\377\104\014\104\146\362\322\343  
\275\106\000\032\155\002\272\045\135\215\241\061\121\335\124\106  
\034\115\333\231\226\357\032\034\004\134\246\025\357\170\340\171  
\376\135\333\076\252\114\125\375\232\025\251\157\341\246\373\337  
\160\060\351\303\356\102\106\355\302\223\005\211\372\175\143\173

\077\320\161\201\174\000\350\230\256\016\170\064\303\045\373\257  
\012\237\040\153\335\073\023\217\022\214\342\101\032\110\172\163  
\240\167\151\307\266\134\177\202\310\036\376\130\033\050\053\250  
\154\255\136\155\300\005\322\173\267\353\200\376\045\067\376\002  
\233\150\254\102\135\303\356\365\314\334\360\120\165\322\066\151  
\234\346\173\004\337\156\006\151\266\336\012\011\110\131\207\353  
\173\024\140\172\144\252\151\103\357\221\307\114\354\030\335\154  
\357\123\055\214\231\341\136\362\162\076\317\124\310\275\147\354  
\244\017\114\105\377\323\271\060\043\007\114\217\020\277\206\226  
\331\231\132\264\231\127\034\244\314\273\025\211\123\272\054\005  
\017\344\304\236\031\261\030\064\325\114\235\272\355\367\037\257  
\044\225\004\170\250\003\273\356\201\345\332\137\174\213\112\241  
\220\164\045\247\263\076\113\310\054\126\275\307\310\357\070\342  
\134\222\360\171\367\234\204\272\164\055\141\001\040\176\176\321  
\362\117\007\131\137\213\055\103\122\353\106\014\224\341\365\146  
\107\171\167\325\124\133\037\255\044\067\313\105\132\116\240\104  
\110\310\330\260\231\305\025\204\011\366\326\111\111\300\145\270  
\346\032\161\156\240\250\361\202\350\105\076\154\326\002\327\012  
\147\203\005\132\311\244\020

END

CKA\_NSS\_MOZILLA\_CA\_POLICY CK\_BBOOL CK\_TRUE  
CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE  
CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "GlobalSign Root CA - R6"

# Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R6

# Serial Number:45:e6:bb:03:83:33:c3:85:65:48:e6:ff:45:51

# Subject: CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R6

# Not Valid Before: Wed Dec 10 00:00:00 2014

# Not Valid After : Sun Dec 10 00:00:00 2034

# Fingerprint (SHA-256):

2C:AB:EA:FE:37:D0:6C:A2:2A:BA:73:91:C0:03:3D:25:98:29:52:C4:53:64:73:49:76:3A:3A:B5:AD:6C:CF:69

# Fingerprint (SHA1): 80:94:64:0E:B5:A7:A1:CA:11:9C:1F:DD:D5:9F:81:02:63:A7:FB:D1

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "GlobalSign Root CA - R6"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

\200\224\144\016\265\247\241\312\021\234\037\335\325\237\201\002  
\143\247\373\321

END

CKA\_CERT\_MD5\_HASH MULTILINE\_OCTAL

\117\335\007\344\324\042\144\071\036\014\067\102\352\321\306\256

END

CKA\_ISSUER MULTILINE\_OCTAL

\060\114\061\040\060\036\006\003\125\004\013\023\027\107\154\157  
\142\141\154\123\151\147\156\040\122\157\157\164\040\103\101\040

```
\055\040\122\066\061\023\060\021\006\003\125\004\012\023\012\107
\154\157\142\141\154\123\151\147\156\061\023\060\021\006\003\125
\004\003\023\012\107\154\157\142\141\154\123\151\147\156
END
```

```
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\016\105\346\273\003\203\063\303\205\145\110\346\377\105\121
END
```

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

```
#
Certificate "OISTE WISeKey Global Root GC CA"
#
Issuer: CN=OISTE WISeKey Global Root GC CA,OU=OISTE Foundation Endorsed,O=WISeKey,C=CH
Serial Number:21:2a:56:0c:ae:da:0c:ab:40:45:bf:2b:a2:2d:3a:ea
Subject: CN=OISTE WISeKey Global Root GC CA,OU=OISTE Foundation Endorsed,O=WISeKey,C=CH
Not Valid Before: Tue May 09 09:48:34 2017
Not Valid After : Fri May 09 09:58:33 2042
Fingerprint (SHA-256):
85:60:F9:1C:36:24:DA:BA:95:70:B5:FE:A0:DB:E3:6F:F1:1A:83:23:BE:94:86:85:4F:B3:F3:4A:55:71:19:8D
Fingerprint (SHA1): E0:11:84:5E:34:DE:BE:88:81:B9:9C:F6:16:26:D1:96:1F:C3:B9:31
```

```
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "OISTE WISeKey Global Root GC CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\155\061\013\060\011\006\003\125\004\006\023\002\103\110\061
\020\060\016\006\003\125\004\012\023\007\127\111\123\145\113\145
\171\061\042\060\040\006\003\125\004\013\023\031\117\111\123\124
\105\040\106\157\165\156\144\141\164\151\157\156\040\105\156\144
\157\162\163\145\144\061\050\060\046\006\003\125\004\003\023\037
\117\111\123\124\105\040\127\111\123\145\113\145\171\040\107\154
\157\142\141\154\040\122\157\157\164\040\107\103\040\103\101
END
```

```
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\155\061\013\060\011\006\003\125\004\006\023\002\103\110\061
\020\060\016\006\003\125\004\012\023\007\127\111\123\145\113\145
\171\061\042\060\040\006\003\125\004\013\023\031\117\111\123\124
\105\040\106\157\165\156\144\141\164\151\157\156\040\105\156\144
\157\162\163\145\144\061\050\060\046\006\003\125\004\003\023\037
\117\111\123\124\105\040\127\111\123\145\113\145\171\040\107\154
\157\142\141\154\040\122\157\157\164\040\107\103\040\103\101
END
```

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL  
\002\020\041\052\126\014\256\332\014\253\100\105\277\053\242\055  
\072\352

END

CKA\_VALUE MULTILINE\_OCTAL  
\060\202\002\151\060\202\001\357\240\003\002\001\002\002\020\041  
\052\126\014\256\332\014\253\100\105\277\053\242\055\072\352\060  
\012\006\010\052\206\110\316\075\004\003\003\060\155\061\013\060  
\011\006\003\125\004\006\023\002\103\110\061\020\060\016\006\003  
\125\004\012\023\007\127\111\123\145\113\145\171\061\042\060\040  
\006\003\125\004\013\023\031\117\111\123\124\105\040\106\157\165  
\156\144\141\164\151\157\156\040\105\156\144\157\162\163\145\144  
\061\050\060\046\006\003\125\004\003\023\037\117\111\123\124\105  
\040\127\111\123\145\113\145\171\040\107\154\157\142\141\154\040  
\122\157\157\164\040\107\103\040\103\101\060\036\027\015\061\067  
\060\065\060\071\060\071\064\070\063\064\132\027\015\064\062\060  
\065\060\071\060\071\065\070\063\063\132\060\155\061\013\060\011  
\006\003\125\004\006\023\002\103\110\061\020\060\016\006\003\125  
\004\012\023\007\127\111\123\145\113\145\171\061\042\060\040\006  
\003\125\004\013\023\031\117\111\123\124\105\040\106\157\165\156  
\144\141\164\151\157\156\040\105\156\144\157\162\163\145\144\061  
\050\060\046\006\003\125\004\003\023\037\117\111\123\124\105\040  
\127\111\123\145\113\145\171\040\107\154\157\142\141\154\040\122  
\157\157\164\040\107\103\040\103\101\060\166\060\020\006\007\052  
\206\110\316\075\002\001\006\005\053\201\004\000\042\003\142\000  
\004\114\351\120\300\306\017\162\030\274\330\361\272\263\211\342  
\171\112\243\026\247\153\124\044\333\121\377\352\364\011\044\303  
\013\042\237\313\152\047\202\201\015\322\300\257\061\344\164\202  
\156\312\045\331\214\165\235\361\333\320\232\242\113\041\176\026  
\247\143\220\322\071\324\261\207\170\137\030\226\017\120\033\065  
\067\017\152\306\334\331\023\115\244\216\220\067\346\275\133\061  
\221\243\124\060\122\060\016\006\003\125\035\017\001\001\377\004  
\004\003\002\001\006\060\017\006\003\125\035\023\001\001\377\004  
\005\060\003\001\001\377\060\035\006\003\125\035\016\004\026\004  
\024\110\207\024\254\343\303\236\220\140\072\327\312\211\356\323  
\255\214\264\120\146\060\020\006\011\053\006\001\004\001\202\067  
\025\001\004\003\002\001\000\060\012\006\010\052\206\110\316\075  
\004\003\003\003\150\000\060\145\002\060\046\307\151\133\334\325  
\347\262\347\310\014\214\214\303\335\171\214\033\143\325\311\122  
\224\116\115\202\112\163\036\262\200\204\251\045\300\114\132\155  
\111\051\140\170\023\342\176\110\353\144\002\061\000\333\064\040  
\062\010\377\232\111\002\266\210\336\024\257\135\154\231\161\215  
\032\077\213\327\340\242\066\206\034\007\202\072\166\123\375\302  
\242\355\357\173\260\200\117\130\017\113\123\071\275

END

CKA\_NSS\_MOZILLA\_CA\_POLICY CK\_BBOOL CK\_TRUE  
CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE  
CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE



```

Trust for "OISTE WISeKey Global Root GC CA"
Issuer: CN=OISTE WISeKey Global Root GC CA,OU=OISTE Foundation Endorsed,O=WISeKey,C=CH
Serial Number:21:2a:56:0c:ae:da:0c:ab:40:45:bf:2b:a2:2d:3a:ea
Subject: CN=OISTE WISeKey Global Root GC CA,OU=OISTE Foundation Endorsed,O=WISeKey,C=CH
Not Valid Before: Tue May 09 09:48:34 2017
Not Valid After : Fri May 09 09:58:33 2042
Fingerprint (SHA-256):
85:60:F9:1C:36:24:DA:BA:95:70:B5:FE:A0:DB:E3:6F:F1:1A:83:23:BE:94:86:85:4F:B3:F3:4A:55:71:19:8D
Fingerprint (SHA1): E0:11:84:5E:34:DE:BE:88:81:B9:9C:F6:16:26:D1:96:1F:C3:B9:31
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "OISTE WISeKey Global Root GC CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\340\021\204\136\064\336\276\210\201\271\234\366\026\046\321\226
\037\303\271\061
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\251\326\271\055\057\223\144\370\245\151\312\221\351\150\007\043
END
CKA_ISSUER MULTILINE_OCTAL
\060\155\061\013\060\011\006\003\125\004\006\023\002\103\110\061
\020\060\016\006\003\125\004\012\023\007\127\111\123\145\113\145
\171\061\042\060\040\006\003\125\004\013\023\031\117\111\123\124
\105\040\106\157\165\156\144\141\164\151\157\156\040\105\156\144
\157\162\163\145\144\061\050\060\046\006\003\125\004\003\023\037
\117\111\123\124\105\040\127\111\123\145\113\145\171\040\107\154
\157\142\141\154\040\122\157\157\164\040\107\103\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\041\052\126\014\256\332\014\253\100\105\277\053\242\055
\072\352
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "UCA Global G2 Root"
#
Issuer: CN=UCA Global G2 Root,O=UniTrust,C=CN
Serial Number:5d:df:b1:da:5a:a3:ed:5d:be:5a:65:20:65:03:90:ef
Subject: CN=UCA Global G2 Root,O=UniTrust,C=CN
Not Valid Before: Fri Mar 11 00:00:00 2016
Not Valid After : Mon Dec 31 00:00:00 2040

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```
Fingerprint (SHA-256):
9B:EA:11:C9:76:FE:01:47:64:C1:BE:56:A6:F9:14:B5:A5:60:31:7A:BD:99:88:39:33:82:E5:16:1A:A0:49:3C
Fingerprint (SHA1): 28:F9:78:16:19:7A:FF:18:25:18:AA:44:FE:C1:A0:CE:5C:B6:4C:8A
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "UCA Global G2 Root"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\075\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\021\060\017\006\003\125\004\012\014\010\125\156\151\124\162\165
\163\164\061\033\060\031\006\003\125\004\003\014\022\125\103\101
\040\107\154\157\142\141\154\040\107\062\040\122\157\157\164
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\075\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\021\060\017\006\003\125\004\012\014\010\125\156\151\124\162\165
\163\164\061\033\060\031\006\003\125\004\003\014\022\125\103\101
\040\107\154\157\142\141\154\040\107\062\040\122\157\157\164
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\135\337\261\332\132\243\355\135\276\132\145\040\145\003
\220\357
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\106\060\202\003\056\240\003\002\001\002\002\020\135
\337\261\332\132\243\355\135\276\132\145\040\145\003\220\357\060
\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060\075
\061\013\060\011\006\003\125\004\006\023\002\103\116\061\021\060
\017\006\003\125\004\012\014\010\125\156\151\124\162\165\163\164
\061\033\060\031\006\003\125\004\003\014\022\125\103\101\040\107
\154\157\142\141\154\040\107\062\040\122\157\157\164\060\036\027
\015\061\066\060\063\061\061\060\060\060\060\060\060\132\027\015
\064\060\061\062\063\061\060\060\060\060\060\060\132\060\075\061
\013\060\011\006\003\125\004\006\023\002\103\116\061\021\060\017
\006\003\125\004\012\014\010\125\156\151\124\162\165\163\164\061
\033\060\031\006\003\125\004\003\014\022\125\103\101\040\107\154
\157\142\141\154\040\107\062\040\122\157\157\164\060\202\002\042
\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003
\202\002\017\000\060\202\002\012\002\202\002\001\000\305\346\053
\157\174\357\046\005\047\243\201\044\332\157\313\001\371\231\232
\251\062\302\042\207\141\101\221\073\313\303\150\033\006\305\114
\251\053\301\147\027\042\035\053\355\371\051\211\223\242\170\275
\222\153\240\243\015\242\176\312\223\263\246\321\214\065\325\165
\371\027\366\317\105\305\345\172\354\167\223\240\217\043\256\016
\032\003\177\276\324\320\355\056\173\253\106\043\133\377\054\346
```

\124\172\224\300\052\025\360\311\215\260\172\073\044\341\327\150  
\342\061\074\006\063\106\266\124\021\246\245\057\042\124\052\130  
\015\001\002\361\372\025\121\147\154\300\372\327\266\033\177\321  
\126\210\057\032\072\215\073\273\202\021\340\107\000\320\122\207  
\253\373\206\176\017\044\153\100\235\064\147\274\215\307\055\206  
\157\171\076\216\251\074\027\113\177\260\231\343\260\161\140\334  
\013\365\144\303\316\103\274\155\161\271\322\336\047\133\212\350  
\330\306\256\341\131\175\317\050\055\065\270\225\126\032\361\262  
\130\113\267\022\067\310\174\263\355\113\200\341\215\372\062\043  
\266\157\267\110\225\010\261\104\116\205\214\072\002\124\040\057  
\337\277\127\117\073\072\220\041\327\301\046\065\124\040\354\307  
\077\107\354\357\132\277\113\172\301\255\073\027\120\134\142\330  
\017\113\112\334\053\372\156\274\163\222\315\354\307\120\350\101  
\226\327\251\176\155\330\351\035\217\212\265\271\130\222\272\112  
\222\053\014\126\375\200\353\010\360\136\051\156\033\034\014\257  
\217\223\211\255\333\275\243\236\041\312\211\031\354\337\265\303  
\032\353\026\376\170\066\114\326\156\320\076\027\034\220\027\153  
\046\272\373\172\057\277\021\034\030\016\055\163\003\217\240\345  
\065\240\132\342\114\165\035\161\341\071\070\123\170\100\314\203  
\223\327\012\236\235\133\217\212\344\345\340\110\344\110\262\107  
\315\116\052\165\052\173\362\042\366\311\276\011\221\226\127\172  
\210\210\254\356\160\254\371\334\051\343\014\034\073\022\116\104  
\326\247\116\260\046\310\363\331\032\227\221\150\352\357\215\106  
\006\322\126\105\130\232\074\014\017\203\270\005\045\303\071\317  
\073\244\064\211\267\171\022\057\107\305\347\251\227\151\374\246  
\167\147\265\337\173\361\172\145\025\344\141\126\145\002\003\001  
\000\001\243\102\060\100\060\016\006\003\125\035\017\001\001\377  
\004\004\003\002\001\006\060\017\006\003\125\035\023\001\001\377  
\004\005\060\003\001\001\377\060\035\006\003\125\035\016\004\026  
\004\024\201\304\214\314\365\344\060\377\245\014\010\137\214\025  
\147\041\164\001\337\337\060\015\006\011\052\206\110\206\367\015  
\001\001\013\005\000\003\202\002\001\000\023\145\042\365\216\053  
\255\104\344\313\377\271\150\346\303\200\110\075\004\173\372\043  
\057\172\355\066\332\262\316\155\366\346\236\345\137\130\217\313  
\067\062\241\310\145\266\256\070\075\065\033\076\274\073\266\004  
\320\274\371\111\365\233\367\205\305\066\266\313\274\370\310\071  
\325\344\137\007\275\025\124\227\164\312\312\355\117\272\272\144  
\166\237\201\270\204\105\111\114\215\157\242\353\261\314\321\303  
\224\332\104\302\346\342\352\030\350\242\037\047\005\272\327\345  
\326\251\315\335\357\166\230\215\000\016\315\033\372\003\267\216  
\200\130\016\047\077\122\373\224\242\312\136\145\311\326\204\332  
\271\065\161\363\046\300\117\167\346\201\047\322\167\073\232\024  
\157\171\364\366\320\341\323\224\272\320\127\121\275\047\005\015  
\301\375\310\022\060\356\157\215\021\053\010\235\324\324\277\200  
\105\024\232\210\104\332\060\352\264\247\343\356\357\133\202\325  
\076\326\255\170\222\333\134\074\363\330\255\372\270\153\177\304  
\066\050\266\002\025\212\124\054\234\260\027\163\216\320\067\243  
\024\074\230\225\000\014\051\005\133\236\111\111\261\137\307\343

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\313\317\047\145\216\065\027\267\127\310\060\331\101\133\271\024
\266\350\302\017\224\061\247\224\230\314\152\353\265\341\047\365
\020\250\001\350\216\022\142\350\210\314\265\177\106\227\300\233
\020\146\070\032\066\106\137\042\150\075\337\311\306\023\047\253
\123\006\254\242\074\206\006\145\157\261\176\261\051\104\232\243
\272\111\151\050\151\217\327\345\137\255\004\206\144\157\032\240
\014\305\010\142\316\200\243\320\363\354\150\336\276\063\307\027
\133\177\200\304\114\114\261\246\204\212\303\073\270\011\315\024
\201\272\030\343\124\127\066\376\333\057\174\107\241\072\063\310
\371\130\073\104\117\261\312\002\211\004\226\050\150\305\113\270
\046\211\273\326\063\057\120\325\376\232\211\272\030\062\222\124
\306\133\340\235\371\136\345\015\042\233\366\332\342\310\041\262
\142\041\252\206\100\262\056\144\323\137\310\343\176\021\147\105
\037\005\376\343\242\357\263\250\263\363\175\217\370\014\037\042
\037\055\160\264\270\001\064\166\060\000\345\043\170\247\126\327
\120\037\212\373\006\365\302\031\360\320
```

END

```
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRICT_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRICT_AFTER CK_BBOOL CK_FALSE
```

# Trust for "UCA Global G2 Root"

# Issuer: CN=UCA Global G2 Root,O=UniTrust,C=CN

# Serial Number:5d:df:b1:da:5a:a3:ed:5d:be:5a:65:20:65:03:90:ef

# Subject: CN=UCA Global G2 Root,O=UniTrust,C=CN

# Not Valid Before: Fri Mar 11 00:00:00 2016

# Not Valid After : Mon Dec 31 00:00:00 2040

# Fingerprint (SHA-256):

9B:EA:11:C9:76:FE:01:47:64:C1:BE:56:A6:F9:14:B5:A5:60:31:7A:BD:99:88:39:33:82:E5:16:1A:A0:49:3C

# Fingerprint (SHA1): 28:F9:78:16:19:7A:FF:18:25:18:AA:44:FE:C1:A0:CE:5C:B6:4C:8A

```
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
```

```
CKA_TOKEN CK_BBOOL CK_TRUE
```

```
CKA_PRIVATE CK_BBOOL CK_FALSE
```

```
CKA_MODIFIABLE CK_BBOOL CK_FALSE
```

```
CKA_LABEL UTF8 "UCA Global G2 Root"
```

```
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
```

```
\050\371\170\026\031\172\377\030\045\030\252\104\376\301\240\316
\134\266\114\212
```

END

```
CKA_CERT_MD5_HASH MULTILINE_OCTAL
```

```
\200\376\360\304\112\360\134\142\062\237\034\272\170\251\120\370
```

END

```
CKA_ISSUER MULTILINE_OCTAL
```

```
\060\075\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\021\060\017\006\003\125\004\012\014\010\125\156\151\124\162\165
\163\164\061\033\060\031\006\003\125\004\003\014\022\125\103\101
\040\107\154\157\142\141\154\040\107\062\040\122\157\157\164
```

END

```

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\135\337\261\332\132\243\355\135\276\132\145\040\145\003
\220\357
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "UCA Extended Validation Root"
#
Issuer: CN=UCA Extended Validation Root,O=UniTrust,C=CN
Serial Number:4f:d2:2b:8f:f5:64:c8:33:9e:4f:34:58:66:23:70:60
Subject: CN=UCA Extended Validation Root,O=UniTrust,C=CN
Not Valid Before: Fri Mar 13 00:00:00 2015
Not Valid After : Fri Dec 31 00:00:00 2038
Fingerprint (SHA-256):
D4:3A:F9:B3:54:73:75:5C:96:84:FC:06:D7:D8:CB:70:EE:5C:28:E7:73:FB:29:4E:B4:1E:E7:17:22:92:4D:24
Fingerprint (SHA1): A3:A1:B0:6F:24:61:23:4A:E3:36:A5:C2:37:FC:A6:FF:DD:F0:D7:3A
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "UCA Extended Validation Root"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\107\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\021\060\017\006\003\125\004\012\014\010\125\156\151\124\162\165
\163\164\061\045\060\043\006\003\125\004\003\014\034\125\103\101
\040\105\170\164\145\156\144\145\144\040\126\141\154\151\144\141
\164\151\157\156\040\122\157\157\164
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\107\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\021\060\017\006\003\125\004\012\014\010\125\156\151\124\162\165
\163\164\061\045\060\043\006\003\125\004\003\014\034\125\103\101
\040\105\170\164\145\156\144\145\144\040\126\141\154\151\144\141
\164\151\157\156\040\122\157\157\164
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\117\322\053\217\365\144\310\063\236\117\064\130\146\043
\160\140
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\132\060\202\003\102\240\003\002\001\002\002\020\117
\322\053\217\365\144\310\063\236\117\064\130\146\043\160\140\060

```

\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060\107  
\061\013\060\011\006\003\125\004\006\023\002\103\116\061\021\060  
\017\006\003\125\004\012\014\010\125\156\151\124\162\165\163\164  
\061\045\060\043\006\003\125\004\003\014\034\125\103\101\040\105  
\170\164\145\156\144\145\144\040\126\141\154\151\144\141\164\151  
\157\156\040\122\157\157\164\060\036\027\015\061\065\060\063\061  
\063\060\060\060\060\060\060\132\027\015\063\070\061\062\063\061  
\060\060\060\060\060\060\132\060\107\061\013\060\011\006\003\125  
\004\006\023\002\103\116\061\021\060\017\006\003\125\004\012\014  
\010\125\156\151\124\162\165\163\164\061\045\060\043\006\003\125  
\004\003\014\034\125\103\101\040\105\170\164\145\156\144\145\144  
\040\126\141\154\151\144\141\164\151\157\156\040\122\157\157\164  
\060\202\002\042\060\015\006\011\052\206\110\206\367\015\001\001  
\001\005\000\003\202\002\017\000\060\202\002\012\002\202\002\001  
\000\251\011\007\050\023\002\260\231\340\144\252\036\103\026\172  
\163\261\221\240\165\076\250\372\343\070\000\172\354\211\152\040  
\017\213\305\260\233\063\003\132\206\306\130\206\325\301\205\273  
\117\306\234\100\115\312\276\356\151\226\270\255\201\060\232\174  
\222\005\353\005\053\232\110\320\270\166\076\226\310\040\273\322  
\260\361\217\330\254\105\106\377\252\147\140\264\167\176\152\037  
\074\032\122\172\004\075\007\074\205\015\204\320\037\166\012\367  
\152\024\337\162\343\064\174\127\116\126\001\076\171\361\252\051  
\073\154\372\370\217\155\115\310\065\337\256\353\334\044\356\171  
\105\247\205\266\005\210\336\210\135\045\174\227\144\147\011\331  
\277\132\025\005\206\363\011\036\354\130\062\063\021\363\167\144  
\260\166\037\344\020\065\027\033\362\016\261\154\244\052\243\163  
\374\011\037\036\062\031\123\021\347\331\263\054\056\166\056\241  
\243\336\176\152\210\011\350\362\007\212\370\262\315\020\347\342  
\163\100\223\273\010\321\077\341\374\013\224\263\045\357\174\246  
\327\321\257\237\377\226\232\365\221\173\230\013\167\324\176\350  
\007\322\142\265\225\071\343\363\361\155\017\016\145\204\212\143  
\124\305\200\266\340\236\113\175\107\046\247\001\010\135\321\210  
\236\327\303\062\104\372\202\112\012\150\124\177\070\123\003\314  
\244\000\063\144\121\131\013\243\202\221\172\136\354\026\302\363  
\052\346\142\332\052\333\131\142\020\045\112\052\201\013\107\007  
\103\006\160\207\322\372\223\021\051\172\110\115\353\224\307\160  
\115\257\147\325\121\261\200\040\001\001\264\172\010\246\220\177  
\116\340\357\007\101\207\257\152\245\136\213\373\317\120\262\232  
\124\257\303\211\272\130\055\365\060\230\261\066\162\071\176\111  
\004\375\051\247\114\171\344\005\127\333\224\271\026\123\215\106  
\263\035\225\141\127\126\177\257\360\026\133\141\130\157\066\120  
\021\013\330\254\053\225\026\032\016\037\010\315\066\064\145\020  
\142\146\325\200\137\024\040\137\055\014\240\170\012\150\326\054  
\327\351\157\053\322\112\005\223\374\236\157\153\147\377\210\361  
\116\245\151\112\122\067\005\352\306\026\215\322\304\231\321\202  
\053\073\272\065\165\367\121\121\130\363\310\007\335\344\264\003  
\177\002\003\001\000\001\243\102\060\100\060\035\006\003\125\035  
\016\004\026\004\024\331\164\072\344\060\075\015\367\022\334\176

\132\005\237\036\064\232\367\341\024\060\017\006\003\125\035\023  
\001\001\377\004\005\060\003\001\001\377\060\016\006\003\125\035  
\017\001\001\377\004\004\003\002\001\206\060\015\006\011\052\206  
\110\206\367\015\001\001\013\005\000\003\202\002\001\000\066\215  
\227\314\102\025\144\051\067\233\046\054\326\373\256\025\151\054  
\153\032\032\367\137\266\371\007\114\131\352\363\311\310\271\256  
\314\272\056\172\334\300\365\260\055\300\073\257\237\160\005\021  
\152\237\045\117\001\051\160\343\345\014\341\352\132\174\334\111  
\273\301\036\052\201\365\026\113\162\221\310\242\061\271\252\332  
\374\235\037\363\135\100\002\023\374\116\034\006\312\263\024\220  
\124\027\031\022\032\361\037\327\014\151\132\366\161\170\364\224  
\175\221\013\216\354\220\124\216\274\157\241\114\253\374\164\144  
\375\161\232\370\101\007\241\315\221\344\074\232\340\233\062\071  
\163\253\052\325\151\310\170\221\046\061\175\342\307\060\361\374  
\024\170\167\022\016\023\364\335\026\224\277\113\147\173\160\123  
\205\312\260\273\363\070\115\054\220\071\300\015\302\135\153\351  
\342\345\325\210\215\326\054\277\253\033\276\265\050\207\022\027  
\164\156\374\175\374\217\320\207\046\260\033\373\271\154\253\342  
\236\075\025\301\073\056\147\002\130\221\237\357\370\102\037\054  
\267\150\365\165\255\317\265\366\377\021\175\302\360\044\245\255  
\323\372\240\074\251\372\135\334\245\240\357\104\244\276\326\350  
\345\344\023\226\027\173\006\076\062\355\307\267\102\274\166\243  
\330\145\070\053\070\065\121\041\016\016\157\056\064\023\100\341  
\053\147\014\155\112\101\060\030\043\132\062\125\231\311\027\340  
\074\336\366\354\171\255\053\130\031\242\255\054\042\032\225\216  
\276\226\220\135\102\127\304\371\024\003\065\053\034\055\121\127  
\010\247\072\336\077\344\310\264\003\163\302\301\046\200\273\013  
\102\037\255\015\257\046\162\332\314\276\263\243\203\130\015\202  
\305\037\106\121\343\234\030\314\215\233\215\354\111\353\165\120  
\325\214\050\131\312\164\064\332\214\013\041\253\036\352\033\345  
\307\375\025\076\300\027\252\373\043\156\046\106\313\372\371\261  
\162\153\151\317\042\204\013\142\017\254\331\031\000\224\242\166  
\074\324\055\232\355\004\236\055\006\142\020\067\122\034\205\162  
\033\047\345\314\306\061\354\067\354\143\131\233\013\035\166\314  
\176\062\232\210\225\010\066\122\273\336\166\137\166\111\111\255  
\177\275\145\040\262\311\301\053\166\030\166\237\126\261

END

CKA\_NSS\_MOZILLA\_CA\_POLICY CK\_BBOOL CK\_TRUE  
CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE  
CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "UCA Extended Validation Root"  
# Issuer: CN=UCA Extended Validation Root,O=UniTrust,C=CN  
# Serial Number:4f:d2:2b:8f:f5:64:c8:33:9e:4f:34:58:66:23:70:60  
# Subject: CN=UCA Extended Validation Root,O=UniTrust,C=CN  
# Not Valid Before: Fri Mar 13 00:00:00 2015  
# Not Valid After : Fri Dec 31 00:00:00 2038  
# Fingerprint (SHA-256):

```

D4:3A:F9:B3:54:73:75:5C:96:84:FC:06:D7:D8:CB:70:EE:5C:28:E7:73:FB:29:4E:B4:1E:E7:17:22:92:4D:24
Fingerprint (SHA1): A3:A1:B0:6F:24:61:23:4A:E3:36:A5:C2:37:FC:A6:FF:DD:F0:D7:3A
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "UCA Extended Validation Root"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\243\241\260\157\044\141\043\112\343\066\245\302\067\374\246\377
\335\360\327\072
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\241\363\137\103\306\064\233\332\277\214\176\005\123\255\226\342
END
CKA_ISSUER MULTILINE_OCTAL
\060\107\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\021\060\017\006\003\125\004\012\014\010\125\156\151\124\162\165
\163\164\061\045\060\043\006\003\125\004\003\014\034\125\103\101
\040\105\170\164\145\156\144\145\144\040\126\141\154\151\144\141
\164\151\157\156\040\122\157\157\164
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\117\322\053\217\365\144\310\063\236\117\064\130\146\043
\160\140
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Certigna Root CA"
#
Issuer: CN=Certigna Root CA,OU=0002 48146308100036,O=Dhimyotis,C=FR
Serial Number:00:ca:e9:1b:89:f1:55:03:0d:a3:e6:41:6d:c4:e3:a6:e1
Subject: CN=Certigna Root CA,OU=0002 48146308100036,O=Dhimyotis,C=FR
Not Valid Before: Tue Oct 01 08:32:27 2013
Not Valid After : Sat Oct 01 08:32:27 2033
Fingerprint (SHA-256):
D4:8D:3D:23:EE:DB:50:A4:59:E5:51:97:60:1C:27:77:4B:9D:7B:18:C9:4D:5A:05:95:11:A1:02:50:B9:31:68
Fingerprint (SHA1): 2D:0D:52:14:FF:9E:AD:99:24:01:74:20:47:6E:6C:85:27:27:F5:43
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certigna Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL

```



\060\132\061\013\060\011\006\003\125\004\006\023\002\106\122\061  
\022\060\020\006\003\125\004\012\014\011\104\150\151\155\171\157  
\164\151\163\061\034\060\032\006\003\125\004\013\014\023\060\060  
\060\062\040\064\070\061\064\066\063\060\070\061\060\060\060\063  
\066\061\031\060\027\006\003\125\004\003\014\020\103\145\162\164  
\151\147\156\141\040\122\157\157\164\040\103\101

END

CKA\_ID UTF8 "0"

CKA\_ISSUER MULTILINE\_OCTAL

\060\132\061\013\060\011\006\003\125\004\006\023\002\106\122\061  
\022\060\020\006\003\125\004\012\014\011\104\150\151\155\171\157  
\164\151\163\061\034\060\032\006\003\125\004\013\014\023\060\060  
\060\062\040\064\070\061\064\066\063\060\070\061\060\060\060\063  
\066\061\031\060\027\006\003\125\004\003\014\020\103\145\162\164  
\151\147\156\141\040\122\157\157\164\040\103\101

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

\002\021\000\312\351\033\211\361\125\003\015\243\346\101\155\304  
\343\246\341

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\006\133\060\202\004\103\240\003\002\001\002\002\021\000  
\312\351\033\211\361\125\003\015\243\346\101\155\304\343\246\341  
\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060  
\132\061\013\060\011\006\003\125\004\006\023\002\106\122\061\022  
\060\020\006\003\125\004\012\014\011\104\150\151\155\171\157\164  
\151\163\061\034\060\032\006\003\125\004\013\014\023\060\060\060  
\062\040\064\070\061\064\066\063\060\070\061\060\060\060\063\066  
\061\031\060\027\006\003\125\004\003\014\020\103\145\162\164\151  
\147\156\141\040\122\157\157\164\040\103\101\060\036\027\015\061  
\063\061\060\060\061\060\070\063\062\062\067\132\027\015\063\063  
\061\060\060\061\060\070\063\062\062\067\132\060\132\061\013\060  
\011\006\003\125\004\006\023\002\106\122\061\022\060\020\006\003  
\125\004\012\014\011\104\150\151\155\171\157\164\151\163\061\034  
\060\032\006\003\125\004\013\014\023\060\060\060\062\040\064\070  
\061\064\066\063\060\070\061\060\060\060\063\066\061\031\060\027  
\006\003\125\004\003\014\020\103\145\162\164\151\147\156\141\040  
\122\157\157\164\040\103\101\060\202\002\042\060\015\006\011\052  
\206\110\206\367\015\001\001\001\005\000\003\202\002\017\000\060  
\202\002\012\002\202\002\001\000\315\030\071\145\032\131\261\352  
\144\026\016\214\224\044\225\174\203\323\305\071\046\334\014\357  
\026\127\215\327\330\254\243\102\177\202\312\355\315\133\333\016  
\267\055\355\105\010\027\262\331\263\313\326\027\122\162\050\333  
\216\116\236\212\266\013\371\236\204\232\115\166\336\042\051\134  
\322\263\322\006\076\060\071\251\164\243\222\126\034\241\157\114  
\012\040\155\237\043\172\264\306\332\054\344\035\054\334\263\050  
\320\023\362\114\116\002\111\241\124\100\236\346\345\005\240\055  
\204\310\377\230\154\320\353\212\032\204\010\036\267\150\043\356

\043\325\160\316\155\121\151\020\356\241\172\302\321\042\061\302  
\202\205\322\362\125\166\120\174\045\172\311\204\134\013\254\335  
\102\116\053\347\202\242\044\211\313\220\262\320\356\043\272\146  
\114\273\142\244\371\123\132\144\173\174\230\372\243\110\236\017  
\225\256\247\030\364\152\354\056\003\105\257\360\164\370\052\315  
\172\135\321\276\104\046\062\051\361\361\365\154\314\176\002\041  
\013\237\157\244\077\276\235\123\342\317\175\251\054\174\130\032  
\227\341\075\067\067\030\146\050\322\100\305\121\212\214\303\055  
\316\123\210\044\130\144\060\026\305\252\340\326\012\246\100\337  
\170\366\365\004\174\151\023\204\274\321\321\247\006\317\001\367  
\150\300\250\127\273\072\141\255\004\214\223\343\255\374\360\333  
\104\155\131\334\111\131\256\254\232\231\066\060\101\173\166\063  
\042\207\243\302\222\206\156\371\160\356\256\207\207\225\033\304  
\172\275\061\363\324\322\345\231\377\276\110\354\165\365\170\026  
\035\246\160\301\177\074\033\241\222\373\317\310\074\326\305\223  
\012\217\365\125\072\166\225\316\131\230\212\011\225\167\062\232  
\203\272\054\004\072\227\275\324\057\276\327\154\233\242\312\175  
\155\046\311\125\325\317\303\171\122\010\011\231\007\044\055\144  
\045\153\246\041\151\233\152\335\164\115\153\227\172\101\275\253  
\027\371\220\027\110\217\066\371\055\325\305\333\356\252\205\105  
\101\372\315\072\105\261\150\346\066\114\233\220\127\354\043\271  
\207\010\302\304\011\361\227\206\052\050\115\342\164\300\332\304  
\214\333\337\342\241\027\131\316\044\131\164\061\332\177\375\060  
\155\331\334\341\152\341\374\137\002\003\001\000\001\243\202\001  
\032\060\202\001\026\060\017\006\003\125\035\023\001\001\377\004  
\005\060\003\001\001\377\060\016\006\003\125\035\017\001\001\377  
\004\004\003\002\001\006\060\035\006\003\125\035\016\004\026\004  
\024\030\207\126\340\156\167\356\044\065\074\116\163\232\037\326  
\341\342\171\176\053\060\037\006\003\125\035\043\004\030\060\026  
\200\024\030\207\126\340\156\167\356\044\065\074\116\163\232\037  
\326\341\342\171\176\053\060\104\006\003\125\035\040\004\075\060  
\073\060\071\006\004\125\035\040\000\060\061\060\057\006\010\053  
\006\001\005\005\007\002\001\026\043\150\164\164\160\163\072\057  
\057\167\167\167\167\056\143\145\162\164\151\147\156\141\056\146  
\162\057\141\165\164\157\162\151\164\145\163\057\060\155\006\003  
\125\035\037\004\146\060\144\060\057\240\055\240\053\206\051\150  
\164\164\160\072\057\057\143\162\154\056\143\145\162\164\151\147  
\156\141\056\146\162\057\143\145\162\164\151\147\156\141\162\157  
\157\164\143\141\056\143\162\154\060\061\240\057\240\055\206\053  
\150\164\164\160\072\057\057\143\162\154\056\144\150\151\155\171  
\157\164\151\163\056\143\157\155\057\143\145\162\164\151\147\156  
\141\162\157\157\164\143\141\056\143\162\154\060\015\006\011\052  
\206\110\206\367\015\001\001\013\005\000\003\202\002\001\000\224  
\270\236\117\360\343\225\010\042\347\315\150\101\367\034\125\325  
\174\000\342\055\072\211\135\150\070\057\121\042\013\112\215\313  
\351\273\135\076\273\134\075\261\050\376\344\123\125\023\317\241  
\220\033\002\035\137\146\106\011\063\050\341\015\044\227\160\323  
\020\037\352\144\127\226\273\135\332\347\304\214\117\114\144\106

\035\134\207\343\131\336\102\321\233\250\176\246\211\335\217\034  
\311\060\202\355\073\234\315\300\351\031\340\152\330\002\165\067  
\253\367\064\050\050\221\362\004\012\117\065\343\140\046\001\372  
\320\021\214\371\021\152\356\257\075\303\120\323\217\137\063\171  
\074\206\250\163\105\220\214\040\266\162\163\027\043\276\007\145  
\345\170\222\015\272\001\300\353\214\034\146\277\254\206\167\001  
\224\015\234\346\351\071\215\037\246\121\214\231\014\071\167\341  
\264\233\372\034\147\127\157\152\152\216\251\053\114\127\171\172  
\127\042\317\315\137\143\106\215\134\131\072\206\370\062\107\142  
\243\147\015\030\221\334\373\246\153\365\110\141\163\043\131\216  
\002\247\274\104\352\364\111\235\361\124\130\371\140\257\332\030  
\244\057\050\105\334\172\240\210\206\135\363\073\347\377\051\065  
\200\374\144\103\224\346\343\034\157\276\255\016\052\143\231\053  
\311\176\205\366\161\350\006\003\225\376\336\217\110\034\132\324  
\222\350\053\356\347\061\333\272\004\152\207\230\347\305\137\357  
\175\247\042\367\001\330\115\371\211\320\016\232\005\131\244\236  
\230\331\157\053\312\160\276\144\302\125\243\364\351\257\303\222  
\051\334\210\026\044\231\074\215\046\230\266\133\267\314\316\267  
\067\007\375\046\331\230\205\044\377\131\043\003\232\355\235\235  
\250\344\136\070\316\327\122\015\157\322\077\155\261\005\153\111  
\316\212\221\106\163\364\366\057\360\250\163\167\016\145\254\241  
\215\146\122\151\176\113\150\014\307\036\067\047\203\245\214\307  
\002\344\024\315\111\001\260\163\263\375\306\220\072\157\322\154  
\355\073\356\354\221\276\242\103\135\213\000\112\146\045\104\160  
\336\100\017\370\174\025\367\242\316\074\327\136\023\214\201\027  
\030\027\321\275\361\167\020\072\324\145\071\301\047\254\127\054  
\045\124\377\242\332\117\212\141\071\136\256\075\112\214\275

END

CKA\_NSS\_MOZILLA\_CA\_POLICY CK\_BBOOL CK\_TRUE  
CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE  
CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "Certigna Root CA"

# Issuer: CN=Certigna Root CA,OU=0002 48146308100036,O=Dhimyotis,C=FR

# Serial Number:00:ca:e9:1b:89:f1:55:03:0d:a3:e6:41:6d:c4:e3:a6:e1

# Subject: CN=Certigna Root CA,OU=0002 48146308100036,O=Dhimyotis,C=FR

# Not Valid Before: Tue Oct 01 08:32:27 2013

# Not Valid After : Sat Oct 01 08:32:27 2033

# Fingerprint (SHA-256):

D4:8D:3D:23:EE:DB:50:A4:59:E5:51:97:60:1C:27:77:4B:9D:7B:18:C9:4D:5A:05:95:11:A1:02:50:B9:31:68

# Fingerprint (SHA1): 2D:0D:52:14:FF:9E:AD:99:24:01:74:20:47:6E:6C:85:27:27:F5:43

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "Certigna Root CA"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

\055\015\122\024\377\236\255\231\044\001\164\040\107\156\154\205

```

\047\047\365\103
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\016\134\060\142\047\353\133\274\327\256\142\272\351\325\337\167
END
CKA_ISSUER MULTILINE_OCTAL
\060\132\061\013\060\011\006\003\125\004\006\023\002\106\122\061
\022\060\020\006\003\125\004\012\014\011\104\150\151\155\171\157
\164\151\163\061\034\060\032\006\003\125\004\013\014\023\060\060
\060\062\040\064\070\061\064\066\063\060\070\061\060\060\060\063
\066\061\031\060\027\006\003\125\004\003\014\020\103\145\162\164
\151\147\156\141\040\122\157\157\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\021\000\312\351\033\211\361\125\003\015\243\346\101\155\304
\343\246\341
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "emSign Root CA - G1"
#
Issuer: CN=emSign Root CA - G1,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN
Serial Number:31:f5:e4:62:0c:6c:58:ed:d6:d8
Subject: CN=emSign Root CA - G1,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN
Not Valid Before: Sun Feb 18 18:30:00 2018
Not Valid After : Wed Feb 18 18:30:00 2043
Fingerprint (SHA-256):
40:F6:AF:03:46:A9:9A:A1:CD:1D:55:5A:4E:9C:CE:62:C7:F9:63:46:03:EE:40:66:15:83:3D:C8:C8:D0:03:67
Fingerprint (SHA1): 8A:C7:AD:8F:73:AC:4E:C1:B5:75:4D:A5:40:F4:FC:CF:7C:B5:8E:8C
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "emSign Root CA - G1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\147\061\013\060\011\006\003\125\004\006\023\002\111\116\061
\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147\156
\040\120\113\111\061\045\060\043\006\003\125\004\012\023\034\145
\115\165\144\150\162\141\040\124\145\143\150\156\157\154\157\147
\151\145\163\040\114\151\155\151\164\145\144\061\034\060\032\006
\003\125\004\003\023\023\145\155\123\151\147\156\040\122\157\157
\164\040\103\101\040\055\040\107\061
END

```

CKA\_ID UTF8 "0"

CKA\_ISSUER MULTILINE\_OCTAL

\060\147\061\013\060\011\006\003\125\004\006\023\002\111\116\061  
\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147\156  
\040\120\113\111\061\045\060\043\006\003\125\004\012\023\034\145  
\115\165\144\150\162\141\040\124\145\143\150\156\157\154\157\147  
\151\145\163\040\114\151\155\151\164\145\144\061\034\060\032\006  
\003\125\004\003\023\023\145\155\123\151\147\156\040\122\157\157  
\164\040\103\101\040\055\040\107\061

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

\002\012\061\365\344\142\014\154\130\355\326\330

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\003\224\060\202\002\174\240\003\002\001\002\002\012\061  
\365\344\142\014\154\130\355\326\330\060\015\006\011\052\206\110  
\206\367\015\001\001\013\005\000\060\147\061\013\060\011\006\003  
\125\004\006\023\002\111\116\061\023\060\021\006\003\125\004\013  
\023\012\145\155\123\151\147\156\040\120\113\111\061\045\060\043  
\006\003\125\004\012\023\034\145\115\165\144\150\162\141\040\124  
\145\143\150\156\157\154\157\147\151\145\163\040\114\151\155\151  
\164\145\144\061\034\060\032\006\003\125\004\003\023\023\145\155  
\123\151\147\156\040\122\157\157\164\040\103\101\040\055\040\107  
\061\060\036\027\015\061\070\060\062\061\070\061\070\063\060\060\060  
\060\132\027\015\064\063\060\062\061\070\061\070\063\060\060\060  
\132\060\147\061\013\060\011\006\003\125\004\006\023\002\111\116  
\061\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147  
\156\040\120\113\111\061\045\060\043\006\003\125\004\012\023\034  
\145\115\165\144\150\162\141\040\124\145\143\150\156\157\154\157  
\147\151\145\163\040\114\151\155\151\164\145\144\061\034\060\032  
\006\003\125\004\003\023\023\145\155\123\151\147\156\040\122\157  
\157\164\040\103\101\040\055\040\107\061\060\202\001\042\060\015  
\006\011\052\206\110\206\367\015\001\001\001\005\000\003\202\001  
\017\000\060\202\001\012\002\202\001\001\000\223\113\273\351\146  
\212\356\235\133\325\064\223\320\033\036\303\347\236\270\144\063  
\177\143\170\150\264\315\056\161\165\327\233\040\306\115\051\274  
\266\150\140\212\367\041\232\126\065\132\363\166\275\330\315\232  
\377\223\126\113\245\131\006\241\223\064\051\335\026\064\165\116  
\362\201\264\307\226\116\255\031\025\122\112\376\074\160\165\160  
\315\257\053\253\025\232\063\074\252\263\213\252\315\103\375\365  
\352\160\377\355\317\021\073\224\316\116\062\026\323\043\100\052  
\167\263\257\074\001\054\154\355\231\054\213\331\116\151\230\262  
\367\217\101\260\062\170\141\326\015\137\303\372\242\100\222\035  
\134\027\346\160\076\065\347\242\267\302\142\342\253\244\070\114  
\265\071\065\157\352\003\151\372\072\124\150\205\155\326\362\057  
\103\125\036\221\015\016\330\325\152\244\226\321\023\074\054\170  
\120\350\072\222\322\027\126\345\065\032\100\034\076\215\054\355  
\071\337\102\340\203\101\164\337\243\315\302\206\140\110\150\343

```
\151\013\124\000\213\344\166\151\041\015\171\116\064\010\136\024
\302\314\261\267\255\327\174\160\212\307\205\002\003\001\000\001
\243\102\060\100\060\035\006\003\125\035\016\004\026\004\024\373
\357\015\206\236\260\343\335\251\271\361\041\027\177\076\374\360
\167\053\032\060\016\006\003\125\035\017\001\001\377\004\004\003
\002\001\006\060\017\006\003\125\035\023\001\001\377\004\005\060
\003\001\001\377\060\015\006\011\052\206\110\206\367\015\001\001
\013\005\000\003\202\001\001\000\131\377\362\214\365\207\175\161
\075\243\237\033\133\321\332\370\323\234\153\066\275\233\251\141
\353\336\026\054\164\075\236\346\165\332\327\272\247\274\102\027
\347\075\221\353\345\175\335\076\234\361\317\222\254\154\110\314
\302\042\077\151\073\305\266\025\057\243\065\306\150\052\034\127
\257\071\357\215\320\065\303\030\014\173\000\126\034\315\213\031
\164\336\276\017\022\340\320\252\241\077\002\064\261\160\316\235
\030\326\010\003\011\106\356\140\340\176\266\304\111\004\121\175
\160\140\274\252\262\377\171\162\172\246\035\075\137\052\370\312
\342\375\071\267\107\271\353\176\337\004\043\257\372\234\006\007
\351\373\143\223\200\100\265\306\154\012\061\050\316\014\237\317
\263\043\065\200\101\215\154\304\067\173\201\057\200\241\100\102
\205\351\331\070\215\350\241\123\315\001\277\151\350\132\006\362
\105\013\220\372\256\341\277\235\362\256\127\074\245\256\262\126
\364\213\145\100\351\375\061\201\054\364\071\011\330\356\153\247
\264\246\035\025\245\230\367\001\201\330\205\175\363\121\134\161
\210\336\272\314\037\200\176\112
```

END

```
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRICT_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRICT_AFTER CK_BBOOL CK_FALSE
```

```
Trust for "emSign Root CA - G1"
```

```
Issuer: CN=emSign Root CA - G1,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN
```

```
Serial Number:31:f5:e4:62:0c:6c:58:ed:d6:d8
```

```
Subject: CN=emSign Root CA - G1,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN
```

```
Not Valid Before: Sun Feb 18 18:30:00 2018
```

```
Not Valid After : Wed Feb 18 18:30:00 2043
```

```
Fingerprint (SHA-256):
```

```
40:F6:AF:03:46:A9:9A:A1:CD:1D:55:5A:4E:9C:CE:62:C7:F9:63:46:03:EE:40:66:15:83:3D:C8:C8:D0:03:67
```

```
Fingerprint (SHA1): 8A:C7:AD:8F:73:AC:4E:C1:B5:75:4D:A5:40:F4:FC:CF:7C:B5:8E:8C
```

```
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
```

```
CKA_TOKEN CK_BBOOL CK_TRUE
```

```
CKA_PRIVATE CK_BBOOL CK_FALSE
```

```
CKA_MODIFIABLE CK_BBOOL CK_FALSE
```

```
CKA_LABEL UTF8 "emSign Root CA - G1"
```

```
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
```

```
\212\307\255\217\163\254\116\301\265\165\115\245\100\364\374\317
\174\265\216\214
```

END

```
CKA_CERT_MD5_HASH MULTILINE_OCTAL
```

\234\102\204\127\335\313\013\247\056\225\255\266\363\332\274\254

END

CKA\_ISSUER MULTILINE\_OCTAL

\060\147\061\013\060\011\006\003\125\004\006\023\002\111\116\061  
\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147\156  
\040\120\113\111\061\045\060\043\006\003\125\004\012\023\034\145  
\115\165\144\150\162\141\040\124\145\143\150\156\157\154\157\147  
\151\145\163\040\114\151\155\151\164\145\144\061\034\060\032\006  
\003\125\004\003\023\023\145\155\123\151\147\156\040\122\157\157  
\164\040\103\101\040\055\040\107\061

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

\002\012\061\365\344\142\014\154\130\355\326\330

END

CKA\_TRUST\_SERVER\_AUTH CK\_TRUST CKT\_NSS\_TRUSTED\_DELEGATOR

CKA\_TRUST\_EMAIL\_PROTECTION CK\_TRUST CKT\_NSS\_TRUSTED\_DELEGATOR

CKA\_TRUST\_CODE\_SIGNING CK\_TRUST CKT\_NSS\_MUST\_VERIFY\_TRUST

CKA\_TRUST\_STEP\_UP\_APPROVED CK\_BBOOL CK\_FALSE

#

# Certificate "emSign ECC Root CA - G3"

#

# Issuer: CN=emSign ECC Root CA - G3,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN

# Serial Number:3c:f6:07:a9:68:70:0e:da:8b:84

# Subject: CN=emSign ECC Root CA - G3,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN

# Not Valid Before: Sun Feb 18 18:30:00 2018

# Not Valid After : Wed Feb 18 18:30:00 2043

# Fingerprint (SHA-256):

86:A1:EC:BA:08:9C:4A:8D:3B:BE:27:34:C6:12:BA:34:1D:81:3E:04:3C:F9:E8:A8:62:CD:5C:57:A3:6B:BE:6B

# Fingerprint (SHA1): 30:43:FA:4F:F2:57:DC:A0:C3:80:EE:2E:58:EA:78:B2:3F:E6:BB:C1

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_CERTIFICATE

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "emSign ECC Root CA - G3"

CKA\_CERTIFICATE\_TYPE CK\_CERTIFICATE\_TYPE CKC\_X\_509

CKA\_SUBJECT MULTILINE\_OCTAL

\060\153\061\013\060\011\006\003\125\004\006\023\002\111\116\061  
\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147\156  
\040\120\113\111\061\045\060\043\006\003\125\004\012\023\034\145  
\115\165\144\150\162\141\040\124\145\143\150\156\157\154\157\147  
\151\145\163\040\114\151\155\151\164\145\144\061\040\060\036\006  
\003\125\004\003\023\027\145\155\123\151\147\156\040\105\103\103  
\040\122\157\157\164\040\103\101\040\055\040\107\063

END

CKA\_ID UTF8 "0"

CKA\_ISSUER MULTILINE\_OCTAL

\060\153\061\013\060\011\006\003\125\004\006\023\002\111\116\061

\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147\156  
\040\120\113\111\061\045\060\043\006\003\125\004\012\023\034\145  
\115\165\144\150\162\141\040\124\145\143\150\156\157\154\157\147  
\151\145\163\040\114\151\155\151\164\145\144\061\040\060\036\006  
\003\125\004\003\023\027\145\155\123\151\147\156\040\105\103\103  
\040\122\157\157\164\040\103\101\040\055\040\107\063

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

\002\012\074\366\007\251\150\160\016\332\213\204

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\002\116\060\202\001\323\240\003\002\001\002\002\012\074  
\366\007\251\150\160\016\332\213\204\060\012\006\010\052\206\110  
\316\075\004\003\003\060\153\061\013\060\011\006\003\125\004\006  
\023\002\111\116\061\023\060\021\006\003\125\004\013\023\012\145  
\155\123\151\147\156\040\120\113\111\061\045\060\043\006\003\125  
\004\012\023\034\145\115\165\144\150\162\141\040\124\145\143\150  
\156\157\154\157\147\151\145\163\040\114\151\155\151\164\145\144  
\061\040\060\036\006\003\125\004\003\023\027\145\155\123\151\147  
\156\040\105\103\103\040\122\157\157\164\040\103\101\040\055\040  
\107\063\060\036\027\015\061\070\060\062\061\070\061\070\063\060  
\060\060\132\027\015\064\063\060\062\061\070\061\070\063\060\060  
\060\132\060\153\061\013\060\011\006\003\125\004\006\023\002\111  
\116\061\023\060\021\006\003\125\004\013\023\012\145\155\123\151  
\147\156\040\120\113\111\061\045\060\043\006\003\125\004\012\023  
\034\145\115\165\144\150\162\141\040\124\145\143\150\156\157\154  
\157\147\151\145\163\040\114\151\155\151\164\145\144\061\040\060  
\036\006\003\125\004\003\023\027\145\155\123\151\147\156\040\105  
\103\103\040\122\157\157\164\040\103\101\040\055\040\107\063\060  
\166\060\020\006\007\052\206\110\316\075\002\001\006\005\053\201  
\004\000\042\003\142\000\004\043\245\014\270\055\022\365\050\363  
\261\262\335\342\002\022\200\236\071\137\111\115\237\311\045\064  
\131\164\354\273\006\034\347\300\162\257\350\256\057\341\101\124  
\207\024\250\112\262\350\174\202\346\133\152\265\334\263\165\316  
\213\006\320\206\043\277\106\325\216\017\077\004\364\327\034\222  
\176\366\245\143\302\365\137\216\056\117\241\030\031\002\053\062  
\012\202\144\175\026\223\321\243\102\060\100\060\035\006\003\125  
\035\016\004\026\004\024\174\135\002\204\023\324\314\212\233\201  
\316\027\034\056\051\036\234\110\143\102\060\016\006\003\125\035  
\017\001\001\377\004\004\003\002\001\006\060\017\006\003\125\035  
\023\001\001\377\004\005\060\003\001\001\377\060\012\006\010\052  
\206\110\316\075\004\003\003\003\151\000\060\146\002\061\000\276  
\363\141\317\002\020\035\144\225\007\270\030\156\210\205\005\057  
\203\010\027\220\312\037\212\114\350\015\033\172\261\255\325\201  
\011\107\357\073\254\010\004\174\134\231\261\355\107\007\322\002  
\061\000\235\272\125\374\251\112\350\355\355\346\166\001\102\173  
\310\370\140\331\215\121\213\125\073\373\214\173\353\145\011\303  
\370\226\315\107\250\202\362\026\125\167\044\176\022\020\225\004



```

\054\243
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRICT_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRICT_AFTER CK_BBOOL CK_FALSE

Trust for "emSign ECC Root CA - G3"
Issuer: CN=emSign ECC Root CA - G3,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN
Serial Number:3c:f6:07:a9:68:70:0e:da:8b:84
Subject: CN=emSign ECC Root CA - G3,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN
Not Valid Before: Sun Feb 18 18:30:00 2018
Not Valid After : Wed Feb 18 18:30:00 2043
Fingerprint (SHA-256):
86:A1:EC:BA:08:9C:4A:8D:3B:BE:27:34:C6:12:BA:34:1D:81:3E:04:3C:F9:E8:A8:62:CD:5C:57:A3:6B:BE:6B
Fingerprint (SHA1): 30:43:FA:4F:F2:57:DC:A0:C3:80:EE:2E:58:EA:78:B2:3F:E6:BB:C1
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "emSign ECC Root CA - G3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\060\103\372\117\362\127\334\240\303\200\356\056\130\352\170\262
\077\346\273\301
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\316\013\162\321\237\210\216\320\120\003\350\343\270\213\147\100
END
CKA_ISSUER MULTILINE_OCTAL
\060\153\061\013\060\011\006\003\125\004\006\023\002\111\116\061
\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147\156
\040\120\113\111\061\045\060\043\006\003\125\004\012\023\034\145
\115\165\144\150\162\141\040\124\145\143\150\156\157\154\157\147
\151\145\163\040\114\151\155\151\164\145\144\061\040\060\036\006
\003\125\004\003\023\027\145\155\123\151\147\156\040\105\103\103
\040\122\157\157\164\040\103\101\040\055\040\107\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\012\074\366\007\251\150\160\016\332\213\204
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "emSign Root CA - C1"
#
Issuer: CN=emSign Root CA - C1,O=eMudhra Inc,OU=emSign PKI,C=US

```

```
Serial Number:00:ae:cf:00:ba:c4:cf:32:f8:43:b2
Subject: CN=emSign Root CA - C1,O=eMudhra Inc,OU=emSign PKI,C=US
Not Valid Before: Sun Feb 18 18:30:00 2018
Not Valid After : Wed Feb 18 18:30:00 2043
Fingerprint (SHA-256):
12:56:09:AA:30:1D:A0:A2:49:B9:7A:82:39:CB:6A:34:21:6F:44:DC:AC:9F:39:54:B1:42:92:F2:E8:C8:60:8F
Fingerprint (SHA1): E7:2E:F1:DF:FC:B2:09:28:CF:5D:D4:D5:67:37:B1:51:CB:86:4F:01
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "emSign Root CA - C1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\126\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147\156
\040\120\113\111\061\024\060\022\006\003\125\004\012\023\013\145
\115\165\144\150\162\141\040\111\156\143\061\034\060\032\006\003
\125\004\003\023\023\145\155\123\151\147\156\040\122\157\157\164
\040\103\101\040\055\040\103\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\126\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147\156
\040\120\113\111\061\024\060\022\006\003\125\004\012\023\013\145
\115\165\144\150\162\141\040\111\156\143\061\034\060\032\006\003
\125\004\003\023\023\145\155\123\151\147\156\040\122\157\157\164
\040\103\101\040\055\040\103\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\013\000\256\317\000\272\304\317\062\370\103\262
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\163\060\202\002\133\240\003\002\001\002\002\013\000
\256\317\000\272\304\317\062\370\103\262\060\015\006\011\052\206
\110\206\367\015\001\001\013\005\000\060\126\061\013\060\011\006
\003\125\004\006\023\002\125\123\061\023\060\021\006\003\125\004
\013\023\012\145\155\123\151\147\156\040\120\113\111\061\024\060
\022\006\003\125\004\012\023\013\145\115\165\144\150\162\141\040
\111\156\143\061\034\060\032\006\003\125\004\003\023\023\145\155
\123\151\147\156\040\122\157\157\164\040\103\101\040\055\040\103
\061\060\036\027\015\061\070\060\062\061\070\061\070\063\060\060
\060\132\027\015\064\063\060\062\061\070\061\070\063\060\060\060
\132\060\126\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147
\156\040\120\113\111\061\024\060\022\006\003\125\004\012\023\013
\145\115\165\144\150\162\141\040\111\156\143\061\034\060\032\006
```

\003\125\004\003\023\023\145\155\123\151\147\156\040\122\157\157  
\164\040\103\101\040\055\040\103\061\060\202\001\042\060\015\006  
\011\052\206\110\206\367\015\001\001\001\005\000\003\202\001\017  
\000\060\202\001\012\002\202\001\001\000\317\353\251\271\361\231  
\005\314\330\050\041\112\363\163\064\121\204\126\020\365\240\117  
\054\022\343\372\023\232\047\320\317\371\171\032\164\137\035\171  
\071\374\133\370\160\216\340\222\122\367\344\045\371\124\203\331  
\035\323\310\132\205\077\136\307\266\007\356\076\300\316\232\257  
\254\126\102\052\071\045\160\326\277\265\173\066\255\254\366\163  
\334\315\327\035\212\203\245\373\053\220\025\067\153\034\046\107  
\334\073\051\126\223\152\263\301\152\072\235\075\365\301\227\070  
\130\005\213\034\021\343\344\264\270\135\205\035\203\376\170\137  
\013\105\150\030\110\245\106\163\064\073\376\017\310\166\273\307  
\030\363\005\321\206\363\205\355\347\271\331\062\255\125\210\316  
\246\266\221\260\117\254\176\025\043\226\366\077\360\040\064\026  
\336\012\306\304\004\105\171\177\247\375\276\322\251\245\257\234  
\305\043\052\367\074\041\154\275\257\217\116\305\072\262\363\064  
\022\374\337\200\032\111\244\324\251\225\367\236\211\136\242\211  
\254\224\313\250\150\233\257\212\145\047\315\211\356\335\214\265  
\153\051\160\103\240\151\013\344\271\017\002\003\001\000\001\243  
\102\060\100\060\035\006\003\125\035\016\004\026\004\024\376\241  
\340\160\036\052\003\071\122\132\102\276\134\221\205\172\030\252  
\115\265\060\016\006\003\125\035\017\001\001\377\004\004\003\002  
\001\006\060\017\006\003\125\035\023\001\001\377\004\005\060\003  
\001\001\377\060\015\006\011\052\206\110\206\367\015\001\001\013  
\005\000\003\202\001\001\000\302\112\126\372\025\041\173\050\242  
\351\345\035\373\370\055\304\071\226\101\114\073\047\054\304\154  
\030\025\200\306\254\257\107\131\057\046\013\343\066\260\357\073  
\376\103\227\111\062\231\022\025\133\337\021\051\377\253\123\370  
\273\301\170\017\254\234\123\257\127\275\150\214\075\151\063\360  
\243\240\043\143\073\144\147\042\104\255\325\161\313\126\052\170  
\222\243\117\022\061\066\066\342\336\376\000\304\243\140\017\047  
\255\240\260\212\265\066\172\122\241\275\047\364\040\047\142\350  
\115\224\044\023\344\012\004\351\074\253\056\310\103\011\112\306  
\141\004\345\111\064\176\323\304\310\365\017\300\252\351\272\124  
\136\363\143\053\117\117\120\324\376\271\173\231\214\075\300\056  
\274\002\053\323\304\100\344\212\007\061\036\233\316\046\231\023  
\373\021\352\232\042\014\021\031\307\136\033\201\120\060\310\226  
\022\156\347\313\101\177\221\073\242\107\267\124\200\033\334\000  
\314\232\220\352\303\303\120\006\142\014\060\300\025\110\247\250  
\131\174\341\256\042\242\342\012\172\017\372\142\253\122\114\341  
\361\337\312\276\203\015\102

END

CKA\_NSS\_MOZILLA\_CA\_POLICY CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "emSign Root CA - C1"

```

Issuer: CN=emSign Root CA - C1,O=eMudhra Inc,OU=emSign PKI,C=US
Serial Number:00:ae:cf:00:ba:c4:cf:32:f8:43:b2
Subject: CN=emSign Root CA - C1,O=eMudhra Inc,OU=emSign PKI,C=US
Not Valid Before: Sun Feb 18 18:30:00 2018
Not Valid After : Wed Feb 18 18:30:00 2043
Fingerprint (SHA-256):
12:56:09:AA:30:1D:A0:A2:49:B9:7A:82:39:CB:6A:34:21:6F:44:DC:AC:9F:39:54:B1:42:92:F2:E8:C8:60:8F
Fingerprint (SHA1): E7:2E:F1:DF:FC:B2:09:28:CF:5D:D4:D5:67:37:B1:51:CB:86:4F:01
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "emSign Root CA - C1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\347\056\361\337\374\262\011\050\317\135\324\325\147\067\261\121
\313\206\117\001
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\330\343\135\001\041\372\170\132\260\337\272\322\356\052\137\150
END
CKA_ISSUER MULTILINE_OCTAL
\060\126\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147\156
\040\120\113\111\061\024\060\022\006\003\125\004\012\023\013\145
\115\165\144\150\162\141\040\111\156\143\061\034\060\032\006\003
\125\004\003\023\023\145\155\123\151\147\156\040\122\157\157\164
\040\103\101\040\055\040\103\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\013\000\256\317\000\272\304\317\062\370\103\262
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "emSign ECC Root CA - C3"
#
Issuer: CN=emSign ECC Root CA - C3,O=eMudhra Inc,OU=emSign PKI,C=US
Serial Number:7b:71:b6:82:56:b8:12:7c:9c:a8
Subject: CN=emSign ECC Root CA - C3,O=eMudhra Inc,OU=emSign PKI,C=US
Not Valid Before: Sun Feb 18 18:30:00 2018
Not Valid After : Wed Feb 18 18:30:00 2043
Fingerprint (SHA-256):
BC:4D:80:9B:15:18:9D:78:DB:3E:1D:8C:F4:F9:72:6A:79:5D:A1:64:3C:A5:F1:35:8E:1D:DB:0E:DC:0D:7E:B3
Fingerprint (SHA1): B6:AF:43:C2:9B:81:53:7D:F6:EF:6B:C3:1F:1F:60:15:0C:EE:48:66
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

```

```
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "emSign ECC Root CA - C3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\132\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147\156
\040\120\113\111\061\024\060\022\006\003\125\004\012\023\013\145
\115\165\144\150\162\141\040\111\156\143\061\040\060\036\006\003
\125\004\003\023\027\145\155\123\151\147\156\040\105\103\103\040
\122\157\157\164\040\103\101\040\055\040\103\063
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\132\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147\156
\040\120\113\111\061\024\060\022\006\003\125\004\012\023\013\145
\115\165\144\150\162\141\040\111\156\143\061\040\060\036\006\003
\125\004\003\023\027\145\155\123\151\147\156\040\105\103\103\040
\122\157\157\164\040\103\101\040\055\040\103\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\012\173\161\266\202\126\270\022\174\234\250
END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\053\060\202\001\261\240\003\002\001\002\002\012\173
\161\266\202\126\270\022\174\234\250\060\012\006\010\052\206\110
\316\075\004\003\003\060\132\061\013\060\011\006\003\125\004\006
\023\002\125\123\061\023\060\021\006\003\125\004\013\023\012\145
\155\123\151\147\156\040\120\113\111\061\024\060\022\006\003\125
\004\012\023\013\145\115\165\144\150\162\141\040\111\156\143\061
\040\060\036\006\003\125\004\003\023\027\145\155\123\151\147\156
\040\105\103\103\040\122\157\157\164\040\103\101\040\055\040\103
\063\060\036\027\015\061\070\060\062\061\070\061\070\063\060\060
\060\132\027\015\064\063\060\062\061\070\061\070\063\060\060\060
\132\060\132\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147
\156\040\120\113\111\061\024\060\022\006\003\125\004\012\023\013
\145\115\165\144\150\162\141\040\111\156\143\061\040\060\036\006
\003\125\004\003\023\027\145\155\123\151\147\156\040\105\103\103
\040\122\157\157\164\040\103\101\040\055\040\103\063\060\166\060
\020\006\007\052\206\110\316\075\002\001\006\005\053\201\004\000
\042\003\142\000\004\375\245\141\256\173\046\020\035\351\267\042
\060\256\006\364\201\263\261\102\161\225\071\274\323\122\343\257
\257\371\362\227\065\222\066\106\016\207\225\215\271\071\132\351
\273\337\320\376\310\007\101\074\273\125\157\203\243\152\373\142
\260\201\211\002\160\175\110\305\112\343\351\042\124\042\115\223
```

```
\273\102\014\257\167\234\043\246\175\327\141\021\316\145\307\370
\177\376\365\362\251\243\102\060\100\060\035\006\003\125\035\016
\004\026\004\024\373\132\110\320\200\040\100\362\250\351\000\007
\151\031\167\247\346\303\364\317\060\016\006\003\125\035\017\001
\001\377\004\004\003\002\001\006\060\017\006\003\125\035\023\001
\001\377\004\005\060\003\001\001\377\060\012\006\010\052\206\110
\316\075\004\003\003\003\150\000\060\145\002\061\000\264\330\057
\002\211\375\266\114\142\272\103\116\023\204\162\265\256\335\034
\336\326\265\334\126\217\130\100\132\055\336\040\114\042\203\312
\223\250\176\356\022\100\307\326\207\117\370\337\205\002\060\034
\024\144\344\174\226\203\021\234\260\321\132\141\113\246\017\111
\323\000\374\241\374\344\245\377\177\255\327\060\320\307\167\177
\276\201\007\125\060\120\040\024\365\127\070\012\250\061\121
```

END

CKA\_NSS\_MOZILLA\_CA\_POLICY CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "emSign ECC Root CA - C3"

# Issuer: CN=emSign ECC Root CA - C3,O=eMudhra Inc,OU=emSign PKI,C=US

# Serial Number:7b:71:b6:82:56:b8:12:7c:9c:a8

# Subject: CN=emSign ECC Root CA - C3,O=eMudhra Inc,OU=emSign PKI,C=US

# Not Valid Before: Sun Feb 18 18:30:00 2018

# Not Valid After : Wed Feb 18 18:30:00 2043

# Fingerprint (SHA-256):

BC:4D:80:9B:15:18:9D:78:DB:3E:1D:8C:F4:F9:72:6A:79:5D:A1:64:3C:A5:F1:35:8E:1D:DB:0E:DC:0D:7E:B3

# Fingerprint (SHA1): B6:AF:43:C2:9B:81:53:7D:F6:EF:6B:C3:1F:1F:60:15:0C:EE:48:66

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "emSign ECC Root CA - C3"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

```
\266\257\103\302\233\201\123\175\366\357\153\303\037\037\140\025
\014\356\110\146
```

END

CKA\_CERT\_MD5\_HASH MULTILINE\_OCTAL

```
\076\123\263\243\201\356\327\020\370\323\260\035\027\222\365\325
```

END

CKA\_ISSUER MULTILINE\_OCTAL

```
\060\132\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147\156
\040\120\113\111\061\024\060\022\006\003\125\004\012\023\013\145
\115\165\144\150\162\141\040\111\156\143\061\040\060\036\006\003
\125\004\003\023\027\145\155\123\151\147\156\040\105\103\103\040
\122\157\157\164\040\103\101\040\055\040\103\063
```

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

```

\002\012\173\161\266\202\126\270\022\174\234\250
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Hongkong Post Root CA 3"
#
Issuer: CN=Hongkong Post Root CA 3,O=Hongkong Post,L=Hong Kong,ST=Hong Kong,C=HK
Serial Number:08:16:5f:8a:4c:a5:ec:00:c9:93:40:df:c4:c6:ae:23:b8:1c:5a:a4
Subject: CN=Hongkong Post Root CA 3,O=Hongkong Post,L=Hong Kong,ST=Hong Kong,C=HK
Not Valid Before: Sat Jun 03 02:29:46 2017
Not Valid After : Tue Jun 03 02:29:46 2042
Fingerprint (SHA-256):
5A:2F:C0:3F:0C:83:B0:90:BB:FA:40:60:4B:09:88:44:6C:76:36:18:3D:F9:84:6E:17:10:1A:44:7F:B8:EF:D6
Fingerprint (SHA1): 58:A2:D0:EC:20:52:81:5B:C1:F3:F8:64:02:24:4E:C2:8E:02:4B:02
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Hongkong Post Root CA 3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\157\061\013\060\011\006\003\125\004\006\023\002\110\113\061
\022\060\020\006\003\125\004\010\023\011\110\157\156\147\040\113
\157\156\147\061\022\060\020\006\003\125\004\007\023\011\110\157
\156\147\040\113\157\156\147\061\026\060\024\006\003\125\004\012
\023\015\110\157\156\147\153\157\156\147\040\120\157\163\164\061
\040\060\036\006\003\125\004\003\023\027\110\157\156\147\153\157
\156\147\040\120\157\163\164\040\122\157\157\164\040\103\101\040
\063
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\157\061\013\060\011\006\003\125\004\006\023\002\110\113\061
\022\060\020\006\003\125\004\010\023\011\110\157\156\147\040\113
\157\156\147\061\022\060\020\006\003\125\004\007\023\011\110\157
\156\147\040\113\157\156\147\061\026\060\024\006\003\125\004\012
\023\015\110\157\156\147\153\157\156\147\040\120\157\163\164\061
\040\060\036\006\003\125\004\003\023\027\110\157\156\147\153\157
\156\147\040\120\157\163\164\040\122\157\157\164\040\103\101\040
\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\010\026\137\212\114\245\354\000\311\223\100\337\304\306
\256\043\270\034\132\244

```

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\005\317\060\202\003\267\240\003\002\001\002\002\024\010  
\026\137\212\114\245\354\000\311\223\100\337\304\306\256\043\270  
\034\132\244\060\015\006\011\052\206\110\206\367\015\001\001\013  
\005\000\060\157\061\013\060\011\006\003\125\004\006\023\002\110  
\113\061\022\060\020\006\003\125\004\010\023\011\110\157\156\147  
\040\113\157\156\147\061\022\060\020\006\003\125\004\007\023\011  
\110\157\156\147\040\113\157\156\147\061\026\060\024\006\003\125  
\004\012\023\015\110\157\156\147\153\157\156\147\040\120\157\163  
\164\061\040\060\036\006\003\125\004\003\023\027\110\157\156\147  
\153\157\156\147\040\120\157\163\164\040\122\157\157\164\040\103  
\101\040\063\060\036\027\015\061\067\060\066\060\063\060\062\062  
\071\064\066\132\027\015\064\062\060\066\060\063\060\062\062\071  
\064\066\132\060\157\061\013\060\011\006\003\125\004\006\023\002  
\110\113\061\022\060\020\006\003\125\004\010\023\011\110\157\156  
\147\040\113\157\156\147\061\022\060\020\006\003\125\004\007\023  
\011\110\157\156\147\040\113\157\156\147\061\026\060\024\006\003  
\125\004\012\023\015\110\157\156\147\153\157\156\147\040\120\157  
\163\164\061\040\060\036\006\003\125\004\003\023\027\110\157\156  
\147\153\157\156\147\040\120\157\163\164\040\122\157\157\164\040  
\103\101\040\063\060\202\002\042\060\015\006\011\052\206\110\206  
\367\015\001\001\001\005\000\003\202\002\017\000\060\202\002\012  
\002\202\002\001\000\263\210\327\352\316\017\040\116\276\346\326  
\003\155\356\131\374\302\127\337\051\150\241\203\016\076\150\307  
\150\130\234\034\140\113\211\103\014\271\324\025\262\356\301\116  
\165\351\265\247\357\345\351\065\231\344\314\034\347\113\137\215  
\063\060\040\063\123\331\246\273\325\076\023\216\351\037\207\111  
\255\120\055\120\312\030\276\001\130\242\023\160\226\273\211\210  
\126\200\134\370\275\054\074\341\114\127\210\273\323\271\225\357  
\313\307\366\332\061\164\050\246\346\124\211\365\101\061\312\345  
\046\032\315\202\340\160\332\073\051\273\325\003\365\231\272\125  
\365\144\321\140\016\263\211\111\270\212\057\005\322\204\105\050  
\174\217\150\120\022\170\374\013\265\123\313\302\230\034\204\243  
\236\260\276\043\244\332\334\310\053\036\332\156\105\036\211\230  
\332\371\000\056\006\351\014\073\160\325\120\045\210\231\313\315  
\163\140\367\325\377\065\147\305\241\274\136\253\315\112\270\105  
\353\310\150\036\015\015\024\106\022\343\322\144\142\212\102\230  
\274\264\306\010\010\370\375\250\114\144\234\166\001\275\057\251  
\154\063\017\330\077\050\270\074\151\001\102\206\176\151\301\311  
\006\312\345\172\106\145\351\302\326\120\101\056\077\267\344\355  
\154\327\277\046\001\021\242\026\051\112\153\064\006\220\354\023  
\322\266\373\152\166\322\074\355\360\326\055\335\341\025\354\243  
\233\057\054\311\076\053\344\151\073\377\162\045\261\066\206\133  
\307\177\153\213\125\033\112\305\040\141\075\256\313\120\341\010  
\072\276\260\217\143\101\123\060\010\131\074\230\035\167\272\143  
\221\172\312\020\120\140\277\360\327\274\225\207\217\227\305\376  
\227\152\001\224\243\174\133\205\035\052\071\072\320\124\241\321



\071\161\235\375\041\371\265\173\360\342\340\002\217\156\226\044  
\045\054\240\036\054\250\304\211\247\357\355\231\006\057\266\012  
\114\117\333\242\314\067\032\257\107\205\055\212\137\304\064\064  
\114\000\375\030\223\147\023\321\067\346\110\264\213\006\305\127  
\173\031\206\012\171\313\000\311\122\257\102\377\067\217\341\243  
\036\172\075\120\253\143\006\347\025\265\077\266\105\067\224\067  
\261\176\362\110\303\177\305\165\376\227\215\105\217\032\247\032  
\162\050\032\100\017\002\003\001\000\001\243\143\060\141\060\017  
\006\003\125\035\023\001\001\377\004\005\060\003\001\001\377\060  
\016\006\003\125\035\017\001\001\377\004\004\003\002\001\006\060  
\037\006\003\125\035\043\004\030\060\026\200\024\027\235\315\036  
\213\326\071\053\160\323\134\324\240\270\037\260\000\374\305\141  
\060\035\006\003\125\035\016\004\026\004\024\027\235\315\036\213  
\326\071\053\160\323\134\324\240\270\037\260\000\374\305\141\060  
\015\006\011\052\206\110\206\367\015\001\001\013\005\000\003\202  
\002\001\000\126\325\173\156\346\042\001\322\102\233\030\325\016  
\327\146\043\134\343\376\240\307\222\322\351\224\255\113\242\306  
\354\022\174\164\325\110\322\131\024\231\300\353\271\321\353\364  
\110\060\133\255\247\127\163\231\251\323\345\267\321\056\131\044  
\130\334\150\056\056\142\330\152\344\160\013\055\040\120\040\244  
\062\225\321\000\230\273\323\375\367\062\362\111\256\306\172\340  
\107\276\156\316\313\243\162\072\055\151\135\313\310\350\105\071  
\324\372\102\301\021\114\167\135\222\373\152\377\130\104\345\353  
\201\236\257\240\231\255\276\251\001\146\313\070\035\074\337\103  
\037\364\115\156\264\272\027\106\374\175\375\207\201\171\152\015  
\063\017\372\057\370\024\271\200\263\135\115\252\227\341\371\344  
\030\305\370\325\070\214\046\074\375\362\050\342\356\132\111\210  
\054\337\171\075\216\236\220\074\275\101\112\072\335\133\366\232  
\264\316\077\045\060\177\062\175\242\003\224\320\334\172\241\122  
\336\156\223\215\030\046\375\125\254\275\217\233\322\317\257\347  
\206\054\313\037\011\157\243\157\251\204\324\163\277\115\241\164  
\033\116\043\140\362\314\016\252\177\244\234\114\045\250\262\146  
\073\070\377\331\224\060\366\162\204\276\150\125\020\017\306\163  
\054\026\151\223\007\376\261\105\355\273\242\125\152\260\332\265  
\112\002\045\047\205\327\267\267\206\104\026\211\154\200\053\076  
\227\251\234\325\176\125\114\306\336\105\020\034\352\351\073\237  
\003\123\356\356\172\001\002\026\170\324\350\302\276\106\166\210  
\023\077\042\273\110\022\035\122\000\264\002\176\041\032\036\234  
\045\364\363\075\136\036\322\034\371\263\055\266\367\067\134\306  
\313\041\116\260\367\231\107\030\205\301\053\272\125\256\006\352  
\320\007\262\334\253\320\202\226\165\316\322\120\376\231\347\317  
\057\237\347\166\321\141\052\373\041\273\061\320\252\237\107\244  
\262\042\312\026\072\120\127\304\133\103\147\305\145\142\003\111  
\001\353\103\331\330\370\236\255\317\261\143\016\105\364\240\132  
\054\233\055\305\246\300\255\250\107\364\047\114\070\015\056\033  
\111\073\122\364\350\210\203\053\124\050\324\362\065\122\264\062  
\203\142\151\144\014\221\234\237\227\352\164\026\375\037\021\006  
\232\233\364

```

END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRICT_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRICT_AFTER CK_BBOOL CK_FALSE

Trust for "Hongkong Post Root CA 3"
Issuer: CN=Hongkong Post Root CA 3,O=Hongkong Post,L=Hong Kong,ST=Hong Kong,C=HK
Serial Number:08:16:5f:8a:4c:a5:ec:00:c9:93:40:df:c4:c6:ae:23:b8:1c:5a:a4
Subject: CN=Hongkong Post Root CA 3,O=Hongkong Post,L=Hong Kong,ST=Hong Kong,C=HK
Not Valid Before: Sat Jun 03 02:29:46 2017
Not Valid After : Tue Jun 03 02:29:46 2042
Fingerprint (SHA-256):
5A:2F:C0:3F:0C:83:B0:90:BB:FA:40:60:4B:09:88:44:6C:76:36:18:3D:F9:84:6E:17:10:1A:44:7F:B8:EF:D6
Fingerprint (SHA1): 58:A2:D0:EC:20:52:81:5B:C1:F3:F8:64:02:24:4E:C2:8E:02:4B:02
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Hongkong Post Root CA 3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\130\242\320\354\040\122\201\133\301\363\370\144\002\044\116\302
\216\002\113\002
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\021\374\237\275\163\060\002\212\375\077\363\130\271\313\040\360
END
CKA_ISSUER MULTILINE_OCTAL
\060\157\061\013\060\011\006\003\125\004\006\023\002\110\113\061
\022\060\020\006\003\125\004\010\023\011\110\157\156\147\040\113
\157\156\147\061\022\060\020\006\003\125\004\007\023\011\110\157
\156\147\040\113\157\156\147\061\026\060\024\006\003\125\004\012
\023\015\110\157\156\147\153\157\156\147\040\120\157\163\164\061
\040\060\036\006\003\125\004\003\023\027\110\157\156\147\153\157
\156\147\040\120\157\163\164\040\122\157\157\164\040\103\101\040
\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\010\026\137\212\114\245\354\000\311\223\100\337\304\306
\256\043\270\034\132\244
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Entrust Root Certification Authority - G4"
#

```

```
Issuer: CN=Entrust Root Certification Authority - G4,OU="(c) 2015 Entrust, Inc. - for authorized use
only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US
Serial Number:00:d9:b5:43:7f:af:a9:39:0f:00:00:00:00:55:65:ad:58
Subject: CN=Entrust Root Certification Authority - G4,OU="(c) 2015 Entrust, Inc. - for authorized use
only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US
Not Valid Before: Wed May 27 11:11:16 2015
Not Valid After : Sun Dec 27 11:41:16 2037
Fingerprint (SHA-256):
DB:35:17:D1:F6:73:2A:2D:5A:B9:7C:53:3E:C7:07:79:EE:32:70:A6:2F:B4:AC:42:38:37:24:60:E6:F0:1E:88
Fingerprint (SHA1): 14:88:4E:86:26:37:B0:26:AF:59:62:5C:40:77:EC:35:29:BA:96:01
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Entrust Root Certification Authority - G4"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\276\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\026\060\024\006\003\125\004\012\023\015\105\156\164\162\165
\163\164\054\040\111\156\143\056\061\050\060\046\006\003\125\004
\013\023\037\123\145\145\040\167\167\167\056\145\156\164\162\165
\163\164\056\156\145\164\057\154\145\147\141\154\055\164\145\162
\155\163\061\071\060\067\006\003\125\004\013\023\060\050\143\051
\040\062\060\061\065\040\105\156\164\162\165\163\164\054\040\111
\156\143\056\040\055\040\146\157\162\040\141\165\164\150\157\162
\151\172\145\144\040\165\163\145\040\157\156\154\171\061\062\060
\060\006\003\125\004\003\023\051\105\156\164\162\165\163\164\040
\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164\151
\157\156\040\101\165\164\150\157\162\151\164\171\040\055\040\107
\064
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\276\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\026\060\024\006\003\125\004\012\023\015\105\156\164\162\165
\163\164\054\040\111\156\143\056\061\050\060\046\006\003\125\004
\013\023\037\123\145\145\040\167\167\167\056\145\156\164\162\165
\163\164\056\156\145\164\057\154\145\147\141\154\055\164\145\162
\155\163\061\071\060\067\006\003\125\004\013\023\060\050\143\051
\040\062\060\061\065\040\105\156\164\162\165\163\164\054\040\111
\156\143\056\040\055\040\146\157\162\040\141\165\164\150\157\162
\151\172\145\144\040\165\163\145\040\157\156\154\171\061\062\060
\060\006\003\125\004\003\023\051\105\156\164\162\165\163\164\040
\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164\151
\157\156\040\101\165\164\150\157\162\151\164\171\040\055\040\107
\064
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
```

\002\021\000\331\265\103\177\257\251\071\017\000\000\000\000\125  
\145\255\130

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\006\113\060\202\004\063\240\003\002\001\002\002\021\000  
\331\265\103\177\257\251\071\017\000\000\000\000\125\145\255\130  
\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060  
\201\276\061\013\060\011\006\003\125\004\006\023\002\125\123\061  
\026\060\024\006\003\125\004\012\023\015\105\156\164\162\165\163  
\164\054\040\111\156\143\056\061\050\060\046\006\003\125\004\013  
\023\037\123\145\145\040\167\167\167\056\145\156\164\162\165\163  
\164\056\156\145\164\057\154\145\147\141\154\055\164\145\162\155  
\163\061\071\060\067\006\003\125\004\013\023\060\050\143\051\040  
\062\060\061\065\040\105\156\164\162\165\163\164\054\040\111\156  
\143\056\040\055\040\146\157\162\040\141\165\164\150\157\162\151  
\172\145\144\040\165\163\145\040\157\156\154\171\061\062\060\060  
\006\003\125\004\003\023\051\105\156\164\162\165\163\164\040\122  
\157\157\164\040\103\145\162\164\151\146\151\143\141\164\151\157  
\156\040\101\165\164\150\157\162\151\164\171\040\055\040\107\064  
\060\036\027\015\061\065\060\065\062\067\061\061\061\061\061\066  
\132\027\015\063\067\061\062\062\067\061\061\064\061\061\066\132  
\060\201\276\061\013\060\011\006\003\125\004\006\023\002\125\123  
\061\026\060\024\006\003\125\004\012\023\015\105\156\164\162\165  
\163\164\054\040\111\156\143\056\061\050\060\046\006\003\125\004  
\013\023\037\123\145\145\040\167\167\167\056\145\156\164\162\165  
\163\164\056\156\145\164\057\154\145\147\141\154\055\164\145\162  
\155\163\061\071\060\067\006\003\125\004\013\023\060\050\143\051  
\040\062\060\061\065\040\105\156\164\162\165\163\164\054\040\111  
\156\143\056\040\055\040\146\157\162\040\141\165\164\150\157\162  
\151\172\145\144\040\165\163\145\040\157\156\154\171\061\062\060  
\060\006\003\125\004\003\023\051\105\156\164\162\165\163\164\040  
\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164\151  
\157\156\040\101\165\164\150\157\162\151\164\171\040\055\040\107  
\064\060\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  
\117\350\252\342\240\073\171\315\277\153\103\062\335\331\164\020  
\271\367\364\150\324\273\320\207\325\252\113\212\052\157\052\004  
\265\262\246\307\240\172\346\110\253\322\321\131\314\326\176\043  
\346\227\154\360\102\345\334\121\113\025\101\355\111\112\311\336  
\020\227\326\166\301\357\245\265\066\024\227\065\330\170\042\065  
\122\357\103\275\333\047\333\141\126\202\064\334\313\210\140\014  
\013\132\345\054\001\306\124\257\327\252\301\020\173\322\005\132  
\270\100\236\206\247\303\220\206\002\126\122\011\172\234\322\047

\202\123\112\145\122\152\365\074\347\250\362\234\257\213\275\323  
\016\324\324\136\156\207\236\152\075\105\035\321\135\033\364\351  
\012\254\140\231\373\211\264\377\230\054\317\174\035\351\002\252  
\004\232\036\270\334\210\156\045\263\154\146\367\074\220\363\127  
\301\263\057\365\155\362\373\312\241\370\051\235\106\213\263\152  
\366\346\147\007\276\054\147\012\052\037\132\262\076\127\304\323  
\041\041\143\145\122\221\033\261\231\216\171\176\346\353\215\000  
\331\132\252\352\163\350\244\202\002\107\226\376\133\216\124\141  
\243\353\057\113\060\260\213\043\165\162\174\041\074\310\366\361  
\164\324\034\173\243\005\125\356\273\115\073\062\276\232\167\146  
\236\254\151\220\042\007\037\141\072\226\276\345\232\117\314\005  
\074\050\131\323\301\014\124\250\131\141\275\310\162\114\350\334  
\237\207\177\275\234\110\066\136\225\243\016\271\070\044\125\374  
\165\146\353\002\343\010\064\051\112\306\343\053\057\063\240\332  
\243\206\245\022\227\375\200\053\332\024\102\343\222\275\076\362  
\135\136\147\164\056\034\210\107\051\064\137\342\062\250\234\045  
\067\214\272\230\000\227\213\111\226\036\375\045\212\254\334\332  
\330\135\164\156\146\260\377\104\337\241\030\306\276\110\057\067  
\224\170\370\225\112\077\177\023\136\135\131\375\164\206\103\143  
\163\111\002\003\001\000\001\243\102\060\100\060\017\006\003\125  
\035\023\001\001\377\004\005\060\003\001\001\377\060\016\006\003  
\125\035\017\001\001\377\004\004\003\002\001\006\060\035\006\003  
\125\035\016\004\026\004\024\237\070\304\126\043\303\071\350\240  
\161\154\350\124\114\344\350\072\261\277\147\060\015\006\011\052  
\206\110\206\367\015\001\001\013\005\000\003\202\002\001\000\022  
\345\102\246\173\213\017\014\344\106\245\266\140\100\207\214\045  
\176\255\270\150\056\133\306\100\166\074\003\370\311\131\364\363  
\253\142\316\020\215\264\132\144\214\150\300\260\162\103\064\322  
\033\013\366\054\123\322\312\220\113\206\146\374\252\203\042\364  
\213\032\157\046\110\254\166\167\010\277\305\230\134\364\046\211  
\236\173\303\271\144\062\001\177\323\303\335\130\155\354\261\253  
\204\125\164\167\204\004\047\122\153\206\114\316\335\271\145\377  
\326\306\136\237\232\020\231\113\165\152\376\152\351\227\040\344  
\344\166\172\306\320\044\252\220\315\040\220\272\107\144\373\177  
\007\263\123\170\265\012\142\362\163\103\316\101\053\201\152\056  
\205\026\224\123\324\153\137\162\042\253\121\055\102\325\000\234  
\231\277\336\273\224\073\127\375\232\365\206\313\126\073\133\210  
\001\345\174\050\113\003\371\111\203\174\262\177\174\343\355\216  
\241\177\140\123\216\125\235\120\064\022\017\267\227\173\154\207  
\112\104\347\365\155\354\200\067\360\130\031\156\112\150\166\360  
\037\222\344\352\265\222\323\141\121\020\013\255\247\331\137\307  
\137\334\037\243\134\214\241\176\233\267\236\323\126\157\146\136  
\007\226\040\355\013\164\373\146\116\213\021\025\351\201\111\176  
\157\260\324\120\177\042\327\137\145\002\015\246\364\205\036\330  
\256\006\113\112\247\322\061\146\302\370\316\345\010\246\244\002  
\226\104\150\127\304\325\063\317\031\057\024\304\224\034\173\244  
\331\360\237\016\261\200\342\321\236\021\144\251\210\021\072\166  
\202\345\142\302\200\330\244\203\355\223\357\174\057\220\260\062

```
\114\226\025\150\110\122\324\231\010\300\044\350\034\343\263\245
\041\016\222\300\220\037\317\040\137\312\073\070\307\267\155\072
\363\346\104\270\016\061\153\210\216\160\353\234\027\122\250\101
\224\056\207\266\347\246\022\305\165\337\133\300\012\156\173\244
\344\136\206\371\066\224\337\167\303\351\015\300\071\361\171\273
\106\216\253\103\131\047\267\040\273\043\351\126\100\041\354\061
\075\145\252\103\362\075\337\160\104\341\272\115\046\020\073\230
\237\363\310\216\033\070\126\041\152\121\223\323\221\312\106\332
\211\267\075\123\203\054\010\037\213\217\123\335\377\254\037
```

END

CKA\_NSS\_MOZILLA\_CA\_POLICY CK\_BBOOL CK\_TRUE

# Trust for "Entrust Root Certification Authority - G4"

# Issuer: CN=Entrust Root Certification Authority - G4,OU="(c) 2015 Entrust, Inc. - for authorized use only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US

# Serial Number:00:d9:b5:43:7f:af:a9:39:0f:00:00:00:00:55:65:ad:58

# Subject: CN=Entrust Root Certification Authority - G4,OU="(c) 2015 Entrust, Inc. - for authorized use only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US

# Not Valid Before: Wed May 27 11:11:16 2015

# Not Valid After : Sun Dec 27 11:41:16 2037

# Fingerprint (SHA-256):

DB:35:17:D1:F6:73:2A:2D:5A:B9:7C:53:3E:C7:07:79:EE:32:70:A6:2F:B4:AC:42:38:37:24:60:E6:F0:1E:88

# Fingerprint (SHA1): 14:88:4E:86:26:37:B0:26:AF:59:62:5C:40:77:EC:35:29:BA:96:01

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "Entrust Root Certification Authority - G4"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

```
\024\210\116\206\046\067\260\046\257\131\142\134\100\167\354\065
\051\272\226\001
```

END

CKA\_CERT\_MD5\_HASH MULTILINE\_OCTAL

```
\211\123\361\203\043\267\174\216\005\361\214\161\070\116\037\210
```

END

CKA\_ISSUER MULTILINE\_OCTAL

```
\060\201\276\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\026\060\024\006\003\125\004\012\023\015\105\156\164\162\165
\163\164\054\040\111\156\143\056\061\050\060\046\006\003\125\004
\013\023\037\123\145\145\040\167\167\167\056\145\156\164\162\165
\163\164\056\156\145\164\057\154\145\147\141\154\055\164\145\162
\155\163\061\071\060\067\006\003\125\004\013\023\060\050\143\051
\040\062\060\061\065\040\105\156\164\162\165\163\164\054\040\111
\156\143\056\040\055\040\146\157\162\040\141\165\164\150\157\162
\151\172\145\144\040\165\163\145\040\157\156\154\171\061\062\060
\060\006\003\125\004\003\023\051\105\156\164\162\165\163\164\040
\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164\151
\157\156\040\101\165\164\150\157\162\151\164\171\040\055\040\107
```

```

\064
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\021\000\331\265\103\177\257\251\071\017\000\000\000\125
\145\255\130
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Microsoft ECC Root Certificate Authority 2017"
#
Issuer: CN=Microsoft ECC Root Certificate Authority 2017,O=Microsoft Corporation,C=US
Serial Number:66:f2:3d:af:87:de:8b:b1:4a:ea:0c:57:31:01:c2:ec
Subject: CN=Microsoft ECC Root Certificate Authority 2017,O=Microsoft Corporation,C=US
Not Valid Before: Wed Dec 18 23:06:45 2019
Not Valid After : Fri Jul 18 23:16:04 2042
Fingerprint (SHA-256):
35:8D:F3:9D:76:4A:F9:E1:B7:66:E9:C9:72:DF:35:2E:E1:5C:FA:C2:27:AF:6A:D1:D7:0E:8E:4A:6E:DC:BA:02
Fingerprint (SHA1): 99:9A:64:C3:7F:F4:7D:9F:AB:95:F1:47:69:89:14:60:EE:C4:C3:C5
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Microsoft ECC Root Certificate Authority 2017"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\145\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\036\060\034\006\003\125\004\012\023\025\115\151\143\162\157\163
\157\146\164\040\103\157\162\160\157\162\141\164\151\157\156\061
\066\060\064\006\003\125\004\003\023\055\115\151\143\162\157\163
\157\146\164\040\105\103\103\040\122\157\157\164\040\103\145\162
\164\151\146\151\143\141\164\145\040\101\165\164\150\157\162\151
\164\171\040\062\060\061\067
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\145\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\036\060\034\006\003\125\004\012\023\025\115\151\143\162\157\163
\157\146\164\040\103\157\162\160\157\162\141\164\151\157\156\061
\066\060\064\006\003\125\004\003\023\055\115\151\143\162\157\163
\157\146\164\040\105\103\103\040\122\157\157\164\040\103\145\162
\164\151\146\151\143\141\164\145\040\101\165\164\150\157\162\151
\164\171\040\062\060\061\067
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL

```

\002\020\146\362\075\257\207\336\213\261\112\352\014\127\061\001  
\302\354

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\002\131\060\202\001\337\240\003\002\001\002\002\020\146  
\362\075\257\207\336\213\261\112\352\014\127\061\001\302\354\060  
\012\006\010\052\206\110\316\075\004\003\003\060\145\061\013\060  
\011\006\003\125\004\006\023\002\125\123\061\036\060\034\006\003  
\125\004\012\023\025\115\151\143\162\157\163\157\146\164\040\103  
\157\162\160\157\162\141\164\151\157\156\061\066\060\064\006\003  
\125\004\003\023\055\115\151\143\162\157\163\157\146\164\040\105  
\103\103\040\122\157\157\164\040\103\145\162\164\151\146\151\143  
\141\164\145\040\101\165\164\150\157\162\151\164\171\040\062\060  
\061\067\060\036\027\015\061\071\061\062\061\070\062\063\060\066  
\064\065\132\027\015\064\062\060\067\061\070\062\063\061\066\060  
\064\132\060\145\061\013\060\011\006\003\125\004\006\023\002\125  
\123\061\036\060\034\006\003\125\004\012\023\025\115\151\143\162  
\157\163\157\146\164\040\103\157\162\160\157\162\141\164\151\157  
\156\061\066\060\064\006\003\125\004\003\023\055\115\151\143\162  
\157\163\157\146\164\040\105\103\103\040\122\157\157\164\040\103  
\145\162\164\151\146\151\143\141\164\145\040\101\165\164\150\157  
\162\151\164\171\040\062\060\061\067\060\166\060\020\006\007\052  
\206\110\316\075\002\001\006\005\053\201\004\000\042\003\142\000  
\004\324\274\075\002\102\165\101\023\043\315\200\004\206\002\121  
\057\152\250\201\142\013\145\314\366\312\235\036\157\112\146\121  
\242\003\331\235\221\372\266\026\261\214\156\336\174\315\333\171  
\246\057\316\273\316\161\057\345\245\253\050\354\143\004\146\231  
\370\372\362\223\020\005\341\201\050\102\343\306\150\364\346\033  
\204\140\112\211\257\355\171\017\073\316\361\366\104\365\001\170  
\300\243\124\060\122\060\016\006\003\125\035\017\001\001\377\004  
\004\003\002\001\206\060\017\006\003\125\035\023\001\001\377\004  
\005\060\003\001\001\377\060\035\006\003\125\035\016\004\026\004  
\024\310\313\231\162\160\122\014\370\346\276\262\004\127\051\052  
\317\102\020\355\065\060\020\006\011\053\006\001\004\001\202\067  
\025\001\004\003\002\001\000\060\012\006\010\052\206\110\316\075  
\004\003\003\003\150\000\060\145\002\060\130\362\115\352\014\371  
\137\136\356\140\051\313\072\362\333\326\062\204\031\077\174\325  
\057\302\261\314\223\256\120\273\011\062\306\306\355\176\311\066  
\224\022\344\150\205\006\242\033\320\057\002\061\000\231\351\026  
\264\016\372\126\110\324\244\060\026\221\170\333\124\214\145\001  
\212\347\120\146\302\061\267\071\272\270\032\042\007\116\374\153  
\124\026\040\377\053\265\347\114\014\115\246\117\163

END

CKA\_NSS\_MOZILLA\_CA\_POLICY CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "Microsoft ECC Root Certificate Authority 2017"



```

Issuer: CN=Microsoft ECC Root Certificate Authority 2017,O=Microsoft Corporation,C=US
Serial Number:66:f2:3d:af:87:de:8b:b1:4a:ea:0c:57:31:01:c2:ec
Subject: CN=Microsoft ECC Root Certificate Authority 2017,O=Microsoft Corporation,C=US
Not Valid Before: Wed Dec 18 23:06:45 2019
Not Valid After : Fri Jul 18 23:16:04 2042
Fingerprint (SHA-256):
35:8D:F3:9D:76:4A:F9:E1:B7:66:E9:C9:72:DF:35:2E:E1:5C:FA:C2:27:AF:6A:D1:D7:0E:8E:4A:6E:DC:BA:02
Fingerprint (SHA1): 99:9A:64:C3:7F:F4:7D:9F:AB:95:F1:47:69:89:14:60:EE:C4:C3:C5
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Microsoft ECC Root Certificate Authority 2017"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\231\232\144\303\177\364\175\237\253\225\361\107\151\211\024\140
\356\304\303\305
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\335\241\003\346\112\223\020\321\277\360\031\102\313\376\355\147
END
CKA_ISSUER MULTILINE_OCTAL
\060\145\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\036\060\034\006\003\125\004\012\023\025\115\151\143\162\157\163
\157\146\164\040\103\157\162\160\157\162\141\164\151\157\156\061
\066\060\064\006\003\125\004\003\023\055\115\151\143\162\157\163
\157\146\164\040\105\103\103\040\122\157\157\164\040\103\145\162
\164\151\146\151\143\141\164\145\040\101\165\164\150\157\162\151
\164\171\040\062\060\061\067
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\146\362\075\257\207\336\213\261\112\352\014\127\061\001
\302\354
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Microsoft RSA Root Certificate Authority 2017"
#
Issuer: CN=Microsoft RSA Root Certificate Authority 2017,O=Microsoft Corporation,C=US
Serial Number:1e:d3:97:09:5f:d8:b4:b3:47:70:1e:aa:be:7f:45:b3
Subject: CN=Microsoft RSA Root Certificate Authority 2017,O=Microsoft Corporation,C=US
Not Valid Before: Wed Dec 18 22:51:22 2019
Not Valid After : Fri Jul 18 23:00:23 2042
Fingerprint (SHA-256):
C7:41:F7:0F:4B:2A:8D:88:BF:2E:71:C1:41:22:EF:53:EF:10:EB:A0:CF:A5:E6:4C:FA:20:F4:18:85:30:73:E0

```

# Fingerprint (SHA1): 73:A5:E6:4A:3B:FF:83:16:FF:0E:DC:CC:61:8A:90:6E:4E:AE:4D:74

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_CERTIFICATE

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "Microsoft RSA Root Certificate Authority 2017"

CKA\_CERTIFICATE\_TYPE CK\_CERTIFICATE\_TYPE CKC\_X\_509

CKA\_SUBJECT MULTILINE\_OCTAL

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

END

CKA\_ID UTF8 "0"

CKA\_ISSUER MULTILINE\_OCTAL

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

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

\002\020\036\323\227\011\137\330\264\263\107\160\036\252\276\177  
\105\263

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\005\250\060\202\003\220\240\003\002\001\002\002\020\036  
\323\227\011\137\330\264\263\107\160\036\252\276\177\105\263\060  
\015\006\011\052\206\110\206\367\015\001\001\014\005\000\060\145  
\061\013\060\011\006\003\125\004\006\023\002\125\123\061\036\060  
\034\006\003\125\004\012\023\025\115\151\143\162\157\163\157\146  
\164\040\103\157\162\160\157\162\141\164\151\157\156\061\066\060  
\064\006\003\125\004\003\023\055\115\151\143\162\157\163\157\146  
\164\040\122\123\101\040\122\157\157\164\040\103\145\162\164\151  
\146\151\143\141\164\145\040\101\165\164\150\157\162\151\164\171  
\040\062\060\061\067\060\036\027\015\061\071\061\062\061\070\062  
\062\065\061\062\062\132\027\015\064\062\060\067\061\070\062\063  
\060\060\062\063\132\060\145\061\013\060\011\006\003\125\004\006  
\023\002\125\123\061\036\060\034\006\003\125\004\012\023\025\115  
\151\143\162\157\163\157\146\164\040\103\157\162\160\157\162\141  
\164\151\157\156\061\066\060\064\006\003\125\004\003\023\055\115  
\151\143\162\157\163\157\146\164\040\122\123\101\040\122\157\157  
\164\040\103\145\162\164\151\146\151\143\141\164\145\040\101\165

\164\150\157\162\151\164\171\040\062\060\061\067\060\202\002\042  
\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003  
\202\002\017\000\060\202\002\012\002\202\002\001\000\312\133\276  
\224\063\214\051\225\221\026\012\225\275\107\142\301\211\363\231  
\066\337\106\220\311\245\355\170\152\157\107\221\150\370\047\147  
\120\063\035\241\246\373\340\345\103\243\204\002\127\001\135\234  
\110\100\202\123\020\274\277\307\073\150\220\266\202\055\345\364  
\145\320\314\155\031\314\225\371\173\254\112\224\255\016\336\113  
\103\035\207\007\222\023\220\200\203\144\065\071\004\374\345\351  
\154\263\266\037\120\224\070\145\120\134\027\106\271\266\205\265  
\034\265\027\350\326\105\235\330\262\046\260\312\304\160\112\256  
\140\244\335\263\331\354\374\073\325\127\162\274\077\310\311\262  
\336\113\153\370\043\154\003\300\005\275\225\307\315\163\073\146  
\200\144\343\032\254\056\371\107\005\362\006\266\233\163\365\170  
\063\133\307\241\373\047\052\241\264\232\221\214\221\323\072\202  
\076\166\100\264\315\122\141\121\160\050\077\305\305\132\362\311  
\214\111\273\024\133\115\310\377\147\115\114\022\226\255\365\376  
\170\250\227\207\327\375\136\040\200\334\241\113\042\373\324\211  
\255\272\316\107\227\107\125\173\217\105\310\147\050\204\225\034  
\150\060\357\357\111\340\065\173\144\347\230\260\224\332\115\205  
\073\076\125\304\050\257\127\363\236\023\333\106\047\237\036\242  
\136\104\203\244\245\312\325\023\263\113\077\304\343\302\346\206  
\141\244\122\060\271\172\040\117\157\017\070\123\313\063\014\023  
\053\217\326\232\275\052\310\055\261\034\175\113\121\312\107\321  
\110\047\162\135\207\353\325\105\346\110\145\235\257\122\220\272  
\133\242\030\145\127\022\237\150\271\324\025\153\224\304\151\042  
\230\364\063\340\355\371\121\216\101\120\311\064\117\166\220\254  
\374\070\301\330\341\173\271\343\343\224\341\106\151\313\016\012  
\120\153\023\272\254\017\067\132\267\022\265\220\201\036\126\256  
\127\042\206\331\311\322\321\327\121\343\253\073\306\125\375\036  
\016\323\164\012\321\332\252\352\151\270\227\050\217\110\304\007  
\370\122\103\072\364\312\125\065\054\260\246\152\300\234\371\362  
\201\341\022\152\300\105\331\147\263\316\377\043\242\211\012\124  
\324\024\271\052\250\327\354\371\253\315\045\130\062\171\217\220  
\133\230\071\304\010\006\301\254\177\016\075\000\245\002\003\001  
\000\001\243\124\060\122\060\016\006\003\125\035\017\001\001\377  
\004\004\003\002\001\206\060\017\006\003\125\035\023\001\001\377  
\004\005\060\003\001\001\377\060\035\006\003\125\035\016\004\026  
\004\024\011\313\131\177\206\262\160\217\032\303\071\343\300\331  
\351\277\273\115\262\043\060\020\006\011\053\006\001\004\001\202  
\067\025\001\004\003\002\001\000\060\015\006\011\052\206\110\206  
\367\015\001\001\014\005\000\003\202\002\001\000\254\257\076\135  
\302\021\226\211\216\243\347\222\326\227\025\270\023\242\246\102  
\056\002\315\026\005\131\047\312\040\350\272\270\350\032\354\115  
\250\227\126\256\145\103\261\217\000\233\122\315\125\315\123\071  
\155\142\114\213\015\133\174\056\104\277\203\020\217\363\123\202  
\200\303\117\072\307\156\021\077\346\343\026\221\204\373\155\204  
\177\064\164\255\211\247\316\271\327\327\237\204\144\222\276\225

\241\255\011\123\063\335\356\012\352\112\121\216\157\125\253\272  
\265\224\106\256\214\177\330\242\120\045\145\140\200\106\333\063  
\004\256\154\265\230\164\124\045\334\223\344\370\343\125\025\075  
\270\155\303\012\244\022\301\151\205\156\337\144\361\123\231\341  
\112\165\040\235\225\017\344\326\334\003\361\131\030\350\107\211  
\262\127\132\224\266\251\330\027\053\027\111\345\166\313\301\126  
\231\072\067\261\377\151\054\221\221\223\341\337\114\243\067\166  
\115\241\237\370\155\036\035\323\372\354\373\364\105\035\023\155  
\317\367\131\345\042\047\162\053\206\363\127\273\060\355\044\115  
\334\175\126\273\243\263\370\064\171\211\301\340\362\002\141\367  
\246\374\017\273\034\027\013\256\101\331\174\275\047\243\375\056  
\072\321\223\224\261\163\035\044\213\257\133\040\211\255\267\147  
\146\171\365\072\306\246\226\063\376\123\222\310\106\261\021\221  
\306\231\177\217\311\326\146\061\040\101\020\207\055\014\326\301  
\257\064\230\312\144\203\373\023\127\321\301\360\074\172\214\245  
\301\375\225\041\240\161\301\223\147\161\022\352\217\210\012\151  
\031\144\231\043\126\373\254\052\056\160\276\146\304\014\204\357  
\345\213\363\223\001\370\152\220\223\147\113\262\150\243\265\142  
\217\351\077\214\172\073\136\017\347\214\270\306\174\357\067\375  
\164\342\310\117\063\162\341\224\071\155\275\022\257\276\014\116  
\160\174\033\157\215\263\062\223\163\104\026\155\350\364\367\340  
\225\200\217\226\135\070\244\364\253\336\012\060\207\223\330\115  
\000\161\142\105\047\113\072\102\204\133\177\145\267\147\064\122  
\055\234\026\153\252\250\330\173\243\102\114\161\307\014\312\076  
\203\344\246\357\267\001\060\136\121\243\171\365\160\151\246\101  
\104\017\206\260\054\221\306\075\352\256\017\204

END

CKA\_NSS\_MOZILLA\_CA\_POLICY CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "Microsoft RSA Root Certificate Authority 2017"

# Issuer: CN=Microsoft RSA Root Certificate Authority 2017,O=Microsoft Corporation,C=US

# Serial Number: 1e:d3:97:09:5f:d8:b4:b3:47:70:1e:aa:be:7f:45:b3

# Subject: CN=Microsoft RSA Root Certificate Authority 2017,O=Microsoft Corporation,C=US

# Not Valid Before: Wed Dec 18 22:51:22 2019

# Not Valid After : Fri Jul 18 23:00:23 2042

# Fingerprint (SHA-256):

C7:41:F7:0F:4B:2A:8D:88:BF:2E:71:C1:41:22:EF:53:EF:10:EB:A0:CF:A5:E6:4C:FA:20:F4:18:85:30:73:E0

# Fingerprint (SHA1): 73:A5:E6:4A:3B:FF:83:16:FF:0E:DC:CC:61:8A:90:6E:4E:AE:4D:74

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "Microsoft RSA Root Certificate Authority 2017"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

\163\245\346\112\073\377\203\026\377\016\334\314\141\212\220\156

\116\256\115\164

```

END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\020\377\000\377\317\311\370\307\172\300\356\065\216\311\017\107
END
CKA_ISSUER MULTILINE_OCTAL
\060\145\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\036\060\034\006\003\125\004\012\023\025\115\151\143\162\157\163
\157\146\164\040\103\157\162\160\157\162\141\164\151\157\156\061
\066\060\064\006\003\125\004\003\023\055\115\151\143\162\157\163
\157\146\164\040\122\123\101\040\122\157\157\164\040\103\145\162
\164\151\146\151\143\141\164\145\040\101\165\164\150\157\162\151
\164\171\040\062\060\061\067
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\036\323\227\011\137\330\264\263\107\160\036\252\276\177
\105\263
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "e-Szigno Root CA 2017"
#
Issuer: CN=e-Szigno Root CA 2017,OID.2.5.4.97=VATHU-23584497,O=Microsec Ltd.,L=Budapest,C=HU
Serial Number:01:54:48:ef:21:fd:97:59:0d:f5:04:0a
Subject: CN=e-Szigno Root CA 2017,OID.2.5.4.97=VATHU-23584497,O=Microsec Ltd.,L=Budapest,C=HU
Not Valid Before: Tue Aug 22 12:07:06 2017
Not Valid After : Fri Aug 22 12:07:06 2042
Fingerprint (SHA-256):
BE:B0:0B:30:83:9B:9B:C3:2C:32:E4:44:79:05:95:06:41:F2:64:21:B1:5E:D0:89:19:8B:51:8A:E2:EA:1B:99
Fingerprint (SHA1): 89:D4:83:03:4F:9E:9A:48:80:5F:72:37:D4:A9:A6:EF:CB:7C:1F:D1
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "e-Szigno Root CA 2017"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\161\061\013\060\011\006\003\125\004\006\023\002\110\125\061
\021\060\017\006\003\125\004\007\014\010\102\165\144\141\160\145
\163\164\061\026\060\024\006\003\125\004\012\014\015\115\151\143
\162\157\163\145\143\040\114\164\144\056\061\027\060\025\006\003
\125\004\141\014\016\126\101\124\110\125\055\062\063\065\070\064
\064\071\067\061\036\060\034\006\003\125\004\003\014\025\145\055
\123\172\151\147\156\157\040\122\157\157\164\040\103\101\040\062
\060\061\067

```

END

CKA\_ID UTF8 "0"

CKA\_ISSUER MULTILINE\_OCTAL

\060\161\061\013\060\011\006\003\125\004\006\023\002\110\125\061  
\021\060\017\006\003\125\004\007\014\010\102\165\144\141\160\145  
\163\164\061\026\060\024\006\003\125\004\012\014\015\115\151\143  
\162\157\163\145\143\040\114\164\144\056\061\027\060\025\006\003  
\125\004\141\014\016\126\101\124\110\125\055\062\063\065\070\064  
\064\071\067\061\036\060\034\006\003\125\004\003\014\025\145\055  
\123\172\151\147\156\157\040\122\157\157\164\040\103\101\040\062  
\060\061\067

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

\002\014\001\124\110\357\041\375\227\131\015\365\004\012

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\002\100\060\202\001\345\240\003\002\001\002\002\014\001  
\124\110\357\041\375\227\131\015\365\004\012\060\012\006\010\052  
\206\110\316\075\004\003\002\060\161\061\013\060\011\006\003\125  
\004\006\023\002\110\125\061\021\060\017\006\003\125\004\007\014  
\010\102\165\144\141\160\145\163\164\061\026\060\024\006\003\125  
\004\012\014\015\115\151\143\162\157\163\145\143\040\114\164\144  
\056\061\027\060\025\006\003\125\004\141\014\016\126\101\124\110  
\125\055\062\063\065\070\064\064\071\067\061\036\060\034\006\003  
\125\004\003\014\025\145\055\123\172\151\147\156\157\040\122\157  
\157\164\040\103\101\040\062\060\061\067\060\036\027\015\061\067  
\060\070\062\062\061\062\060\067\060\066\132\027\015\064\062\060  
\070\062\062\061\062\060\067\060\066\132\060\161\061\013\060\011  
\006\003\125\004\006\023\002\110\125\061\021\060\017\006\003\125  
\004\007\014\010\102\165\144\141\160\145\163\164\061\026\060\024  
\006\003\125\004\012\014\015\115\151\143\162\157\163\145\143\040  
\114\164\144\056\061\027\060\025\006\003\125\004\141\014\016\126  
\101\124\110\125\055\062\063\065\070\064\064\071\067\061\036\060  
\034\006\003\125\004\003\014\025\145\055\123\172\151\147\156\157  
\040\122\157\157\164\040\103\101\040\062\060\061\067\060\131\060  
\023\006\007\052\206\110\316\075\002\001\006\010\052\206\110\316  
\075\003\001\007\003\102\000\004\226\334\075\212\330\260\173\157  
\306\047\276\104\220\261\263\126\025\173\216\103\044\175\032\204  
\131\356\143\150\262\306\136\207\320\025\110\036\250\220\255\275  
\123\242\332\336\072\220\246\140\137\150\062\265\206\101\337\207  
\133\054\173\305\376\174\172\332\243\143\060\141\060\017\006\003  
\125\035\023\001\001\377\004\005\060\003\001\001\377\060\016\006  
\003\125\035\017\001\001\377\004\004\003\002\001\006\060\035\006  
\003\125\035\016\004\026\004\024\207\021\025\010\321\252\301\170  
\014\261\257\316\306\311\220\357\277\060\004\300\060\037\006\003  
\125\035\043\004\030\060\026\200\024\207\021\025\010\321\252\301  
\170\014\261\257\316\306\311\220\357\277\060\004\300\060\012\006  
\010\052\206\110\316\075\004\003\002\003\111\000\060\106\002\041

```
\000\265\127\335\327\212\125\013\066\341\206\104\372\324\331\150
\215\270\334\043\212\212\015\324\057\175\352\163\354\277\115\154
\250\002\041\000\313\245\264\022\372\347\265\350\317\176\223\374
\363\065\217\157\116\132\174\264\274\116\262\374\162\252\133\131
\371\347\334\061
```

END

```
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRICT_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRICT_AFTER CK_BBOOL CK_FALSE
```

# Trust for "e-Szigno Root CA 2017"

# Issuer: CN=e-Szigno Root CA 2017,OID.2.5.4.97=VATHU-23584497,O=Microsec Ltd.,L=Budapest,C=HU

# Serial Number:01:54:48:ef:21:fd:97:59:0d:f5:04:0a

# Subject: CN=e-Szigno Root CA 2017,OID.2.5.4.97=VATHU-23584497,O=Microsec Ltd.,L=Budapest,C=HU

# Not Valid Before: Tue Aug 22 12:07:06 2017

# Not Valid After : Fri Aug 22 12:07:06 2042

# Fingerprint (SHA-256):

BE:B0:0B:30:83:9B:9B:C3:2C:32:E4:44:79:05:95:06:41:F2:64:21:B1:5E:D0:89:19:8B:51:8A:E2:EA:1B:99

# Fingerprint (SHA1): 89:D4:83:03:4F:9E:9A:48:80:5F:72:37:D4:A9:A6:EF:CB:7C:1F:D1

```
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
```

```
CKA_TOKEN CK_BBOOL CK_TRUE
```

```
CKA_PRIVATE CK_BBOOL CK_FALSE
```

```
CKA_MODIFIABLE CK_BBOOL CK_FALSE
```

```
CKA_LABEL UTF8 "e-Szigno Root CA 2017"
```

```
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
```

```
\211\324\203\003\117\236\232\110\200\137\162\067\324\251\246\357
\313\174\037\321
```

END

```
CKA_CERT_MD5_HASH MULTILINE_OCTAL
```

```
\336\037\366\236\204\256\247\264\041\316\036\130\175\321\204\230
```

END

```
CKA_ISSUER MULTILINE_OCTAL
```

```
\060\161\061\013\060\011\006\003\125\004\006\023\002\110\125\061
\021\060\017\006\003\125\004\007\014\010\102\165\144\141\160\145
\163\164\061\026\060\024\006\003\125\004\012\014\015\115\151\143
\162\157\163\145\143\040\114\164\144\056\061\027\060\025\006\003
\125\004\141\014\016\126\101\124\110\125\055\062\063\065\070\064
\064\071\067\061\036\060\034\006\003\125\004\003\014\025\145\055
\123\172\151\147\156\157\040\122\157\157\164\040\103\101\040\062
\060\061\067
```

END

```
CKA_SERIAL_NUMBER MULTILINE_OCTAL
```

```
\002\014\001\124\110\357\041\375\227\131\015\365\004\012
```

END

```
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
```

```
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
```

```
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
```

```
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
```

```

#
Certificate "certSIGN Root CA G2"
#
Issuer: OU=certSIGN ROOT CA G2,O=CERTSIGN SA,C=RO
Serial Number:11:00:34:b6:4e:c6:36:2d:36
Subject: OU=certSIGN ROOT CA G2,O=CERTSIGN SA,C=RO
Not Valid Before: Mon Feb 06 09:27:35 2017
Not Valid After : Thu Feb 06 09:27:35 2042
Fingerprint (SHA-256):
65:7C:FE:2F:A7:3F:AA:38:46:25:71:F3:32:A2:36:3A:46:FC:E7:02:09:51:71:07:02:CD:FB:B6:EE:DA:33:05
Fingerprint (SHA1): 26:F9:93:B4:ED:3D:28:27:B0:B9:4B:A7:E9:15:1D:A3:8D:92:E5:32
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "certSIGN Root CA G2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\101\061\013\060\011\006\003\125\004\006\023\002\122\117\061
\024\060\022\006\003\125\004\012\023\013\103\105\122\124\123\111
\107\116\040\123\101\061\034\060\032\006\003\125\004\013\023\023
\143\145\162\164\123\111\107\116\040\122\117\117\124\040\103\101
\040\107\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\101\061\013\060\011\006\003\125\004\006\023\002\122\117\061
\024\060\022\006\003\125\004\012\023\013\103\105\122\124\123\111
\107\116\040\123\101\061\034\060\032\006\003\125\004\013\023\023
\143\145\162\164\123\111\107\116\040\122\117\117\124\040\103\101
\040\107\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\011\021\000\064\266\116\306\066\055\066
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\107\060\202\003\057\240\003\002\001\002\002\011\021
\000\064\266\116\306\066\055\066\060\015\006\011\052\206\110\206
\367\015\001\001\013\005\000\060\101\061\013\060\011\006\003\125
\004\006\023\002\122\117\061\024\060\022\006\003\125\004\012\023
\013\103\105\122\124\123\111\107\116\040\123\101\061\034\060\032
\006\003\125\004\013\023\023\143\145\162\164\123\111\107\116\040
\122\117\117\124\040\103\101\040\107\062\060\036\027\015\061\067
\060\062\060\066\060\071\062\067\063\065\132\027\015\064\062\060
\062\060\066\060\071\062\067\063\065\132\060\101\061\013\060\011
\006\003\125\004\006\023\002\122\117\061\024\060\022\006\003\125
\004\012\023\013\103\105\122\124\123\111\107\116\040\123\101\061

```



\034\060\032\006\003\125\004\013\023\023\143\145\162\164\123\111  
\107\116\040\122\117\117\124\040\103\101\040\107\062\060\202\002  
\042\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000  
\003\202\002\017\000\060\202\002\012\002\202\002\001\000\300\305  
\165\031\221\175\104\164\164\207\376\016\073\226\334\330\001\026  
\314\356\143\221\347\013\157\316\073\012\151\032\174\302\343\257  
\202\216\206\327\136\217\127\353\323\041\131\375\071\067\102\060  
\276\120\352\266\017\251\210\330\056\055\151\041\347\321\067\030  
\116\175\221\325\026\137\153\133\000\302\071\103\015\066\205\122  
\271\123\145\017\035\102\345\217\317\005\323\356\334\014\032\331  
\270\213\170\042\147\344\151\260\150\305\074\344\154\132\106\347  
\315\307\372\357\304\354\113\275\152\244\254\375\314\050\121\357  
\222\264\051\253\253\065\232\114\344\304\010\306\046\314\370\151  
\237\344\234\360\051\323\134\371\306\026\045\236\043\303\040\301  
\075\017\077\070\100\260\376\202\104\070\252\132\032\212\153\143  
\130\070\264\025\323\266\021\151\173\036\124\356\214\032\042\254  
\162\227\077\043\131\233\311\042\204\301\007\117\314\177\342\127  
\312\022\160\273\246\145\363\151\165\143\275\225\373\033\227\315  
\344\250\257\366\321\116\250\331\212\161\044\315\066\075\274\226  
\304\361\154\251\256\345\317\015\156\050\015\260\016\265\312\121  
\173\170\024\303\040\057\177\373\024\125\341\021\231\375\325\012  
\241\236\002\343\142\137\353\065\113\054\270\162\350\076\075\117  
\254\054\273\056\206\342\243\166\217\345\223\052\317\245\253\310  
\134\215\113\006\377\022\106\254\170\313\024\007\065\340\251\337  
\213\351\257\025\117\026\211\133\275\366\215\306\131\256\210\205  
\016\301\211\353\037\147\305\105\216\377\155\067\066\053\170\146  
\203\221\121\053\075\377\121\167\166\142\241\354\147\076\076\201  
\203\340\126\251\120\037\037\172\231\253\143\277\204\027\167\361  
\015\073\337\367\234\141\263\065\230\212\072\262\354\074\032\067  
\077\176\217\222\317\331\022\024\144\332\020\002\025\101\377\117  
\304\353\034\243\311\372\231\367\106\351\341\030\331\261\270\062  
\055\313\024\014\120\330\203\145\203\356\271\134\317\313\005\132  
\114\372\031\227\153\326\135\023\323\302\134\124\274\062\163\240  
\170\365\361\155\036\313\237\245\246\237\042\334\321\121\236\202  
\171\144\140\051\023\076\243\375\117\162\152\253\342\324\345\270  
\044\125\054\104\113\212\210\104\234\312\204\323\052\073\002\003  
\001\000\001\243\102\060\100\060\017\006\003\125\035\023\001\001  
\377\004\005\060\003\001\001\377\060\016\006\003\125\035\017\001  
\001\377\004\004\003\002\001\006\060\035\006\003\125\035\016\004  
\026\004\024\202\041\055\146\306\327\240\340\025\353\316\114\011  
\167\304\140\236\124\156\003\060\015\006\011\052\206\110\206\367  
\015\001\001\013\005\000\003\202\002\001\000\140\336\032\270\347  
\362\140\202\325\003\063\201\313\006\212\361\042\111\351\350\352  
\221\177\306\063\136\150\031\003\206\073\103\001\317\007\160\344  
\010\036\145\205\221\346\021\042\267\365\002\043\216\256\271\036  
\175\037\176\154\346\275\045\325\225\032\362\005\246\257\205\002  
\157\256\370\326\061\377\045\311\112\310\307\212\251\331\237\113  
\111\233\021\127\231\222\103\021\336\266\063\244\314\327\215\144

\175\324\315\074\050\054\264\232\226\352\115\365\304\104\304\045  
\252\040\200\330\051\125\367\340\101\374\006\046\377\271\066\365  
\103\024\003\146\170\341\021\261\332\040\137\106\000\170\000\041  
\245\036\000\050\141\170\157\250\001\001\217\235\064\232\377\364  
\070\220\373\270\321\263\162\006\311\161\346\201\305\171\355\013  
\246\171\362\023\013\234\367\135\016\173\044\223\264\110\333\206  
\137\336\120\206\170\347\100\346\061\250\220\166\160\141\257\234  
\067\054\021\265\202\267\252\256\044\064\133\162\014\151\015\315  
\131\237\366\161\257\234\013\321\012\070\371\006\042\203\123\045  
\014\374\121\304\346\276\342\071\225\013\044\255\257\321\225\344  
\226\327\164\144\153\161\116\002\074\252\205\363\040\243\103\071  
\166\133\154\120\376\232\234\024\036\145\024\212\025\275\243\202  
\105\132\111\126\152\322\234\261\143\062\345\141\340\123\042\016  
\247\012\111\352\313\176\037\250\342\142\200\366\020\105\122\230  
\006\030\336\245\315\057\177\252\324\351\076\010\162\354\043\003  
\002\074\246\252\330\274\147\164\075\024\027\373\124\113\027\343  
\323\171\075\155\153\111\311\050\016\056\164\120\277\014\331\106  
\072\020\206\311\247\077\351\240\354\177\353\245\167\130\151\161  
\346\203\012\067\362\206\111\152\276\171\010\220\366\002\026\144  
\076\345\332\114\176\014\064\311\371\137\266\263\050\121\247\247  
\053\252\111\372\215\145\051\116\343\153\023\247\224\243\055\121  
\155\170\014\104\313\337\336\010\157\316\243\144\253\323\225\204  
\324\271\122\124\162\173\226\045\314\274\151\343\110\156\015\320  
\307\235\047\232\252\370\023\222\335\036\337\143\237\065\251\026  
\066\354\214\270\203\364\075\211\217\315\264\027\136\327\263\027  
\101\020\135\047\163\140\205\127\111\042\007

END

CKA\_NSS\_MOZILLA\_CA\_POLICY CK\_BBOOL CK\_TRUE  
CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE  
CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "certSIGN Root CA G2"

# Issuer: OU=certSIGN ROOT CA G2,O=CERTSIGN SA,C=RO

# Serial Number:11:00:34:b6:4e:c6:36:2d:36

# Subject: OU=certSIGN ROOT CA G2,O=CERTSIGN SA,C=RO

# Not Valid Before: Mon Feb 06 09:27:35 2017

# Not Valid After : Thu Feb 06 09:27:35 2042

# Fingerprint (SHA-256):

65:7C:FE:2F:A7:3F:AA:38:46:25:71:F3:32:A2:36:3A:46:FC:E7:02:09:51:71:07:02:CD:FB:B6:EE:DA:33:05

# Fingerprint (SHA1): 26:F9:93:B4:ED:3D:28:27:B0:B9:4B:A7:E9:15:1D:A3:8D:92:E5:32

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "certSIGN Root CA G2"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

\046\371\223\264\355\075\050\047\260\271\113\247\351\025\035\243

\215\222\345\062

```
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\214\361\165\212\306\031\317\224\267\367\145\040\207\303\227\307
END
CKA_ISSUER MULTILINE_OCTAL
\060\101\061\013\060\011\006\003\125\004\006\023\002\122\117\061
\024\060\022\006\003\125\004\012\023\013\103\105\122\124\123\111
\107\116\040\123\101\061\034\060\032\006\003\125\004\013\023\023
\143\145\162\164\123\111\107\116\040\122\117\117\124\040\103\101
\040\107\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\011\021\000\064\266\116\306\066\055\066
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Trustwave Global Certification Authority"
#
Issuer: CN=Trustwave Global Certification Authority,O="Trustwave Holdings,
Inc.",L=Chicago,ST=Illinois,C=US
Serial Number:05:f7:0e:86:da:49:f3:46:35:2e:ba:b2
Subject: CN=Trustwave Global Certification Authority,O="Trustwave Holdings,
Inc.",L=Chicago,ST=Illinois,C=US
Not Valid Before: Wed Aug 23 19:34:12 2017
Not Valid After : Sat Aug 23 19:34:12 2042
Fingerprint (SHA-256):
97:55:20:15:F5:DD:FC:3C:87:88:C0:06:94:45:55:40:88:94:45:00:84:F1:00:86:70:86:BC:1A:2B:B5:8D:C8
Fingerprint (SHA1): 2F:8F:36:4F:E1:58:97:44:21:59:87:A5:2A:9A:D0:69:95:26:7F:B5
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Trustwave Global Certification Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\210\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\021\060\017\006\003\125\004\010\014\010\111\154\154\151\156
\157\151\163\061\020\060\016\006\003\125\004\007\014\007\103\150
\151\143\141\147\157\061\041\060\037\006\003\125\004\012\014\030
\124\162\165\163\164\167\141\166\145\040\110\157\154\144\151\156
\147\163\054\040\111\156\143\056\061\061\060\057\006\003\125\004
\003\014\050\124\162\165\163\164\167\141\166\145\040\107\154\157
\142\141\154\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171
```

END

CKA\_ID UTF8 "0"

CKA\_ISSUER MULTILINE\_OCTAL

\060\201\210\061\013\060\011\006\003\125\004\006\023\002\125\123  
\061\021\060\017\006\003\125\004\010\014\010\111\154\154\151\156  
\157\151\163\061\020\060\016\006\003\125\004\007\014\007\103\150  
\151\143\141\147\157\061\041\060\037\006\003\125\004\012\014\030  
\124\162\165\163\164\167\141\166\145\040\110\157\154\144\151\156  
\147\163\054\040\111\156\143\056\061\061\060\057\006\003\125\004  
\003\014\050\124\162\165\163\164\167\141\166\145\040\107\154\157  
\142\141\154\040\103\145\162\164\151\146\151\143\141\164\151\157  
\156\040\101\165\164\150\157\162\151\164\171

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

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

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\005\332\060\202\003\302\240\003\002\001\002\002\014\005  
\367\016\206\332\111\363\106\065\056\272\262\060\015\006\011\052  
\206\110\206\367\015\001\001\013\005\000\060\201\210\061\013\060  
\011\006\003\125\004\006\023\002\125\123\061\021\060\017\006\003  
\125\004\010\014\010\111\154\154\151\156\157\151\163\061\020\060  
\016\006\003\125\004\007\014\007\103\150\151\143\141\147\157\061  
\041\060\037\006\003\125\004\012\014\030\124\162\165\163\164\167  
\141\166\145\040\110\157\154\144\151\156\147\163\054\040\111\156  
\143\056\061\061\060\057\006\003\125\004\003\014\050\124\162\165  
\163\164\167\141\166\145\040\107\154\157\142\141\154\040\103\145  
\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150  
\157\162\151\164\171\060\036\027\015\061\067\060\070\062\063\061  
\071\063\064\061\062\132\027\015\064\062\060\070\062\063\061\071  
\063\064\061\062\132\060\201\210\061\013\060\011\006\003\125\004  
\006\023\002\125\123\061\021\060\017\006\003\125\004\010\014\010  
\111\154\154\151\156\157\151\163\061\020\060\016\006\003\125\004  
\007\014\007\103\150\151\143\141\147\157\061\041\060\037\006\003  
\125\004\012\014\030\124\162\165\163\164\167\141\166\145\040\110  
\157\154\144\151\156\147\163\054\040\111\156\143\056\061\061\060  
\057\006\003\125\004\003\014\050\124\162\165\163\164\167\141\166  
\145\040\107\154\157\142\141\154\040\103\145\162\164\151\146\151  
\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171  
\060\202\002\042\060\015\006\011\052\206\110\206\367\015\001\001  
\001\005\000\003\202\002\017\000\060\202\002\012\002\202\002\001  
\000\271\135\121\050\113\074\067\222\321\202\316\275\035\275\315  
\335\270\253\317\012\076\341\135\345\334\252\011\271\127\002\076  
\346\143\141\337\362\017\202\143\256\243\367\254\163\321\174\347  
\263\013\257\010\000\011\131\177\315\051\052\210\223\207\027\030  
\200\355\210\262\264\266\020\037\055\326\137\125\242\023\135\321  
\306\353\006\126\211\210\376\254\062\235\375\134\303\005\307\156  
\356\206\211\272\210\003\235\162\041\206\220\256\217\003\245\334

\237\210\050\313\243\222\111\017\354\320\017\342\155\104\117\200  
\152\262\324\347\240\012\123\001\272\216\227\221\166\156\274\374  
\325\153\066\346\100\210\326\173\057\137\005\350\054\155\021\363  
\347\262\276\222\104\114\322\227\244\376\322\162\201\103\007\234  
\351\021\076\365\213\032\131\175\037\150\130\335\004\000\054\226  
\363\103\263\176\230\031\164\331\234\163\331\030\276\101\307\064  
\171\331\364\142\302\103\271\263\047\260\042\313\371\075\122\307  
\060\107\263\311\076\270\152\342\347\350\201\160\136\102\213\117  
\046\245\376\072\302\040\156\273\370\026\216\315\014\251\264\033  
\154\166\020\341\130\171\106\076\124\316\200\250\127\011\067\051  
\033\231\023\217\014\310\326\054\034\373\005\350\010\225\075\145  
\106\334\356\315\151\342\115\217\207\050\116\064\013\076\317\024  
\331\273\335\266\120\232\255\167\324\031\326\332\032\210\310\116  
\033\047\165\330\262\010\361\256\203\060\271\021\016\315\207\360  
\204\215\025\162\174\241\357\314\362\210\141\272\364\151\273\014  
\214\013\165\127\004\270\116\052\024\056\075\017\034\036\062\246  
\142\066\356\146\342\042\270\005\100\143\020\042\363\063\035\164  
\162\212\054\365\071\051\240\323\347\033\200\204\055\305\075\343  
\115\261\375\032\157\272\145\007\073\130\354\102\105\046\373\330  
\332\045\162\304\366\000\261\042\171\275\343\174\131\142\112\234  
\005\157\075\316\346\326\107\143\231\306\044\157\162\022\310\254  
\177\220\264\013\221\160\350\267\346\026\020\161\027\316\336\006  
\117\110\101\175\065\112\243\211\362\311\113\173\101\021\155\147  
\267\010\230\114\345\021\031\256\102\200\334\373\220\005\324\370  
\120\312\276\344\255\307\302\224\327\026\235\346\027\217\257\066  
\373\002\003\001\000\001\243\102\060\100\060\017\006\003\125\035  
\023\001\001\377\004\005\060\003\001\001\377\060\035\006\003\125  
\035\016\004\026\004\024\231\340\031\147\015\142\333\166\263\332  
\075\270\133\350\375\102\322\061\016\207\060\016\006\003\125\035  
\017\001\001\377\004\004\003\002\001\006\060\015\006\011\052\206  
\110\206\367\015\001\001\013\005\000\003\202\002\001\000\230\163  
\160\342\260\323\355\071\354\114\140\331\251\022\206\027\036\226  
\320\350\124\050\073\144\055\041\246\370\235\126\023\152\110\075  
\117\307\076\051\333\155\130\203\124\075\207\175\043\005\324\344  
\034\334\350\070\145\206\305\165\247\132\333\065\005\275\167\336  
\273\051\067\100\005\007\303\224\122\237\312\144\335\361\033\053  
\334\106\012\020\002\061\375\112\150\015\007\144\220\346\036\365  
\052\241\250\273\074\135\371\243\010\013\021\014\361\077\055\020  
\224\157\376\342\064\207\203\326\317\345\033\065\155\322\003\341  
\260\015\250\240\252\106\047\202\066\247\025\266\010\246\102\124  
\127\266\231\132\342\013\171\220\327\127\022\121\065\031\210\101  
\150\045\324\067\027\204\025\373\001\162\334\225\336\122\046\040  
\230\046\342\166\365\047\157\372\000\073\112\141\331\015\313\121  
\223\052\375\026\006\226\247\043\232\043\110\376\121\275\266\304  
\260\261\124\316\336\154\101\255\026\147\176\333\375\070\315\271  
\070\116\262\301\140\313\235\027\337\130\236\172\142\262\046\217  
\164\225\233\344\133\035\322\017\335\230\034\233\131\271\043\323  
\061\240\246\377\070\335\317\040\117\351\130\126\072\147\303\321

```
\366\231\231\235\272\066\266\200\057\210\107\117\206\277\104\072
\200\344\067\034\246\272\352\227\230\021\320\204\142\107\144\036
\252\356\100\277\064\261\234\217\116\341\362\222\117\037\216\363
\236\227\336\363\246\171\152\211\161\117\113\047\027\110\376\354
\364\120\017\117\111\175\314\105\343\275\172\100\305\101\334\141
\126\047\006\151\345\162\101\201\323\266\001\211\240\057\072\162
\171\376\072\060\277\101\354\307\142\076\221\113\307\331\061\166
\102\371\367\074\143\354\046\214\163\014\175\032\035\352\250\174
\207\250\302\047\174\341\063\101\017\317\317\374\000\240\042\200
\236\112\247\157\000\260\101\105\267\042\312\150\110\305\102\242
\256\335\035\362\340\156\116\005\130\261\300\220\026\052\244\075
\020\100\276\217\142\143\203\251\234\202\175\055\002\351\203\060
\174\313\047\311\375\036\146\000\260\056\323\041\057\216\063\026
\154\230\355\020\250\007\326\314\223\317\333\321\151\034\344\312
\311\340\266\234\351\316\161\161\336\154\077\026\244\171
```

END

```
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRICT_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRICT_AFTER CK_BBOOL CK_FALSE
```

# Trust for "Trustwave Global Certification Authority"

# Issuer: CN=Trustwave Global Certification Authority,O="Trustwave Holdings,  
Inc.",L=Chicago,ST=Illinois,C=US

# Serial Number:05:f7:0e:86:da:49:f3:46:35:2e:ba:b2

# Subject: CN=Trustwave Global Certification Authority,O="Trustwave Holdings,  
Inc.",L=Chicago,ST=Illinois,C=US

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

# Not Valid After : Sat Aug 23 19:34:12 2042

# Fingerprint (SHA-256):

97:55:20:15:F5:DD:FC:3C:87:88:C0:06:94:45:55:40:88:94:45:00:84:F1:00:86:70:86:BC:1A:2B:B5:8D:C8

# Fingerprint (SHA1): 2F:8F:36:4F:E1:58:97:44:21:59:87:A5:2A:9A:D0:69:95:26:7F:B5

```
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
```

```
CKA_TOKEN CK_BBOOL CK_TRUE
```

```
CKA_PRIVATE CK_BBOOL CK_FALSE
```

```
CKA_MODIFIABLE CK_BBOOL CK_FALSE
```

```
CKA_LABEL UTF8 "Trustwave Global Certification Authority"
```

```
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
```

```
\057\217\066\117\341\130\227\104\041\131\207\245\052\232\320\151
\225\046\177\265
```

END

```
CKA_CERT_MD5_HASH MULTILINE_OCTAL
```

```
\370\034\030\055\057\272\137\155\241\154\274\307\253\221\307\016
```

END

```
CKA_ISSUER MULTILINE_OCTAL
```

```
\060\201\210\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\021\060\017\006\003\125\004\010\014\010\111\154\154\151\156
\157\151\163\061\020\060\016\006\003\125\004\007\014\007\103\150
\151\143\141\147\157\061\041\060\037\006\003\125\004\012\014\030
```

```
\124\162\165\163\164\167\141\166\145\040\110\157\154\144\151\156
\147\163\054\040\111\156\143\056\061\061\060\057\006\003\125\004
\003\014\050\124\162\165\163\164\167\141\166\145\040\107\154\157
\142\141\154\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171
```

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

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

END

CKA\_TRUST\_SERVER\_AUTH CK\_TRUST CKT\_NSS\_TRUSTED\_DELEGATOR

CKA\_TRUST\_EMAIL\_PROTECTION CK\_TRUST CKT\_NSS\_TRUSTED\_DELEGATOR

CKA\_TRUST\_CODE\_SIGNING CK\_TRUST CKT\_NSS\_MUST\_VERIFY\_TRUST

CKA\_TRUST\_STEP\_UP\_APPROVED CK\_BBOOL CK\_FALSE

#

# Certificate "Trustwave Global ECC P256 Certification Authority"

#

# Issuer: CN=Trustwave Global ECC P256 Certification Authority,O="Trustwave Holdings,  
Inc.",L=Chicago,ST=Illinois,C=US

# Serial Number:0d:6a:5f:08:3f:28:5c:3e:51:95:df:5d

# Subject: CN=Trustwave Global ECC P256 Certification Authority,O="Trustwave Holdings,  
Inc.",L=Chicago,ST=Illinois,C=US

# Not Valid Before: Wed Aug 23 19:35:10 2017

# Not Valid After : Sat Aug 23 19:35:10 2042

# Fingerprint (SHA-256):

94:5B:BC:82:5E:A5:54:F4:89:D1:FD:51:A7:3D:DF:2E:A6:24:AC:70:19:A0:52:05:22:5C:22:A7:8C:CF:A8:B4

# Fingerprint (SHA1): B4:90:82:DD:45:0C:BE:8B:5B:B1:66:D3:E2:A4:08:26:CD:ED:42:CF

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_CERTIFICATE

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "Trustwave Global ECC P256 Certification Authority"

CKA\_CERTIFICATE\_TYPE CK\_CERTIFICATE\_TYPE CKC\_X\_509

CKA\_SUBJECT MULTILINE\_OCTAL

```
\060\201\221\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\021\060\017\006\003\125\004\010\023\010\111\154\154\151\156
\157\151\163\061\020\060\016\006\003\125\004\007\023\007\103\150
\151\143\141\147\157\061\041\060\037\006\003\125\004\012\023\030
\124\162\165\163\164\167\141\166\145\040\110\157\154\144\151\156
\147\163\054\040\111\156\143\056\061\072\060\070\006\003\125\004
\003\023\061\124\162\165\163\164\167\141\166\145\040\107\154\157
\142\141\154\040\105\103\103\040\120\062\065\066\040\103\145\162
\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157
\162\151\164\171
```

END

CKA\_ID UTF8 "0"

CKA\_ISSUER MULTILINE\_OCTAL

```
\060\201\221\061\013\060\011\006\003\125\004\006\023\002\125\123
```

\061\021\060\017\006\003\125\004\010\023\010\111\154\154\151\156  
\157\151\163\061\020\060\016\006\003\125\004\007\023\007\103\150  
\151\143\141\147\157\061\041\060\037\006\003\125\004\012\023\030  
\124\162\165\163\164\167\141\166\145\040\110\157\154\144\151\156  
\147\163\054\040\111\156\143\056\061\072\060\070\006\003\125\004  
\003\023\061\124\162\165\163\164\167\141\166\145\040\107\154\157  
\142\141\154\040\105\103\103\040\120\062\065\066\040\103\145\162  
\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157  
\162\151\164\171

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

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

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\002\140\060\202\002\007\240\003\002\001\002\002\014\015  
\152\137\010\077\050\134\076\121\225\337\135\060\012\006\010\052  
\206\110\316\075\004\003\002\060\201\221\061\013\060\011\006\003  
\125\004\006\023\002\125\123\061\021\060\017\006\003\125\004\010  
\023\010\111\154\154\151\156\157\151\163\061\020\060\016\006\003  
\125\004\007\023\007\103\150\151\143\141\147\157\061\041\060\037  
\006\003\125\004\012\023\030\124\162\165\163\164\167\141\166\145  
\040\110\157\154\144\151\156\147\163\054\040\111\156\143\056\061  
\072\060\070\006\003\125\004\003\023\061\124\162\165\163\164\167  
\141\166\145\040\107\154\157\142\141\154\040\105\103\103\040\120  
\062\065\066\040\103\145\162\164\151\146\151\143\141\164\151\157  
\156\040\101\165\164\150\157\162\151\164\171\060\036\027\015\061  
\067\060\070\062\063\061\071\063\065\061\060\132\027\015\064\062  
\060\070\062\063\061\071\063\065\061\060\132\060\201\221\061\013  
\060\011\006\003\125\004\006\023\002\125\123\061\021\060\017\006  
\003\125\004\010\023\010\111\154\154\151\156\157\151\163\061\020  
\060\016\006\003\125\004\007\023\007\103\150\151\143\141\147\157  
\061\041\060\037\006\003\125\004\012\023\030\124\162\165\163\164  
\167\141\166\145\040\110\157\154\144\151\156\147\163\054\040\111  
\156\143\056\061\072\060\070\006\003\125\004\003\023\061\124\162  
\165\163\164\167\141\166\145\040\107\154\157\142\141\154\040\105  
\103\103\040\120\062\065\066\040\103\145\162\164\151\146\151\143  
\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171\060  
\131\060\023\006\007\052\206\110\316\075\002\001\006\010\052\206  
\110\316\075\003\001\007\003\102\000\004\176\373\154\346\043\343  
\163\062\010\312\140\346\123\234\272\164\215\030\260\170\220\122  
\200\335\070\300\112\035\321\250\314\223\244\227\006\070\312\015  
\025\142\306\216\001\052\145\235\252\337\064\221\056\201\301\344  
\063\222\061\304\375\011\072\246\077\255\243\103\060\101\060\017  
\006\003\125\035\023\001\001\377\004\005\060\003\001\001\377\060  
\017\006\003\125\035\017\001\001\377\004\005\003\003\007\006\000  
\060\035\006\003\125\035\016\004\026\004\024\243\101\006\254\220  
\155\321\112\353\165\245\112\020\231\263\261\241\213\112\367\060  
\012\006\010\052\206\110\316\075\004\003\002\003\107\000\060\104



```
\002\040\007\346\124\332\016\240\132\262\256\021\237\207\305\266
\377\151\336\045\276\370\240\267\010\363\104\316\052\337\010\041
\014\067\002\040\055\046\003\240\005\275\153\321\366\134\370\145
\314\206\155\263\234\064\110\143\204\011\305\215\167\032\342\314
\234\341\164\173
```

END

```
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRICT_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRICT_AFTER CK_BBOOL CK_FALSE
```

```
Trust for "Trustwave Global ECC P256 Certification Authority"
Issuer: CN=Trustwave Global ECC P256 Certification Authority,O="Trustwave Holdings,
Inc.",L=Chicago,ST=Illinois,C=US
Serial Number:0d:6a:5f:08:3f:28:5c:3e:51:95:df:5d
Subject: CN=Trustwave Global ECC P256 Certification Authority,O="Trustwave Holdings,
Inc.",L=Chicago,ST=Illinois,C=US
Not Valid Before: Wed Aug 23 19:35:10 2017
Not Valid After : Sat Aug 23 19:35:10 2042
Fingerprint (SHA-256):
94:5B:BC:82:5E:A5:54:F4:89:D1:FD:51:A7:3D:DF:2E:A6:24:AC:70:19:A0:52:05:22:5C:22:A7:8C:CF:A8:B4
Fingerprint (SHA1): B4:90:82:DD:45:0C:BE:8B:5B:B1:66:D3:E2:A4:08:26:CD:ED:42:CF
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Trustwave Global ECC P256 Certification Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\264\220\202\335\105\014\276\213\133\261\146\323\342\244\010\046
\315\355\102\317
```

END

```
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\133\104\343\215\135\066\206\046\350\015\005\322\131\247\203\124
END
```

```
CKA_ISSUER MULTILINE_OCTAL
\060\201\221\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\021\060\017\006\003\125\004\010\023\010\111\154\154\151\156
\157\151\163\061\020\060\016\006\003\125\004\007\023\007\103\150
\151\143\141\147\157\061\041\060\037\006\003\125\004\012\023\030
\124\162\165\163\164\167\141\166\145\040\110\157\154\144\151\156
\147\163\054\040\111\156\143\056\061\072\060\070\006\003\125\004
\003\023\061\124\162\165\163\164\167\141\166\145\040\107\154\157
\142\141\154\040\105\103\103\040\120\062\065\066\040\103\145\162
\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157
\162\151\164\171
```

END

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

CKA\_TRUST\_SERVER\_AUTH CK\_TRUST CKT\_NSS\_TRUSTED\_DELEGATOR  
CKA\_TRUST\_EMAIL\_PROTECTION CK\_TRUST CKT\_NSS\_TRUSTED\_DELEGATOR  
CKA\_TRUST\_CODE\_SIGNING CK\_TRUST CKT\_NSS\_MUST\_VERIFY\_TRUST  
CKA\_TRUST\_STEP\_UP\_APPROVED CK\_BBOOL CK\_FALSE

#

# Certificate "Trustwave Global ECC P384 Certification Authority"

#

# Issuer: CN=Trustwave Global ECC P384 Certification Authority,O="Trustwave Holdings,  
Inc.",L=Chicago,ST=Illinois,C=US

# Serial Number:08:bd:85:97:6c:99:27:a4:80:68:47:3b

# Subject: CN=Trustwave Global ECC P384 Certification Authority,O="Trustwave Holdings,  
Inc.",L=Chicago,ST=Illinois,C=US

# Not Valid Before: Wed Aug 23 19:36:43 2017

# Not Valid After : Sat Aug 23 19:36:43 2042

# Fingerprint (SHA-256):

55:90:38:59:C8:C0:C3:EB:B8:75:9E:CE:4E:25:57:22:5F:F5:75:8B:BD:38:EB:D4:82:76:60:1E:1B:D5:80:97

# Fingerprint (SHA1): E7:F3:A3:C8:CF:6F:C3:04:2E:6D:0E:67:32:C5:9E:68:95:0D:5E:D2

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_CERTIFICATE

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "Trustwave Global ECC P384 Certification Authority"

CKA\_CERTIFICATE\_TYPE CK\_CERTIFICATE\_TYPE CKC\_X\_509

CKA\_SUBJECT MULTILINE\_OCTAL

\060\201\221\061\013\060\011\006\003\125\004\006\023\002\125\123  
\061\021\060\017\006\003\125\004\010\023\010\111\154\154\151\156  
\157\151\163\061\020\060\016\006\003\125\004\007\023\007\103\150  
\151\143\141\147\157\061\041\060\037\006\003\125\004\012\023\030  
\124\162\165\163\164\167\141\166\145\040\110\157\154\144\151\156  
\147\163\054\040\111\156\143\056\061\072\060\070\006\003\125\004  
\003\023\061\124\162\165\163\164\167\141\166\145\040\107\154\157  
\142\141\154\040\105\103\103\040\120\063\070\064\040\103\145\162  
\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157  
\162\151\164\171

END

CKA\_ID UTF8 "0"

CKA\_ISSUER MULTILINE\_OCTAL

\060\201\221\061\013\060\011\006\003\125\004\006\023\002\125\123  
\061\021\060\017\006\003\125\004\010\023\010\111\154\154\151\156  
\157\151\163\061\020\060\016\006\003\125\004\007\023\007\103\150  
\151\143\141\147\157\061\041\060\037\006\003\125\004\012\023\030  
\124\162\165\163\164\167\141\166\145\040\110\157\154\144\151\156  
\147\163\054\040\111\156\143\056\061\072\060\070\006\003\125\004  
\003\023\061\124\162\165\163\164\167\141\166\145\040\107\154\157  
\142\141\154\040\105\103\103\040\120\063\070\064\040\103\145\162  
\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157  
\162\151\164\171

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

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

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\002\235\060\202\002\044\240\003\002\001\002\002\014\010  
\275\205\227\154\231\047\244\200\150\107\073\060\012\006\010\052  
\206\110\316\075\004\003\003\060\201\221\061\013\060\011\006\003  
\125\004\006\023\002\125\123\061\021\060\017\006\003\125\004\010  
\023\010\111\154\154\151\156\157\151\163\061\020\060\016\006\003  
\125\004\007\023\007\103\150\151\143\141\147\157\061\041\060\037  
\006\003\125\004\012\023\030\124\162\165\163\164\167\141\166\145  
\040\110\157\154\144\151\156\147\163\054\040\111\156\143\056\061  
\072\060\070\006\003\125\004\003\023\061\124\162\165\163\164\167  
\141\166\145\040\107\154\157\142\141\154\040\105\103\103\040\120  
\063\070\064\040\103\145\162\164\151\146\151\143\141\164\151\157  
\156\040\101\165\164\150\157\162\151\164\171\060\036\027\015\061  
\067\060\070\062\063\061\071\063\066\064\063\132\027\015\064\062  
\060\070\062\063\061\071\063\066\064\063\132\060\201\221\061\013  
\060\011\006\003\125\004\006\023\002\125\123\061\021\060\017\006  
\003\125\004\010\023\010\111\154\154\151\156\157\151\163\061\020  
\060\016\006\003\125\004\007\023\007\103\150\151\143\141\147\157  
\061\041\060\037\006\003\125\004\012\023\030\124\162\165\163\164  
\167\141\166\145\040\110\157\154\144\151\156\147\163\054\040\111  
\156\143\056\061\072\060\070\006\003\125\004\003\023\061\124\162  
\165\163\164\167\141\166\145\040\107\154\157\142\141\154\040\105  
\103\103\040\120\063\070\064\040\103\145\162\164\151\146\151\143  
\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171\060  
\166\060\020\006\007\052\206\110\316\075\002\001\006\005\053\201  
\004\000\042\003\142\000\004\153\332\015\165\065\010\061\107\005  
\256\105\231\125\361\021\023\056\112\370\020\061\043\243\176\203  
\323\177\050\010\072\046\032\072\317\227\202\037\200\267\047\011  
\217\321\216\060\304\012\233\016\254\130\004\253\367\066\175\224  
\043\244\233\012\212\213\253\353\375\071\045\146\361\136\376\214  
\256\215\101\171\235\011\140\316\050\251\323\212\155\363\326\105  
\324\362\230\204\070\145\240\243\103\060\101\060\017\006\003\125  
\035\023\001\001\377\004\005\060\003\001\001\377\060\017\006\003  
\125\035\017\001\001\377\004\005\003\003\007\006\000\060\035\006  
\003\125\035\016\004\026\004\024\125\251\204\211\322\301\062\275  
\030\313\154\246\007\116\310\347\235\276\202\220\060\012\006\010  
\052\206\110\316\075\004\003\003\003\147\000\060\144\002\060\067  
\001\222\227\105\022\176\240\363\076\255\031\072\162\335\364\120  
\223\003\022\276\104\322\117\101\244\214\234\235\037\243\366\302  
\222\347\110\024\376\116\233\245\221\127\256\306\067\162\273\002  
\060\147\045\012\261\014\136\356\251\143\222\157\345\220\013\376  
\146\042\312\107\375\212\061\367\203\376\172\277\020\276\030\053  
\036\217\366\051\036\224\131\357\216\041\067\313\121\230\245\156  
\113

```

END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRICT_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRICT_AFTER CK_BBOOL CK_FALSE

Trust for "Trustwave Global ECC P384 Certification Authority"
Issuer: CN=Trustwave Global ECC P384 Certification Authority,O="Trustwave Holdings,
Inc.",L=Chicago,ST=Illinois,C=US
Serial Number:08:bd:85:97:6c:99:27:a4:80:68:47:3b
Subject: CN=Trustwave Global ECC P384 Certification Authority,O="Trustwave Holdings,
Inc.",L=Chicago,ST=Illinois,C=US
Not Valid Before: Wed Aug 23 19:36:43 2017
Not Valid After : Sat Aug 23 19:36:43 2042
Fingerprint (SHA-256):
55:90:38:59:C8:C0:C3:EB:B8:75:9E:CE:4E:25:57:22:5F:F5:75:8B:BD:38:EB:D4:82:76:60:1E:1B:D5:80:97
Fingerprint (SHA1): E7:F3:A3:C8:CF:6F:C3:04:2E:6D:0E:67:32:C5:9E:68:95:0D:5E:D2
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Trustwave Global ECC P384 Certification Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\347\363\243\310\317\157\303\004\056\155\016\147\062\305\236\150
\225\015\136\322
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\352\317\140\304\073\271\025\051\100\241\227\355\170\047\223\326
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\221\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\021\060\017\006\003\125\004\010\023\010\111\154\154\151\156
\157\151\163\061\020\060\016\006\003\125\004\007\023\007\103\150
\151\143\141\147\157\061\041\060\037\006\003\125\004\012\023\030
\124\162\165\163\164\167\141\166\145\040\110\157\154\144\151\156
\147\163\054\040\111\156\143\056\061\072\060\070\006\003\125\004
\003\023\061\124\162\165\163\164\167\141\166\145\040\107\154\157
\142\141\154\040\105\103\103\040\120\063\070\064\040\103\145\162
\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157
\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\014\010\275\205\227\154\231\047\244\200\150\107\073
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

```

```
#
Certificate "NAVER Global Root Certification Authority"
#
Issuer: CN=NAVER Global Root Certification Authority,O=NAVER BUSINESS PLATFORM Corp.,C=KR
Serial Number:01:94:30:1e:a2:0b:dd:f5:c5:33:2a:b1:43:44:71:f8:d6:50:4d:0d
Subject: CN=NAVER Global Root Certification Authority,O=NAVER BUSINESS PLATFORM Corp.,C=KR
Not Valid Before: Fri Aug 18 08:58:42 2017
Not Valid After : Tue Aug 18 23:59:59 2037
Fingerprint (SHA-256):
88:F4:38:DC:F8:FF:D1:FA:8F:42:91:15:FF:E5:F8:2A:E1:E0:6E:0C:70:C3:75:FA:AD:71:7B:34:A4:9E:72:65
Fingerprint (SHA1): 8F:6B:F2:A9:27:4A:DA:14:A0:C4:F4:8E:61:27:F9:C0:1E:78:5D:D1
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "NAVER Global Root Certification Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\151\061\013\060\011\006\003\125\004\006\023\002\113\122\061
\046\060\044\006\003\125\004\012\014\035\116\101\126\105\122\040
\102\125\123\111\116\105\123\123\040\120\114\101\124\106\117\122
\115\040\103\157\162\160\056\061\062\060\060\006\003\125\004\003
\014\051\116\101\126\105\122\040\107\154\157\142\141\154\040\122
\157\157\164\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\151\061\013\060\011\006\003\125\004\006\023\002\113\122\061
\046\060\044\006\003\125\004\012\014\035\116\101\126\105\122\040
\102\125\123\111\116\105\123\123\040\120\114\101\124\106\117\122
\115\040\103\157\162\160\056\061\062\060\060\006\003\125\004\003
\014\051\116\101\126\105\122\040\107\154\157\142\141\154\040\122
\157\157\164\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\001\224\060\036\242\013\335\365\305\063\052\261\103\104
\161\370\326\120\115\015
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\242\060\202\003\212\240\003\002\001\002\002\024\001
\224\060\036\242\013\335\365\305\063\052\261\103\104\161\370\326
\120\115\015\060\015\006\011\052\206\110\206\367\015\001\001\014
\005\000\060\151\061\013\060\011\006\003\125\004\006\023\002\113
\122\061\046\060\044\006\003\125\004\012\014\035\116\101\126\105
\122\040\102\125\123\111\116\105\123\123\040\120\114\101\124\106
\117\122\115\040\103\157\162\160\056\061\062\060\060\006\003\125
```

\004\003\014\051\116\101\126\105\122\040\107\154\157\142\141\154  
\040\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164  
\151\157\156\040\101\165\164\150\157\162\151\164\171\060\036\027  
\015\061\067\060\070\061\070\060\070\065\070\064\062\132\027\015  
\063\067\060\070\061\070\062\063\065\071\065\071\132\060\151\061  
\013\060\011\006\003\125\004\006\023\002\113\122\061\046\060\044  
\006\003\125\004\012\014\035\116\101\126\105\122\040\102\125\123  
\111\116\105\123\123\040\120\114\101\124\106\117\122\115\040\103  
\157\162\160\056\061\062\060\060\006\003\125\004\003\014\051\116  
\101\126\105\122\040\107\154\157\142\141\154\040\122\157\157\164  
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101  
\165\164\150\157\162\151\164\171\060\202\002\042\060\015\006\011  
\052\206\110\206\367\015\001\001\001\005\000\003\202\002\017\000  
\060\202\002\012\002\202\002\001\000\266\324\361\223\134\265\100  
\211\012\253\015\220\133\120\143\256\220\224\164\027\105\162\326  
\173\145\132\051\113\247\126\240\113\270\057\102\165\351\331\173  
\044\132\061\145\253\027\027\321\063\072\331\021\334\100\066\207  
\337\307\152\351\046\136\131\212\167\343\350\110\234\061\026\372  
\076\221\261\312\311\243\342\237\316\041\123\243\002\066\060\313  
\122\002\345\332\062\135\303\305\346\371\356\021\307\213\311\104  
\036\204\223\030\112\264\237\345\022\144\151\320\046\205\142\001  
\266\311\002\035\276\203\121\273\134\332\370\255\025\152\231\367  
\222\124\367\064\133\351\277\352\051\201\022\324\123\221\226\263  
\221\132\335\376\220\163\050\373\060\106\265\312\010\007\307\161  
\162\311\146\323\064\227\366\214\364\030\112\341\320\075\132\105  
\266\151\247\051\373\043\316\210\330\022\234\000\110\250\246\017  
\263\073\222\215\161\016\164\305\213\310\114\371\364\233\216\270  
\074\151\355\157\073\120\057\130\355\304\260\320\034\033\152\014  
\342\274\104\252\330\315\024\135\224\170\141\277\016\156\332\052  
\274\057\014\013\161\246\263\026\077\234\346\371\314\237\123\065  
\342\003\240\240\030\277\273\361\276\364\326\214\207\015\102\367  
\006\271\361\155\355\004\224\250\376\266\323\006\306\100\141\337  
\235\235\363\124\166\316\123\072\001\246\222\101\354\004\243\217  
\015\242\325\011\312\326\313\232\361\357\103\135\300\253\245\101  
\317\134\123\160\160\311\210\246\055\324\153\141\163\120\046\206  
\141\016\137\033\302\053\342\214\325\273\235\301\003\102\272\224  
\332\137\251\260\312\314\115\012\357\107\151\003\057\042\373\361  
\050\316\277\135\120\145\250\220\155\263\164\260\010\307\254\250  
\321\353\076\234\374\135\032\203\056\053\313\265\363\104\235\072  
\247\027\141\226\242\161\323\160\226\025\115\267\114\163\356\031  
\134\305\133\076\101\376\254\165\140\073\033\143\316\000\335\332  
\010\220\142\264\345\055\356\110\247\153\027\231\124\276\207\112  
\343\251\136\004\114\353\020\155\124\326\357\361\350\362\142\026  
\313\200\153\355\075\355\365\037\060\245\256\113\311\023\355\212  
\001\001\311\270\121\130\300\146\072\261\146\113\304\325\061\002  
\142\351\164\204\014\333\115\106\055\002\003\001\000\001\243\102  
\060\100\060\035\006\003\125\035\016\004\026\004\024\322\237\210  
\337\241\315\054\275\354\365\073\001\001\223\063\047\262\353\140

\113\060\016\006\003\125\035\017\001\001\377\004\004\003\002\001  
\006\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001  
\001\377\060\015\006\011\052\206\110\206\367\015\001\001\014\005  
\000\003\202\002\001\000\062\312\200\263\235\075\124\006\335\322  
\322\056\360\244\001\041\013\147\110\312\155\216\340\310\252\015  
\252\215\041\127\217\306\076\172\312\333\121\324\122\263\324\226  
\204\245\130\140\177\345\013\216\037\365\334\012\025\201\345\073  
\266\267\042\057\011\234\023\026\261\154\014\065\010\155\253\143  
\162\355\334\276\354\307\127\346\060\040\161\326\327\020\301\023  
\125\001\214\052\103\344\101\361\317\072\172\123\222\316\242\003  
\005\015\070\337\002\273\020\056\331\073\322\233\172\300\241\246  
\370\265\061\346\364\165\311\271\123\231\165\107\042\132\024\025  
\307\170\033\266\235\351\014\370\033\166\361\205\204\336\241\332  
\022\357\244\342\020\227\172\170\336\014\121\227\250\041\100\213  
\206\275\015\360\136\116\113\066\273\073\040\037\212\102\126\341  
\013\032\277\173\320\042\103\054\104\214\373\345\052\264\154\034  
\034\272\224\340\023\176\041\346\232\302\313\305\102\144\264\036  
\224\173\010\045\310\161\314\207\105\127\205\323\237\051\142\042  
\203\121\227\000\030\227\167\152\230\222\311\174\140\154\337\154  
\175\112\344\160\114\302\236\270\035\367\320\064\307\017\314\373  
\247\377\003\276\255\160\220\332\013\335\310\155\227\137\232\177  
\011\062\101\375\315\242\314\132\155\114\362\252\111\376\146\370  
\351\330\065\353\016\050\036\356\110\057\072\320\171\011\070\174  
\246\042\202\223\225\320\003\276\276\002\240\005\335\040\042\343  
\157\035\210\064\140\306\346\012\271\011\165\013\360\007\350\151  
\226\065\307\373\043\201\216\070\071\270\105\053\103\170\242\321  
\054\024\377\015\050\162\162\225\233\136\011\333\211\104\230\252  
\241\111\273\161\122\362\277\366\377\047\241\066\257\270\266\167  
\210\335\072\244\155\233\064\220\334\024\135\060\277\267\353\027  
\344\207\267\161\320\241\327\167\025\324\102\327\362\363\061\231  
\135\233\335\026\155\077\352\006\043\370\106\242\042\355\223\366  
\335\232\346\052\207\261\230\124\361\042\367\153\105\343\342\216  
\166\035\232\215\304\006\215\066\267\024\363\235\124\151\267\216  
\074\325\244\155\223\201\267\255\366\275\144\173\302\311\150\071  
\240\222\234\315\064\206\221\220\372\144\121\235\376\376\353\245  
\365\165\336\211\367\162

END

CKA\_NSS\_MOZILLA\_CA\_POLICY CK\_BBOOL CK\_TRUE  
CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE  
CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "NAVER Global Root Certification Authority"  
# Issuer: CN=NAVER Global Root Certification Authority,O=NAVER BUSINESS PLATFORM Corp.,C=KR  
# Serial Number:01:94:30:1e:a2:0b:dd:f5:c5:33:2a:b1:43:44:71:f8:d6:50:4d:0d  
# Subject: CN=NAVER Global Root Certification Authority,O=NAVER BUSINESS PLATFORM Corp.,C=KR  
# Not Valid Before: Fri Aug 18 08:58:42 2017  
# Not Valid After : Tue Aug 18 23:59:59 2037  
# Fingerprint (SHA-256):

88:F4:38:DC:F8:FF:D1:FA:8F:42:91:15:FF:E5:F8:2A:E1:E0:6E:0C:70:C3:75:FA:AD:71:7B:34:A4:9E:72:65

# Fingerprint (SHA1): 8F:6B:F2:A9:27:4A:DA:14:A0:C4:F4:8E:61:27:F9:C0:1E:78:5D:D1

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "NAVER Global Root Certification Authority"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

\217\153\362\251\047\112\332\024\240\304\364\216\141\047\371\300  
\036\170\135\321

END

CKA\_CERT\_MD5\_HASH MULTILINE\_OCTAL

\310\176\101\366\045\073\365\011\263\027\350\106\075\277\320\233

END

CKA\_ISSUER MULTILINE\_OCTAL

\060\151\061\013\060\011\006\003\125\004\006\023\002\113\122\061  
\046\060\044\006\003\125\004\012\014\035\116\101\126\105\122\040  
\102\125\123\111\116\105\123\123\040\120\114\101\124\106\117\122  
\115\040\103\157\162\160\056\061\062\060\060\006\003\125\004\003  
\014\051\116\101\126\105\122\040\107\154\157\142\141\154\040\122  
\157\157\164\040\103\145\162\164\151\146\151\143\141\164\151\157  
\156\040\101\165\164\150\157\162\151\164\171

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

\002\024\001\224\060\036\242\013\335\365\305\063\052\261\103\104  
\161\370\326\120\115\015

END

CKA\_TRUST\_SERVER\_AUTH CK\_TRUST CKT\_NSS\_TRUSTED\_DELEGATOR

CKA\_TRUST\_EMAIL\_PROTECTION CK\_TRUST CKT\_NSS\_MUST\_VERIFY\_TRUST

CKA\_TRUST\_CODE\_SIGNING CK\_TRUST CKT\_NSS\_MUST\_VERIFY\_TRUST

CKA\_TRUST\_STEP\_UP\_APPROVED CK\_BBOOL CK\_FALSE

#

# Certificate "AC RAIZ FNMT-RCM SERVIDORES SEGUROS"

#

# Issuer: CN=AC RAIZ FNMT-RCM SERVIDORES SEGUROS,OID.2.5.4.97=VATES-  
Q2826004J,OU=Ceres,O=FNMT-RCM,C=ES

# Serial Number:62:f6:32:6c:e5:c4:e3:68:5c:1b:62:dd:9c:2e:9d:95

# Subject: CN=AC RAIZ FNMT-RCM SERVIDORES SEGUROS,OID.2.5.4.97=VATES-  
Q2826004J,OU=Ceres,O=FNMT-RCM,C=ES

# Not Valid Before: Thu Dec 20 09:37:33 2018

# Not Valid After : Sun Dec 20 09:37:33 2043

# Fingerprint (SHA-256):

55:41:53:B1:3D:2C:F9:DD:B7:53:BF:BE:1A:4E:0A:E0:8D:0A:A4:18:70:58:FE:60:A2:B8:62:B2:E4:B8:7B:CB

# Fingerprint (SHA1): 62:FF:D9:9E:C0:65:0D:03:CE:75:93:D2:ED:3F:2D:32:C9:E3:E5:4A

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_CERTIFICATE

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE



```
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AC RAIZ FNMT-RCM SERVIDORES SEGUROS"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\170\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\021\060\017\006\003\125\004\012\014\010\106\116\115\124\055\122
\103\115\061\016\060\014\006\003\125\004\013\014\005\103\145\162
\145\163\061\030\060\026\006\003\125\004\141\014\017\126\101\124
\105\123\055\121\062\070\062\066\060\060\064\112\061\054\060\052
\006\003\125\004\003\014\043\101\103\040\122\101\111\132\040\106
\116\115\124\055\122\103\115\040\123\105\122\126\111\104\117\122
\105\123\040\123\105\107\125\122\117\123
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\170\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\021\060\017\006\003\125\004\012\014\010\106\116\115\124\055\122
\103\115\061\016\060\014\006\003\125\004\013\014\005\103\145\162
\145\163\061\030\060\026\006\003\125\004\141\014\017\126\101\124
\105\123\055\121\062\070\062\066\060\060\064\112\061\054\060\052
\006\003\125\004\003\014\043\101\103\040\122\101\111\132\040\106
\116\115\124\055\122\103\115\040\123\105\122\126\111\104\117\122
\105\123\040\123\105\107\125\122\117\123
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\142\366\062\154\345\304\343\150\134\033\142\335\234\056
\235\225
END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\156\060\202\001\363\240\003\002\001\002\002\020\142
\366\062\154\345\304\343\150\134\033\142\335\234\056\235\225\060
\012\006\010\052\206\110\316\075\004\003\003\060\170\061\013\060
\011\006\003\125\004\006\023\002\105\123\061\021\060\017\006\003
\125\004\012\014\010\106\116\115\124\055\122\103\115\061\016\060
\014\006\003\125\004\013\014\005\103\145\162\145\163\061\030\060
\026\006\003\125\004\141\014\017\126\101\124\105\123\055\121\062
\070\062\066\060\060\064\112\061\054\060\052\006\003\125\004\003
\014\043\101\103\040\122\101\111\132\040\106\116\115\124\055\122
\103\115\040\123\105\122\126\111\104\117\122\105\123\040\123\105
\107\125\122\117\123\060\036\027\015\061\070\061\062\062\060\060
\071\063\067\063\063\132\027\015\064\063\061\062\062\060\060\071
\063\067\063\063\132\060\170\061\013\060\011\006\003\125\004\006
\023\002\105\123\061\021\060\017\006\003\125\004\012\014\010\106
\116\115\124\055\122\103\115\061\016\060\014\006\003\125\004\013
\014\005\103\145\162\145\163\061\030\060\026\006\003\125\004\141
\014\017\126\101\124\105\123\055\121\062\070\062\066\060\060\064
\112\061\054\060\052\006\003\125\004\003\014\043\101\103\040\122
\101\111\132\040\106\116\115\124\055\122\103\115\040\123\105\122
```

```
\126\111\104\117\122\105\123\040\123\105\107\125\122\117\123\060
\166\060\020\006\007\052\206\110\316\075\002\001\006\005\053\201
\004\000\042\003\142\000\004\366\272\127\123\310\312\253\337\066
\112\122\041\344\227\322\203\147\236\360\145\121\320\136\207\307
\107\261\131\362\127\107\233\000\002\223\104\027\151\333\102\307
\261\262\072\030\016\264\135\214\263\146\135\241\064\371\066\054
\111\333\363\106\374\263\104\151\104\023\146\375\327\305\375\257
\066\115\316\003\115\007\161\317\257\152\005\322\242\103\132\012
\122\157\001\003\116\216\213\243\102\060\100\060\017\006\003\125
\035\023\001\001\377\004\005\060\003\001\001\377\060\016\006\003
\125\035\017\001\001\377\004\004\003\002\001\006\060\035\006\003
\125\035\016\004\026\004\024\001\271\057\357\277\021\206\140\362
\117\320\101\156\253\163\037\347\322\156\111\060\012\006\010\052
\206\110\316\075\004\003\003\003\151\000\060\146\002\061\000\256
\112\343\053\100\303\164\021\362\225\255\026\043\336\116\014\032
\346\135\245\044\136\153\104\173\374\070\342\117\313\234\105\027
\021\114\024\047\046\125\071\165\112\003\314\023\220\237\222\002
\061\000\372\112\154\140\210\163\363\356\270\230\142\251\316\053
\302\331\212\246\160\061\035\257\260\224\114\353\117\306\343\321
\363\142\247\074\377\223\056\007\134\111\001\147\151\022\002\162
\277\347
```

END

```
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRICT_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRICT_AFTER CK_BBOOL CK_FALSE
```

```
Trust for "AC RAIZ FNMT-RCM SERVIDORES SEGUROS"
Issuer: CN=AC RAIZ FNMT-RCM SERVIDORES SEGUROS,OID.2.5.4.97=VATES-
Q2826004J,OU=Ceres,O=FNMT-RCM,C=ES
Serial Number:62:f6:32:6c:e5:c4:e3:68:5c:1b:62:dd:9c:2e:9d:95
Subject: CN=AC RAIZ FNMT-RCM SERVIDORES SEGUROS,OID.2.5.4.97=VATES-
Q2826004J,OU=Ceres,O=FNMT-RCM,C=ES
Not Valid Before: Thu Dec 20 09:37:33 2018
Not Valid After : Sun Dec 20 09:37:33 2043
Fingerprint (SHA-256):
55:41:53:B1:3D:2C:F9:DD:B7:53:BF:BE:1A:4E:0A:E0:8D:0A:A4:18:70:58:FE:60:A2:B8:62:B2:E4:B8:7B:CB
Fingerprint (SHA1): 62:FF:D9:9E:C0:65:0D:03:CE:75:93:D2:ED:3F:2D:32:C9:E3:E5:4A
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AC RAIZ FNMT-RCM SERVIDORES SEGUROS"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\142\377\331\236\300\145\015\003\316\165\223\322\355\077\055\062
\311\343\345\112
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\031\066\234\122\003\057\322\321\273\043\314\335\036\022\125\273
```

```

END
CKA_ISSUER MULTILINE_OCTAL
\060\170\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\021\060\017\006\003\125\004\012\014\010\106\116\115\124\055\122
\103\115\061\016\060\014\006\003\125\004\013\014\005\103\145\162
\145\163\061\030\060\026\006\003\125\004\141\014\017\126\101\124
\105\123\055\121\062\070\062\066\060\060\064\112\061\054\060\052
\006\003\125\004\003\014\043\101\103\040\122\101\111\132\040\106
\116\115\124\055\122\103\115\040\123\105\122\126\111\104\117\122
\105\123\040\123\105\107\125\122\117\123
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\142\366\062\154\345\304\343\150\134\033\142\335\234\056
\235\225
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "GlobalSign Secure Mail Root R45"
#
Issuer: CN=GlobalSign Secure Mail Root R45,O=GlobalSign nv-sa,C=BE
Serial Number:76:53:fe:a8:4c:50:ab:9f:8d:32:b5:1d:03:8f:57:dc
Subject: CN=GlobalSign Secure Mail Root R45,O=GlobalSign nv-sa,C=BE
Not Valid Before: Wed Mar 18 00:00:00 2020
Not Valid After : Sat Mar 18 00:00:00 2045
Fingerprint (SHA-256):
31:9A:F0:A7:72:9E:6F:89:26:9C:13:1E:A6:A3:A1:6F:CD:86:38:9F:DC:AB:3C:47:A4:A6:75:C1:61:A3:F9:74
Fingerprint (SHA1): 76:18:D1:F3:80:24:3D:52:40:C6:11:6A:AD:57:77:09:7D:81:30:A0
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign Secure Mail Root R45"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\122\061\013\060\011\006\003\125\004\006\023\002\102\105\061
\031\060\027\006\003\125\004\012\023\020\107\154\157\142\141\154
\123\151\147\156\040\156\166\055\163\141\061\050\060\046\006\003
\125\004\003\023\037\107\154\157\142\141\154\123\151\147\156\040
\123\145\143\165\162\145\040\115\141\151\154\040\122\157\157\164
\040\122\064\065
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\122\061\013\060\011\006\003\125\004\006\023\002\102\105\061

```

\031\060\027\006\003\125\004\012\023\020\107\154\157\142\141\154  
\123\151\147\156\040\156\166\055\163\141\061\050\060\046\006\003  
\125\004\003\023\037\107\154\157\142\141\154\123\151\147\156\040  
\123\145\143\165\162\145\040\115\141\151\154\040\122\157\157\164  
\040\122\064\065

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

\002\020\166\123\376\250\114\120\253\237\215\062\265\035\003\217  
\127\334

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\005\160\060\202\003\130\240\003\002\001\002\002\020\166  
\123\376\250\114\120\253\237\215\062\265\035\003\217\127\334\060  
\015\006\011\052\206\110\206\367\015\001\001\014\005\000\060\122  
\061\013\060\011\006\003\125\004\006\023\002\102\105\061\031\060  
\027\006\003\125\004\012\023\020\107\154\157\142\141\154\123\151  
\147\156\040\156\166\055\163\141\061\050\060\046\006\003\125\004  
\003\023\037\107\154\157\142\141\154\123\151\147\156\040\123\145  
\143\165\162\145\040\115\141\151\154\040\122\157\157\164\040\122  
\064\065\060\036\027\015\062\060\060\063\061\070\060\060\060\060  
\060\060\132\027\015\064\065\060\063\061\070\060\060\060\060\060  
\060\132\060\122\061\013\060\011\006\003\125\004\006\023\002\102  
\105\061\031\060\027\006\003\125\004\012\023\020\107\154\157\142  
\141\154\123\151\147\156\040\156\166\055\163\141\061\050\060\046  
\006\003\125\004\003\023\037\107\154\157\142\141\154\123\151\147  
\156\040\123\145\143\165\162\145\040\115\141\151\154\040\122\157  
\157\164\040\122\064\065\060\202\002\042\060\015\006\011\052\206  
\110\206\367\015\001\001\001\005\000\003\202\002\017\000\060\202  
\002\012\002\202\002\001\000\334\171\314\155\006\371\155\273\340  
\126\004\154\177\340\165\314\055\005\111\350\113\334\124\354\133  
\167\225\162\277\177\142\235\205\251\212\044\120\137\123\345\333  
\164\157\244\051\133\023\052\011\255\232\305\057\302\367\166\073  
\241\105\106\252\103\346\044\376\053\260\157\062\160\031\106\132  
\171\046\057\374\075\175\137\144\313\127\314\141\141\250\331\225  
\156\343\225\240\156\177\107\022\030\326\357\003\311\373\212\372  
\232\275\202\025\251\125\167\113\021\117\131\340\153\303\161\363  
\014\330\124\325\201\150\076\023\271\025\056\207\212\074\104\047  
\066\142\044\156\370\054\005\162\060\141\275\102\221\043\304\235  
\045\247\331\124\232\024\243\061\255\200\171\014\247\143\154\230  
\243\254\127\107\063\037\145\226\341\320\322\065\332\371\161\367  
\241\246\045\265\101\135\337\076\140\330\321\366\237\245\362\270  
\314\023\252\217\371\262\156\341\203\055\223\335\076\205\032\335  
\350\261\134\046\001\313\111\205\374\374\322\324\177\205\142\206  
\164\371\313\354\065\042\242\014\060\217\073\253\171\353\126\362  
\372\102\363\355\371\037\105\211\100\051\255\352\222\164\352\122  
\375\126\264\053\332\242\355\165\302\156\253\316\122\220\113\366  
\336\360\111\217\232\110\324\210\031\155\105\346\314\214\271\335  
\144\140\140\002\100\370\271\317\274\130\353\075\205\271\306\012

\323\234\007\146\217\307\030\071\043\106\341\074\036\243\057\120  
\141\222\013\075\053\154\361\243\107\070\127\221\253\015\217\306  
\235\115\004\322\046\122\134\345\245\375\052\055\026\052\001\151  
\347\251\175\341\066\267\261\052\305\331\261\215\275\271\213\316  
\314\213\241\076\013\110\315\120\225\064\304\330\010\131\330\153  
\046\364\276\365\324\042\027\000\127\311\256\233\004\060\063\237  
\013\373\337\126\242\311\156\124\166\332\261\227\142\047\131\017  
\021\212\042\033\144\226\077\250\361\267\044\112\215\074\123\174  
\155\203\166\075\262\046\110\163\365\104\026\001\055\011\052\216  
\026\226\120\320\163\006\135\273\042\110\202\114\012\106\132\077  
\200\377\134\362\362\232\254\054\010\340\326\352\360\022\070\201  
\117\246\020\355\106\253\314\026\234\013\317\144\246\231\002\205  
\104\147\106\255\375\115\347\002\003\001\000\001\243\102\060\100  
\060\016\006\003\125\035\017\001\001\377\004\004\003\002\001\206  
\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001  
\377\060\035\006\003\125\035\016\004\026\004\024\240\223\025\050  
\156\356\217\010\262\065\306\236\142\171\164\247\261\016\053\173  
\060\015\006\011\052\206\110\206\367\015\001\001\014\005\000\003  
\202\002\001\000\105\012\370\321\134\254\142\201\320\004\327\266  
\377\127\121\211\013\014\313\336\044\145\067\373\253\236\355\146  
\364\352\014\031\151\211\270\031\261\060\126\264\331\366\367\276  
\306\256\227\313\105\366\021\214\072\060\144\114\301\237\131\300  
\106\102\010\006\107\144\027\170\340\225\007\006\326\214\242\254  
\251\331\077\323\173\126\117\374\304\207\050\337\266\053\026\043  
\300\237\037\133\343\326\104\136\042\117\043\004\214\065\026\265  
\171\007\206\134\057\227\342\366\010\144\246\334\333\250\212\343  
\244\173\167\015\321\051\223\050\040\264\123\243\113\116\137\336  
\301\366\165\043\374\037\074\170\117\160\061\170\057\242\065\124  
\161\004\254\310\304\155\303\366\221\261\376\315\356\104\156\201  
\366\100\305\076\052\001\277\253\114\261\003\077\015\021\344\017  
\322\044\343\042\210\233\237\137\107\075\121\111\340\011\067\176  
\027\041\061\166\267\147\161\110\050\113\045\327\020\350\237\141  
\131\026\305\076\062\116\037\014\316\243\314\017\344\307\021\007  
\042\057\070\010\335\133\227\353\102\154\131\232\232\356\172\320  
\235\337\305\333\011\103\056\012\252\031\075\153\350\152\060\172  
\127\346\277\263\152\071\251\217\343\361\117\145\150\266\275\237  
\050\217\241\026\132\011\120\072\062\056\035\057\104\021\102\246  
\000\346\061\230\377\055\241\017\346\244\140\126\317\171\327\262  
\116\327\260\372\156\014\127\043\307\316\037\245\261\114\155\031  
\111\236\016\177\160\217\161\077\130\050\237\165\335\141\340\072  
\267\071\266\356\227\324\065\121\373\213\111\140\310\074\146\256  
\227\356\215\046\131\127\273\170\360\172\120\060\011\260\140\252  
\237\116\334\311\076\036\072\334\142\223\063\260\072\124\164\157  
\054\061\105\321\153\021\062\152\150\166\366\075\366\152\023\136  
\044\230\347\352\035\232\317\170\202\007\140\367\115\020\323\201  
\232\105\215\236\257\233\334\200\307\103\262\225\150\244\303\016  
\350\012\107\025\277\124\063\334\001\347\325\246\036\163\330\172  
\262\277\057\255\343\125\060\236\337\016\101\274\340\021\365\241

```
\014\250\042\341\343\000\243\116\160\174\222\343\004\321\172\102
\212\165\220\131\343\233\321\114\242\144\275\163\171\233\157\362
\263\301\366\074
```

END

```
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRICT_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRICT_AFTER CK_BBOOL CK_FALSE
```

# Trust for "GlobalSign Secure Mail Root R45"

# Issuer: CN=GlobalSign Secure Mail Root R45,O=GlobalSign nv-sa,C=BE

# Serial Number:76:53:fe:a8:4c:50:ab:9f:8d:32:b5:1d:03:8f:57:dc

# Subject: CN=GlobalSign Secure Mail Root R45,O=GlobalSign nv-sa,C=BE

# Not Valid Before: Wed Mar 18 00:00:00 2020

# Not Valid After : Sat Mar 18 00:00:00 2045

# Fingerprint (SHA-256):

31:9A:F0:A7:72:9E:6F:89:26:9C:13:1E:A6:A3:A1:6F:CD:86:38:9F:DC:AB:3C:47:A4:A6:75:C1:61:A3:F9:74

# Fingerprint (SHA1): 76:18:D1:F3:80:24:3D:52:40:C6:11:6A:AD:57:77:09:7D:81:30:A0

```
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
```

```
CKA_TOKEN CK_BBOOL CK_TRUE
```

```
CKA_PRIVATE CK_BBOOL CK_FALSE
```

```
CKA_MODIFIABLE CK_BBOOL CK_FALSE
```

```
CKA_LABEL UTF8 "GlobalSign Secure Mail Root R45"
```

```
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
```

```
\166\030\321\363\200\044\075\122\100\306\021\152\255\127\167\011
\175\201\060\240
```

END

```
CKA_CERT_MD5_HASH MULTILINE_OCTAL
```

```
\223\304\173\263\016\124\107\034\103\054\213\276\160\205\142\051
```

END

```
CKA_ISSUER MULTILINE_OCTAL
```

```
\060\122\061\013\060\011\006\003\125\004\006\023\002\102\105\061
\031\060\027\006\003\125\004\012\023\020\107\154\157\142\141\154
\123\151\147\156\040\156\166\055\163\141\061\050\060\046\006\003
\125\004\003\023\037\107\154\157\142\141\154\123\151\147\156\040
\123\145\143\165\162\145\040\115\141\151\154\040\122\157\157\164
\040\122\064\065
```

END

```
CKA_SERIAL_NUMBER MULTILINE_OCTAL
```

```
\002\020\166\123\376\250\114\120\253\237\215\062\265\035\003\217
\127\334
```

END

```
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
```

```
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
```

```
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
```

```
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
```

#

# Certificate "GlobalSign Secure Mail Root E45"

```
#
Issuer: CN=GlobalSign Secure Mail Root E45,O=GlobalSign nv-sa,C=BE
Serial Number:76:53:fe:aa:27:1d:95:46:5d:d6:f1:9e:e5:b8:90:0a
Subject: CN=GlobalSign Secure Mail Root E45,O=GlobalSign nv-sa,C=BE
Not Valid Before: Wed Mar 18 00:00:00 2020
Not Valid After : Sat Mar 18 00:00:00 2045
Fingerprint (SHA-256):
5C:BF:6F:B8:1F:D4:17:EA:41:28:CD:6F:81:72:A3:C9:40:20:94:F7:4A:B2:ED:3A:06:B4:40:5D:04:F3:0B:19
Fingerprint (SHA1): 18:2E:1F:32:4F:89:DF:BE:FE:88:89:F0:93:C2:C4:A0:2B:67:75:21
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign Secure Mail Root E45"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\122\061\013\060\011\006\003\125\004\006\023\002\102\105\061
\031\060\027\006\003\125\004\012\023\020\107\154\157\142\141\154
\123\151\147\156\040\156\166\055\163\141\061\050\060\046\006\003
\125\004\003\023\037\107\154\157\142\141\154\123\151\147\156\040
\123\145\143\165\162\145\040\115\141\151\154\040\122\157\157\164
\040\105\064\065
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\122\061\013\060\011\006\003\125\004\006\023\002\102\105\061
\031\060\027\006\003\125\004\012\023\020\107\154\157\142\141\154
\123\151\147\156\040\156\166\055\163\141\061\050\060\046\006\003
\125\004\003\023\037\107\154\157\142\141\154\123\151\147\156\040
\123\145\143\165\162\145\040\115\141\151\154\040\122\157\157\164
\040\105\064\065
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\166\123\376\252\047\035\225\106\135\326\361\236\345\270
\220\012
END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\041\060\202\001\247\240\003\002\001\002\002\020\166
\123\376\252\047\035\225\106\135\326\361\236\345\270\220\012\060
\012\006\010\052\206\110\316\075\004\003\003\060\122\061\013\060
\011\006\003\125\004\006\023\002\102\105\061\031\060\027\006\003
\125\004\012\023\020\107\154\157\142\141\154\123\151\147\156\040
\156\166\055\163\141\061\050\060\046\006\003\125\004\003\023\037
\107\154\157\142\141\154\123\151\147\156\040\123\145\143\165\162
\145\040\115\141\151\154\040\122\157\157\164\040\105\064\065\060
\036\027\015\062\060\060\063\061\070\060\060\060\060\060\060\132
\027\015\064\065\060\063\061\070\060\060\060\060\060\060\132\060
\122\061\013\060\011\006\003\125\004\006\023\002\102\105\061\031
```

\060\027\006\003\125\004\012\023\020\107\154\157\142\141\154\123  
\151\147\156\040\156\166\055\163\141\061\050\060\046\006\003\125  
\004\003\023\037\107\154\157\142\141\154\123\151\147\156\040\123  
\145\143\165\162\145\040\115\141\151\154\040\122\157\157\164\040  
\105\064\065\060\166\060\020\006\007\052\206\110\316\075\002\001  
\006\005\053\201\004\000\042\003\142\000\004\371\171\213\201\107  
\067\211\226\077\105\111\120\177\032\046\013\223\062\176\056\300  
\300\247\010\232\303\156\217\233\076\013\042\354\067\123\267\157  
\212\260\274\047\067\113\155\251\106\073\331\037\377\245\241\104  
\273\055\163\277\236\101\007\134\123\233\121\010\072\132\273\157  
\070\307\026\221\170\302\112\023\151\035\202\337\132\057\000\210  
\226\242\056\034\164\371\235\176\146\067\212\243\102\060\100\060  
\016\006\003\125\035\017\001\001\377\004\004\003\002\001\206\060  
\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001\377  
\060\035\006\003\125\035\016\004\026\004\024\337\023\136\213\137  
\302\100\002\375\126\267\224\114\266\036\325\246\261\024\226\060  
\012\006\010\052\206\110\316\075\004\003\003\003\150\000\060\145  
\002\060\023\260\276\327\161\040\076\344\253\234\316\066\022\175  
\137\114\037\052\265\151\105\063\137\323\055\132\262\344\210\307  
\336\012\066\102\062\171\235\246\153\272\341\371\104\052\173\212  
\303\022\002\061\000\240\146\034\116\207\235\207\311\355\231\114  
\033\012\356\055\140\303\067\307\035\315\265\162\260\331\306\357  
\274\362\377\077\360\122\335\010\347\252\144\171\303\344\151\127  
\221\057\244\313\174

END

CKA\_NSS\_MOZILLA\_CA\_POLICY CK\_BBOOL CK\_TRUE  
CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE  
CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "GlobalSign Secure Mail Root E45"

# Issuer: CN=GlobalSign Secure Mail Root E45,O=GlobalSign nv-sa,C=BE

# Serial Number: 76:53:fe:aa:27:1d:95:46:5d:d6:f1:9e:e5:b8:90:0a

# Subject: CN=GlobalSign Secure Mail Root E45,O=GlobalSign nv-sa,C=BE

# Not Valid Before: Wed Mar 18 00:00:00 2020

# Not Valid After : Sat Mar 18 00:00:00 2045

# Fingerprint (SHA-256):

5C:BF:6F:B8:1F:D4:17:EA:41:28:CD:6F:81:72:A3:C9:40:20:94:F7:4A:B2:ED:3A:06:B4:40:5D:04:F3:0B:19

# Fingerprint (SHA1): 18:2E:1F:32:4F:89:DF:BE:FE:88:89:F0:93:C2:C4:A0:2B:67:75:21

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "GlobalSign Secure Mail Root E45"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

\030\056\037\062\117\211\337\276\376\210\211\360\223\302\304\240  
\053\147\165\041

END

CKA\_CERT\_MD5\_HASH MULTILINE\_OCTAL



\305\374\306\056\237\364\122\055\052\250\244\272\373\147\062\377

END

CKA\_ISSUER MULTILINE\_OCTAL

\060\122\061\013\060\011\006\003\125\004\006\023\002\102\105\061  
\031\060\027\006\003\125\004\012\023\020\107\154\157\142\141\154  
\123\151\147\156\040\156\166\055\163\141\061\050\060\046\006\003  
\125\004\003\023\037\107\154\157\142\141\154\123\151\147\156\040  
\123\145\143\165\162\145\040\115\141\151\154\040\122\157\157\164  
\040\105\064\065

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

\002\020\166\123\376\252\047\035\225\106\135\326\361\236\345\270  
\220\012

END

CKA\_TRUST\_SERVER\_AUTH CK\_TRUST CKT\_NSS\_MUST\_VERIFY\_TRUST

CKA\_TRUST\_EMAIL\_PROTECTION CK\_TRUST CKT\_NSS\_TRUSTED\_DELEGATOR

CKA\_TRUST\_CODE\_SIGNING CK\_TRUST CKT\_NSS\_MUST\_VERIFY\_TRUST

CKA\_TRUST\_STEP\_UP\_APPROVED CK\_BBOOL CK\_FALSE

#

# Certificate "GlobalSign Root R46"

#

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

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

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

# Not Valid Before: Wed Mar 20 00:00:00 2019

# Not Valid After : Tue Mar 20 00:00:00 2046

# Fingerprint (SHA-256):

4F:A3:12:6D:8D:3A:11:D1:C4:85:5A:4F:80:7C:BA:D6:CF:91:9D:3A:5A:88:B0:3B:EA:2C:63:72:D9:3C:40:C9

# Fingerprint (SHA1): 53:A2:B0:4B:CA:6B:D6:45:E6:39:8A:8E:C4:0D:D2:BF:77:C3:A2:90

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_CERTIFICATE

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "GlobalSign Root R46"

CKA\_CERTIFICATE\_TYPE CK\_CERTIFICATE\_TYPE CKC\_X\_509

CKA\_SUBJECT MULTILINE\_OCTAL

\060\106\061\013\060\011\006\003\125\004\006\023\002\102\105\061  
\031\060\027\006\003\125\004\012\023\020\107\154\157\142\141\154  
\123\151\147\156\040\156\166\055\163\141\061\034\060\032\006\003  
\125\004\003\023\023\107\154\157\142\141\154\123\151\147\156\040  
\122\157\157\164\040\122\064\066

END

CKA\_ID UTF8 "0"

CKA\_ISSUER MULTILINE\_OCTAL

\060\106\061\013\060\011\006\003\125\004\006\023\002\102\105\061  
\031\060\027\006\003\125\004\012\023\020\107\154\157\142\141\154  
\123\151\147\156\040\156\166\055\163\141\061\034\060\032\006\003

\125\004\003\023\023\107\154\157\142\141\154\123\151\147\156\040  
\122\157\157\164\040\122\064\066  
END  
CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL  
\002\022\021\322\273\271\327\043\030\236\100\137\012\235\055\320  
\337\045\147\321  
END  
CKA\_VALUE MULTILINE\_OCTAL  
\060\202\005\132\060\202\003\102\240\003\002\001\002\002\022\021  
\322\273\271\327\043\030\236\100\137\012\235\055\320\337\045\147  
\321\060\015\006\011\052\206\110\206\367\015\001\001\014\005\000  
\060\106\061\013\060\011\006\003\125\004\006\023\002\102\105\061  
\031\060\027\006\003\125\004\012\023\020\107\154\157\142\141\154  
\123\151\147\156\040\156\166\055\163\141\061\034\060\032\006\003  
\125\004\003\023\023\107\154\157\142\141\154\123\151\147\156\040  
\122\157\157\164\040\122\064\066\060\036\027\015\061\071\060\063  
\062\060\060\060\060\060\060\060\132\027\015\064\066\060\063\062  
\060\060\060\060\060\060\060\132\060\106\061\013\060\011\006\003  
\125\004\006\023\002\102\105\061\031\060\027\006\003\125\004\012  
\023\020\107\154\157\142\141\154\123\151\147\156\040\156\166\055  
\163\141\061\034\060\032\006\003\125\004\003\023\023\107\154\157  
\142\141\154\123\151\147\156\040\122\157\157\164\040\122\064\066  
\060\202\002\042\060\015\006\011\052\206\110\206\367\015\001\001  
\001\005\000\003\202\002\017\000\060\202\002\012\002\202\002\001  
\000\254\254\164\062\350\263\145\345\272\355\103\046\035\246\211  
\015\105\272\051\210\262\244\035\143\335\323\301\054\011\127\211  
\071\241\125\351\147\064\167\014\156\344\125\035\122\045\322\023  
\153\136\341\035\251\267\175\211\062\137\015\236\237\054\172\143  
\140\100\037\246\260\266\170\217\231\124\226\010\130\256\344\006  
\274\142\005\002\026\277\257\250\043\003\266\224\017\274\156\154  
\302\313\325\246\273\014\351\366\301\002\373\041\336\146\335\027  
\253\164\102\357\360\164\057\045\364\352\153\125\133\220\333\235  
\337\136\207\012\100\373\255\031\153\373\367\312\140\210\336\332  
\301\217\326\256\325\177\324\074\203\356\327\026\114\203\105\063  
\153\047\320\206\320\034\055\153\363\253\175\361\205\251\365\050  
\322\255\357\363\204\113\034\207\374\023\243\072\162\242\132\021  
\053\326\047\161\047\355\201\055\155\146\201\222\207\264\033\130  
\172\314\077\012\372\106\117\115\170\134\370\053\110\343\004\204  
\313\135\366\264\152\263\145\374\102\236\121\046\043\040\313\075  
\024\371\201\355\145\026\000\117\032\144\227\146\010\317\214\173  
\343\053\300\235\371\024\362\033\361\126\152\026\277\054\205\205  
\315\170\070\232\353\102\152\002\064\030\203\027\116\224\126\370  
\266\202\265\363\226\335\075\363\276\177\040\167\076\173\031\043  
\153\054\324\162\163\103\127\175\340\370\327\151\117\027\066\004  
\371\300\220\140\067\105\336\346\014\330\164\215\256\234\242\155  
\164\135\102\276\006\365\331\144\156\002\020\254\211\260\114\073  
\007\115\100\176\044\305\212\230\202\171\216\244\247\202\040\215  
\043\372\047\161\311\337\306\101\164\240\115\366\221\026\334\106

\214\137\051\143\061\131\161\014\330\157\302\266\062\175\373\346  
\135\123\246\176\025\374\273\165\174\135\354\370\366\027\034\354  
\307\153\031\313\363\173\360\053\007\245\331\154\171\124\166\154  
\235\034\246\156\016\351\171\014\250\043\152\243\337\033\060\061  
\237\261\124\173\376\152\313\146\252\334\145\320\242\236\112\232  
\007\041\153\201\217\333\304\131\372\336\042\300\004\234\343\252  
\133\066\223\350\075\275\172\241\235\013\166\261\013\307\235\375  
\317\230\250\006\302\370\052\243\241\203\240\267\045\162\245\002  
\343\002\003\001\000\001\243\102\060\100\060\016\006\003\125\035  
\017\001\001\377\004\004\003\002\001\206\060\017\006\003\125\035  
\023\001\001\377\004\005\060\003\001\001\377\060\035\006\003\125  
\035\016\004\026\004\024\003\134\253\163\201\207\250\314\260\246  
\325\224\342\066\226\111\377\005\231\054\060\015\006\011\052\206  
\110\206\367\015\001\001\014\005\000\003\202\002\001\000\174\170  
\354\366\002\054\273\133\176\222\053\135\071\334\276\330\035\242  
\102\063\115\371\357\244\052\073\104\151\036\254\331\105\243\116  
\074\247\330\044\121\262\124\034\223\116\304\357\173\223\205\140  
\046\352\011\110\340\365\273\307\351\150\322\273\152\061\161\314  
\171\256\021\250\360\231\375\345\037\274\057\250\314\127\353\166  
\304\041\246\107\123\125\115\150\277\005\244\356\327\046\253\142  
\332\103\067\113\342\306\265\345\262\203\031\072\307\323\333\115  
\236\010\172\363\356\317\076\142\373\254\350\140\314\321\307\241  
\134\203\105\304\105\314\363\027\153\024\311\004\002\076\322\044  
\246\171\351\036\316\242\347\301\131\025\237\035\342\113\232\076  
\237\166\010\055\153\330\272\127\024\332\203\352\376\214\125\351  
\320\116\251\314\167\061\261\104\021\172\134\261\076\323\024\105  
\025\030\142\044\023\322\313\115\316\134\203\301\066\362\020\265  
\016\210\155\270\341\126\237\211\336\226\146\071\107\144\054\156  
\115\256\142\173\277\140\164\031\270\126\254\222\254\026\062\355  
\255\150\125\376\230\272\323\064\336\364\311\141\303\016\206\366  
\113\204\140\356\015\173\265\062\130\171\221\125\054\201\103\263  
\164\037\172\252\045\236\035\327\241\213\271\315\102\056\004\244  
\146\203\115\211\065\266\154\250\066\112\171\041\170\042\320\102  
\274\321\100\061\220\241\276\004\317\312\147\355\365\360\200\323  
\140\311\203\052\042\005\320\007\073\122\277\014\236\252\053\371  
\273\346\037\217\045\272\205\215\027\036\002\376\135\120\004\127  
\317\376\055\274\357\134\300\032\253\266\237\044\306\337\163\150  
\110\220\054\024\364\077\122\032\344\322\313\024\303\141\151\317  
\342\371\030\305\272\063\237\024\243\004\135\271\161\367\265\224  
\330\366\063\301\132\301\064\213\174\233\335\223\072\347\023\242  
\160\141\237\257\217\353\330\305\165\370\063\146\324\164\147\072  
\067\167\234\347\335\244\017\166\103\146\212\103\362\237\373\014  
\102\170\143\321\342\017\157\173\324\241\075\164\227\205\267\110  
\071\101\326\040\374\320\072\263\372\350\157\304\212\272\161\067  
\276\213\227\261\170\061\117\263\347\266\003\023\316\124\235\256  
\045\131\314\177\065\137\010\367\100\105\061\170\052\172

END

CKA\_NSS\_MOZILLA\_CA\_POLICY CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "GlobalSign Root R46"

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

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

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

# Not Valid Before: Wed Mar 20 00:00:00 2019

# Not Valid After : Tue Mar 20 00:00:00 2046

# Fingerprint (SHA-256):

4F:A3:12:6D:8D:3A:11:D1:C4:85:5A:4F:80:7C:BA:D6:CF:91:9D:3A:5A:88:B0:3B:EA:2C:63:72:D9:3C:40:C9

# Fingerprint (SHA1): 53:A2:B0:4B:CA:6B:D6:45:E6:39:8A:8E:C4:0D:D2:BF:77:C3:A2:90

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "GlobalSign Root R46"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

\123\242\260\113\312\153\326\105\346\071\212\216\304\015\322\277

\167\303\242\220

END

CKA\_CERT\_MD5\_HASH MULTILINE\_OCTAL

\304\024\060\344\372\146\103\224\052\152\033\044\137\031\320\357

END

CKA\_ISSUER MULTILINE\_OCTAL

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

\031\060\027\006\003\125\004\012\023\020\107\154\157\142\141\154

\123\151\147\156\040\156\166\055\163\141\061\034\060\032\006\003

\125\004\003\023\023\107\154\157\142\141\154\123\151\147\156\040

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

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

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

\337\045\147\321

END

CKA\_TRUST\_SERVER\_AUTH CK\_TRUST CKT\_NSS\_TRUSTED\_DELEGATOR

CKA\_TRUST\_EMAIL\_PROTECTION CK\_TRUST CKT\_NSS\_MUST\_VERIFY\_TRUST

CKA\_TRUST\_CODE\_SIGNING CK\_TRUST CKT\_NSS\_MUST\_VERIFY\_TRUST

CKA\_TRUST\_STEP\_UP\_APPROVED CK\_BBOOL CK\_FALSE

#

# Certificate "GlobalSign Root E46"

#

# Issuer: CN=GlobalSign Root E46,O=GlobalSign nv-sa,C=BE

# Serial Number:11:d2:bb:ba:33:6e:d4:bc:e6:24:68:c5:0d:84:1d:98:e8:43

# Subject: CN=GlobalSign Root E46,O=GlobalSign nv-sa,C=BE

# Not Valid Before: Wed Mar 20 00:00:00 2019

# Not Valid After : Tue Mar 20 00:00:00 2046

# Fingerprint (SHA-256):

CB:B9:C4:4D:84:B8:04:3E:10:50:EA:31:A6:9F:51:49:55:D7:BF:D2:E2:C6:B4:93:01:01:9A:D6:1D:9F:50:58

# Fingerprint (SHA1): 39:B4:6C:D5:FE:80:06:EB:E2:2F:4A:BB:08:33:A0:AF:DB:B9:DD:84

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_CERTIFICATE

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "GlobalSign Root E46"

CKA\_CERTIFICATE\_TYPE CK\_CERTIFICATE\_TYPE CKC\_X\_509

CKA\_SUBJECT MULTILINE\_OCTAL

\060\106\061\013\060\011\006\003\125\004\006\023\002\102\105\061  
\031\060\027\006\003\125\004\012\023\020\107\154\157\142\141\154  
\123\151\147\156\040\156\166\055\163\141\061\034\060\032\006\003  
\125\004\003\023\023\107\154\157\142\141\154\123\151\147\156\040  
\122\157\157\164\040\105\064\066

END

CKA\_ID UTF8 "0"

CKA\_ISSUER MULTILINE\_OCTAL

\060\106\061\013\060\011\006\003\125\004\006\023\002\102\105\061  
\031\060\027\006\003\125\004\012\023\020\107\154\157\142\141\154  
\123\151\147\156\040\156\166\055\163\141\061\034\060\032\006\003  
\125\004\003\023\023\107\154\157\142\141\154\123\151\147\156\040  
\122\157\157\164\040\105\064\066

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

\002\022\021\322\273\272\063\156\324\274\346\044\150\305\015\204  
\035\230\350\103

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\002\013\060\202\001\221\240\003\002\001\002\002\022\021  
\322\273\272\063\156\324\274\346\044\150\305\015\204\035\230\350  
\103\060\012\006\010\052\206\110\316\075\004\003\003\060\106\061  
\013\060\011\006\003\125\004\006\023\002\102\105\061\031\060\027  
\006\003\125\004\012\023\020\107\154\157\142\141\154\123\151\147  
\156\040\156\166\055\163\141\061\034\060\032\006\003\125\004\003  
\023\023\107\154\157\142\141\154\123\151\147\156\040\122\157\157  
\164\040\105\064\066\060\036\027\015\061\071\060\063\062\060\060  
\060\060\060\060\060\132\027\015\064\066\060\063\062\060\060\060  
\060\060\060\060\132\060\106\061\013\060\011\006\003\125\004\006  
\023\002\102\105\061\031\060\027\006\003\125\004\012\023\020\107  
\154\157\142\141\154\123\151\147\156\040\156\166\055\163\141\061  
\034\060\032\006\003\125\004\003\023\023\107\154\157\142\141\154  
\123\151\147\156\040\122\157\157\164\040\105\064\066\060\166\060  
\020\006\007\052\206\110\316\075\002\001\006\005\053\201\004\000  
\042\003\142\000\004\234\016\261\317\267\350\236\122\167\165\064  
\372\245\106\247\255\062\031\062\264\007\251\047\312\224\273\014  
\322\012\020\307\332\211\260\227\014\160\023\011\001\216\330\352  
\107\352\276\262\200\053\315\374\050\015\333\254\274\244\206\067

```
\355\160\010\000\165\352\223\013\173\056\122\234\043\150\043\006
\103\354\222\057\123\204\333\373\107\024\007\350\137\224\147\135
\311\172\201\074\040\243\102\060\100\060\016\006\003\125\035\017
\001\001\377\004\004\003\002\001\206\060\017\006\003\125\035\023
\001\001\377\004\005\060\003\001\001\377\060\035\006\003\125\035
\016\004\026\004\024\061\012\220\217\266\306\235\322\104\113\200
\265\242\346\037\261\022\117\033\225\060\012\006\010\052\206\110
\316\075\004\003\003\003\150\000\060\145\002\061\000\337\124\220
\355\233\357\213\224\002\223\027\202\231\276\263\236\054\366\013
\221\214\237\112\024\261\366\144\274\273\150\121\023\014\003\367
\025\213\204\140\271\213\377\122\216\347\214\274\034\002\060\074
\371\021\324\214\116\300\301\141\302\025\114\252\253\035\013\061
\137\073\034\342\000\227\104\061\346\376\163\226\057\332\226\323
\376\010\007\263\064\211\274\005\237\367\036\206\356\213\160
```

END

```
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRICT_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRICT_AFTER CK_BBOOL CK_FALSE
```

```
Trust for "GlobalSign Root E46"
```

```
Issuer: CN=GlobalSign Root E46,O=GlobalSign nv-sa,C=BE
```

```
Serial Number:11:d2:bb:ba:33:6e:d4:bc:e6:24:68:c5:0d:84:1d:98:e8:43
```

```
Subject: CN=GlobalSign Root E46,O=GlobalSign nv-sa,C=BE
```

```
Not Valid Before: Wed Mar 20 00:00:00 2019
```

```
Not Valid After : Tue Mar 20 00:00:00 2046
```

```
Fingerprint (SHA-256):
```

```
CB:B9:C4:4D:84:B8:04:3E:10:50:EA:31:A6:9F:51:49:55:D7:BF:D2:E2:C6:B4:93:01:01:9A:D6:1D:9F:50:58
```

```
Fingerprint (SHA1): 39:B4:6C:D5:FE:80:06:EB:E2:2F:4A:BB:08:33:A0:AF:DB:B9:DD:84
```

```
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
```

```
CKA_TOKEN CK_BBOOL CK_TRUE
```

```
CKA_PRIVATE CK_BBOOL CK_FALSE
```

```
CKA_MODIFIABLE CK_BBOOL CK_FALSE
```

```
CKA_LABEL UTF8 "GlobalSign Root E46"
```

```
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
```

```
\071\264\154\325\376\200\006\353\342\057\112\273\010\063\240\257
\333\271\335\204
```

END

```
CKA_CERT_MD5_HASH MULTILINE_OCTAL
```

```
\265\270\146\355\336\010\203\343\311\342\001\064\006\254\121\157
```

END

```
CKA_ISSUER MULTILINE_OCTAL
```

```
\060\106\061\013\060\011\006\003\125\004\006\023\002\102\105\061
\031\060\027\006\003\125\004\012\023\020\107\154\157\142\141\154
\123\151\147\156\040\156\166\055\163\141\061\034\060\032\006\003
\125\004\003\023\023\107\154\157\142\141\154\123\151\147\156\040
\122\157\157\164\040\105\064\066
```

END

```
CKA_SERIAL_NUMBER MULTILINE_OCTAL
```

\002\022\021\322\273\272\063\156\324\274\346\044\150\305\015\204  
\035\230\350\103

END

CKA\_TRUST\_SERVER\_AUTH CK\_TRUST CKT\_NSS\_TRUSTED\_DELEGATOR  
CKA\_TRUST\_EMAIL\_PROTECTION CK\_TRUST CKT\_NSS\_MUST\_VERIFY\_TRUST  
CKA\_TRUST\_CODE\_SIGNING CK\_TRUST CKT\_NSS\_MUST\_VERIFY\_TRUST  
CKA\_TRUST\_STEP\_UP\_APPROVED CK\_BBOOL CK\_FALSE

#

# Certificate "GLOBALTRUST 2020"

#

# Issuer: CN=GLOBALTRUST 2020,O=e-commerce monitoring GmbH,C=AT

# Serial Number:5a:4b:bd:5a:fb:4f:8a:5b:fa:65:e5

# Subject: CN=GLOBALTRUST 2020,O=e-commerce monitoring GmbH,C=AT

# Not Valid Before: Mon Feb 10 00:00:00 2020

# Not Valid After : Sun Jun 10 00:00:00 2040

# Fingerprint (SHA-256):

9A:29:6A:51:82:D1:D4:51:A2:E3:7F:43:9B:74:DA:AF:A2:67:52:33:29:F9:0F:9A:0D:20:07:C3:34:E2:3C:9A

# Fingerprint (SHA1): D0:67:C1:13:51:01:0C:AA:D0:C7:6A:65:37:31:16:26:4F:53:71:A2

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_CERTIFICATE

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "GLOBALTRUST 2020"

CKA\_CERTIFICATE\_TYPE CK\_CERTIFICATE\_TYPE CKC\_X\_509

CKA\_SUBJECT MULTILINE\_OCTAL

\060\115\061\013\060\011\006\003\125\004\006\023\002\101\124\061  
\043\060\041\006\003\125\004\012\023\032\145\055\143\157\155\155  
\145\162\143\145\040\155\157\156\151\164\157\162\151\156\147\040  
\107\155\142\110\061\031\060\027\006\003\125\004\003\023\020\107  
\114\117\102\101\114\124\122\125\123\124\040\062\060\062\060

END

CKA\_ID UTF8 "0"

CKA\_ISSUER MULTILINE\_OCTAL

\060\115\061\013\060\011\006\003\125\004\006\023\002\101\124\061  
\043\060\041\006\003\125\004\012\023\032\145\055\143\157\155\155  
\145\162\143\145\040\155\157\156\151\164\157\162\151\156\147\040  
\107\155\142\110\061\031\060\027\006\003\125\004\003\023\020\107  
\114\117\102\101\114\124\122\125\123\124\040\062\060\062\060

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

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

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\005\202\060\202\003\152\240\003\002\001\002\002\013\132  
\113\275\132\373\117\212\133\372\145\345\060\015\006\011\052\206  
\110\206\367\015\001\001\013\005\000\060\115\061\013\060\011\006  
\003\125\004\006\023\002\101\124\061\043\060\041\006\003\125\004

\012\023\032\145\055\143\157\155\155\145\162\143\145\040\155\157  
\156\151\164\157\162\151\156\147\040\107\155\142\110\061\031\060  
\027\006\003\125\004\003\023\020\107\114\117\102\101\114\124\122  
\125\123\124\040\062\060\062\060\060\060\036\027\015\062\060\060\062  
\061\060\060\060\060\060\060\060\132\027\015\064\060\060\066\061  
\060\060\060\060\060\060\060\132\060\115\061\013\060\011\006\003  
\125\004\006\023\002\101\124\061\043\060\041\006\003\125\004\012  
\023\032\145\055\143\157\155\155\145\162\143\145\040\155\157\156  
\151\164\157\162\151\156\147\040\107\155\142\110\061\031\060\027  
\006\003\125\004\003\023\020\107\114\117\102\101\114\124\122\125  
\123\124\040\062\060\062\060\060\202\002\042\060\015\006\011\052  
\206\110\206\367\015\001\001\001\005\000\003\202\002\017\000\060  
\202\002\012\002\202\002\001\000\256\056\126\255\033\034\357\366  
\225\217\240\167\033\053\323\143\217\204\115\105\242\017\237\133  
\105\253\131\173\121\064\371\354\213\212\170\305\335\153\257\275  
\304\337\223\105\036\277\221\070\013\256\016\026\347\101\163\370  
\333\273\321\270\121\340\313\203\073\163\070\156\167\212\017\131  
\143\046\315\247\052\316\124\373\270\342\300\174\107\316\140\174  
\077\262\163\362\300\031\266\212\222\207\065\015\220\050\242\344  
\025\004\143\076\272\257\356\174\136\314\246\213\120\262\070\367  
\101\143\312\316\377\151\217\150\016\225\066\345\314\271\214\011  
\312\113\335\061\220\226\310\314\037\375\126\226\064\333\216\034  
\352\054\276\205\056\143\335\252\251\225\323\375\051\225\023\360  
\310\230\223\331\055\026\107\220\021\203\242\072\042\242\050\127  
\242\353\376\300\214\050\240\246\175\347\052\102\073\202\200\143  
\245\143\037\031\314\174\262\146\250\302\323\155\067\157\342\176  
\006\121\331\105\204\037\022\316\044\122\144\205\013\110\200\116  
\207\261\042\042\060\252\353\256\276\340\002\340\100\350\260\102  
\200\003\121\252\264\176\252\104\327\103\141\363\242\153\026\211  
\111\244\243\244\053\212\002\304\170\364\150\212\301\344\172\066  
\261\157\033\226\033\167\111\215\324\311\006\162\217\317\123\343  
\334\027\205\040\112\334\230\047\323\221\046\053\107\036\151\007  
\257\336\242\344\344\324\153\013\263\136\174\324\044\200\107\051  
\151\073\156\350\254\375\100\353\330\355\161\161\053\362\350\130  
\035\353\101\227\042\305\037\324\071\320\047\217\207\343\030\364  
\340\251\106\015\365\164\072\202\056\320\156\054\221\243\061\134  
\073\106\352\173\004\020\126\136\200\035\365\245\145\350\202\374  
\342\007\214\142\105\365\040\336\106\160\206\241\274\223\323\036  
\164\246\154\260\054\367\003\014\210\014\313\324\162\123\206\274  
\140\106\363\230\152\302\361\277\103\371\160\040\167\312\067\101  
\171\125\122\143\215\133\022\237\305\150\304\210\235\254\362\060  
\253\267\243\061\227\147\255\217\027\017\154\307\163\355\044\224  
\153\310\203\232\320\232\067\111\004\253\261\026\310\154\111\111  
\055\253\241\320\214\222\362\101\112\171\041\045\333\143\327\266  
\234\247\176\102\151\373\072\143\002\003\001\000\001\243\143\060  
\141\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001  
\001\377\060\016\006\003\125\035\017\001\001\377\004\004\003\002  
\001\006\060\035\006\003\125\035\016\004\026\004\024\334\056\037



\321\141\067\171\344\253\325\325\263\022\161\150\075\152\150\234  
\042\060\037\006\003\125\035\043\004\030\060\026\200\024\334\056  
\037\321\141\067\171\344\253\325\325\263\022\161\150\075\152\150  
\234\042\060\015\006\011\052\206\110\206\367\015\001\001\013\005  
\000\003\202\002\001\000\221\360\102\002\150\100\356\303\150\300  
\124\057\337\354\142\303\303\236\212\240\061\050\252\203\216\244  
\126\226\022\020\206\126\272\227\162\322\124\060\174\255\031\325  
\035\150\157\373\024\102\330\215\016\363\265\321\245\343\002\102  
\136\334\350\106\130\007\065\002\060\340\274\164\112\301\103\052  
\377\333\032\320\260\257\154\303\375\313\263\365\177\155\003\056  
\131\126\235\055\055\065\214\262\326\103\027\054\222\012\313\135  
\350\214\017\113\160\103\320\202\377\250\314\277\244\224\300\276  
\207\275\212\343\223\173\306\217\233\026\235\047\145\274\172\305  
\102\202\154\134\007\320\251\301\210\140\104\351\230\205\026\137  
\370\217\312\001\020\316\045\303\371\140\033\240\305\227\303\323  
\054\210\061\242\275\060\354\320\320\300\022\361\301\071\343\345  
\365\370\326\112\335\064\315\373\157\301\117\343\000\213\126\342  
\222\367\050\262\102\167\162\043\147\307\077\021\025\262\304\003  
\005\276\273\021\173\012\277\250\156\347\377\130\103\317\233\147  
\240\200\007\266\035\312\255\155\352\101\021\176\055\164\223\373  
\302\274\276\121\104\305\357\150\045\047\200\343\310\240\324\022  
\354\331\245\067\035\067\174\264\221\312\332\324\261\226\201\357  
\150\134\166\020\111\257\176\245\067\200\261\034\122\275\063\201  
\114\217\371\335\145\331\024\315\212\045\130\364\342\305\203\245  
\011\220\324\154\024\143\265\100\337\353\300\374\304\130\176\015  
\024\026\207\124\047\156\126\344\160\204\270\154\062\022\176\202  
\061\103\276\327\335\174\241\255\256\326\253\040\022\357\012\303  
\020\214\111\226\065\334\013\165\136\261\117\325\117\064\016\021  
\040\007\165\103\105\351\243\021\332\254\243\231\302\266\171\047  
\342\271\357\310\342\366\065\051\172\164\372\305\177\202\005\142  
\246\012\352\150\262\171\107\006\156\362\127\250\025\063\306\367  
\170\112\075\102\173\153\176\376\367\106\352\321\353\216\357\210  
\150\133\350\301\331\161\176\375\144\357\377\147\107\210\130\045  
\057\076\206\007\275\373\250\345\202\250\254\245\323\151\103\315  
\061\210\111\204\123\222\300\261\071\033\071\203\001\060\304\362  
\251\372\320\003\275\162\067\140\126\037\066\174\275\071\221\365  
\155\015\277\173\327\222

END

CKA\_NSS\_MOZILLA\_CA\_POLICY CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "GLOBALTRUST 2020"

# Issuer: CN=GLOBALTRUST 2020,O=e-commerce monitoring GmbH,C=AT

# Serial Number:5a:4b:bd:5a:fb:4f:8a:5b:fa:65:e5

# Subject: CN=GLOBALTRUST 2020,O=e-commerce monitoring GmbH,C=AT

# Not Valid Before: Mon Feb 10 00:00:00 2020

# Not Valid After : Sun Jun 10 00:00:00 2040

```

Fingerprint (SHA-256):
9A:29:6A:51:82:D1:D4:51:A2:E3:7F:43:9B:74:DA:AF:A2:67:52:33:29:F9:0F:9A:0D:20:07:C3:34:E2:3C:9A
Fingerprint (SHA1): D0:67:C1:13:51:01:0C:AA:D0:C7:6A:65:37:31:16:26:4F:53:71:A2
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GLOBALTRUST 2020"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\320\147\301\023\121\001\014\252\320\307\152\145\067\061\026\046
\117\123\161\242
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\212\307\157\313\155\343\314\242\361\174\203\372\016\170\327\350
END
CKA_ISSUER MULTILINE_OCTAL
\060\115\061\013\060\011\006\003\125\004\006\023\002\101\124\061
\043\060\041\006\003\125\004\012\023\032\145\055\143\157\155\155
\145\162\143\145\040\155\157\156\151\164\157\162\151\156\147\040
\107\155\142\110\061\031\060\027\006\003\125\004\003\023\020\107
\114\117\102\101\114\124\122\125\123\124\040\062\060\062\060
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\013\132\113\275\132\373\117\212\133\372\145\345
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "ANF Secure Server Root CA"
#
Issuer: CN=ANF Secure Server Root CA,OU=ANF CA Raiz,O=ANF Autoridad de
Certificacion,C=ES,serialNumber=G63287510
Serial Number:0d:d3:e3:bc:6c:f9:6b:b1
Subject: CN=ANF Secure Server Root CA,OU=ANF CA Raiz,O=ANF Autoridad de
Certificacion,C=ES,serialNumber=G63287510
Not Valid Before: Wed Sep 04 10:00:38 2019
Not Valid After : Tue Aug 30 10:00:38 2039
Fingerprint (SHA-256):
FB:8F:EC:75:91:69:B9:10:6B:1E:51:16:44:C6:18:C5:13:04:37:3F:6C:06:43:08:8D:8B:EF:FD:1B:99:75:99
Fingerprint (SHA1): 5B:6E:68:D0:CC:15:B6:A0:5F:1E:C1:5F:AE:02:FC:6B:2F:5D:6F:74
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ANF Secure Server Root CA"

```

CKA\_CERTIFICATE\_TYPE CK\_CERTIFICATE\_TYPE CKC\_X\_509

CKA\_SUBJECT MULTILINE\_OCTAL

\060\201\204\061\022\060\020\006\003\125\004\005\023\011\107\066  
\063\062\070\067\065\061\060\061\013\060\011\006\003\125\004\006  
\023\002\105\123\061\047\060\045\006\003\125\004\012\023\036\101  
\116\106\040\101\165\164\157\162\151\144\141\144\040\144\145\040  
\103\145\162\164\151\146\151\143\141\143\151\157\156\061\024\060  
\022\006\003\125\004\013\023\013\101\116\106\040\103\101\040\122  
\141\151\172\061\042\060\040\006\003\125\004\003\023\031\101\116  
\106\040\123\145\143\165\162\145\040\123\145\162\166\145\162\040  
\122\157\157\164\040\103\101

END

CKA\_ID UTF8 "0"

CKA\_ISSUER MULTILINE\_OCTAL

\060\201\204\061\022\060\020\006\003\125\004\005\023\011\107\066  
\063\062\070\067\065\061\060\061\013\060\011\006\003\125\004\006  
\023\002\105\123\061\047\060\045\006\003\125\004\012\023\036\101  
\116\106\040\101\165\164\157\162\151\144\141\144\040\144\145\040  
\103\145\162\164\151\146\151\143\141\143\151\157\156\061\024\060  
\022\006\003\125\004\013\023\013\101\116\106\040\103\101\040\122  
\141\151\172\061\042\060\040\006\003\125\004\003\023\031\101\116  
\106\040\123\145\143\165\162\145\040\123\145\162\166\145\162\040  
\122\157\157\164\040\103\101

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

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

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\005\357\060\202\003\327\240\003\002\001\002\002\010\015  
\323\343\274\154\371\153\261\060\015\006\011\052\206\110\206\367  
\015\001\001\013\005\000\060\201\204\061\022\060\020\006\003\125  
\004\005\023\011\107\066\063\062\070\067\065\061\060\061\013\060  
\011\006\003\125\004\006\023\002\105\123\061\047\060\045\006\003  
\125\004\012\023\036\101\116\106\040\101\165\164\157\162\151\144  
\141\144\040\144\145\040\103\145\162\164\151\146\151\143\141\143  
\151\157\156\061\024\060\022\006\003\125\004\013\023\013\101\116  
\106\040\103\101\040\122\141\151\172\061\042\060\040\006\003\125  
\004\003\023\031\101\116\106\040\123\145\143\165\162\145\040\123  
\145\162\166\145\162\040\122\157\157\164\040\103\101\060\036\027  
\015\061\071\060\071\060\064\061\060\060\060\063\070\132\027\015  
\063\071\060\070\063\060\061\060\060\060\063\070\132\060\201\204  
\061\022\060\020\006\003\125\004\005\023\011\107\066\063\062\070  
\067\065\061\060\061\013\060\011\006\003\125\004\006\023\002\105  
\123\061\047\060\045\006\003\125\004\012\023\036\101\116\106\040  
\101\165\164\157\162\151\144\141\144\040\144\145\040\103\145\162  
\164\151\146\151\143\141\143\151\157\156\061\024\060\022\006\003  
\125\004\013\023\013\101\116\106\040\103\101\040\122\141\151\172  
\061\042\060\040\006\003\125\004\003\023\031\101\116\106\040\123

\145\143\165\162\145\040\123\145\162\166\145\162\040\122\157\157  
\164\040\103\101\060\202\002\042\060\015\006\011\052\206\110\206  
\367\015\001\001\001\005\000\003\202\002\017\000\060\202\002\012  
\002\202\002\001\000\333\353\153\053\346\144\124\225\202\220\243  
\162\244\031\001\235\234\013\201\137\163\111\272\247\254\363\004  
\116\173\226\013\354\021\340\133\246\034\316\033\322\015\203\034  
\053\270\236\035\176\105\062\140\017\007\351\167\130\176\237\152  
\310\141\116\266\046\301\114\215\377\114\357\064\262\037\145\330  
\271\170\365\255\251\161\271\357\117\130\035\245\336\164\040\227  
\241\355\150\114\336\222\027\113\274\253\377\145\232\236\373\107  
\331\127\162\363\011\241\256\166\104\023\156\234\055\104\071\274  
\371\307\073\244\130\075\101\275\264\302\111\243\310\015\322\227  
\057\007\145\122\000\247\156\310\257\150\354\364\024\226\266\127  
\037\126\303\071\237\053\155\344\363\076\366\065\144\332\014\034  
\241\204\113\057\113\113\342\054\044\235\155\223\100\353\265\043  
\216\062\312\157\105\323\250\211\173\036\317\036\372\133\103\213  
\315\315\250\017\152\312\014\136\271\236\107\217\360\331\266\012  
\013\130\145\027\063\271\043\344\167\031\175\313\112\056\222\173  
\117\057\020\167\261\215\057\150\234\142\314\340\120\370\354\221  
\247\124\114\127\011\325\166\143\305\350\145\036\356\155\152\317  
\011\235\372\174\117\255\140\010\375\126\231\017\025\054\173\251  
\200\253\214\141\217\112\007\166\102\336\075\364\335\262\044\063  
\133\270\265\243\104\311\254\177\167\074\035\043\354\202\251\246  
\342\310\006\114\002\376\254\134\231\231\013\057\020\212\246\364  
\177\325\207\164\015\131\111\105\366\360\161\134\071\051\326\277  
\112\043\213\365\137\001\143\322\207\163\050\265\113\012\365\370  
\253\202\054\176\163\045\062\035\013\143\012\027\201\000\377\266  
\166\136\347\264\261\100\312\041\273\325\200\121\345\110\122\147  
\054\322\141\211\007\015\017\316\102\167\300\104\163\234\104\120  
\240\333\020\012\055\225\034\201\257\344\034\345\024\036\361\066  
\101\001\002\057\175\163\247\336\102\314\114\351\211\015\126\367  
\237\221\324\003\306\154\311\217\333\330\034\340\100\230\135\146  
\231\230\200\156\055\377\001\305\316\313\106\037\254\002\306\103  
\346\256\242\204\074\305\116\036\075\155\311\024\114\343\056\101  
\273\312\071\277\066\074\052\031\252\101\207\116\245\316\113\062  
\171\335\220\111\177\002\003\001\000\001\243\143\060\141\060\037  
\006\003\125\035\043\004\030\060\026\200\024\234\137\320\154\143  
\243\137\223\312\223\230\010\255\214\207\245\054\134\301\067\060  
\035\006\003\125\035\016\004\026\004\024\234\137\320\154\143\243  
\137\223\312\223\230\010\255\214\207\245\054\134\301\067\060\016  
\006\003\125\035\017\001\001\377\004\004\003\002\001\206\060\017  
\006\003\125\035\023\001\001\377\004\005\060\003\001\001\377\060  
\015\006\011\052\206\110\206\367\015\001\001\013\005\000\003\202  
\002\001\000\116\036\271\212\306\240\230\077\156\303\151\300\152  
\134\111\122\254\313\053\135\170\070\301\325\124\204\237\223\360  
\207\031\075\054\146\211\353\015\102\374\314\360\165\205\077\213  
\364\200\135\171\345\027\147\275\065\202\342\362\074\216\175\133  
\066\313\132\200\000\051\362\316\053\054\361\217\252\155\005\223

\154\162\307\126\353\337\120\043\050\345\105\020\075\350\147\243  
\257\016\125\017\220\011\142\357\113\131\242\366\123\361\300\065  
\344\057\301\044\275\171\057\116\040\042\073\375\032\040\260\244  
\016\054\160\355\164\077\270\023\225\006\121\310\350\207\046\312  
\244\133\152\026\041\222\335\163\140\236\020\030\336\074\201\352  
\350\030\303\174\211\362\213\120\076\275\021\342\025\003\250\066  
\175\063\001\154\110\025\327\210\220\231\004\305\314\346\007\364  
\274\364\220\355\023\342\352\213\303\217\243\063\017\301\051\114  
\023\116\332\025\126\161\163\162\202\120\366\232\063\174\242\261  
\250\032\064\164\145\134\316\321\353\253\123\340\032\200\330\352  
\072\111\344\046\060\233\345\034\212\250\251\025\062\206\231\222  
\012\020\043\126\022\340\366\316\114\342\273\276\333\215\222\163  
\001\146\057\142\076\262\162\047\105\066\355\115\126\343\227\231  
\377\072\065\076\245\124\112\122\131\113\140\333\356\376\170\021  
\177\112\334\024\171\140\266\153\144\003\333\025\203\341\242\276  
\366\043\227\120\360\011\063\066\247\161\226\045\363\271\102\175  
\333\070\077\054\130\254\350\102\341\016\330\323\073\114\056\202  
\351\203\056\153\061\331\335\107\206\117\155\227\221\056\117\342  
\050\161\065\026\321\362\163\376\045\053\007\107\044\143\047\310  
\370\366\331\153\374\022\061\126\010\300\123\102\257\234\320\063  
\176\374\006\360\061\104\003\024\361\130\352\362\152\015\251\021  
\262\203\276\305\032\277\007\352\131\334\243\210\065\357\234\166  
\062\074\115\006\042\316\025\345\335\236\330\217\332\336\322\304  
\071\345\027\201\317\070\107\353\177\210\155\131\033\337\237\102  
\024\256\176\317\250\260\146\145\332\067\257\237\252\075\352\050  
\266\336\325\061\130\026\202\133\352\273\031\165\002\163\032\312  
\110\032\041\223\220\012\216\223\204\247\175\073\043\030\222\211  
\240\215\254

END

CKA\_NSS\_MOZILLA\_CA\_POLICY CK\_BBOOL CK\_TRUE  
CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE  
CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "ANF Secure Server Root CA"

# Issuer: CN=ANF Secure Server Root CA,OU=ANF CA Raiz,O=ANF Autoridad de  
Certificacion,C=ES,serialNumber=G63287510

# Serial Number:0d:d3:e3:bc:6c:f9:6b:b1

# Subject: CN=ANF Secure Server Root CA,OU=ANF CA Raiz,O=ANF Autoridad de  
Certificacion,C=ES,serialNumber=G63287510

# Not Valid Before: Wed Sep 04 10:00:38 2019

# Not Valid After : Tue Aug 30 10:00:38 2039

# Fingerprint (SHA-256):

FB:8F:EC:75:91:69:B9:10:6B:1E:51:16:44:C6:18:C5:13:04:37:3F:6C:06:43:08:8D:8B:EF:FD:1B:99:75:99

# Fingerprint (SHA1): 5B:6E:68:D0:CC:15:B6:A0:5F:1E:C1:5F:AE:02:FC:6B:2F:5D:6F:74

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

```

CKA_LABEL UTF8 "ANF Secure Server Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\133\156\150\320\314\025\266\240\137\036\301\137\256\002\374\153
\057\135\157\164
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\046\246\104\132\331\257\116\057\262\035\266\145\260\116\350\226
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\204\061\022\060\020\006\003\125\004\005\023\011\107\066
\063\062\070\067\065\061\060\061\013\060\011\006\003\125\004\006
\023\002\105\123\061\047\060\045\006\003\125\004\012\023\036\101
\116\106\040\101\165\164\157\162\151\144\141\144\040\144\145\040
\103\145\162\164\151\146\151\143\141\143\151\157\156\061\024\060
\022\006\003\125\004\013\023\013\101\116\106\040\103\101\040\122
\141\151\172\061\042\060\040\006\003\125\004\003\023\031\101\116
\106\040\123\145\143\165\162\145\040\123\145\162\166\145\162\040
\122\157\157\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\015\323\343\274\154\371\153\261
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Certum EC-384 CA"
#
Issuer: CN=Certum EC-384 CA,OU=Certum Certification Authority,O=Asseco Data Systems S.A.,C=PL
Serial Number: 78:8f:27:5c:81:12:52:20:a5:04:d0:2d:dd:ba:73:f4
Subject: CN=Certum EC-384 CA,OU=Certum Certification Authority,O=Asseco Data Systems S.A.,C=PL
Not Valid Before: Mon Mar 26 07:24:54 2018
Not Valid After : Thu Mar 26 07:24:54 2043
Fingerprint (SHA-256):
6B:32:80:85:62:53:18:AA:50:D1:73:C9:8D:8B:DA:09:D5:7E:27:41:3D:11:4C:F7:87:A0:F5:D0:6C:03:0C:F6
Fingerprint (SHA1): F3:3E:78:3C:AC:DF:F4:A2:CC:AC:67:55:69:56:D7:E5:16:3C:E1:ED
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certum EC-384 CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\164\061\013\060\011\006\003\125\004\006\023\002\120\114\061
\041\060\037\006\003\125\004\012\023\030\101\163\163\145\143\157
\040\104\141\164\141\040\123\171\163\164\145\155\163\040\123\056

```

\101\056\061\047\060\045\006\003\125\004\013\023\036\103\145\162  
\164\165\155\040\103\145\162\164\151\146\151\143\141\164\151\157  
\156\040\101\165\164\150\157\162\151\164\171\061\031\060\027\006  
\003\125\004\003\023\020\103\145\162\164\165\155\040\105\103\055  
\063\070\064\040\103\101

END

CKA\_ID UTF8 "0"

CKA\_ISSUER MULTILINE\_OCTAL

\060\164\061\013\060\011\006\003\125\004\006\023\002\120\114\061  
\041\060\037\006\003\125\004\012\023\030\101\163\163\145\143\157  
\040\104\141\164\141\040\123\171\163\164\145\155\163\040\123\056  
\101\056\061\047\060\045\006\003\125\004\013\023\036\103\145\162  
\164\165\155\040\103\145\162\164\151\146\151\143\141\164\151\157  
\156\040\101\165\164\150\157\162\151\164\171\061\031\060\027\006  
\003\125\004\003\023\020\103\145\162\164\165\155\040\105\103\055  
\063\070\064\040\103\101

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

\002\020\170\217\047\134\201\022\122\040\245\004\320\055\335\272  
\163\364

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\002\145\060\202\001\353\240\003\002\001\002\002\020\170  
\217\047\134\201\022\122\040\245\004\320\055\335\272\163\364\060  
\012\006\010\052\206\110\316\075\004\003\003\060\164\061\013\060  
\011\006\003\125\004\006\023\002\120\114\061\041\060\037\006\003  
\125\004\012\023\030\101\163\163\145\143\157\040\104\141\164\141  
\040\123\171\163\164\145\155\163\040\123\056\101\056\061\047\060  
\045\006\003\125\004\013\023\036\103\145\162\164\165\155\040\103  
\145\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164  
\150\157\162\151\164\171\061\031\060\027\006\003\125\004\003\023  
\020\103\145\162\164\165\155\040\105\103\055\063\070\064\040\103  
\101\060\036\027\015\061\070\060\063\062\066\060\067\062\064\065  
\064\132\027\015\064\063\060\063\062\066\060\067\062\064\065\064  
\132\060\164\061\013\060\011\006\003\125\004\006\023\002\120\114  
\061\041\060\037\006\003\125\004\012\023\030\101\163\163\145\143  
\157\040\104\141\164\141\040\123\171\163\164\145\155\163\040\123  
\056\101\056\061\047\060\045\006\003\125\004\013\023\036\103\145  
\162\164\165\155\040\103\145\162\164\151\146\151\143\141\164\151  
\157\156\040\101\165\164\150\157\162\151\164\171\061\031\060\027  
\006\003\125\004\003\023\020\103\145\162\164\165\155\040\105\103  
\055\063\070\064\040\103\101\060\166\060\020\006\007\052\206\110  
\316\075\002\001\006\005\053\201\004\000\042\003\142\000\004\304  
\050\216\253\030\133\152\276\156\144\067\143\344\315\354\253\072  
\367\314\241\270\016\202\111\327\206\051\237\241\224\362\343\140  
\170\230\201\170\006\115\362\354\232\016\127\140\203\237\264\346  
\027\057\032\263\135\002\133\211\043\074\302\021\005\052\247\210  
\023\030\363\120\204\327\275\064\054\047\211\125\377\316\114\347

```
\337\246\037\050\304\360\124\303\271\174\267\123\255\353\302\243
\102\060\100\060\017\006\003\125\035\023\001\001\377\004\005\060
\003\001\001\377\060\035\006\003\125\035\016\004\026\004\024\215
\006\146\164\044\166\072\363\211\367\274\326\275\107\175\057\274
\020\137\113\060\016\006\003\125\035\017\001\001\377\004\004\003
\002\001\006\060\012\006\010\052\206\110\316\075\004\003\003\003
\150\000\060\145\002\060\003\125\055\246\346\030\304\174\357\311
\120\156\301\047\017\234\207\257\156\325\033\010\030\275\222\051
\301\357\224\221\170\322\072\034\125\211\142\345\033\011\036\272
\144\153\361\166\264\324\002\061\000\264\102\204\231\377\253\347
\236\373\221\227\047\135\334\260\133\060\161\316\136\070\032\152
\331\045\347\352\367\141\222\126\370\352\332\066\302\207\145\226
\056\162\045\057\177\337\303\023\311
```

END

CKA\_NSS\_MOZILLA\_CA\_POLICY CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "Certum EC-384 CA"

# Issuer: CN=Certum EC-384 CA,OU=Certum Certification Authority,O=Asseco Data Systems S.A.,C=PL

# Serial Number:78:8f:27:5c:81:12:52:20:a5:04:d0:2d:dd:ba:73:f4

# Subject: CN=Certum EC-384 CA,OU=Certum Certification Authority,O=Asseco Data Systems S.A.,C=PL

# Not Valid Before: Mon Mar 26 07:24:54 2018

# Not Valid After : Thu Mar 26 07:24:54 2043

# Fingerprint (SHA-256):

6B:32:80:85:62:53:18:AA:50:D1:73:C9:8D:8B:DA:09:D5:7E:27:41:3D:11:4C:F7:87:A0:F5:D0:6C:03:0C:F6

# Fingerprint (SHA1): F3:3E:78:3C:AC:DF:F4:A2:CC:AC:67:55:69:56:D7:E5:16:3C:E1:ED

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "Certum EC-384 CA"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

```
\363\076\170\074\254\337\364\242\314\254\147\125\151\126\327\345
\026\074\341\355
```

END

CKA\_CERT\_MD5\_HASH MULTILINE\_OCTAL

```
\266\145\263\226\140\227\022\241\354\116\341\075\243\306\311\361
```

END

CKA\_ISSUER MULTILINE\_OCTAL

```
\060\164\061\013\060\011\006\003\125\004\006\023\002\120\114\061
\041\060\037\006\003\125\004\012\023\030\101\163\163\145\143\157
\040\104\141\164\141\040\123\171\163\164\145\155\163\040\123\056
\101\056\061\047\060\045\006\003\125\004\013\023\036\103\145\162
\164\165\155\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171\061\031\060\027\006
\003\125\004\003\023\020\103\145\162\164\165\155\040\105\103\055
\063\070\064\040\103\101
```



```

END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\170\217\047\134\201\022\122\040\245\004\320\055\335\272
\163\364
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Certum Trusted Root CA"
#
Issuer: CN=Certum Trusted Root CA,OU=Certum Certification Authority,O=Asseco Data Systems S.A.,C=PL
Serial Number: 1e:bf:59:50:b8:c9:80:37:4c:06:f7:eb:55:4f:b5:ed
Subject: CN=Certum Trusted Root CA,OU=Certum Certification Authority,O=Asseco Data Systems S.A.,C=PL
Not Valid Before: Fri Mar 16 12:10:13 2018
Not Valid After : Mon Mar 16 12:10:13 2043
Fingerprint (SHA-256):
FE:76:96:57:38:55:77:3E:37:A9:5E:7A:D4:D9:CC:96:C3:01:57:C1:5D:31:76:5B:A9:B1:57:04:E1:AE:78:FD
Fingerprint (SHA1): C8:83:44:C0:18:AE:9F:CC:F1:87:B7:8F:22:D1:C5:D7:45:84:BA:E5
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certum Trusted Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\172\061\013\060\011\006\003\125\004\006\023\002\120\114\061
\041\060\037\006\003\125\004\012\023\030\101\163\163\145\143\157
\040\104\141\164\141\040\123\171\163\164\145\155\163\040\123\056
\101\056\061\047\060\045\006\003\125\004\013\023\036\103\145\162
\164\165\155\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171\061\037\060\035\006
\003\125\004\003\023\026\103\145\162\164\165\155\040\124\162\165
\163\164\145\144\040\122\157\157\164\040\103\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\172\061\013\060\011\006\003\125\004\006\023\002\120\114\061
\041\060\037\006\003\125\004\012\023\030\101\163\163\145\143\157
\040\104\141\164\141\040\123\171\163\164\145\155\163\040\123\056
\101\056\061\047\060\045\006\003\125\004\013\023\036\103\145\162
\164\165\155\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171\061\037\060\035\006
\003\125\004\003\023\026\103\145\162\164\165\155\040\124\162\165
\163\164\145\144\040\122\157\157\164\040\103\101
END

```

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

\002\020\036\277\131\120\270\311\200\067\114\006\367\353\125\117  
\265\355

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\005\300\060\202\003\250\240\003\002\001\002\002\020\036  
\277\131\120\270\311\200\067\114\006\367\353\125\117\265\355\060  
\015\006\011\052\206\110\206\367\015\001\001\015\005\000\060\172  
\061\013\060\011\006\003\125\004\006\023\002\120\114\061\041\060  
\037\006\003\125\004\012\023\030\101\163\163\145\143\157\040\104  
\141\164\141\040\123\171\163\164\145\155\163\040\123\056\101\056  
\061\047\060\045\006\003\125\004\013\023\036\103\145\162\164\165  
\155\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040  
\101\165\164\150\157\162\151\164\171\061\037\060\035\006\003\125  
\004\003\023\026\103\145\162\164\165\155\040\124\162\165\163\164  
\145\144\040\122\157\157\164\040\103\101\060\036\027\015\061\070  
\060\063\061\066\061\062\061\060\061\063\132\027\015\064\063\060  
\063\061\066\061\062\061\060\061\063\132\060\172\061\013\060\011  
\006\003\125\004\006\023\002\120\114\061\041\060\037\006\003\125  
\004\012\023\030\101\163\163\145\143\157\040\104\141\164\141\040  
\123\171\163\164\145\155\163\040\123\056\101\056\061\047\060\045  
\006\003\125\004\013\023\036\103\145\162\164\165\155\040\103\145  
\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150  
\157\162\151\164\171\061\037\060\035\006\003\125\004\003\023\026  
\103\145\162\164\165\155\040\124\162\165\163\164\145\144\040\122  
\157\157\164\040\103\101\060\202\002\042\060\015\006\011\052\206  
\110\206\367\015\001\001\001\005\000\003\202\002\017\000\060\202  
\002\012\002\202\002\001\000\321\055\216\273\267\066\352\155\067  
\221\237\116\223\247\005\344\051\003\045\316\034\202\367\174\231  
\237\101\006\315\355\243\272\300\333\011\054\301\174\337\051\176  
\113\145\057\223\247\324\001\153\003\050\030\243\330\235\005\301  
\052\330\105\361\221\336\337\073\320\200\002\214\317\070\017\352  
\247\134\170\021\244\301\310\205\134\045\323\323\262\347\045\317  
\021\124\227\253\065\300\036\166\034\357\000\123\237\071\334\024  
\245\054\042\045\263\162\162\374\215\263\345\076\010\036\024\052  
\067\013\210\074\312\260\364\310\302\241\256\274\301\276\051\147  
\125\342\374\255\131\134\376\275\127\054\260\220\215\302\355\067  
\266\174\231\210\265\325\003\232\075\025\015\075\072\250\250\105  
\360\225\116\045\131\035\315\230\151\273\323\314\062\311\215\357  
\201\376\255\175\211\273\272\140\023\312\145\225\147\240\363\031  
\366\003\126\324\152\323\047\342\241\255\203\360\112\022\042\167  
\034\005\163\342\031\161\102\300\354\165\106\232\220\130\340\152  
\216\053\245\106\060\004\216\031\262\027\343\276\251\272\177\126  
\361\044\003\327\262\041\050\166\016\066\060\114\171\325\101\232  
\232\250\270\065\272\014\072\362\104\033\040\210\367\305\045\327  
\075\306\343\076\103\335\207\376\304\352\365\123\076\114\145\377  
\073\112\313\170\132\153\027\137\015\307\303\117\116\232\052\242  
\355\127\115\042\342\106\232\077\017\221\064\044\175\125\343\214

\225\067\323\032\360\011\053\054\322\311\215\264\015\000\253\147  
\051\050\330\001\365\031\004\266\035\276\166\376\162\134\304\205  
\312\322\200\101\337\005\250\243\325\204\220\117\013\363\340\077  
\233\031\322\067\211\077\362\173\122\034\214\366\341\367\074\007  
\227\214\016\242\131\201\014\262\220\075\323\343\131\106\355\017  
\251\247\336\200\153\132\252\007\266\031\313\274\127\363\227\041  
\172\014\261\053\164\076\353\332\247\147\055\114\304\230\236\066  
\011\166\146\146\374\032\077\352\110\124\034\276\060\275\200\120  
\277\174\265\316\000\366\014\141\331\347\044\003\340\343\001\201  
\016\275\330\205\064\210\275\262\066\250\173\134\010\345\104\200  
\214\157\370\057\325\041\312\035\034\320\373\304\265\207\321\072  
\116\307\166\265\065\110\265\002\003\001\000\001\243\102\060\100  
\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001  
\377\060\035\006\003\125\035\016\004\026\004\024\214\373\034\165  
\274\002\323\237\116\056\110\331\371\140\124\252\304\263\117\372  
\060\016\006\003\125\035\017\001\001\377\004\004\003\002\001\006  
\060\015\006\011\052\206\110\206\367\015\001\001\015\005\000\003  
\202\002\001\000\110\242\325\000\013\056\320\077\274\034\325\265  
\124\111\036\132\153\364\344\362\340\100\067\340\314\024\173\271  
\311\372\065\265\165\027\223\152\005\151\205\234\315\117\031\170  
\133\031\201\363\143\076\303\316\133\217\365\057\136\001\166\023  
\077\054\000\271\315\226\122\071\111\155\004\116\305\351\017\206  
\015\341\372\263\137\202\022\361\072\316\146\006\044\064\053\350  
\314\312\347\151\334\207\235\302\064\327\171\321\323\167\270\252  
\131\130\376\235\046\372\070\206\076\235\212\207\144\127\345\027  
\072\342\371\215\271\343\063\170\301\220\330\270\335\267\203\121  
\344\304\314\043\325\006\174\346\121\323\315\064\061\300\366\106  
\273\013\255\374\075\020\005\052\073\112\221\045\356\214\324\204  
\207\200\052\274\011\214\252\072\023\137\350\064\171\120\301\020  
\031\371\323\050\036\324\321\121\060\051\263\256\220\147\326\037  
\012\143\261\305\251\306\102\061\143\027\224\357\151\313\057\372  
\214\024\175\304\103\030\211\331\360\062\100\346\200\342\106\137  
\345\343\301\000\131\250\371\350\040\274\211\054\016\107\064\013  
\352\127\302\123\066\374\247\324\257\061\315\376\002\345\165\372  
\271\047\011\371\363\365\073\312\175\237\251\042\313\210\311\252  
\321\107\075\066\167\250\131\144\153\047\317\357\047\301\343\044  
\265\206\367\256\176\062\115\260\171\150\321\071\350\220\130\303  
\203\274\017\054\326\227\353\316\014\341\040\307\332\267\076\303  
\077\277\057\334\064\244\373\053\041\315\147\217\113\364\343\352  
\324\077\347\117\272\271\245\223\105\034\146\037\041\372\144\136  
\157\340\166\224\062\313\165\365\156\345\366\217\307\270\244\314  
\250\226\175\144\373\044\132\112\003\154\153\070\306\350\003\103  
\232\367\127\271\263\051\151\223\070\364\003\362\273\373\202\153  
\007\040\321\122\037\232\144\002\173\230\146\333\134\115\132\017  
\320\204\225\240\074\024\103\006\312\312\333\270\101\066\332\152  
\104\147\207\257\257\343\105\021\025\151\010\262\276\026\071\227  
\044\157\022\105\321\147\135\011\250\311\025\332\372\322\246\137  
\023\141\037\277\205\254\264\255\255\005\224\010\203\036\165\027

```
\323\161\073\223\120\043\131\240\355\074\221\124\235\166\000\305
\303\270\070\333
```

END

```
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
```

```
Trust for "Certum Trusted Root CA"
```

```
Issuer: CN=Certum Trusted Root CA,OU=Certum Certification Authority,O=Asseco Data Systems S.A.,C=PL
```

```
Serial Number: 1e:bf:59:50:b8:c9:80:37:4c:06:f7:eb:55:4f:b5:ed
```

```
Subject: CN=Certum Trusted Root CA,OU=Certum Certification Authority,O=Asseco Data Systems S.A.,C=PL
```

```
Not Valid Before: Fri Mar 16 12:10:13 2018
```

```
Not Valid After : Mon Mar 16 12:10:13 2043
```

```
Fingerprint (SHA-256):
```

```
FE:76:96:57:38:55:77:3E:37:A9:5E:7A:D4:D9:CC:96:C3:01:57:C1:5D:31:76:5B:A9:B1:57:04:E1:AE:78:FD
```

```
Fingerprint (SHA1): C8:83:44:C0:18:AE:9F:CC:F1:87:B7:8F:22:D1:C5:D7:45:84:BA:E5
```

```
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
```

```
CKA_TOKEN CK_BBOOL CK_TRUE
```

```
CKA_PRIVATE CK_BBOOL CK_FALSE
```

```
CKA_MODIFIABLE CK_BBOOL CK_FALSE
```

```
CKA_LABEL UTF8 "Certum Trusted Root CA"
```

```
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
```

```
\310\203\104\300\030\256\237\314\361\207\267\217\042\321\305\327
\105\204\272\345
```

END

```
CKA_CERT_MD5_HASH MULTILINE_OCTAL
```

```
\121\341\302\347\376\114\204\257\131\016\057\364\124\157\352\051
```

END

```
CKA_ISSUER MULTILINE_OCTAL
```

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

END

```
CKA_SERIAL_NUMBER MULTILINE_OCTAL
```

```
\002\020\036\277\131\120\270\311\200\067\114\006\367\353\125\117
\265\355
```

END

```
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
```

```
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
```

```
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
```

```
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
```

```
#
```

```

Certificate "TunTrust Root CA"
#
Issuer: CN=TunTrust Root CA,O=Agence Nationale de Certification Electronique,C=TN
Serial Number:13:02:d5:e2:40:4c:92:46:86:16:67:5d:b4:bb:bb:b2:6b:3e:fc:13
Subject: CN=TunTrust Root CA,O=Agence Nationale de Certification Electronique,C=TN
Not Valid Before: Fri Apr 26 08:57:56 2019
Not Valid After : Tue Apr 26 08:57:56 2044
Fingerprint (SHA-256):
2E:44:10:2A:B5:8C:B8:54:19:45:1C:8E:19:D9:AC:F3:66:2C:AF:BC:61:4B:6A:53:96:0A:30:F7:D0:E2:EB:41
Fingerprint (SHA1): CF:E9:70:84:0F:E0:73:0F:9D:F6:0C:7F:2C:4B:EE:20:46:34:9C:BB
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TunTrust Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\141\061\013\060\011\006\003\125\004\006\023\002\124\116\061
\067\060\065\006\003\125\004\012\014\056\101\147\145\156\143\145
\040\116\141\164\151\157\156\141\154\145\040\144\145\040\103\145
\162\164\151\146\151\143\141\164\151\157\156\040\105\154\145\143
\164\162\157\156\151\161\165\145\061\031\060\027\006\003\125\004
\003\014\020\124\165\156\124\162\165\163\164\040\122\157\157\164
\040\103\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\141\061\013\060\011\006\003\125\004\006\023\002\124\116\061
\067\060\065\006\003\125\004\012\014\056\101\147\145\156\143\145
\040\116\141\164\151\157\156\141\154\145\040\144\145\040\103\145
\162\164\151\146\151\143\141\164\151\157\156\040\105\154\145\143
\164\162\157\156\151\161\165\145\061\031\060\027\006\003\125\004
\003\014\020\124\165\156\124\162\165\163\164\040\122\157\157\164
\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\023\002\325\342\100\114\222\106\206\026\147\135\264\273
\273\262\153\076\374\023
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\263\060\202\003\233\240\003\002\001\002\002\024\023
\002\325\342\100\114\222\106\206\026\147\135\264\273\273\262\153
\076\374\023\060\015\006\011\052\206\110\206\367\015\001\001\013
\005\000\060\141\061\013\060\011\006\003\125\004\006\023\002\124
\116\061\067\060\065\006\003\125\004\012\014\056\101\147\145\156
\143\145\040\116\141\164\151\157\156\141\154\145\040\144\145\040
\103\145\162\164\151\146\151\143\141\164\151\157\156\040\105\154
\145\143\164\162\157\156\151\161\165\145\061\031\060\027\006\003

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\125\004\003\014\020\124\165\156\124\162\165\163\164\040\122\157  
\157\164\040\103\101\060\036\027\015\061\071\060\064\062\066\060  
\070\065\067\065\066\132\027\015\064\064\060\064\062\066\060\070  
\065\067\065\066\132\060\141\061\013\060\011\006\003\125\004\006  
\023\002\124\116\061\067\060\065\006\003\125\004\012\014\056\101  
\147\145\156\143\145\040\116\141\164\151\157\156\141\154\145\040  
\144\145\040\103\145\162\164\151\146\151\143\141\164\151\157\156  
\040\105\154\145\143\164\162\157\156\151\161\165\145\061\031\060  
\027\006\003\125\004\003\014\020\124\165\156\124\162\165\163\164  
\040\122\157\157\164\040\103\101\060\202\002\042\060\015\006\011  
\052\206\110\206\367\015\001\001\001\005\000\003\202\002\017\000  
\060\202\002\012\002\202\002\001\000\303\315\323\374\275\004\123  
\335\014\040\072\325\210\056\005\113\101\365\203\202\176\367\131  
\237\236\236\143\350\163\332\366\006\251\117\037\264\371\013\037  
\071\214\232\040\320\176\006\324\354\064\331\206\274\165\133\207  
\210\360\322\331\324\243\012\262\154\033\353\111\054\076\254\135  
\330\224\003\240\354\064\345\060\304\065\175\373\046\115\033\156  
\060\124\330\365\200\105\234\071\255\234\311\045\004\115\232\220  
\076\116\100\156\212\153\315\051\147\306\314\055\340\164\350\005  
\127\012\110\120\372\172\103\332\176\354\133\232\016\142\166\376  
\352\235\035\205\162\354\021\273\065\350\037\047\277\301\241\307  
\273\110\026\335\126\327\314\116\240\341\271\254\333\325\203\031  
\032\205\321\224\227\327\312\243\145\013\363\070\371\002\256\335  
\366\147\317\311\077\365\212\054\107\032\231\157\005\015\375\320  
\035\202\061\374\051\314\000\130\227\221\114\200\000\034\063\205  
\226\057\313\101\302\213\020\204\303\011\044\211\037\265\017\331  
\331\167\107\030\222\224\140\134\307\231\003\074\376\367\225\247  
\175\120\241\200\302\251\203\255\130\226\125\041\333\206\131\324  
\257\306\274\335\201\156\007\333\140\142\376\354\020\156\332\150  
\001\364\203\033\251\076\242\133\043\327\144\306\337\334\242\175  
\330\113\272\202\322\121\370\146\277\006\106\344\171\052\046\066  
\171\217\037\116\231\035\262\217\014\016\034\377\311\135\300\375  
\220\020\246\261\067\363\315\072\044\156\264\205\220\277\200\271  
\014\214\325\233\326\310\361\126\077\032\200\211\172\251\342\033  
\062\121\054\076\362\337\173\366\135\172\051\031\216\345\310\275  
\066\161\213\135\114\302\035\077\255\130\242\317\075\160\115\246  
\120\230\045\334\043\371\270\130\101\010\161\277\117\270\204\240  
\217\000\124\025\374\221\155\130\247\226\073\353\113\226\047\315  
\153\242\241\206\254\015\174\124\346\146\114\146\137\220\276\041  
\232\002\106\055\344\203\302\200\271\317\113\076\350\177\074\001  
\354\217\136\315\177\322\050\102\001\225\212\342\227\075\020\041  
\175\366\235\034\305\064\241\354\054\016\012\122\054\022\125\160  
\044\075\313\302\024\065\103\135\047\116\276\300\275\252\174\226  
\347\374\236\141\255\104\323\000\227\002\003\001\000\001\243\143  
\060\141\060\035\006\003\125\035\016\004\026\004\024\006\232\233  
\037\123\175\361\365\244\310\323\206\076\241\163\131\264\367\104  
\041\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001  
\001\377\060\037\006\003\125\035\043\004\030\060\026\200\024\006

\232\233\037\123\175\361\365\244\310\323\206\076\241\163\131\264  
\367\104\041\060\016\006\003\125\035\017\001\001\377\004\004\003  
\002\001\006\060\015\006\011\052\206\110\206\367\015\001\001\013  
\005\000\003\202\002\001\000\252\005\156\266\335\025\311\277\263  
\306\040\366\006\107\260\206\223\045\323\215\271\310\000\077\227  
\365\122\047\210\161\311\164\375\353\312\144\333\133\357\036\135  
\272\277\321\353\356\134\151\272\026\310\363\271\217\323\066\056  
\100\111\007\015\131\336\213\020\260\111\005\342\377\221\077\113  
\267\335\002\216\370\201\050\134\314\334\155\257\137\024\234\175  
\130\170\015\366\200\011\271\351\016\227\051\031\270\267\353\370  
\026\313\125\022\344\306\175\273\304\354\370\265\034\116\076\147  
\277\305\137\033\155\155\107\050\252\004\130\141\326\166\277\042  
\177\320\007\152\247\144\123\360\227\215\235\200\077\273\301\007  
\333\145\257\346\233\062\232\303\124\223\304\034\010\303\104\373  
\173\143\021\103\321\152\032\141\152\171\155\220\117\051\216\107  
\005\301\022\151\151\326\306\066\061\341\374\372\200\272\134\117  
\304\353\267\062\254\370\165\141\027\327\020\031\271\361\322\011  
\357\172\102\235\133\132\013\324\306\225\116\052\316\377\007\327  
\117\176\030\006\210\361\031\265\331\230\273\256\161\304\034\347  
\164\131\130\357\014\211\317\213\037\165\223\032\004\024\222\110  
\120\251\353\127\051\000\026\343\066\034\310\370\277\360\063\325  
\101\017\304\314\074\335\351\063\103\001\221\020\053\036\321\271  
\135\315\062\031\213\217\214\040\167\327\042\304\102\334\204\026  
\233\045\155\350\264\125\161\177\260\174\263\323\161\111\271\317  
\122\244\004\077\334\075\240\273\257\063\236\012\060\140\216\333  
\235\135\224\250\275\140\347\142\200\166\201\203\014\214\314\060  
\106\111\342\014\322\250\257\353\141\161\357\347\042\142\251\367  
\134\144\154\237\026\214\147\066\047\105\365\011\173\277\366\020  
\012\361\260\215\124\103\214\004\272\243\077\357\342\065\307\371  
\164\340\157\064\101\320\277\163\145\127\040\371\233\147\172\146  
\150\044\116\200\145\275\020\231\006\131\362\145\257\270\306\107  
\273\375\220\170\213\101\163\056\257\125\037\334\073\222\162\156  
\204\323\320\141\114\015\314\166\127\342\055\205\042\025\066\015  
\353\001\235\353\330\353\304\204\231\373\300\014\314\062\350\343  
\167\332\203\104\213\236\125\050\300\213\130\323\220\076\116\033  
\000\361\025\255\203\053\232

END

CKA\_NSS\_MOZILLA\_CA\_POLICY CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "TunTrust Root CA"

# Issuer: CN=TunTrust Root CA,O=Agence Nationale de Certification Electronique,C=TN

# Serial Number: 13:02:d5:e2:40:4c:92:46:86:16:67:5d:b4:bb:bb:b2:6b:3e:fc:13

# Subject: CN=TunTrust Root CA,O=Agence Nationale de Certification Electronique,C=TN

# Not Valid Before: Fri Apr 26 08:57:56 2019

# Not Valid After : Tue Apr 26 08:57:56 2044

# Fingerprint (SHA-256):

```
2E:44:10:2A:B5:8C:B8:54:19:45:1C:8E:19:D9:AC:F3:66:2C:AF:BC:61:4B:6A:53:96:0A:30:F7:D0:E2:EB:41
Fingerprint (SHA1): CF:E9:70:84:0F:E0:73:0F:9D:F6:0C:7F:2C:4B:EE:20:46:34:9C:BB
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TunTrust Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\317\351\160\204\017\340\163\017\235\366\014\177\054\113\356\040
\106\064\234\273
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\205\023\271\220\133\066\134\266\136\270\132\370\340\061\127\264
END
CKA_ISSUER MULTILINE_OCTAL
\060\141\061\013\060\011\006\003\125\004\006\023\002\124\116\061
\067\060\065\006\003\125\004\012\014\056\101\147\145\156\143\145
\040\116\141\164\151\157\156\141\154\145\040\144\145\040\103\145
\162\164\151\146\151\143\141\164\151\157\156\040\105\154\145\143
\164\162\157\156\151\161\165\145\061\031\060\027\006\003\125\004
\003\014\020\124\165\156\124\162\165\163\164\040\122\157\157\164
\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\023\002\325\342\100\114\222\106\206\026\147\135\264\273
\273\262\153\076\374\023
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
```

```
#
Certificate "HARICA TLS RSA Root CA 2021"
#
Issuer: CN=HARICA TLS RSA Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
Serial Number:39:ca:93:1c:ef:43:f3:c6:8e:93:c7:f4:64:89:38:7e
Subject: CN=HARICA TLS RSA Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
Not Valid Before: Fri Feb 19 10:55:38 2021
Not Valid After : Mon Feb 13 10:55:37 2045
Fingerprint (SHA-256):
D9:5D:0E:8E:DA:79:52:5B:F9:BE:B1:1B:14:D2:10:0D:32:94:98:5F:0C:62:D9:FA:BD:9C:D9:99:EC:CB:7B:1D
Fingerprint (SHA1): 02:2D:05:82:FA:88:CE:14:0C:06:79:DE:7F:14:10:E9:45:D7:A5:6D
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "HARICA TLS RSA Root CA 2021"
```



CKA\_CERTIFICATE\_TYPE CK\_CERTIFICATE\_TYPE CKC\_X\_509

CKA\_SUBJECT MULTILINE\_OCTAL

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

END

CKA\_ID UTF8 "0"

CKA\_ISSUER MULTILINE\_OCTAL

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

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

\002\020\071\312\223\034\357\103\363\306\216\223\307\364\144\211  
\070\176

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\005\244\060\202\003\214\240\003\002\001\002\002\020\071  
\312\223\034\357\103\363\306\216\223\307\364\144\211\070\176\060  
\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060\154  
\061\013\060\011\006\003\125\004\006\023\002\107\122\061\067\060  
\065\006\003\125\004\012\014\056\110\145\154\154\145\156\151\143  
\040\101\143\141\144\145\155\151\143\040\141\156\144\040\122\145  
\163\145\141\162\143\150\040\111\156\163\164\151\164\165\164\151  
\157\156\163\040\103\101\061\044\060\042\006\003\125\004\003\014  
\033\110\101\122\111\103\101\040\124\114\123\040\122\123\101\040  
\122\157\157\164\040\103\101\040\062\060\062\061\060\036\027\015  
\062\061\060\062\061\071\061\060\065\065\063\070\132\027\015\064  
\065\060\062\061\063\061\060\065\065\063\067\132\060\154\061\013  
\060\011\006\003\125\004\006\023\002\107\122\061\067\060\065\006  
\003\125\004\012\014\056\110\145\154\154\145\156\151\143\040\101  
\143\141\144\145\155\151\143\040\141\156\144\040\122\145\163\145  
\141\162\143\150\040\111\156\163\164\151\164\165\164\151\157\156  
\163\040\103\101\061\044\060\042\006\003\125\004\003\014\033\110  
\101\122\111\103\101\040\124\114\123\040\122\123\101\040\122\157  
\157\164\040\103\101\040\062\060\062\061\060\202\002\042\060\015  
\006\011\052\206\110\206\367\015\001\001\001\005\000\003\202\002  
\017\000\060\202\002\012\002\202\002\001\000\213\302\347\257\145  
\233\005\147\226\311\015\044\271\320\016\144\374\316\342\044\030  
\054\204\177\167\121\313\004\021\066\270\136\355\151\161\247\236

\344\045\011\227\147\301\107\302\317\221\026\066\142\075\070\004  
\341\121\202\377\254\322\264\151\335\056\354\021\243\105\356\153  
\153\073\114\277\214\215\244\036\235\021\271\351\070\371\172\016  
\014\230\342\043\035\321\116\143\324\347\270\101\104\373\153\257  
\153\332\037\323\305\221\210\133\244\211\222\321\201\346\214\071  
\130\240\326\151\103\251\255\230\122\130\156\333\012\373\153\317  
\150\372\343\244\136\072\105\163\230\007\352\137\002\162\336\014  
\245\263\237\256\251\035\267\035\263\374\212\131\347\156\162\145  
\255\365\060\224\043\007\363\202\026\113\065\230\234\123\273\057  
\312\344\132\331\307\215\035\374\230\231\373\054\244\202\153\360  
\052\037\216\013\137\161\134\134\256\102\173\051\211\201\313\003  
\243\231\312\210\236\013\100\011\101\063\333\346\130\172\375\256  
\231\160\300\132\017\326\023\206\161\057\166\151\374\220\335\333  
\055\156\321\362\233\365\032\153\236\157\025\214\172\360\113\050  
\240\042\070\200\044\154\066\244\073\362\060\221\363\170\023\317  
\301\077\065\253\361\035\021\043\265\103\042\236\001\222\267\030  
\002\345\021\321\202\333\025\000\314\141\067\301\052\174\232\341  
\320\272\263\120\106\356\202\254\235\061\370\373\043\342\003\000  
\110\160\243\011\046\171\025\123\140\363\070\134\255\070\352\201  
\000\143\024\271\063\136\335\013\333\240\105\007\032\063\011\370  
\115\264\247\002\246\151\364\302\131\005\210\145\205\126\256\113  
\313\340\336\074\175\055\032\310\351\373\037\243\141\112\326\052  
\023\255\167\114\032\030\233\221\017\130\330\006\124\305\227\370  
\252\077\040\212\246\205\246\167\366\246\374\034\342\356\156\224  
\063\052\203\120\204\012\345\117\206\370\120\105\170\000\201\353  
\133\150\343\046\215\314\173\134\121\364\024\054\100\276\032\140  
\035\172\162\141\035\037\143\055\210\252\316\242\105\220\010\374  
\153\276\263\120\052\132\375\250\110\030\106\326\220\100\222\220  
\012\204\136\150\061\370\353\355\015\323\035\306\175\231\030\125  
\126\047\145\056\215\105\305\044\354\316\343\002\003\001\000\001  
\243\102\060\100\060\017\006\003\125\035\023\001\001\377\004\005  
\060\003\001\001\377\060\035\006\003\125\035\016\004\026\004\024  
\012\110\043\246\140\244\222\012\063\352\223\133\305\127\352\045  
\115\275\022\356\060\016\006\003\125\035\017\001\001\377\004\004  
\003\002\001\206\060\015\006\011\052\206\110\206\367\015\001\001  
\013\005\000\003\202\002\001\000\076\220\110\252\156\142\025\045  
\146\173\014\325\214\213\211\235\327\355\116\007\357\234\320\024  
\137\136\120\275\150\226\220\244\024\021\252\150\155\011\065\071  
\100\011\332\364\011\054\064\245\173\131\204\111\051\227\164\310  
\007\036\107\155\362\316\034\120\046\343\236\075\100\123\077\367  
\177\226\166\020\305\106\245\320\040\113\120\364\065\073\030\364  
\125\152\101\033\107\006\150\074\273\011\010\142\331\137\125\102  
\252\254\123\205\254\225\126\066\126\253\344\005\214\305\250\332  
\037\243\151\275\123\017\304\377\334\312\343\176\362\114\210\206  
\107\106\032\363\000\365\200\221\242\334\103\102\224\233\040\360  
\321\315\262\353\054\123\302\123\170\112\117\004\224\101\232\217  
\047\062\301\345\111\031\277\361\362\302\213\250\012\071\061\050  
\264\175\142\066\054\115\354\037\063\266\176\167\155\176\120\360

```
\237\016\327\021\217\317\030\305\343\047\376\046\357\005\235\317
\317\067\305\320\173\332\073\260\026\204\014\072\223\326\276\027
\333\017\076\016\031\170\011\307\251\002\162\042\113\367\067\166
\272\165\304\205\003\132\143\325\261\165\005\302\271\275\224\255
\214\025\231\247\223\175\366\305\363\252\164\317\004\205\224\230
\000\364\342\371\312\044\145\277\340\142\257\310\305\372\262\311
\236\126\110\332\171\375\226\166\025\276\243\216\126\304\263\064
\374\276\107\364\301\264\250\374\325\060\210\150\356\313\256\311
\143\304\166\276\254\070\030\341\136\134\317\256\072\042\121\353
\321\213\263\363\053\063\007\124\207\372\264\262\023\173\272\123
\004\142\001\235\361\300\117\356\341\072\324\213\040\020\372\002
\127\346\357\301\013\267\220\106\234\031\051\214\334\157\240\112
\151\151\224\267\044\145\240\377\254\077\316\001\373\041\056\375
\150\370\233\362\245\317\061\070\134\025\252\346\227\000\301\337
\132\245\247\071\252\351\204\177\074\121\250\072\331\224\133\214
\277\117\010\161\345\333\250\134\324\322\246\376\000\243\306\026
\307\017\350\200\316\034\050\144\164\031\010\323\102\343\316\000
\135\177\261\334\023\260\341\005\313\321\040\252\206\164\236\071
\347\221\375\377\133\326\367\255\246\057\003\013\155\343\127\124
\353\166\123\030\215\021\230\272
```

END

```
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRICT_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRICT_AFTER CK_BBOOL CK_FALSE
```

```
Trust for "HARICA TLS RSA Root CA 2021"
```

```
Issuer: CN=HARICA TLS RSA Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
```

```
Serial Number:39:ca:93:1c:ef:43:f3:c6:8e:93:c7:f4:64:89:38:7e
```

```
Subject: CN=HARICA TLS RSA Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
```

```
Not Valid Before: Fri Feb 19 10:55:38 2021
```

```
Not Valid After : Mon Feb 13 10:55:37 2045
```

```
Fingerprint (SHA-256):
```

```
D9:5D:0E:8E:DA:79:52:5B:F9:BE:B1:1B:14:D2:10:0D:32:94:98:5F:0C:62:D9:FA:BD:9C:D9:99:EC:CB:7B:1D
```

```
Fingerprint (SHA1): 02:2D:05:82:FA:88:CE:14:0C:06:79:DE:7F:14:10:E9:45:D7:A5:6D
```

```
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
```

```
CKA_TOKEN CK_BBOOL CK_TRUE
```

```
CKA_PRIVATE CK_BBOOL CK_FALSE
```

```
CKA_MODIFIABLE CK_BBOOL CK_FALSE
```

```
CKA_LABEL UTF8 "HARICA TLS RSA Root CA 2021"
```

```
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
```

```
\002\055\005\202\372\210\316\024\014\006\171\336\177\024\020\351
\105\327\245\155
```

END

```
CKA_CERT_MD5_HASH MULTILINE_OCTAL
```

```
\145\107\233\130\206\335\054\360\374\242\204\037\036\226\304\221
```

END

```
CKA_ISSUER MULTILINE_OCTAL
```

```
\060\154\061\013\060\011\006\003\125\004\006\023\002\107\122\061
```

```
\067\060\065\006\003\125\004\012\014\056\110\145\154\154\145\156
\151\143\040\101\143\141\144\145\155\151\143\040\141\156\144\040
\122\145\163\145\141\162\143\150\040\111\156\163\164\151\164\165
\164\151\157\156\163\040\103\101\061\044\060\042\006\003\125\004
\003\014\033\110\101\122\111\103\101\040\124\114\123\040\122\123
\101\040\122\157\157\164\040\103\101\040\062\060\062\061
```

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

```
\002\020\071\312\223\034\357\103\363\306\216\223\307\364\144\211
\070\176
```

END

CKA\_TRUST\_SERVER\_AUTH CK\_TRUST CKT\_NSS\_TRUSTED\_DELEGATOR

CKA\_TRUST\_EMAIL\_PROTECTION CK\_TRUST CKT\_NSS\_MUST\_VERIFY\_TRUST

CKA\_TRUST\_CODE\_SIGNING CK\_TRUST CKT\_NSS\_MUST\_VERIFY\_TRUST

CKA\_TRUST\_STEP\_UP\_APPROVED CK\_BBOOL CK\_FALSE

#

# Certificate "HARICA TLS ECC Root CA 2021"

#

# Issuer: CN=HARICA TLS ECC Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR

# Serial Number:67:74:9d:8d:77:d8:3b:6a:db:22:f4:ff:59:e2:bf:ce

# Subject: CN=HARICA TLS ECC Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR

# Not Valid Before: Fri Feb 19 11:01:10 2021

# Not Valid After : Mon Feb 13 11:01:09 2045

# Fingerprint (SHA-256):

3F:99:CC:47:4A:CF:CE:4D:FE:D5:87:94:66:5E:47:8D:15:47:73:9F:2E:78:0F:1B:B4:CA:9B:13:30:97:D4:01

# Fingerprint (SHA1): BC:B0:C1:9D:E9:98:92:70:19:38:57:E9:8D:A7:B4:5D:6E:EE:01:48

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_CERTIFICATE

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "HARICA TLS ECC Root CA 2021"

CKA\_CERTIFICATE\_TYPE CK\_CERTIFICATE\_TYPE CKC\_X\_509

CKA\_SUBJECT MULTILINE\_OCTAL

```
\060\154\061\013\060\011\006\003\125\004\006\023\002\107\122\061
\067\060\065\006\003\125\004\012\014\056\110\145\154\154\145\156
\151\143\040\101\143\141\144\145\155\151\143\040\141\156\144\040
\122\145\163\145\141\162\143\150\040\111\156\163\164\151\164\165
\164\151\157\156\163\040\103\101\061\044\060\042\006\003\125\004
\003\014\033\110\101\122\111\103\101\040\124\114\123\040\105\103
\103\040\122\157\157\164\040\103\101\040\062\060\062\061
```

END

CKA\_ID UTF8 "0"

CKA\_ISSUER MULTILINE\_OCTAL

```
\060\154\061\013\060\011\006\003\125\004\006\023\002\107\122\061
\067\060\065\006\003\125\004\012\014\056\110\145\154\154\145\156
\151\143\040\101\143\141\144\145\155\151\143\040\141\156\144\040
\122\145\163\145\141\162\143\150\040\111\156\163\164\151\164\165
```

\164\151\157\156\163\040\103\101\061\044\060\042\006\003\125\004  
\003\014\033\110\101\122\111\103\101\040\124\114\123\040\105\103  
\103\040\122\157\157\164\040\103\101\040\062\060\062\061  
END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

\002\020\147\164\235\215\167\330\073\152\333\042\364\377\131\342  
\277\316  
END

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\002\124\060\202\001\333\240\003\002\001\002\002\020\147  
\164\235\215\167\330\073\152\333\042\364\377\131\342\277\316\060  
\012\006\010\052\206\110\316\075\004\003\003\060\154\061\013\060  
\011\006\003\125\004\006\023\002\107\122\061\067\060\065\006\003  
\125\004\012\014\056\110\145\154\154\145\156\151\143\040\101\143  
\141\144\145\155\151\143\040\141\156\144\040\122\145\163\145\141  
\162\143\150\040\111\156\163\164\151\164\165\164\151\157\156\163  
\040\103\101\061\044\060\042\006\003\125\004\003\014\033\110\101  
\122\111\103\101\040\124\114\123\040\105\103\103\040\122\157\157  
\164\040\103\101\040\062\060\062\061\060\036\027\015\062\061\060  
\062\061\071\061\061\060\061\061\060\132\027\015\064\065\060\062  
\061\063\061\061\060\061\060\071\132\060\154\061\013\060\011\006  
\003\125\004\006\023\002\107\122\061\067\060\065\006\003\125\004  
\012\014\056\110\145\154\154\145\156\151\143\040\101\143\141\144  
\145\155\151\143\040\141\156\144\040\122\145\163\145\141\162\143  
\150\040\111\156\163\164\151\164\165\164\151\157\156\163\040\103  
\101\061\044\060\042\006\003\125\004\003\014\033\110\101\122\111  
\103\101\040\124\114\123\040\105\103\103\040\122\157\157\164\040  
\103\101\040\062\060\062\061\060\166\060\020\006\007\052\206\110  
\316\075\002\001\006\005\053\201\004\000\042\003\142\000\004\070  
\010\376\261\240\226\322\172\254\257\111\072\320\300\340\303\073  
\050\252\361\162\155\145\000\107\210\204\374\232\046\153\252\113  
\272\154\004\012\210\136\027\362\125\207\374\060\260\064\342\064  
\130\127\032\204\123\351\060\331\251\362\226\164\303\121\037\130  
\111\061\314\230\116\140\021\207\165\323\162\224\220\117\233\020  
\045\052\250\170\055\276\220\101\130\220\025\162\247\241\267\243  
\102\060\100\060\017\006\003\125\035\023\001\001\377\004\005\060  
\003\001\001\377\060\035\006\003\125\035\016\004\026\004\024\311  
\033\123\201\022\376\004\325\026\321\252\274\232\157\267\240\225  
\031\156\312\060\016\006\003\125\035\017\001\001\377\004\004\003  
\002\001\206\060\012\006\010\052\206\110\316\075\004\003\003\003  
\147\000\060\144\002\060\021\336\256\370\334\116\210\260\251\360  
\042\255\302\121\100\357\140\161\055\356\217\002\304\135\003\160  
\111\244\222\352\305\024\210\160\246\323\015\260\252\312\054\100  
\234\373\351\202\156\232\002\060\053\107\232\007\306\321\302\201  
\174\312\013\226\030\101\033\243\364\060\011\236\265\043\050\015  
\237\024\266\074\123\242\114\006\151\175\372\154\221\306\052\111  
\105\346\354\267\023\341\072\154  
END

END

```

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRICT_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRICT_AFTER CK_BBOOL CK_FALSE

Trust for "HARICA TLS ECC Root CA 2021"
Issuer: CN=HARICA TLS ECC Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
Serial Number:67:74:9d:8d:77:d8:3b:6a:db:22:f4:ff:59:e2:bf:ce
Subject: CN=HARICA TLS ECC Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
Not Valid Before: Fri Feb 19 11:01:10 2021
Not Valid After : Mon Feb 13 11:01:09 2045
Fingerprint (SHA-256):
3F:99:CC:47:4A:CF:CE:4D:FE:D5:87:94:66:5E:47:8D:15:47:73:9F:2E:78:0F:1B:B4:CA:9B:13:30:97:D4:01
Fingerprint (SHA1): BC:B0:C1:9D:E9:98:92:70:19:38:57:E9:8D:A7:B4:5D:6E:EE:01:48
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "HARICA TLS ECC Root CA 2021"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\274\260\301\235\351\230\222\160\031\070\127\351\215\247\264\135
\156\356\001\110
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\256\367\114\345\146\065\321\267\233\214\042\223\164\323\113\260
END
CKA_ISSUER MULTILINE_OCTAL
\060\154\061\013\060\011\006\003\125\004\006\023\002\107\122\061
\067\060\065\006\003\125\004\012\014\056\110\145\154\154\145\156
\151\143\040\101\143\141\144\145\155\151\143\040\141\156\144\040
\122\145\163\145\141\162\143\150\040\111\156\163\164\151\164\165
\164\151\157\156\163\040\103\101\061\044\060\042\006\003\125\004
\003\014\033\110\101\122\111\103\101\040\124\114\123\040\105\103
\103\040\122\157\157\164\040\103\101\040\062\060\062\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\147\164\235\215\167\330\073\152\333\042\364\377\131\342
\277\316
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "HARICA Client RSA Root CA 2021"
#
Issuer: CN=HARICA Client RSA Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
Serial Number:55:52:f8:1e:db:1b:24:2c:9e:bb:96:18:cd:02:28:3e

```

```
Subject: CN=HARICA Client RSA Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
Not Valid Before: Fri Feb 19 10:58:46 2021
Not Valid After : Mon Feb 13 10:58:45 2045
Fingerprint (SHA-256):
1B:E7:AB:E3:06:86:B1:63:48:AF:D1:C6:1B:68:66:A0:EA:7F:48:21:E6:7D:5E:8A:F9:37:CF:80:11:BC:75:0D
Fingerprint (SHA1): 46:C6:90:0A:77:3A:B6:BC:F4:65:AD:AC:FC:E3:F7:07:00:6E:DE:6E
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "HARICA Client RSA Root CA 2021"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\157\061\013\060\011\006\003\125\004\006\023\002\107\122\061
\067\060\065\006\003\125\004\012\014\056\110\145\154\154\145\156
\151\143\040\101\143\141\144\145\155\151\143\040\141\156\144\040
\122\145\163\145\141\162\143\150\040\111\156\163\164\151\164\165
\164\151\157\156\163\040\103\101\061\047\060\045\006\003\125\004
\003\014\036\110\101\122\111\103\101\040\103\154\151\145\156\164
\040\122\123\101\040\122\157\157\164\040\103\101\040\062\060\062
\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\157\061\013\060\011\006\003\125\004\006\023\002\107\122\061
\067\060\065\006\003\125\004\012\014\056\110\145\154\154\145\156
\151\143\040\101\143\141\144\145\155\151\143\040\141\156\144\040
\122\145\163\145\141\162\143\150\040\111\156\163\164\151\164\165
\164\151\157\156\163\040\103\101\061\047\060\045\006\003\125\004
\003\014\036\110\101\122\111\103\101\040\103\154\151\145\156\164
\040\122\123\101\040\122\157\157\164\040\103\101\040\062\060\062
\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\125\122\370\036\333\033\044\054\236\273\226\030\315\002
\050\076
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\252\060\202\003\222\240\003\002\001\002\002\020\125
\122\370\036\333\033\044\054\236\273\226\030\315\002\050\076\060
\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060\157
\061\013\060\011\006\003\125\004\006\023\002\107\122\061\067\060
\065\006\003\125\004\012\014\056\110\145\154\154\145\156\151\143
\040\101\143\141\144\145\155\151\143\040\141\156\144\040\122\145
\163\145\141\162\143\150\040\111\156\163\164\151\164\165\164\151
\157\156\163\040\103\101\061\047\060\045\006\003\125\004\003\014
\036\110\101\122\111\103\101\040\103\154\151\145\156\164\040\122
\123\101\040\122\157\157\164\040\103\101\040\062\060\062\061\060
```

\036\027\015\062\061\060\062\061\071\061\060\065\070\064\066\132  
\027\015\064\065\060\062\061\063\061\060\065\070\064\065\132\060  
\157\061\013\060\011\006\003\125\004\006\023\002\107\122\061\067  
\060\065\006\003\125\004\012\014\056\110\145\154\154\145\156\151  
\143\040\101\143\141\144\145\155\151\143\040\141\156\144\040\122  
\145\163\145\141\162\143\150\040\111\156\163\164\151\164\165\164  
\151\157\156\163\040\103\101\061\047\060\045\006\003\125\004\003  
\014\036\110\101\122\111\103\101\040\103\154\151\145\156\164\040  
\122\123\101\040\122\157\157\164\040\103\101\040\062\060\062\061  
\060\202\002\042\060\015\006\011\052\206\110\206\367\015\001\001  
\001\005\000\003\202\002\017\000\060\202\002\012\002\202\002\001  
\000\201\333\127\102\220\054\164\065\364\370\270\164\031\115\253  
\011\132\167\105\201\163\142\260\065\237\370\320\267\063\000\207  
\023\266\226\253\016\124\022\060\007\274\233\267\110\327\321\031  
\203\256\216\330\251\361\251\000\204\260\214\136\236\350\014\217  
\124\151\277\366\324\010\117\046\160\376\030\101\143\032\263\062  
\213\100\370\007\253\127\061\360\306\026\166\147\232\264\335\057  
\362\321\153\305\320\222\204\221\161\156\017\056\143\351\037\123  
\244\335\122\023\314\011\203\051\201\014\305\123\165\104\261\016  
\147\123\030\320\303\037\210\113\237\224\044\264\051\274\273\350  
\116\375\157\322\025\035\111\334\215\160\362\021\032\040\121\125  
\021\272\210\157\304\367\120\171\326\252\061\342\204\075\136\062  
\310\167\052\120\161\345\013\057\351\266\352\357\253\012\063\071  
\016\375\217\245\147\103\202\216\230\151\011\011\033\100\315\070  
\147\107\352\311\354\227\161\022\336\044\365\162\074\321\367\103  
\114\046\367\220\262\211\351\105\113\125\075\061\005\172\101\342  
\225\272\103\300\027\305\266\205\075\031\215\144\160\363\133\254  
\315\237\323\051\165\207\113\225\147\152\246\370\321\335\274\220  
\206\211\103\051\251\067\133\365\135\260\046\132\123\102\166\220  
\053\317\236\126\154\053\124\317\134\232\145\337\133\213\110\140  
\070\174\373\305\013\317\166\004\143\002\063\052\175\365\203\147  
\347\372\306\103\375\053\017\324\046\057\167\244\062\301\044\352  
\144\235\277\263\070\161\061\104\362\107\270\242\146\101\241\373  
\233\173\274\307\106\152\165\277\132\242\214\350\152\104\301\270  
\226\265\300\062\010\055\173\164\065\163\262\312\306\376\257\021  
\162\030\366\347\310\302\317\245\052\352\173\326\131\350\174\240  
\262\152\100\011\151\016\245\226\333\321\000\271\361\210\156\066  
\360\210\262\235\361\122\362\303\174\277\060\211\074\012\151\371  
\042\244\145\341\233\340\164\306\261\205\227\226\054\256\224\217  
\120\246\071\022\037\276\107\362\201\170\323\165\066\236\175\132  
\040\227\342\122\256\231\237\306\174\233\146\363\376\330\317\356  
\275\227\006\035\055\205\334\076\066\123\226\173\040\272\350\310  
\341\255\226\142\076\021\174\263\000\204\236\247\114\161\253\112  
\067\002\003\001\000\001\243\102\060\100\060\017\006\003\125\035  
\023\001\001\377\004\005\060\003\001\001\377\060\035\006\003\125  
\035\016\004\026\004\024\240\326\007\075\136\044\367\173\240\104  
\056\044\122\015\031\252\053\004\221\247\060\016\006\003\125\035  
\017\001\001\377\004\004\003\002\001\206\060\015\006\011\052\206



\110\206\367\015\001\001\013\005\000\003\202\002\001\000\015\107  
\371\011\146\061\122\354\171\356\302\250\362\150\076\355\226\105  
\313\072\246\230\143\077\352\053\115\116\003\320\034\202\341\313  
\323\345\326\253\133\147\050\274\235\376\014\231\012\200\125\247  
\316\033\043\141\015\260\127\360\376\340\312\276\346\220\333\203  
\054\276\203\216\364\171\266\376\320\015\102\247\130\037\151\352  
\201\365\005\245\376\106\150\353\154\170\311\340\352\347\346\336  
\061\305\322\325\054\202\143\050\235\135\250\032\176\210\346\347  
\053\361\054\325\320\005\236\334\055\275\067\146\324\004\242\247  
\255\277\072\302\250\073\255\377\215\235\063\340\271\232\204\241  
\207\037\166\364\202\164\327\016\371\060\110\076\133\210\076\252  
\134\153\326\057\014\350\216\163\302\030\221\203\071\266\146\132  
\320\037\140\047\135\115\343\366\072\015\146\120\234\170\173\253  
\363\023\020\256\017\057\253\350\144\263\030\040\235\106\065\144  
\045\163\352\233\020\134\130\065\211\261\106\110\247\364\254\324  
\035\236\133\314\251\245\032\023\117\044\120\252\331\033\155\261  
\100\373\235\335\130\164\304\302\157\024\162\354\333\065\237\270  
\124\165\105\303\246\310\032\050\065\072\256\145\362\251\230\316  
\257\133\311\070\214\061\073\177\314\334\226\375\342\133\326\320  
\131\364\166\272\013\313\117\203\020\307\100\320\035\140\351\052  
\345\110\130\167\014\105\151\276\031\161\004\044\342\343\044\037  
\112\310\301\076\231\365\226\230\070\110\045\241\025\260\033\327  
\342\204\030\133\366\161\065\232\150\173\100\314\030\134\014\044  
\235\324\225\365\231\252\106\352\256\254\277\364\024\031\044\350  
\214\354\343\365\274\006\150\212\052\014\005\137\012\227\165\247  
\334\176\300\375\327\172\030\337\060\321\070\113\037\260\230\160  
\277\314\174\163\360\156\304\061\245\244\227\035\254\277\316\154  
\041\112\276\047\043\147\363\006\126\201\012\221\216\266\341\003  
\005\063\054\332\064\010\115\116\120\043\255\037\245\305\324\172  
\376\352\011\354\247\050\140\213\106\174\265\352\233\335\117\371  
\347\153\025\306\210\317\103\333\345\047\334\004\126\156\157\106  
\025\361\126\055\350\134\014\163\303\043\201\070\040\313\311\014  
\151\317\054\253\073\204\140\063\031\122\375\151\024\063

END

CKA\_NSS\_MOZILLA\_CA\_POLICY CK\_BBOOL CK\_TRUE  
CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE  
CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "HARICA Client RSA Root CA 2021"  
# Issuer: CN=HARICA Client RSA Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR  
# Serial Number:55:52:f8:1e:db:1b:24:2c:9e:bb:96:18:cd:02:28:3e  
# Subject: CN=HARICA Client RSA Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR  
# Not Valid Before: Fri Feb 19 10:58:46 2021  
# Not Valid After : Mon Feb 13 10:58:45 2045  
# Fingerprint (SHA-256):  
1B:E7:AB:E3:06:86:B1:63:48:AF:D1:C6:1B:68:66:A0:EA:7F:48:21:E6:7D:5E:8A:F9:37:CF:80:11:BC:75:0D  
# Fingerprint (SHA1): 46:C6:90:0A:77:3A:B6:BC:F4:65:AD:AC:FC:E3:F7:07:00:6E:DE:6E  
CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

```

CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "HARICA Client RSA Root CA 2021"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\106\306\220\012\167\072\266\274\364\145\255\254\374\343\367\007
\000\156\336\156
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\157\355\134\327\210\314\070\251\334\351\335\331\135\333\330\355
END
CKA_ISSUER MULTILINE_OCTAL
\060\157\061\013\060\011\006\003\125\004\006\023\002\107\122\061
\067\060\065\006\003\125\004\012\014\056\110\145\154\154\145\156
\151\143\040\101\143\141\144\145\155\151\143\040\141\156\144\040
\122\145\163\145\141\162\143\150\040\111\156\163\164\151\164\165
\164\151\157\156\163\040\103\101\061\047\060\045\006\003\125\004
\003\014\036\110\101\122\111\103\101\040\103\154\151\145\156\164
\040\122\123\101\040\122\157\157\164\040\103\101\040\062\060\062
\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\125\122\370\036\333\033\044\054\236\273\226\030\315\002
\050\076
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "HARICA Client ECC Root CA 2021"
#
Issuer: CN=HARICA Client ECC Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
Serial Number:31:68:d9:d8:e1:62:57:1e:d2:19:44:88:e6:10:7d:f0
Subject: CN=HARICA Client ECC Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
Not Valid Before: Fri Feb 19 11:03:34 2021
Not Valid After : Mon Feb 13 11:03:33 2045
Fingerprint (SHA-256):
8D:D4:B5:37:3C:B0:DE:36:76:9C:12:33:92:80:D8:27:46:B3:AA:6C:D4:26:E7:97:A3:1B:AB:E4:27:9C:F0:0B
Fingerprint (SHA1): BE:64:D3:DA:14:4B:D2:6B:CD:AF:8F:DB:A6:A6:72:F8:DE:26:F9:00
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "HARICA Client ECC Root CA 2021"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL

```

\060\157\061\013\060\011\006\003\125\004\006\023\002\107\122\061  
\067\060\065\006\003\125\004\012\014\056\110\145\154\154\145\156  
\151\143\040\101\143\141\144\145\155\151\143\040\141\156\144\040  
\122\145\163\145\141\162\143\150\040\111\156\163\164\151\164\165  
\164\151\157\156\163\040\103\101\061\047\060\045\006\003\125\004  
\003\014\036\110\101\122\111\103\101\040\103\154\151\145\156\164  
\040\105\103\103\040\122\157\157\164\040\103\101\040\062\060\062  
\061

END

CKA\_ID UTF8 "0"

CKA\_ISSUER MULTILINE\_OCTAL

\060\157\061\013\060\011\006\003\125\004\006\023\002\107\122\061  
\067\060\065\006\003\125\004\012\014\056\110\145\154\154\145\156  
\151\143\040\101\143\141\144\145\155\151\143\040\141\156\144\040  
\122\145\163\145\141\162\143\150\040\111\156\163\164\151\164\165  
\164\151\157\156\163\040\103\101\061\047\060\045\006\003\125\004  
\003\014\036\110\101\122\111\103\101\040\103\154\151\145\156\164  
\040\105\103\103\040\122\157\157\164\040\103\101\040\062\060\062  
\061

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

\002\020\061\150\331\330\341\142\127\036\322\031\104\210\346\020  
\175\360

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\002\132\060\202\001\341\240\003\002\001\002\002\020\061  
\150\331\330\341\142\127\036\322\031\104\210\346\020\175\360\060  
\012\006\010\052\206\110\316\075\004\003\003\060\157\061\013\060  
\011\006\003\125\004\006\023\002\107\122\061\067\060\065\006\003  
\125\004\012\014\056\110\145\154\154\145\156\151\143\040\101\143  
\141\144\145\155\151\143\040\141\156\144\040\122\145\163\145\141  
\162\143\150\040\111\156\163\164\151\164\165\164\151\157\156\163  
\040\103\101\061\047\060\045\006\003\125\004\003\014\036\110\101  
\122\111\103\101\040\103\154\151\145\156\164\040\105\103\103\040  
\122\157\157\164\040\103\101\040\062\060\062\061\060\036\027\015  
\062\061\060\062\061\071\061\061\060\063\063\064\132\027\015\064  
\065\060\062\061\063\061\061\060\063\063\063\132\060\157\061\013  
\060\011\006\003\125\004\006\023\002\107\122\061\067\060\065\006  
\003\125\004\012\014\056\110\145\154\154\145\156\151\143\040\101  
\143\141\144\145\155\151\143\040\141\156\144\040\122\145\163\145  
\141\162\143\150\040\111\156\163\164\151\164\165\164\151\157\156  
\163\040\103\101\061\047\060\045\006\003\125\004\003\014\036\110  
\101\122\111\103\101\040\103\154\151\145\156\164\040\105\103\103  
\040\122\157\157\164\040\103\101\040\062\060\062\061\060\166\060  
\020\006\007\052\206\110\316\075\002\001\006\005\053\201\004\000  
\042\003\142\000\004\007\030\255\225\226\224\320\134\017\202\367  
\052\100\372\002\311\311\075\066\246\243\004\152\301\155\225\001  
\210\140\022\124\154\134\242\053\156\023\072\210\225\014\034\046

```
\206\066\112\211\031\267\030\336\073\350\250\120\037\312\337\133
\277\111\200\025\333\343\060\341\035\132\307\052\212\001\007\376
\155\054\064\357\050\050\227\274\301\371\127\206\225\213\065\317
\236\132\321\150\225\243\102\060\100\060\017\006\003\125\035\023
\001\001\377\004\005\060\003\001\001\377\060\035\006\003\125\035
\016\004\026\004\024\122\010\322\276\062\201\045\375\365\032\227
\354\116\137\032\273\123\315\220\255\060\016\006\003\125\035\017
\001\001\377\004\004\003\002\001\206\060\012\006\010\052\206\110
\316\075\004\003\003\003\147\000\060\144\002\060\114\061\105\106
\117\250\346\276\303\167\262\032\030\113\055\210\173\130\346\253
\224\153\104\003\260\027\377\337\202\163\104\121\054\375\223\035
\006\173\024\322\211\354\100\014\357\041\001\056\002\060\057\311
\056\132\154\054\035\331\225\340\236\260\271\134\122\174\366\370
\070\312\056\361\324\035\362\242\111\242\225\370\301\130\136\117
\376\163\012\357\061\260\253\043\130\023\214\213\336\073
```

END

```
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRICT_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRICT_AFTER CK_BBOOL CK_FALSE
```

```
Trust for "HARICA Client ECC Root CA 2021"
```

```
Issuer: CN=HARICA Client ECC Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
```

```
Serial Number:31:68:d9:d8:e1:62:57:1e:d2:19:44:88:e6:10:7d:f0
```

```
Subject: CN=HARICA Client ECC Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
```

```
Not Valid Before: Fri Feb 19 11:03:34 2021
```

```
Not Valid After : Mon Feb 13 11:03:33 2045
```

```
Fingerprint (SHA-256):
```

```
8D:D4:B5:37:3C:B0:DE:36:76:9C:12:33:92:80:D8:27:46:B3:AA:6C:D4:26:E7:97:A3:1B:AB:E4:27:9C:F0:0B
```

```
Fingerprint (SHA1): BE:64:D3:DA:14:4B:D2:6B:CD:AF:8F:DB:A6:A6:72:F8:DE:26:F9:00
```

```
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
```

```
CKA_TOKEN CK_BBOOL CK_TRUE
```

```
CKA_PRIVATE CK_BBOOL CK_FALSE
```

```
CKA_MODIFIABLE CK_BBOOL CK_FALSE
```

```
CKA_LABEL UTF8 "HARICA Client ECC Root CA 2021"
```

```
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
```

```
\276\144\323\332\024\113\322\153\315\257\217\333\246\246\162\370
\336\046\371\000
```

END

```
CKA_CERT_MD5_HASH MULTILINE_OCTAL
```

```
\255\270\120\246\251\202\172\154\075\032\252\244\322\143\244\104
```

END

```
CKA_ISSUER MULTILINE_OCTAL
```

```
\060\157\061\013\060\011\006\003\125\004\006\023\002\107\122\061
\067\060\065\006\003\125\004\012\014\056\110\145\154\154\145\156
\151\143\040\101\143\141\144\145\155\151\143\040\141\156\144\040
\122\145\163\145\141\162\143\150\040\111\156\163\164\151\164\165
\164\151\157\156\163\040\103\101\061\047\060\045\006\003\125\004
\003\014\036\110\101\122\111\103\101\040\103\154\151\145\156\164
```

```

\040\105\103\103\040\122\157\157\164\040\103\101\040\062\060\062
\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\061\150\331\330\341\142\127\036\322\031\104\210\346\020
\175\360
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Autoridad de Certificacion Firmaprofesional CIF A62634068"
#
Issuer: CN=Autoridad de Certificacion Firmaprofesional CIF A62634068,C=ES
Serial Number:1b:70:e9:d2:ff:ae:6c:71
Subject: CN=Autoridad de Certificacion Firmaprofesional CIF A62634068,C=ES
Not Valid Before: Tue Sep 23 15:22:07 2014
Not Valid After : Mon May 05 15:22:07 2036
Fingerprint (SHA-256):
57:DE:05:83:EF:D2:B2:6E:03:61:DA:99:DA:9D:F4:64:8D:EF:7E:E8:44:1C:3B:72:8A:FA:9B:CD:E0:F9:B2:6A
Fingerprint (SHA1): 0B:BE:C2:27:22:49:CB:39:AA:DB:35:5C:53:E3:8C:AE:78:FF:B6:FE
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Autoridad de Certificacion Firmaprofesional CIF A62634068"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\121\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\102\060\100\006\003\125\004\003\014\071\101\165\164\157\162\151
\144\141\144\040\144\145\040\103\145\162\164\151\146\151\143\141
\143\151\157\156\040\106\151\162\155\141\160\162\157\146\145\163
\151\157\156\141\154\040\103\111\106\040\101\066\062\066\063\064
\060\066\070
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\121\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\102\060\100\006\003\125\004\003\014\071\101\165\164\157\162\151
\144\141\144\040\144\145\040\103\145\162\164\151\146\151\143\141
\143\151\157\156\040\106\151\162\155\141\160\162\157\146\145\163
\151\157\156\141\154\040\103\111\106\040\101\066\062\066\063\064
\060\066\070
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\033\160\351\322\377\256\154\161

```

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\006\024\060\202\003\374\240\003\002\001\002\002\010\033  
\160\351\322\377\256\154\161\060\015\006\011\052\206\110\206\367  
\015\001\001\013\005\000\060\121\061\013\060\011\006\003\125\004  
\006\023\002\105\123\061\102\060\100\006\003\125\004\003\014\071  
\101\165\164\157\162\151\144\141\144\040\144\145\040\103\145\162  
\164\151\146\151\143\141\143\151\157\156\040\106\151\162\155\141  
\160\162\157\146\145\163\151\157\156\141\154\040\103\111\106\040  
\101\066\062\066\063\064\060\066\070\060\036\027\015\061\064\060  
\071\062\063\061\065\062\062\060\067\132\027\015\063\066\060\065  
\060\065\061\065\062\062\060\067\132\060\121\061\013\060\011\006  
\003\125\004\006\023\002\105\123\061\102\060\100\006\003\125\004  
\003\014\071\101\165\164\157\162\151\144\141\144\040\144\145\040  
\103\145\162\164\151\146\151\143\141\143\151\157\156\040\106\151  
\162\155\141\160\162\157\146\145\163\151\157\156\141\154\040\103  
\111\106\040\101\066\062\066\063\064\060\066\070\060\202\002\042  
\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003  
\202\002\017\000\060\202\002\012\002\202\002\001\000\312\226\153  
\216\352\370\373\361\242\065\340\177\114\332\340\303\122\327\175  
\266\020\310\002\136\263\103\052\304\117\152\262\312\034\135\050  
\232\170\021\032\151\131\127\257\265\040\102\344\213\017\346\337  
\133\246\003\222\057\365\021\344\142\327\062\161\070\331\004\014  
\161\253\075\121\176\017\007\337\143\005\134\351\277\224\157\301  
\051\202\300\264\332\121\260\301\074\273\255\067\112\134\312\361  
\113\066\016\044\253\277\303\204\167\375\250\120\364\261\347\306  
\057\322\055\131\215\172\012\116\226\151\122\002\252\066\230\354  
\374\372\024\203\014\067\037\311\222\067\177\327\201\055\345\304  
\271\340\076\064\376\147\364\076\146\321\323\364\100\317\136\142  
\064\017\160\006\076\040\030\132\316\367\162\033\045\154\223\164  
\024\223\243\163\261\016\252\207\020\043\131\137\040\005\031\107  
\355\150\216\222\022\312\135\374\326\053\262\222\074\040\317\341  
\137\257\040\276\240\166\177\166\345\354\032\206\141\063\076\347  
\173\264\077\240\017\216\242\271\152\157\271\207\046\157\101\154  
\210\246\120\375\152\143\013\365\223\026\033\031\217\262\355\233  
\233\311\220\365\001\014\337\031\075\017\076\070\043\311\057\217  
\014\321\002\376\033\125\326\116\320\215\074\257\117\244\363\376  
\257\052\323\005\235\171\010\241\313\127\061\264\234\310\220\262  
\147\364\030\026\223\072\374\107\330\321\170\226\061\037\272\053  
\014\137\135\231\255\143\211\132\044\040\166\330\337\375\253\116  
\246\042\252\235\136\346\047\212\175\150\051\243\347\212\270\332  
\021\273\027\055\231\235\023\044\106\367\305\342\330\237\216\177  
\307\217\164\155\132\262\350\162\365\254\356\044\020\255\057\024  
\332\377\055\232\106\161\107\276\102\337\273\001\333\364\177\323  
\050\217\061\131\133\323\311\002\246\264\122\312\156\227\373\103  
\305\010\046\157\212\364\273\375\237\050\252\015\325\105\363\023  
\072\035\330\300\170\217\101\147\074\036\224\144\256\173\013\305  
\350\331\001\210\071\032\227\206\144\101\325\073\207\014\156\372

\017\306\275\110\024\277\071\115\324\236\101\266\217\226\035\143  
\226\223\331\225\006\170\061\150\236\067\006\073\200\211\105\141  
\071\043\307\033\104\243\025\345\034\370\222\060\273\002\003\001  
\000\001\243\201\357\060\201\354\060\035\006\003\125\035\016\004  
\026\004\024\145\315\353\253\065\036\000\076\176\325\164\300\034  
\264\163\107\016\032\144\057\060\022\006\003\125\035\023\001\001  
\377\004\010\060\006\001\001\377\002\001\001\060\201\246\006\003  
\125\035\040\004\201\236\060\201\233\060\201\230\006\004\125\035  
\040\000\060\201\217\060\057\006\010\053\006\001\005\005\007\002  
\001\026\043\150\164\164\160\072\057\057\167\167\167\056\146\151  
\162\155\141\160\162\157\146\145\163\151\157\156\141\154\056\143  
\157\155\057\143\160\163\060\134\006\010\053\006\001\005\005\007  
\002\002\060\120\036\116\000\120\000\141\000\163\000\145\000\157  
\000\040\000\144\000\145\000\040\000\154\000\141\000\040\000\102  
\000\157\000\156\000\141\000\156\000\157\000\166\000\141\000\040  
\000\064\000\067\000\040\000\102\000\141\000\162\000\143\000\145  
\000\154\000\157\000\156\000\141\000\040\000\060\000\070\000\060  
\000\061\000\067\060\016\006\003\125\035\017\001\001\377\004\004  
\003\002\001\006\060\015\006\011\052\206\110\206\367\015\001\001  
\013\005\000\003\202\002\001\000\164\207\050\002\053\167\037\146  
\211\144\355\217\164\056\106\034\273\250\370\370\013\035\203\266  
\072\247\350\105\212\007\267\340\076\040\313\341\010\333\023\010  
\370\050\241\065\262\200\263\013\121\300\323\126\232\215\063\105  
\111\257\111\360\340\075\007\172\105\023\132\377\310\227\330\323  
\030\054\175\226\370\335\242\145\103\160\223\220\025\272\220\337  
\350\031\260\333\054\212\140\017\267\157\224\007\036\035\246\311  
\205\366\275\064\370\100\170\142\020\160\072\276\175\113\071\201  
\251\020\324\226\101\273\370\137\034\013\035\010\362\261\260\211  
\172\362\367\240\340\304\217\213\170\265\073\130\245\043\216\117  
\125\376\066\073\340\014\267\312\052\060\101\040\264\200\315\256  
\374\166\146\163\250\256\156\341\174\332\003\350\224\040\346\042  
\243\320\037\220\135\040\123\024\046\127\332\124\227\337\026\104  
\020\001\036\210\146\217\162\070\223\335\040\267\064\276\327\361  
\356\143\216\107\171\050\006\374\363\131\105\045\140\042\063\033  
\243\137\250\272\052\332\032\075\315\100\352\214\356\005\025\225  
\325\245\054\040\057\247\230\050\356\105\374\361\270\210\000\054  
\217\102\332\121\325\234\345\023\150\161\105\103\213\236\013\041  
\074\113\134\005\334\032\237\230\216\332\275\042\236\162\315\255  
\012\313\314\243\147\233\050\164\304\233\327\032\074\004\130\246  
\202\235\255\307\173\157\377\200\226\351\370\215\152\275\030\220  
\035\377\111\032\220\122\067\223\057\074\002\135\202\166\013\121  
\347\026\307\127\370\070\371\247\315\233\042\124\357\143\260\025  
\155\123\145\003\112\136\112\240\262\247\216\111\000\131\070\325  
\307\364\200\144\365\156\225\120\270\021\176\025\160\070\112\260  
\177\320\304\062\160\300\031\377\311\070\055\024\054\146\364\102  
\104\346\125\166\033\200\025\127\377\300\247\247\252\071\252\330  
\323\160\320\056\272\353\224\152\372\137\064\206\347\142\265\375  
\212\360\060\205\224\311\257\044\002\057\157\326\335\147\376\343

```
\260\125\117\004\230\117\244\101\126\342\223\320\152\350\326\363
\373\145\340\316\165\304\061\131\014\356\202\310\014\140\063\112
\031\272\204\147\047\017\274\102\135\275\044\124\015\354\035\160
\006\137\244\274\372\040\174\125
```

END

```
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRICT_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRICT_AFTER CK_BBOOL CK_FALSE
```

```
Trust for "Autoridad de Certificacion Firmaprofesional CIF A62634068"
```

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

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

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

```
Not Valid Before: Tue Sep 23 15:22:07 2014
```

```
Not Valid After : Mon May 05 15:22:07 2036
```

```
Fingerprint (SHA-256):
```

```
57:DE:05:83:EF:D2:B2:6E:03:61:DA:99:DA:9D:F4:64:8D:EF:7E:E8:44:1C:3B:72:8A:FA:9B:CD:E0:F9:B2:6A
```

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

```
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
```

```
CKA_TOKEN CK_BBOOL CK_TRUE
```

```
CKA_PRIVATE CK_BBOOL CK_FALSE
```

```
CKA_MODIFIABLE CK_BBOOL CK_FALSE
```

```
CKA_LABEL UTF8 "Autoridad de Certificacion Firmaprofesional CIF A62634068"
```

```
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
```

```
\013\276\302\047\042\111\313\071\252\333\065\134\123\343\214\256
\170\377\266\376
```

END

```
CKA_CERT_MD5_HASH MULTILINE_OCTAL
```

```
\116\156\233\124\114\312\267\372\110\344\220\261\025\113\034\243
```

END

```
CKA_ISSUER MULTILINE_OCTAL
```

```
\060\121\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\102\060\100\006\003\125\004\003\014\071\101\165\164\157\162\151
\144\141\144\040\144\145\040\103\145\162\164\151\146\151\143\141
\143\151\157\156\040\106\151\162\155\141\160\162\157\146\145\163
\151\157\156\141\154\040\103\111\106\040\101\066\062\066\063\064
\060\066\070
```

END

```
CKA_SERIAL_NUMBER MULTILINE_OCTAL
```

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

END

```
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
```

```
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
```

```
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
```

```
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
```

```
#
```

```
Certificate "vTrus ECC Root CA"
```



```
#
Issuer: CN=vTrus ECC Root CA,O="iTrusChina Co.,Ltd.",C=CN
Serial Number:6e:6a:bc:59:aa:53:be:98:39:67:a2:d2:6b:a4:3b:e6:6d:1c:d6:da
Subject: CN=vTrus ECC Root CA,O="iTrusChina Co.,Ltd.",C=CN
Not Valid Before: Tue Jul 31 07:26:44 2018
Not Valid After : Fri Jul 31 07:26:44 2043
Fingerprint (SHA-256):
30:FB:BA:2C:32:23:8E:2A:98:54:7A:F9:79:31:E5:50:42:8B:9B:3F:1C:8E:EB:66:33:DC:FA:86:C5:B2:7D:D3
Fingerprint (SHA1): F6:9C:DB:B0:FC:F6:02:13:B6:52:32:A6:A3:91:3F:16:70:DA:C3:E1
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "vTrus ECC Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\107\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\034\060\032\006\003\125\004\012\023\023\151\124\162\165\163\103
\150\151\156\141\040\103\157\056\054\114\164\144\056\061\032\060
\030\006\003\125\004\003\023\021\166\124\162\165\163\040\105\103
\103\040\122\157\157\164\040\103\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\107\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\034\060\032\006\003\125\004\012\023\023\151\124\162\165\163\103
\150\151\156\141\040\103\157\056\054\114\164\144\056\061\032\060
\030\006\003\125\004\003\023\021\166\124\162\165\163\040\105\103
\103\040\122\157\157\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\156\152\274\131\252\123\276\230\071\147\242\322\153\244
\073\346\155\034\326\332
END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\017\060\202\001\225\240\003\002\001\002\002\024\156
\152\274\131\252\123\276\230\071\147\242\322\153\244\073\346\155
\034\326\332\060\012\006\010\052\206\110\316\075\004\003\003\060
\107\061\013\060\011\006\003\125\004\006\023\002\103\116\061\034
\060\032\006\003\125\004\012\023\023\151\124\162\165\163\103\150
\151\156\141\040\103\157\056\054\114\164\144\056\061\032\060\030
\006\003\125\004\003\023\021\166\124\162\165\163\040\105\103\103
\040\122\157\157\164\040\103\101\060\036\027\015\061\070\060\067
\063\061\060\067\062\066\064\064\132\027\015\064\063\060\067\063
\061\060\067\062\066\064\064\132\060\107\061\013\060\011\006\003
\125\004\006\023\002\103\116\061\034\060\032\006\003\125\004\012
\023\023\151\124\162\165\163\103\150\151\156\141\040\103\157\056
\054\114\164\144\056\061\032\060\030\006\003\125\004\003\023\021
```

```
\166\124\162\165\163\040\105\103\103\040\122\157\157\164\040\103
\101\060\166\060\020\006\007\052\206\110\316\075\002\001\006\005
\053\201\004\000\042\003\142\000\004\145\120\112\256\214\171\226
\112\252\034\010\303\243\242\315\376\131\126\101\167\375\046\224
\102\273\035\315\010\333\163\262\133\165\363\317\234\116\202\364
\277\370\141\046\205\154\326\205\133\162\160\322\375\333\142\264
\337\123\213\275\261\104\130\142\102\011\307\372\177\133\020\347
\376\100\375\300\330\303\053\062\347\160\246\267\246\040\125\035
\173\200\135\113\217\147\114\361\020\243\102\060\100\060\035\006
\003\125\035\016\004\026\004\024\230\071\315\276\330\262\214\367
\262\253\341\255\044\257\173\174\241\333\037\317\060\017\006\003
\125\035\023\001\001\377\004\005\060\003\001\001\377\060\016\006
\003\125\035\017\001\001\377\004\004\003\002\001\006\060\012\006
\010\052\206\110\316\075\004\003\003\003\150\000\060\145\002\060
\127\235\335\126\361\307\343\351\270\111\120\153\233\151\303\157
\354\303\175\045\344\127\225\023\100\233\122\323\073\363\100\031
\274\046\307\055\006\236\265\173\066\237\365\045\324\143\153\000
\002\061\000\351\323\306\236\126\232\052\314\241\332\077\310\146
\053\323\130\234\040\205\372\253\221\212\160\160\021\070\140\144
\013\142\011\221\130\000\371\115\373\064\150\332\011\255\041\006
\030\224\316
```

END

```
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRICT_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRICT_AFTER CK_BBOOL CK_FALSE
```

```
Trust for "vTrus ECC Root CA"
```

```
Issuer: CN=vTrus ECC Root CA,O="iTrusChina Co.,Ltd.",C=CN
```

```
Serial Number:6e:6a:bc:59:aa:53:be:98:39:67:a2:d2:6b:a4:3b:e6:6d:1c:d6:da
```

```
Subject: CN=vTrus ECC Root CA,O="iTrusChina Co.,Ltd.",C=CN
```

```
Not Valid Before: Tue Jul 31 07:26:44 2018
```

```
Not Valid After : Fri Jul 31 07:26:44 2043
```

```
Fingerprint (SHA-256):
```

```
30:FB:BA:2C:32:23:8E:2A:98:54:7A:F9:79:31:E5:50:42:8B:9B:3F:1C:8E:EB:66:33:DC:FA:86:C5:B2:7D:D3
```

```
Fingerprint (SHA1): F6:9C:DB:B0:FC:F6:02:13:B6:52:32:A6:A3:91:3F:16:70:DA:C3:E1
```

```
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
```

```
CKA_TOKEN CK_BBOOL CK_TRUE
```

```
CKA_PRIVATE CK_BBOOL CK_FALSE
```

```
CKA_MODIFIABLE CK_BBOOL CK_FALSE
```

```
CKA_LABEL UTF8 "vTrus ECC Root CA"
```

```
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
```

```
\366\234\333\260\374\366\002\023\266\122\062\246\243\221\077\026
```

```
\160\332\303\341
```

END

```
CKA_CERT_MD5_HASH MULTILINE_OCTAL
```

```
\336\113\301\365\122\214\233\103\341\076\217\125\124\027\215\205
```

END

```
CKA_ISSUER MULTILINE_OCTAL
```

```
\060\107\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\034\060\032\006\003\125\004\012\023\023\151\124\162\165\163\103
\150\151\156\141\040\103\157\056\054\114\164\144\056\061\032\060
\030\006\003\125\004\003\023\021\166\124\162\165\163\040\105\103
\103\040\122\157\157\164\040\103\101
```

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

```
\002\024\156\152\274\131\252\123\276\230\071\147\242\322\153\244
\073\346\155\034\326\332
```

END

CKA\_TRUST\_SERVER\_AUTH CK\_TRUST CKT\_NSS\_TRUSTED\_DELEGATOR

CKA\_TRUST\_EMAIL\_PROTECTION CK\_TRUST CKT\_NSS\_MUST\_VERIFY\_TRUST

CKA\_TRUST\_CODE\_SIGNING CK\_TRUST CKT\_NSS\_MUST\_VERIFY\_TRUST

CKA\_TRUST\_STEP\_UP\_APPROVED CK\_BBOOL CK\_FALSE

#

# Certificate "vTrus Root CA"

#

# Issuer: CN=vTrus Root CA,O="iTrusChina Co.,Ltd.",C=CN

# Serial Number:43:e3:71:13:d8:b3:59:14:5d:b7:ce:8c:fd:35:fd:6f:bc:05:8d:45

# Subject: CN=vTrus Root CA,O="iTrusChina Co.,Ltd.",C=CN

# Not Valid Before: Tue Jul 31 07:24:05 2018

# Not Valid After : Fri Jul 31 07:24:05 2043

# Fingerprint (SHA-256):

8A:71:DE:65:59:33:6F:42:6C:26:E5:38:80:D0:0D:88:A1:8D:A4:C6:A9:1F:0D:CB:61:94:E2:06:C5:C9:63:87

# Fingerprint (SHA1): 84:1A:69:FB:F5:CD:1A:25:34:13:3D:E3:F8:FC:B8:99:D0:C9:14:B7

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_CERTIFICATE

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "vTrus Root CA"

CKA\_CERTIFICATE\_TYPE CK\_CERTIFICATE\_TYPE CKC\_X\_509

CKA\_SUBJECT MULTILINE\_OCTAL

```
\060\103\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\034\060\032\006\003\125\004\012\023\023\151\124\162\165\163\103
\150\151\156\141\040\103\157\056\054\114\164\144\056\061\026\060
\024\006\003\125\004\003\023\015\166\124\162\165\163\040\122\157
\157\164\040\103\101
```

END

CKA\_ID UTF8 "0"

CKA\_ISSUER MULTILINE\_OCTAL

```
\060\103\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\034\060\032\006\003\125\004\012\023\023\151\124\162\165\163\103
\150\151\156\141\040\103\157\056\054\114\164\144\056\061\026\060
\024\006\003\125\004\003\023\015\166\124\162\165\163\040\122\157
\157\164\040\103\101
```

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

\002\024\103\343\161\023\330\263\131\024\135\267\316\214\375\065  
\375\157\274\005\215\105

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\005\126\060\202\003\076\240\003\002\001\002\002\024\103  
\343\161\023\330\263\131\024\135\267\316\214\375\065\375\157\274  
\005\215\105\060\015\006\011\052\206\110\206\367\015\001\001\013  
\005\000\060\103\061\013\060\011\006\003\125\004\006\023\002\103  
\116\061\034\060\032\006\003\125\004\012\023\023\151\124\162\165  
\163\103\150\151\156\141\040\103\157\056\054\114\164\144\056\061  
\026\060\024\006\003\125\004\003\023\015\166\124\162\165\163\040  
\122\157\157\164\040\103\101\060\036\027\015\061\070\060\067\063  
\061\060\067\062\064\060\065\132\027\015\064\063\060\067\063\061  
\060\067\062\064\060\065\132\060\103\061\013\060\011\006\003\125  
\004\006\023\002\103\116\061\034\060\032\006\003\125\004\012\023  
\023\151\124\162\165\163\103\150\151\156\141\040\103\157\056\054  
\114\164\144\056\061\026\060\024\006\003\125\004\003\023\015\166  
\124\162\165\163\040\122\157\157\164\040\103\101\060\202\002\042  
\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003  
\202\002\017\000\060\202\002\012\002\202\002\001\000\275\125\174  
\141\323\270\035\004\142\005\240\256\154\267\160\264\101\352\113  
\003\136\020\077\220\132\034\213\073\260\146\213\154\110\246\034  
\042\272\325\100\222\356\063\262\043\131\311\216\274\130\332\213  
\236\320\031\362\057\131\306\214\143\132\272\237\243\013\260\263  
\232\134\272\021\270\022\351\014\273\317\156\154\200\207\051\024  
\003\054\215\044\232\310\144\203\265\152\254\023\054\063\361\237  
\334\054\141\074\032\077\160\125\233\255\000\122\177\317\004\271  
\376\066\372\234\300\026\256\142\376\226\114\103\176\125\024\276  
\032\263\322\155\302\257\166\146\225\153\052\260\224\167\205\136  
\004\017\142\035\143\165\367\153\347\313\133\232\160\354\076\147  
\005\360\376\007\010\200\317\050\333\005\306\024\047\057\206\175  
\360\047\336\377\346\176\063\110\347\013\036\130\321\047\053\123  
\016\127\112\145\327\373\242\200\140\374\114\274\065\123\001\152  
\227\162\202\257\361\035\160\350\234\365\357\136\302\154\307\107  
\176\132\224\205\046\115\073\272\353\114\350\260\011\302\145\302  
\235\235\011\233\116\265\227\005\254\365\006\240\367\066\005\176  
\364\220\262\153\304\264\371\144\352\351\032\012\310\015\250\355  
\047\311\324\347\263\271\253\202\042\220\047\075\052\350\174\220  
\357\274\117\375\342\012\044\247\336\145\044\244\135\352\300\166  
\060\323\167\120\370\015\004\233\224\066\001\163\312\006\130\246  
\323\073\334\372\004\106\023\125\212\311\104\107\270\121\071\032  
\056\350\064\342\171\313\131\112\012\177\274\246\357\037\003\147  
\152\131\053\045\142\223\331\123\031\146\074\047\142\051\206\115  
\244\153\356\377\324\116\272\325\264\342\216\110\132\000\031\011  
\361\005\331\316\221\261\367\353\351\071\117\366\157\004\103\232  
\125\365\076\005\024\275\277\263\131\264\330\216\063\204\243\220  
\122\252\263\002\225\140\371\014\114\150\371\356\325\027\015\370  
\161\127\265\045\344\051\356\145\135\257\321\356\074\027\013\132

\103\305\245\206\352\044\236\342\005\007\334\064\102\022\221\326  
\071\164\256\114\101\202\333\362\246\110\321\263\233\363\063\252  
\363\246\300\305\116\365\364\235\166\143\346\002\306\042\113\301  
\225\077\120\144\054\124\345\266\360\074\051\317\127\002\003\001  
\000\001\243\102\060\100\060\035\006\003\125\035\016\004\026\004  
\024\124\142\160\143\361\165\204\103\130\216\321\026\040\261\306  
\254\032\274\366\211\060\017\006\003\125\035\023\001\001\377\004  
\005\060\003\001\001\377\060\016\006\003\125\035\017\001\001\377  
\004\004\003\002\001\006\060\015\006\011\052\206\110\206\367\015  
\001\001\013\005\000\003\202\002\001\000\051\272\222\111\247\255  
\360\361\160\303\344\227\360\237\251\045\325\153\236\064\376\346  
\032\144\366\072\153\122\262\020\170\032\237\114\332\212\332\354  
\034\067\122\340\102\113\373\154\166\312\044\013\071\022\025\235  
\237\021\055\374\171\144\334\340\340\365\335\340\127\311\245\262  
\166\160\120\244\376\267\012\160\325\240\064\361\165\327\115\111  
\272\021\321\263\330\354\202\377\353\016\304\277\144\055\175\143  
\156\027\170\354\135\174\210\310\353\216\127\166\331\131\004\372  
\274\122\037\105\254\360\172\200\354\354\157\166\256\221\333\020  
\216\004\334\222\337\240\366\346\256\111\323\301\154\022\033\314  
\051\252\371\010\245\342\067\024\312\261\270\146\357\032\202\344  
\360\370\361\247\026\151\267\333\251\141\074\237\365\061\313\344  
\000\106\302\057\164\261\261\327\201\356\250\046\225\274\210\257  
\114\065\007\052\002\312\170\024\155\107\053\100\126\351\313\052  
\140\241\147\003\240\316\214\274\260\162\147\304\061\316\333\064  
\345\045\003\140\045\173\161\230\344\300\033\053\137\164\102\322  
\113\305\131\010\007\207\276\305\303\177\347\226\331\341\334\050  
\227\326\217\005\343\365\233\116\312\035\120\107\005\123\260\312  
\071\347\205\240\211\301\005\073\001\067\323\077\111\342\167\353  
\043\310\210\146\073\075\071\166\041\106\361\354\137\043\270\353  
\242\146\165\164\301\100\367\330\150\232\223\342\055\251\056\275  
\034\243\036\310\164\306\244\055\172\040\253\073\270\260\106\375  
\157\335\137\122\125\165\142\360\227\240\174\327\070\375\045\337  
\315\240\233\020\317\213\270\070\136\136\305\264\246\002\066\241  
\036\137\034\317\342\226\235\051\252\375\230\256\122\341\363\101  
\122\373\251\056\162\226\237\047\343\252\163\175\370\032\043\146  
\173\073\253\145\260\062\001\113\025\076\075\242\117\014\053\065  
\242\306\331\147\022\065\060\315\166\056\026\263\231\236\115\117  
\116\055\073\064\103\341\232\016\015\244\146\227\272\322\034\112  
\114\054\052\213\213\201\117\161\032\251\335\134\173\173\010\305  
\000\015\067\100\343\174\173\124\137\057\205\137\166\366\367\247  
\260\034\127\126\301\162\350\255\242\257\215\063\111\272\037\212  
\334\346\164\174\140\206\157\207\227\173

END

CKA\_NSS\_MOZILLA\_CA\_POLICY CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRUST\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRUST\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "vTrus Root CA"

```

Issuer: CN=vTrus Root CA,O="iTrusChina Co.,Ltd.",C=CN
Serial Number:43:e3:71:13:d8:b3:59:14:5d:b7:ce:8c:fd:35:fd:6f:bc:05:8d:45
Subject: CN=vTrus Root CA,O="iTrusChina Co.,Ltd.",C=CN
Not Valid Before: Tue Jul 31 07:24:05 2018
Not Valid After : Fri Jul 31 07:24:05 2043
Fingerprint (SHA-256):
8A:71:DE:65:59:33:6F:42:6C:26:E5:38:80:D0:0D:88:A1:8D:A4:C6:A9:1F:0D:CB:61:94:E2:06:C5:C9:63:87
Fingerprint (SHA1): 84:1A:69:FB:F5:CD:1A:25:34:13:3D:E3:F8:FC:B8:99:D0:C9:14:B7
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "vTrus Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\204\032\151\373\365\315\032\045\064\023\075\343\370\374\270\231
\320\311\024\267
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\270\311\067\337\372\153\061\204\144\305\352\021\152\033\165\374
END
CKA_ISSUER MULTILINE_OCTAL
\060\103\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\034\060\032\006\003\125\004\012\023\023\151\124\162\165\163\103
\150\151\156\141\040\103\157\056\054\114\164\144\056\061\026\060
\024\006\003\125\004\003\023\015\166\124\162\165\163\040\122\157
\157\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\103\343\161\023\330\263\131\024\135\267\316\214\375\065
\375\157\274\005\215\105
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "ISRG Root X2"
#
Issuer: CN=ISRG Root X2,O=Internet Security Research Group,C=US
Serial Number:41:d2:9d:d1:72:ea:ee:a7:80:c1:2c:6c:e9:2f:87:52
Subject: CN=ISRG Root X2,O=Internet Security Research Group,C=US
Not Valid Before: Fri Sep 04 00:00:00 2020
Not Valid After : Mon Sep 17 16:00:00 2040
Fingerprint (SHA-256):
69:72:9B:8E:15:A8:6E:FC:17:7A:57:AF:B7:17:1D:FC:64:AD:D2:8C:2F:CA:8C:F1:50:7E:34:45:3C:CB:14:70
Fingerprint (SHA1): BD:B1:B9:3C:D5:97:8D:45:C6:26:14:55:F8:DB:95:C7:5A:D1:53:AF
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

```

```
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ISRG Root X2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\117\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\051\060\047\006\003\125\004\012\023\040\111\156\164\145\162\156
\145\164\040\123\145\143\165\162\151\164\171\040\122\145\163\145
\141\162\143\150\040\107\162\157\165\160\061\025\060\023\006\003
\125\004\003\023\014\111\123\122\107\040\122\157\157\164\040\130
\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\117\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\051\060\047\006\003\125\004\012\023\040\111\156\164\145\162\156
\145\164\040\123\145\143\165\162\151\164\171\040\122\145\163\145
\141\162\143\150\040\107\162\157\165\160\061\025\060\023\006\003
\125\004\003\023\014\111\123\122\107\040\122\157\157\164\040\130
\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\101\322\235\321\162\352\356\247\200\301\054\154\351\057
\207\122
END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\033\060\202\001\241\240\003\002\001\002\002\020\101
\322\235\321\162\352\356\247\200\301\054\154\351\057\207\122\060
\012\006\010\052\206\110\316\075\004\003\003\060\117\061\013\060
\011\006\003\125\004\006\023\002\125\123\061\051\060\047\006\003
\125\004\012\023\040\111\156\164\145\162\156\145\164\040\123\145
\143\165\162\151\164\171\040\122\145\163\145\141\162\143\150\040
\107\162\157\165\160\061\025\060\023\006\003\125\004\003\023\014
\111\123\122\107\040\122\157\157\164\040\130\062\060\036\027\015
\062\060\060\071\060\064\060\060\060\060\060\132\027\015\064
\060\060\071\061\067\061\066\060\060\060\060\132\060\117\061\013
\060\011\006\003\125\004\006\023\002\125\123\061\051\060\047\006
\003\125\004\012\023\040\111\156\164\145\162\156\145\164\040\123
\145\143\165\162\151\164\171\040\122\145\163\145\141\162\143\150
\040\107\162\157\165\160\061\025\060\023\006\003\125\004\003\023
\014\111\123\122\107\040\122\157\157\164\040\130\062\060\166\060
\020\006\007\052\206\110\316\075\002\001\006\005\053\201\004\000
\042\003\142\000\004\315\233\325\237\200\203\012\354\011\112\363
\026\112\076\134\317\167\254\336\147\005\015\035\007\266\334\026
\373\132\213\024\333\342\161\140\304\272\105\225\021\211\216\352
\006\337\367\052\026\034\244\271\305\305\062\340\003\340\036\202
\030\070\213\327\105\330\012\152\156\346\000\167\373\002\121\175
```

```
\042\330\012\156\232\133\167\337\360\372\101\354\071\334\165\312
\150\007\014\037\352\243\102\060\100\060\016\006\003\125\035\017
\001\001\377\004\004\003\002\001\006\060\017\006\003\125\035\023
\001\001\377\004\005\060\003\001\001\377\060\035\006\003\125\035
\016\004\026\004\024\174\102\226\256\336\113\110\073\372\222\370
\236\214\317\155\213\251\162\067\225\060\012\006\010\052\206\110
\316\075\004\003\003\003\150\000\060\145\002\060\173\171\116\106
\120\204\302\104\207\106\033\105\160\377\130\231\336\364\375\244
\322\125\246\040\055\164\326\064\274\101\243\120\137\001\047\126
\264\276\047\165\006\257\022\056\165\230\215\374\002\061\000\213
\365\167\154\324\310\145\252\340\013\054\356\024\235\047\067\244
\371\123\245\121\344\051\203\327\370\220\061\133\102\237\012\365
\376\256\000\150\347\214\111\017\266\157\133\133\025\362\347
```

END

```
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRICT_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRICT_AFTER CK_BBOOL CK_FALSE
```

```
Trust for "ISRG Root X2"
```

```
Issuer: CN=ISRG Root X2,O=Internet Security Research Group,C=US
```

```
Serial Number:41:d2:9d:d1:72:ea:ee:a7:80:c1:2c:6c:e9:2f:87:52
```

```
Subject: CN=ISRG Root X2,O=Internet Security Research Group,C=US
```

```
Not Valid Before: Fri Sep 04 00:00:00 2020
```

```
Not Valid After : Mon Sep 17 16:00:00 2040
```

```
Fingerprint (SHA-256):
```

```
69:72:9B:8E:15:A8:6E:FC:17:7A:57:AF:B7:17:1D:FC:64:AD:D2:8C:2F:CA:8C:F1:50:7E:34:45:3C:CB:14:70
```

```
Fingerprint (SHA1): BD:B1:B9:3C:D5:97:8D:45:C6:26:14:55:F8:DB:95:C7:5A:D1:53:AF
```

```
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
```

```
CKA_TOKEN CK_BBOOL CK_TRUE
```

```
CKA_PRIVATE CK_BBOOL CK_FALSE
```

```
CKA_MODIFIABLE CK_BBOOL CK_FALSE
```

```
CKA_LABEL UTF8 "ISRG Root X2"
```

```
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
```

```
\275\261\271\074\325\227\215\105\306\046\024\125\370\333\225\307
\132\321\123\257
```

END

```
CKA_CERT_MD5_HASH MULTILINE_OCTAL
```

```
\323\236\304\036\043\074\246\337\317\243\176\155\340\024\346\345
```

END

```
CKA_ISSUER MULTILINE_OCTAL
```

```
\060\117\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\051\060\047\006\003\125\004\012\023\040\111\156\164\145\162\156
\145\164\040\123\145\143\165\162\151\164\171\040\122\145\163\145
\141\162\143\150\040\107\162\157\165\160\061\025\060\023\006\003
\125\004\003\023\014\111\123\122\107\040\122\157\157\164\040\130
\062
```

END

```
CKA_SERIAL_NUMBER MULTILINE_OCTAL
```



```

\002\020\101\322\235\321\162\352\356\247\200\301\054\154\351\057
\207\122
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "HiPKI Root CA - G1"
#
Issuer: CN=HiPKI Root CA - G1,O="Chunghwa Telecom Co., Ltd.",C=TW
Serial Number:2d:dd:ac:ce:62:97:94:a1:43:e8:b0:cd:76:6a:5e:60
Subject: CN=HiPKI Root CA - G1,O="Chunghwa Telecom Co., Ltd.",C=TW
Not Valid Before: Fri Feb 22 09:46:04 2019
Not Valid After : Thu Dec 31 15:59:59 2037
Fingerprint (SHA-256):
F0:15:CE:3C:C2:39:BF:EF:06:4B:E9:F1:D2:C4:17:E1:A0:26:4A:0A:94:BE:1F:0C:8D:12:18:64:EB:69:49:CC
Fingerprint (SHA1): 6A:92:E4:A8:EE:1B:EC:96:45:37:E3:29:57:49:CD:96:E3:E5:D2:60
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "HiPKI Root CA - G1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\117\061\013\060\011\006\003\125\004\006\023\002\124\127\061
\043\060\041\006\003\125\004\012\014\032\103\150\165\156\147\150
\167\141\040\124\145\154\145\143\157\155\040\103\157\056\054\040
\114\164\144\056\061\033\060\031\006\003\125\004\003\014\022\110
\151\120\113\111\040\122\157\157\164\040\103\101\040\055\040\107
\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\117\061\013\060\011\006\003\125\004\006\023\002\124\127\061
\043\060\041\006\003\125\004\012\014\032\103\150\165\156\147\150
\167\141\040\124\145\154\145\143\157\155\040\103\157\056\054\040
\114\164\144\056\061\033\060\031\006\003\125\004\003\014\022\110
\151\120\113\111\040\122\157\157\164\040\103\101\040\055\040\107
\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\055\335\254\316\142\227\224\241\103\350\260\315\166\152
\136\140
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\152\060\202\003\122\240\003\002\001\002\002\020\055

```

\335\254\316\142\227\224\241\103\350\260\315\166\152\136\140\060  
\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060\117  
\061\013\060\011\006\003\125\004\006\023\002\124\127\061\043\060  
\041\006\003\125\004\012\014\032\103\150\165\156\147\150\167\141  
\040\124\145\154\145\143\157\155\040\103\157\056\054\040\114\164  
\144\056\061\033\060\031\006\003\125\004\003\014\022\110\151\120  
\113\111\040\122\157\157\164\040\103\101\040\055\040\107\061\060  
\036\027\015\061\071\060\062\062\062\060\071\064\066\060\064\132  
\027\015\063\067\061\062\063\061\061\065\065\071\065\071\132\060  
\117\061\013\060\011\006\003\125\004\006\023\002\124\127\061\043  
\060\041\006\003\125\004\012\014\032\103\150\165\156\147\150\167  
\141\040\124\145\154\145\143\157\155\040\103\157\056\054\040\114  
\164\144\056\061\033\060\031\006\003\125\004\003\014\022\110\151  
\120\113\111\040\122\157\157\164\040\103\101\040\055\040\107\061  
\060\202\002\042\060\015\006\011\052\206\110\206\367\015\001\001  
\001\005\000\003\202\002\017\000\060\202\002\012\002\202\002\001  
\000\364\036\177\122\163\062\014\163\344\275\023\164\243\324\060  
\250\320\256\113\330\266\337\165\107\146\364\174\347\071\004\036  
\152\160\040\322\132\107\162\147\125\364\245\350\235\325\036\041  
\241\360\147\272\314\041\150\276\104\123\277\215\371\342\334\057  
\125\310\067\077\037\244\300\234\263\344\167\134\240\106\376\167  
\372\032\240\070\352\355\232\162\336\053\275\224\127\072\272\354  
\171\347\137\175\102\144\071\172\046\066\367\044\360\325\057\272  
\225\230\021\146\255\227\065\326\165\001\200\340\257\364\204\141  
\214\015\036\137\174\207\226\136\101\257\353\207\352\370\135\361  
\056\210\005\076\114\042\273\332\037\052\335\122\106\144\071\363  
\102\316\331\236\014\263\260\167\227\144\234\300\364\243\056\037  
\225\007\260\027\337\060\333\000\030\226\114\241\201\113\335\004  
\155\123\243\075\374\007\254\324\305\067\202\353\344\225\010\031  
\050\202\322\102\072\243\330\123\354\171\211\140\110\140\310\162  
\222\120\334\003\217\203\077\262\102\127\132\333\152\351\021\227  
\335\205\050\274\060\114\253\343\302\261\105\104\107\037\340\212  
\026\007\226\322\041\017\123\300\355\251\176\324\116\354\233\011  
\354\257\102\254\060\326\277\321\020\105\340\246\026\262\245\305  
\323\117\163\224\063\161\002\241\152\243\326\063\227\117\041\143  
\036\133\217\331\301\136\105\161\167\017\201\135\137\041\232\255  
\203\314\372\136\326\215\043\137\033\075\101\257\040\165\146\132  
\112\366\237\373\253\030\367\161\300\266\035\061\354\073\040\353  
\313\342\270\365\256\222\262\367\341\204\113\362\242\362\223\232  
\042\236\323\024\157\066\124\275\037\136\131\025\271\163\250\301  
\174\157\173\142\351\026\154\107\132\145\363\016\021\233\106\331  
\375\155\334\326\234\300\264\175\245\260\335\077\126\157\241\371  
\366\344\022\110\375\006\177\022\127\266\251\043\117\133\003\303  
\340\161\052\043\267\367\260\261\073\274\230\275\326\230\250\014  
\153\366\216\022\147\246\362\262\130\344\002\011\023\074\251\273  
\020\264\322\060\105\361\354\367\000\021\337\145\370\334\053\103  
\125\277\026\227\304\017\325\054\141\204\252\162\206\376\346\072  
\176\302\077\175\356\374\057\024\076\346\205\335\120\157\267\111

\355\002\003\001\000\001\243\102\060\100\060\017\006\003\125\035  
\023\001\001\377\004\005\060\003\001\001\377\060\035\006\003\125  
\035\016\004\026\004\024\362\167\027\372\136\250\376\366\075\161  
\325\150\272\311\106\014\070\330\257\260\060\016\006\003\125\035  
\017\001\001\377\004\004\003\002\001\206\060\015\006\011\052\206  
\110\206\367\015\001\001\013\005\000\003\202\002\001\000\120\121  
\360\165\334\160\004\343\377\252\165\324\161\242\313\236\217\250  
\251\323\257\165\307\124\317\072\034\004\231\042\254\304\021\342  
\357\063\112\246\043\035\016\015\107\330\067\307\157\257\064\177  
\117\201\153\065\117\351\162\245\061\342\170\347\367\116\224\030  
\133\100\175\317\153\041\124\206\346\225\172\373\306\312\352\234  
\110\116\127\011\135\057\254\364\245\264\227\063\130\325\254\171  
\251\314\137\371\205\372\122\305\215\370\221\024\353\072\015\027  
\320\122\302\173\343\302\163\216\106\170\006\070\054\350\134\332  
\146\304\364\244\360\126\031\063\051\132\145\222\005\107\106\112  
\253\204\303\036\047\241\037\021\222\231\047\165\223\017\274\066  
\073\227\127\217\046\133\014\273\234\017\324\156\060\007\324\334  
\137\066\150\146\071\203\226\047\046\212\310\304\071\376\232\041  
\157\325\162\206\351\177\142\345\227\116\320\044\320\100\260\320  
\165\010\216\275\150\356\010\327\156\174\020\160\106\033\174\340  
\210\262\236\162\206\231\001\343\277\237\111\031\264\045\276\126  
\145\256\027\143\345\036\337\350\377\107\245\277\341\046\005\204  
\344\260\300\257\347\010\231\250\014\136\046\200\105\324\370\150  
\057\226\217\256\342\112\034\234\026\014\023\157\070\207\366\273  
\310\064\137\222\003\121\171\160\246\337\313\365\231\115\171\315  
\116\274\127\237\103\116\153\056\053\030\370\152\163\214\272\305  
\065\357\071\152\101\036\317\161\250\242\262\206\007\133\072\311  
\341\357\077\145\004\200\107\062\104\160\225\116\061\147\152\164  
\133\020\105\165\352\260\237\320\346\065\376\116\237\213\314\053  
\222\105\133\156\045\140\205\106\315\321\252\260\166\146\223\167  
\226\276\203\276\070\266\044\116\046\013\314\355\172\126\032\340  
\351\132\306\144\255\114\172\000\110\104\057\271\100\273\023\076  
\276\025\170\235\205\201\112\052\127\336\325\031\103\332\333\312  
\133\107\206\203\013\077\266\015\166\170\163\171\042\136\261\200  
\037\317\276\321\077\126\020\230\053\225\207\241\037\235\144\024  
\140\071\054\263\000\125\056\344\365\263\016\127\304\221\101\000  
\234\077\350\245\337\352\366\377\310\360\255\155\122\250\027\253  
\233\141\374\022\121\065\344\045\375\257\252\152\206\071

END

CKA\_NSS\_MOZILLA\_CA\_POLICY CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRUST\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRUST\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "HiPKI Root CA - G1"

# Issuer: CN=HiPKI Root CA - G1,O="Chunghwa Telecom Co., Ltd.",C=TW

# Serial Number:2d:dd:ac:ce:62:97:94:a1:43:e8:b0:cd:76:6a:5e:60

# Subject: CN=HiPKI Root CA - G1,O="Chunghwa Telecom Co., Ltd.",C=TW

# Not Valid Before: Fri Feb 22 09:46:04 2019

```
Not Valid After : Thu Dec 31 15:59:59 2037
Fingerprint (SHA-256):
F0:15:CE:3C:C2:39:BF:EF:06:4B:E9:F1:D2:C4:17:E1:A0:26:4A:0A:94:BE:1F:0C:8D:12:18:64:EB:69:49:CC
Fingerprint (SHA1): 6A:92:E4:A8:EE:1B:EC:96:45:37:E3:29:57:49:CD:96:E3:E5:D2:60
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "HiPKI Root CA - G1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\152\222\344\250\356\033\354\226\105\067\343\051\127\111\315\226
\343\345\322\140
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\151\105\337\026\145\113\350\150\232\217\166\137\377\200\236\323
END
CKA_ISSUER MULTILINE_OCTAL
\060\117\061\013\060\011\006\003\125\004\006\023\002\124\127\061
\043\060\041\006\003\125\004\012\014\032\103\150\165\156\147\150
\167\141\040\124\145\154\145\143\157\155\040\103\157\056\054\040
\114\164\144\056\061\033\060\031\006\003\125\004\003\014\022\110
\151\120\113\111\040\122\157\157\164\040\103\101\040\055\040\107
\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\055\335\254\316\142\227\224\241\103\350\260\315\166\152
\136\140
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
```

```
#
Certificate "GlobalSign ECC Root CA - R4"
#
Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R4
Serial Number:02:03:e5:7e:f5:3f:93:fd:a5:09:21:b2:a6
Subject: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R4
Not Valid Before: Tue Nov 13 00:00:00 2012
Not Valid After : Tue Jan 19 03:14:07 2038
Fingerprint (SHA-256):
B0:85:D7:0B:96:4F:19:1A:73:E4:AF:0D:54:AE:7A:0E:07:AA:FD:AF:9B:71:DD:08:62:13:8A:B7:32:5A:24:A2
Fingerprint (SHA1): 6B:A0:B0:98:E1:71:EF:5A:AD:FE:48:15:80:77:10:F4:BD:6F:0B:28
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
```

```
CKA_LABEL UTF8 "GlobalSign ECC Root CA - R4"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\120\061\044\060\042\006\003\125\004\013\023\033\107\154\157
\142\141\154\123\151\147\156\040\105\103\103\040\122\157\157\164
\040\103\101\040\055\040\122\064\061\023\060\021\006\003\125\004
\012\023\012\107\154\157\142\141\154\123\151\147\156\061\023\060
\021\006\003\125\004\003\023\012\107\154\157\142\141\154\123\151
\147\156
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\120\061\044\060\042\006\003\125\004\013\023\033\107\154\157
\142\141\154\123\151\147\156\040\105\103\103\040\122\157\157\164
\040\103\101\040\055\040\122\064\061\023\060\021\006\003\125\004
\012\023\012\107\154\157\142\141\154\123\151\147\156\061\023\060
\021\006\003\125\004\003\023\012\107\154\157\142\141\154\123\151
\147\156
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\015\002\003\345\176\365\077\223\375\245\011\041\262\246
END
CKA_VALUE MULTILINE_OCTAL
\060\202\001\334\060\202\001\203\240\003\002\001\002\002\015\002
\003\345\176\365\077\223\375\245\011\041\262\246\060\012\006\010
\052\206\110\316\075\004\003\002\060\120\061\044\060\042\006\003
\125\004\013\023\033\107\154\157\142\141\154\123\151\147\156\040
\105\103\103\040\122\157\157\164\040\103\101\040\055\040\122\064
\061\023\060\021\006\003\125\004\012\023\012\107\154\157\142\141
\154\123\151\147\156\061\023\060\021\006\003\125\004\003\023\012
\107\154\157\142\141\154\123\151\147\156\060\036\027\015\061\062
\061\061\061\063\060\060\060\060\060\060\132\027\015\063\070\060
\061\061\071\060\063\061\064\060\067\132\060\120\061\044\060\042
\006\003\125\004\013\023\033\107\154\157\142\141\154\123\151\147
\156\040\105\103\103\040\122\157\157\164\040\103\101\040\055\040
\122\064\061\023\060\021\006\003\125\004\012\023\012\107\154\157
\142\141\154\123\151\147\156\061\023\060\021\006\003\125\004\003
\023\012\107\154\157\142\141\154\123\151\147\156\060\131\060\023
\006\007\052\206\110\316\075\002\001\006\010\052\206\110\316\075
\003\001\007\003\102\000\004\270\306\171\323\217\154\045\016\237
\056\071\031\034\003\244\256\232\345\071\007\011\026\312\143\261
\271\206\370\212\127\301\127\316\102\372\163\241\367\145\102\377
\036\301\000\262\156\163\016\377\307\041\345\030\244\252\331\161
\077\250\324\271\316\214\035\243\102\060\100\060\016\006\003\125
\035\017\001\001\377\004\004\003\002\001\206\060\017\006\003\125
\035\023\001\001\377\004\005\060\003\001\001\377\060\035\006\003
\125\035\016\004\026\004\024\124\260\173\255\105\270\342\100\177
\373\012\156\373\276\063\311\074\243\204\325\060\012\006\010\052
```

```
\206\110\316\075\004\003\002\003\107\000\060\104\002\040\042\117
\164\162\271\140\257\361\346\234\240\026\005\120\137\303\136\073
\156\141\164\357\276\001\304\276\030\110\131\141\202\062\002\040
\046\235\124\143\100\336\067\140\120\317\310\330\355\235\202\256
\067\230\274\243\217\114\114\251\064\053\154\357\373\225\233\046
END
```

```
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRICT_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRICT_AFTER CK_BBOOL CK_FALSE
```

```
Trust for "GlobalSign ECC Root CA - R4"
```

```
Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R4
```

```
Serial Number:02:03:e5:7e:f5:3f:93:fd:a5:09:21:b2:a6
```

```
Subject: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R4
```

```
Not Valid Before: Tue Nov 13 00:00:00 2012
```

```
Not Valid After : Tue Jan 19 03:14:07 2038
```

```
Fingerprint (SHA-256):
```

```
B0:85:D7:0B:96:4F:19:1A:73:E4:AF:0D:54:AE:7A:0E:07:AA:FD:AF:9B:71:DD:08:62:13:8A:B7:32:5A:24:A2
```

```
Fingerprint (SHA1): 6B:A0:B0:98:E1:71:EF:5A:AD:FE:48:15:80:77:10:F4:BD:6F:0B:28
```

```
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
```

```
CKA_TOKEN CK_BBOOL CK_TRUE
```

```
CKA_PRIVATE CK_BBOOL CK_FALSE
```

```
CKA_MODIFIABLE CK_BBOOL CK_FALSE
```

```
CKA_LABEL UTF8 "GlobalSign ECC Root CA - R4"
```

```
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
```

```
\153\240\260\230\341\161\357\132\255\376\110\025\200\167\020\364
\275\157\013\050
```

```
END
```

```
CKA_CERT_MD5_HASH MULTILINE_OCTAL
```

```
\046\051\370\155\341\210\277\242\145\177\252\304\315\017\177\374
```

```
END
```

```
CKA_ISSUER MULTILINE_OCTAL
```

```
\060\120\061\044\060\042\006\003\125\004\013\023\033\107\154\157
\142\141\154\123\151\147\156\040\105\103\103\040\122\157\157\164
\040\103\101\040\055\040\122\064\061\023\060\021\006\003\125\004
\012\023\012\107\154\157\142\141\154\123\151\147\156\061\023\060
\021\006\003\125\004\003\023\012\107\154\157\142\141\154\123\151
\147\156
```

```
END
```

```
CKA_SERIAL_NUMBER MULTILINE_OCTAL
```

```
\002\015\002\003\345\176\365\077\223\375\245\011\041\262\246
```

```
END
```

```
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
```

```
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
```

```
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
```

```
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
```

```
#
```

```
Certificate "GTS Root R1"
#
Issuer: CN=GTS Root R1,O=Google Trust Services LLC,C=US
Serial Number:02:03:e5:93:6f:31:b0:13:49:88:6b:a2:17
Subject: CN=GTS Root R1,O=Google Trust Services LLC,C=US
Not Valid Before: Wed Jun 22 00:00:00 2016
Not Valid After : Sun Jun 22 00:00:00 2036
Fingerprint (SHA-256):
D9:47:43:2A:BD:E7:B7:FA:90:FC:2E:6B:59:10:1B:12:80:E0:E1:C7:E4:E4:0F:A3:C6:88:7F:FF:57:A7:F4:CF
Fingerprint (SHA1): E5:8C:1C:C4:91:3B:38:63:4B:E9:10:6E:E3:AD:8E:6B:9D:D9:81:4A
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GTS Root R1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\107\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\042\060\040\006\003\125\004\012\023\031\107\157\157\147\154\145
\040\124\162\165\163\164\040\123\145\162\166\151\143\145\163\040
\114\114\103\061\024\060\022\006\003\125\004\003\023\013\107\124
\123\040\122\157\157\164\040\122\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\107\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\042\060\040\006\003\125\004\012\023\031\107\157\157\147\154\145
\040\124\162\165\163\164\040\123\145\162\166\151\143\145\163\040
\114\114\103\061\024\060\022\006\003\125\004\003\023\013\107\124
\123\040\122\157\157\164\040\122\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\015\002\003\345\223\157\061\260\023\111\210\153\242\027
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\127\060\202\003\077\240\003\002\001\002\002\015\002
\003\345\223\157\061\260\023\111\210\153\242\027\060\015\006\011
\052\206\110\206\367\015\001\001\014\005\000\060\107\061\013\060
\011\006\003\125\004\006\023\002\125\123\061\042\060\040\006\003
\125\004\012\023\031\107\157\157\147\154\145\040\124\162\165\163
\164\040\123\145\162\166\151\143\145\163\040\114\114\103\061\024
\060\022\006\003\125\004\003\023\013\107\124\123\040\122\157\157
\164\040\122\061\060\036\027\015\061\066\060\066\062\062\060\060
\060\060\060\060\132\027\015\063\066\060\066\062\062\060\060\060
\060\060\060\132\060\107\061\013\060\011\006\003\125\004\006\023
\002\125\123\061\042\060\040\006\003\125\004\012\023\031\107\157
\157\147\154\145\040\124\162\165\163\164\040\123\145\162\166\151
\143\145\163\040\114\114\103\061\024\060\022\006\003\125\004\003
```

\023\013\107\124\123\040\122\157\157\164\040\122\061\060\202\002  
\042\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000  
\003\202\002\017\000\060\202\002\012\002\202\002\001\000\266\021  
\002\213\036\343\241\167\233\073\334\277\224\076\267\225\247\100  
\074\241\375\202\371\175\062\006\202\161\366\366\214\177\373\350  
\333\274\152\056\227\227\243\214\113\371\053\366\261\371\316\204  
\035\261\371\305\227\336\357\271\362\243\351\274\022\211\136\247  
\252\122\253\370\043\047\313\244\261\234\143\333\327\231\176\360  
\012\136\353\150\246\364\306\132\107\015\115\020\063\343\116\261  
\023\243\310\030\154\113\354\374\011\220\337\235\144\051\045\043  
\007\241\264\322\075\056\140\340\317\322\011\207\273\315\110\360  
\115\302\302\172\210\212\273\272\317\131\031\326\257\217\260\007  
\260\236\061\361\202\301\300\337\056\246\155\154\031\016\265\330  
\176\046\032\105\003\075\260\171\244\224\050\255\017\177\046\345  
\250\010\376\226\350\074\150\224\123\356\203\072\210\053\025\226  
\011\262\340\172\214\056\165\326\234\353\247\126\144\217\226\117  
\150\256\075\227\302\204\217\300\274\100\300\013\134\275\366\207  
\263\065\154\254\030\120\177\204\340\114\315\222\323\040\351\063  
\274\122\231\257\062\265\051\263\045\052\264\110\371\162\341\312  
\144\367\346\202\020\215\350\235\302\212\210\372\070\146\212\374  
\143\371\001\371\170\375\173\134\167\372\166\207\372\354\337\261  
\016\171\225\127\264\275\046\357\326\001\321\353\026\012\273\216  
\013\265\305\305\212\125\253\323\254\352\221\113\051\314\031\244  
\062\045\116\052\361\145\104\320\002\316\252\316\111\264\352\237  
\174\203\260\100\173\347\103\253\247\154\243\217\175\211\201\372  
\114\245\377\325\216\303\316\113\340\265\330\263\216\105\317\166  
\300\355\100\053\375\123\017\260\247\325\073\015\261\212\242\003  
\336\061\255\314\167\352\157\173\076\326\337\221\042\022\346\276  
\372\330\062\374\020\143\024\121\162\336\135\326\026\223\275\051  
\150\063\357\072\146\354\007\212\046\337\023\327\127\145\170\047  
\336\136\111\024\000\242\000\177\232\250\041\266\251\261\225\260  
\245\271\015\026\021\332\307\154\110\074\100\340\176\015\132\315  
\126\074\321\227\005\271\313\113\355\071\113\234\304\077\322\125  
\023\156\044\260\326\161\372\364\301\272\314\355\033\365\376\201  
\101\330\000\230\075\072\310\256\172\230\067\030\005\225\002\003  
\001\000\001\243\102\060\100\060\016\006\003\125\035\017\001\001  
\377\004\004\003\002\001\206\060\017\006\003\125\035\023\001\001  
\377\004\005\060\003\001\001\377\060\035\006\003\125\035\016\004  
\026\004\024\344\257\053\046\161\032\053\110\047\205\057\122\146  
\054\357\360\211\023\161\076\060\015\006\011\052\206\110\206\367  
\015\001\001\014\005\000\003\202\002\001\000\237\252\102\046\333  
\013\233\276\377\036\226\222\056\076\242\145\112\152\230\272\042  
\313\175\301\072\330\202\012\006\306\366\245\336\300\116\207\146  
\171\241\371\246\130\234\252\371\265\346\140\347\340\350\261\036  
\102\101\063\013\067\075\316\211\160\025\312\265\044\250\317\153  
\265\322\100\041\230\317\042\064\317\073\305\042\204\340\305\016  
\212\174\135\210\344\065\044\316\233\076\032\124\036\156\333\262  
\207\247\374\363\372\201\125\024\142\012\131\251\042\005\061\076



\202\326\356\333\127\064\274\063\225\323\027\033\350\047\242\213  
\173\116\046\032\172\132\144\266\321\254\067\361\375\240\363\070  
\354\162\360\021\165\235\313\064\122\215\346\166\153\027\306\337  
\206\253\047\216\111\053\165\146\201\020\041\246\352\076\364\256  
\045\377\174\025\336\316\214\045\077\312\142\160\012\367\057\011  
\146\007\310\077\034\374\360\333\105\060\337\142\210\301\265\017  
\235\303\237\112\336\131\131\107\305\207\042\066\346\202\247\355  
\012\271\342\007\240\215\173\172\112\074\161\322\342\003\241\037  
\062\007\335\033\344\102\316\014\000\105\141\200\265\013\040\131  
\051\170\275\371\125\313\143\305\074\114\364\266\377\333\152\137  
\061\153\231\236\054\301\153\120\244\327\346\030\024\275\205\077  
\147\253\106\237\240\377\102\247\072\177\134\313\135\260\160\035  
\053\064\365\324\166\011\014\353\170\114\131\005\363\063\102\303  
\141\025\020\033\167\115\316\042\214\324\205\362\105\175\267\123  
\352\357\100\132\224\012\134\040\137\116\100\135\142\042\166\337  
\377\316\141\275\214\043\170\322\067\002\340\216\336\321\021\067  
\211\366\277\355\111\007\142\256\222\354\100\032\257\024\011\331  
\320\116\262\242\367\276\356\356\330\377\334\032\055\336\270\066  
\161\342\374\171\267\224\045\321\110\163\133\241\065\347\263\231  
\147\165\301\031\072\053\107\116\323\102\216\375\061\310\026\146  
\332\322\014\074\333\263\216\311\241\015\200\017\173\026\167\024  
\277\377\333\011\224\262\223\274\040\130\025\351\333\161\103\363  
\336\020\303\000\334\250\052\225\266\302\326\077\220\153\166\333  
\154\376\214\274\362\160\065\014\334\231\031\065\334\327\310\106  
\143\325\066\161\256\127\373\267\202\155\334

END

CKA\_NSS\_MOZILLA\_CA\_POLICY CK\_BBOOL CK\_TRUE  
CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE  
CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "GTS Root R1"

# Issuer: CN=GTS Root R1,O=Google Trust Services LLC,C=US

# Serial Number:02:03:e5:93:6f:31:b0:13:49:88:6b:a2:17

# Subject: CN=GTS Root R1,O=Google Trust Services LLC,C=US

# Not Valid Before: Wed Jun 22 00:00:00 2016

# Not Valid After : Sun Jun 22 00:00:00 2036

# Fingerprint (SHA-256):

D9:47:43:2A:BD:E7:B7:FA:90:FC:2E:6B:59:10:1B:12:80:E0:E1:C7:E4:E4:0F:A3:C6:88:7F:FF:57:A7:F4:CF

# Fingerprint (SHA1): E5:8C:1C:C4:91:3B:38:63:4B:E9:10:6E:E3:AD:8E:6B:9D:D9:81:4A

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "GTS Root R1"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

\345\214\034\304\221\073\070\143\113\351\020\156\343\255\216\153  
\235\331\201\112

END

```

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\005\376\320\277\161\250\243\166\143\332\001\340\330\122\334\100
END
CKA_ISSUER MULTILINE_OCTAL
\060\107\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\042\060\040\006\003\125\004\012\023\031\107\157\157\147\154\145
\040\124\162\165\163\164\040\123\145\162\166\151\143\145\163\040
\114\114\103\061\024\060\022\006\003\125\004\003\023\013\107\124
\123\040\122\157\157\164\040\122\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\015\002\003\345\223\157\061\260\023\111\210\153\242\027
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "GTS Root R2"
#
Issuer: CN=GTS Root R2,O=Google Trust Services LLC,C=US
Serial Number:02:03:e5:ae:c5:8d:04:25:1a:ab:11:25:aa
Subject: CN=GTS Root R2,O=Google Trust Services LLC,C=US
Not Valid Before: Wed Jun 22 00:00:00 2016
Not Valid After : Sun Jun 22 00:00:00 2036
Fingerprint (SHA-256):
8D:25:CD:97:22:9D:BF:70:35:6B:DA:4E:B3:CC:73:40:31:E2:4C:F0:0F:AF:CF:D3:2D:C7:6E:B5:84:1C:7E:A8
Fingerprint (SHA1): 9A:44:49:76:32:DB:DE:FA:D0:BC:FB:5A:7B:17:BD:9E:56:09:24:94
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GTS Root R2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\107\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\042\060\040\006\003\125\004\012\023\031\107\157\157\147\154\145
\040\124\162\165\163\164\040\123\145\162\166\151\143\145\163\040
\114\114\103\061\024\060\022\006\003\125\004\003\023\013\107\124
\123\040\122\157\157\164\040\122\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\107\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\042\060\040\006\003\125\004\012\023\031\107\157\157\147\154\145
\040\124\162\165\163\164\040\123\145\162\166\151\143\145\163\040
\114\114\103\061\024\060\022\006\003\125\004\003\023\013\107\124

```

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

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

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

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\005\127\060\202\003\077\240\003\002\001\002\002\015\002  
\003\345\256\305\215\004\045\032\253\021\045\252\060\015\006\011  
\052\206\110\206\367\015\001\001\014\005\000\060\107\061\013\060  
\011\006\003\125\004\006\023\002\125\123\061\042\060\040\006\003  
\125\004\012\023\031\107\157\157\147\154\145\040\124\162\165\163  
\164\040\123\145\162\166\151\143\145\163\040\114\114\103\061\024  
\060\022\006\003\125\004\003\023\013\107\124\123\040\122\157\157  
\164\040\122\062\060\036\027\015\061\066\060\066\062\062\060\060  
\060\060\060\060\132\027\015\063\066\060\066\062\062\060\060\060  
\060\060\060\132\060\107\061\013\060\011\006\003\125\004\006\023  
\002\125\123\061\042\060\040\006\003\125\004\012\023\031\107\157  
\157\147\154\145\040\124\162\165\163\164\040\123\145\162\166\151  
\143\145\163\040\114\114\103\061\024\060\022\006\003\125\004\003  
\023\013\107\124\123\040\122\157\157\164\040\122\062\060\202\002  
\042\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000  
\003\202\002\017\000\060\202\002\012\002\202\002\001\000\316\336  
\375\246\373\354\354\024\064\074\007\006\132\154\131\367\031\065  
\335\367\301\235\125\252\323\315\073\244\223\162\357\012\372\155  
\235\366\360\205\200\133\241\110\122\237\071\305\267\356\050\254  
\357\313\166\150\024\271\337\255\001\154\231\037\304\042\035\237  
\376\162\167\340\054\133\257\344\004\277\117\162\240\032\064\230  
\350\071\150\354\225\045\173\166\241\346\151\271\205\031\275\211  
\214\376\255\355\066\352\163\274\377\203\342\313\175\301\322\316  
\112\263\215\005\236\213\111\223\337\301\133\320\156\136\360\056  
\060\056\202\374\372\274\264\027\012\110\345\210\233\305\233\153  
\336\260\312\264\003\360\332\364\220\270\145\144\367\134\114\255  
\350\176\146\136\231\327\270\302\076\310\320\023\235\255\356\344  
\105\173\211\125\367\212\037\142\122\204\022\263\302\100\227\343  
\212\037\107\221\246\164\132\322\370\261\143\050\020\270\263\011  
\270\126\167\100\242\046\230\171\306\376\337\045\356\076\345\240  
\177\324\141\017\121\113\074\077\214\332\341\160\164\330\302\150  
\241\371\301\014\351\241\342\177\273\125\074\166\006\356\152\116  
\314\222\210\060\115\232\275\117\013\110\232\204\265\230\243\325  
\373\163\301\127\141\335\050\126\165\023\256\207\216\347\014\121  
\011\020\165\210\114\274\215\371\173\074\324\042\110\037\052\334  
\353\153\273\104\261\313\063\161\062\106\257\255\112\361\214\350  
\164\072\254\347\032\042\163\200\322\060\367\045\102\307\042\073  
\073\022\255\226\056\306\303\166\007\252\040\267\065\111\127\351  
\222\111\350\166\026\162\061\147\053\226\176\212\243\307\224\126  
\042\277\152\113\176\001\041\262\043\062\337\344\232\104\155\131  
\133\135\365\000\240\034\233\306\170\227\215\220\377\233\310\252  
\264\257\021\121\071\136\331\373\147\255\325\133\021\235\062\232

\033\275\325\272\133\245\311\313\045\151\123\125\047\134\340\312  
\066\313\210\141\373\036\267\320\313\356\026\373\323\246\114\336  
\222\245\324\342\337\365\006\124\336\056\235\113\264\223\060\252  
\201\316\335\032\334\121\163\015\117\160\351\345\266\026\041\031  
\171\262\346\211\013\165\144\312\325\253\274\011\301\030\241\377  
\324\124\241\205\074\375\024\044\003\262\207\323\244\267\002\003  
\001\000\001\243\102\060\100\060\016\006\003\125\035\017\001\001  
\377\004\004\003\002\001\206\060\017\006\003\125\035\023\001\001  
\377\004\005\060\003\001\001\377\060\035\006\003\125\035\016\004  
\026\004\024\273\377\312\216\043\237\117\231\312\333\342\150\246  
\245\025\047\027\036\331\016\060\015\006\011\052\206\110\206\367  
\015\001\001\014\005\000\003\202\002\001\000\037\312\316\335\307  
\276\241\237\331\047\114\013\334\027\230\021\152\210\336\075\346  
\161\126\162\262\236\032\116\234\325\053\230\044\135\233\153\173  
\260\063\202\011\275\337\045\106\352\230\236\266\033\376\203\074  
\322\142\141\301\004\355\316\340\305\311\310\023\023\125\347\250  
\143\255\214\173\001\376\167\060\341\316\150\233\005\370\022\356  
\171\061\240\101\105\065\050\012\161\244\044\117\214\334\074\202  
\007\137\146\334\175\020\376\014\141\263\005\225\356\341\256\201  
\017\250\370\307\217\115\250\043\002\046\153\035\203\122\125\316  
\265\057\000\312\200\100\340\341\164\254\140\365\207\200\235\256  
\066\144\221\135\260\150\030\352\212\141\311\167\250\227\304\311  
\307\245\374\125\113\363\360\177\271\145\075\047\150\320\314\153  
\372\123\235\341\221\032\311\135\032\226\155\062\207\355\003\040  
\310\002\316\132\276\331\352\375\262\115\304\057\033\337\137\172  
\365\370\213\306\356\061\072\045\121\125\147\215\144\062\173\351  
\236\303\202\272\052\055\351\036\264\340\110\006\242\374\147\257  
\037\042\002\163\373\040\012\257\235\124\113\241\315\377\140\107  
\260\077\135\357\033\126\275\227\041\226\055\012\321\136\235\070  
\002\107\154\271\364\366\043\045\270\240\152\232\053\167\010\372  
\304\261\050\220\046\130\010\074\342\176\252\327\075\157\272\061  
\210\012\005\353\047\265\241\111\356\240\105\124\173\346\047\145  
\231\040\041\250\243\274\373\030\226\273\122\157\014\355\203\121  
\114\351\131\342\040\140\305\302\145\222\202\214\363\020\037\016  
\212\227\276\167\202\155\077\217\035\135\274\111\047\275\314\117  
\017\341\316\166\206\004\043\305\300\214\022\133\375\333\204\240  
\044\361\110\377\144\174\320\276\134\026\321\357\231\255\300\037  
\373\313\256\274\070\042\006\046\144\332\332\227\016\077\050\025  
\104\250\117\000\312\360\232\314\317\164\152\264\076\074\353\225  
\354\265\323\132\330\201\231\351\103\030\067\353\263\273\321\130  
\142\101\363\146\322\217\252\170\225\124\040\303\132\056\164\053  
\325\321\276\030\151\300\254\325\244\317\071\272\121\204\003\145  
\351\142\300\142\376\330\115\125\226\342\320\021\372\110\064\021  
\354\236\355\005\035\344\310\326\035\206\313

END

CKA\_NSS\_MOZILLA\_CA\_POLICY CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

```

Trust for "GTS Root R2"
Issuer: CN=GTS Root R2,O=Google Trust Services LLC,C=US
Serial Number:02:03:e5:ae:c5:8d:04:25:1a:ab:11:25:aa
Subject: CN=GTS Root R2,O=Google Trust Services LLC,C=US
Not Valid Before: Wed Jun 22 00:00:00 2016
Not Valid After : Sun Jun 22 00:00:00 2036
Fingerprint (SHA-256):
8D:25:CD:97:22:9D:BF:70:35:6B:DA:4E:B3:CC:73:40:31:E2:4C:F0:0F:AF:CF:D3:2D:C7:6E:B5:84:1C:7E:A8
Fingerprint (SHA1): 9A:44:49:76:32:DB:DE:FA:D0:BC:FB:5A:7B:17:BD:9E:56:09:24:94
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GTS Root R2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\232\104\111\166\062\333\336\372\320\274\373\132\173\027\275\236
\126\011\044\224
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\036\071\300\123\346\036\051\202\013\312\122\125\066\135\127\334
END
CKA_ISSUER MULTILINE_OCTAL
\060\107\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\042\060\040\006\003\125\004\012\023\031\107\157\157\147\154\145
\040\124\162\165\163\164\040\123\145\162\166\151\143\145\163\040
\114\114\103\061\024\060\022\006\003\125\004\003\023\013\107\124
\123\040\122\157\157\164\040\122\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\015\002\003\345\256\305\215\004\045\032\253\021\045\252
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "GTS Root R3"
#
Issuer: CN=GTS Root R3,O=Google Trust Services LLC,C=US
Serial Number:02:03:e5:b8:82:eb:20:f8:25:27:6d:3d:66
Subject: CN=GTS Root R3,O=Google Trust Services LLC,C=US
Not Valid Before: Wed Jun 22 00:00:00 2016
Not Valid After : Sun Jun 22 00:00:00 2036
Fingerprint (SHA-256):
34:D8:A7:3E:E2:08:D9:BC:DB:0D:95:65:20:93:4B:4E:40:E6:94:82:59:6E:8B:6F:73:C8:42:6B:01:0A:6F:48
Fingerprint (SHA1): ED:E5:71:80:2B:C8:92:B9:5B:83:3C:D2:32:68:3F:09:CD:A0:1E:46

```

```
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GTS Root R3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\107\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\042\060\040\006\003\125\004\012\023\031\107\157\157\147\154\145
\040\124\162\165\163\164\040\123\145\162\166\151\143\145\163\040
\114\114\103\061\024\060\022\006\003\125\004\003\023\013\107\124
\123\040\122\157\157\164\040\122\063
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\107\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\042\060\040\006\003\125\004\012\023\031\107\157\157\147\154\145
\040\124\162\165\163\164\040\123\145\162\166\151\143\145\163\040
\114\114\103\061\024\060\022\006\003\125\004\003\023\013\107\124
\123\040\122\157\157\164\040\122\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\015\002\003\345\270\202\353\040\370\045\047\155\075\146
END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\011\060\202\001\216\240\003\002\001\002\002\015\002
\003\345\270\202\353\040\370\045\047\155\075\146\060\012\006\010
\052\206\110\316\075\004\003\003\060\107\061\013\060\011\006\003
\125\004\006\023\002\125\123\061\042\060\040\006\003\125\004\012
\023\031\107\157\157\147\154\145\040\124\162\165\163\164\040\123
\145\162\166\151\143\145\163\040\114\114\103\061\024\060\022\006
\003\125\004\003\023\013\107\124\123\040\122\157\157\164\040\122
\063\060\036\027\015\061\066\060\066\062\062\060\060\060\060\060
\060\132\027\015\063\066\060\066\062\062\060\060\060\060\060\060
\132\060\107\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\042\060\040\006\003\125\004\012\023\031\107\157\157\147\154
\145\040\124\162\165\163\164\040\123\145\162\166\151\143\145\163
\040\114\114\103\061\024\060\022\006\003\125\004\003\023\013\107
\124\123\040\122\157\157\164\040\122\063\060\166\060\020\006\007
\052\206\110\316\075\002\001\006\005\053\201\004\000\042\003\142
\000\004\037\117\063\207\063\051\212\241\204\336\313\307\041\130
\101\211\352\126\235\053\113\205\306\035\114\047\274\177\046\121
\162\157\342\237\326\243\312\314\105\024\106\213\255\357\176\206
\214\354\261\176\057\377\251\161\235\030\204\105\004\101\125\156
\053\352\046\177\273\220\001\343\113\031\272\344\124\226\105\011
\261\325\154\221\104\255\204\023\216\232\214\015\200\014\062\366
\340\047\243\102\060\100\060\016\006\003\125\035\017\001\001\377
\004\004\003\002\001\206\060\017\006\003\125\035\023\001\001\377
```

```
\004\005\060\003\001\001\377\060\035\006\003\125\035\016\004\026
\004\024\301\361\046\272\240\055\256\205\201\317\323\361\052\022
\275\270\012\147\375\274\060\012\006\010\052\206\110\316\075\004
\003\003\003\151\000\060\146\002\061\000\366\341\040\225\024\173
\124\243\220\026\021\277\204\310\352\157\153\027\236\036\106\230
\040\233\237\323\015\331\254\323\057\315\174\370\133\056\125\273
\277\335\222\367\244\014\334\061\341\242\002\061\000\374\227\146
\146\345\103\026\023\203\335\307\337\057\276\024\070\355\001\316
\261\027\032\021\165\351\275\003\217\046\176\204\345\311\140\246
\225\327\124\131\267\347\021\054\211\324\271\356\027
```

END

```
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRICT_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRICT_AFTER CK_BBOOL CK_FALSE
```

```
Trust for "GTS Root R3"
```

```
Issuer: CN=GTS Root R3,O=Google Trust Services LLC,C=US
```

```
Serial Number:02:03:e5:b8:82:eb:20:f8:25:27:6d:3d:66
```

```
Subject: CN=GTS Root R3,O=Google Trust Services LLC,C=US
```

```
Not Valid Before: Wed Jun 22 00:00:00 2016
```

```
Not Valid After : Sun Jun 22 00:00:00 2036
```

```
Fingerprint (SHA-256):
```

```
34:D8:A7:3E:E2:08:D9:BC:DB:0D:95:65:20:93:4B:4E:40:E6:94:82:59:6E:8B:6F:73:C8:42:6B:01:0A:6F:48
```

```
Fingerprint (SHA1): ED:E5:71:80:2B:C8:92:B9:5B:83:3C:D2:32:68:3F:09:CD:A0:1E:46
```

```
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
```

```
CKA_TOKEN CK_BBOOL CK_TRUE
```

```
CKA_PRIVATE CK_BBOOL CK_FALSE
```

```
CKA_MODIFIABLE CK_BBOOL CK_FALSE
```

```
CKA_LABEL UTF8 "GTS Root R3"
```

```
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
```

```
\355\345\161\200\053\310\222\271\133\203\074\322\062\150\077\011
\315\240\036\106
```

END

```
CKA_CERT_MD5_HASH MULTILINE_OCTAL
```

```
\076\347\235\130\002\224\106\121\224\345\340\042\112\213\347\163
```

END

```
CKA_ISSUER MULTILINE_OCTAL
```

```
\060\107\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\042\060\040\006\003\125\004\012\023\031\107\157\157\147\154\145
\040\124\162\165\163\164\040\123\145\162\166\151\143\145\163\040
\114\114\103\061\024\060\022\006\003\125\004\003\023\013\107\124
\123\040\122\157\157\164\040\122\063
```

END

```
CKA_SERIAL_NUMBER MULTILINE_OCTAL
```

```
\002\015\002\003\345\270\202\353\040\370\045\047\155\075\146
```

END

```
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
```

```
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
```

CKA\_TRUST\_CODE\_SIGNING CK\_TRUST CKT\_NSS\_MUST\_VERIFY\_TRUST  
CKA\_TRUST\_STEP\_UP\_APPROVED CK\_BBOOL CK\_FALSE

#

# Certificate "GTS Root R4"

#

# Issuer: CN=GTS Root R4,O=Google Trust Services LLC,C=US

# Serial Number:02:03:e5:c0:68:ef:63:1a:9c:72:90:50:52

# Subject: CN=GTS Root R4,O=Google Trust Services LLC,C=US

# Not Valid Before: Wed Jun 22 00:00:00 2016

# Not Valid After : Sun Jun 22 00:00:00 2036

# Fingerprint (SHA-256):

34:9D:FA:40:58:C5:E2:63:12:3B:39:8A:E7:95:57:3C:4E:13:13:C8:3F:E6:8F:93:55:6C:D5:E8:03:1B:3C:7D

# Fingerprint (SHA1): 77:D3:03:67:B5:E0:0C:15:F6:0C:38:61:DF:7C:E1:3B:92:46:4D:47

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_CERTIFICATE

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "GTS Root R4"

CKA\_CERTIFICATE\_TYPE CK\_CERTIFICATE\_TYPE CKC\_X\_509

CKA\_SUBJECT MULTILINE\_OCTAL

\060\107\061\013\060\011\006\003\125\004\006\023\002\125\123\061  
\042\060\040\006\003\125\004\012\023\031\107\157\157\147\154\145  
\040\124\162\165\163\164\040\123\145\162\166\151\143\145\163\040  
\114\114\103\061\024\060\022\006\003\125\004\003\023\013\107\124  
\123\040\122\157\157\164\040\122\064

END

CKA\_ID UTF8 "0"

CKA\_ISSUER MULTILINE\_OCTAL

\060\107\061\013\060\011\006\003\125\004\006\023\002\125\123\061  
\042\060\040\006\003\125\004\012\023\031\107\157\157\147\154\145  
\040\124\162\165\163\164\040\123\145\162\166\151\143\145\163\040  
\114\114\103\061\024\060\022\006\003\125\004\003\023\013\107\124  
\123\040\122\157\157\164\040\122\064

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

\002\015\002\003\345\300\150\357\143\032\234\162\220\120\122

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\002\011\060\202\001\216\240\003\002\001\002\002\015\002  
\003\345\300\150\357\143\032\234\162\220\120\122\060\012\006\010  
\052\206\110\316\075\004\003\003\060\107\061\013\060\011\006\003  
\125\004\006\023\002\125\123\061\042\060\040\006\003\125\004\012  
\023\031\107\157\157\147\154\145\040\124\162\165\163\164\040\123  
\145\162\166\151\143\145\163\040\114\114\103\061\024\060\022\006  
\003\125\004\003\023\013\107\124\123\040\122\157\157\164\040\122  
\064\060\036\027\015\061\066\060\066\062\062\060\060\060\060\060  
\060\132\027\015\063\066\060\066\062\062\060\060\060\060\060\060



```
\132\060\107\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\042\060\040\006\003\125\004\012\023\031\107\157\157\147\154
\145\040\124\162\165\163\164\040\123\145\162\166\151\143\145\163
\040\114\114\103\061\024\060\022\006\003\125\004\003\023\013\107
\124\123\040\122\157\157\164\040\122\064\060\166\060\020\006\007
\052\206\110\316\075\002\001\006\005\053\201\004\000\042\003\142
\000\004\363\164\163\247\150\213\140\256\103\270\065\305\201\060
\173\113\111\235\373\301\141\316\346\336\106\275\153\325\141\030
\065\256\100\335\163\367\211\221\060\132\353\074\356\205\174\242
\100\166\073\251\306\270\107\330\052\347\222\221\152\163\351\261
\162\071\237\051\237\242\230\323\137\136\130\206\145\017\241\204
\145\006\321\334\213\311\307\163\310\214\152\057\345\304\253\321
\035\212\243\102\060\100\060\016\006\003\125\035\017\001\001\377
\004\004\003\002\001\206\060\017\006\003\125\035\023\001\001\377
\004\005\060\003\001\001\377\060\035\006\003\125\035\016\004\026
\004\024\200\114\326\353\164\377\111\066\243\325\330\374\265\076
\305\152\360\224\035\214\060\012\006\010\052\206\110\316\075\004
\003\003\003\151\000\060\146\002\061\000\350\100\377\203\336\003
\364\237\256\035\172\247\056\271\257\117\366\203\035\016\055\205
\001\035\321\331\152\354\017\302\257\307\136\126\136\134\325\034
\130\042\050\013\367\060\266\057\261\174\002\061\000\360\141\074
\247\364\240\202\343\041\325\204\035\163\206\234\055\257\312\064
\233\361\237\271\043\066\342\274\140\003\235\200\263\232\126\310
\341\342\273\024\171\312\315\041\324\224\265\111\103
```

END

```
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRICT_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRICT_AFTER CK_BBOOL CK_FALSE
```

```
Trust for "GTS Root R4"
```

```
Issuer: CN=GTS Root R4,O=Google Trust Services LLC,C=US
```

```
Serial Number:02:03:e5:c0:68:ef:63:1a:9c:72:90:50:52
```

```
Subject: CN=GTS Root R4,O=Google Trust Services LLC,C=US
```

```
Not Valid Before: Wed Jun 22 00:00:00 2016
```

```
Not Valid After : Sun Jun 22 00:00:00 2036
```

```
Fingerprint (SHA-256):
```

```
34:9D:FA:40:58:C5:E2:63:12:3B:39:8A:E7:95:57:3C:4E:13:13:C8:3F:E6:8F:93:55:6C:D5:E8:03:1B:3C:7D
```

```
Fingerprint (SHA1): 77:D3:03:67:B5:E0:0C:15:F6:0C:38:61:DF:7C:E1:3B:92:46:4D:47
```

```
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
```

```
CKA_TOKEN CK_BBOOL CK_TRUE
```

```
CKA_PRIVATE CK_BBOOL CK_FALSE
```

```
CKA_MODIFIABLE CK_BBOOL CK_FALSE
```

```
CKA_LABEL UTF8 "GTS Root R4"
```

```
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
```

```
\167\323\003\147\265\340\014\025\366\014\070\141\337\174\341\073
\222\106\115\107
```

END

```
CKA_CERT_MD5_HASH MULTILINE_OCTAL
```

\103\226\203\167\031\115\166\263\235\145\122\344\035\042\245\350

END

CKA\_ISSUER MULTILINE\_OCTAL

\060\107\061\013\060\011\006\003\125\004\006\023\002\125\123\061  
\042\060\040\006\003\125\004\012\023\031\107\157\157\147\154\145  
\040\124\162\165\163\164\040\123\145\162\166\151\143\145\163\040  
\114\114\103\061\024\060\022\006\003\125\004\003\023\013\107\124  
\123\040\122\157\157\164\040\122\064

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

\002\015\002\003\345\300\150\357\143\032\234\162\220\120\122

END

CKA\_TRUST\_SERVER\_AUTH CK\_TRUST CKT\_NSS\_TRUSTED\_DELEGATOR

CKA\_TRUST\_EMAIL\_PROTECTION CK\_TRUST CKT\_NSS\_TRUSTED\_DELEGATOR

CKA\_TRUST\_CODE\_SIGNING CK\_TRUST CKT\_NSS\_MUST\_VERIFY\_TRUST

CKA\_TRUST\_STEP\_UP\_APPROVED CK\_BBOOL CK\_FALSE

#

# Certificate "Telia Root CA v2"

#

# Issuer: CN=Telia Root CA v2,O=Telia Finland Oyj,C=FI

# Serial Number:01:67:5f:27:d6:fe:7a:e3:e4:ac:be:09:5b:05:9e

# Subject: CN=Telia Root CA v2,O=Telia Finland Oyj,C=FI

# Not Valid Before: Thu Nov 29 11:55:54 2018

# Not Valid After : Sun Nov 29 11:55:54 2043

# Fingerprint (SHA-256):

24:2B:69:74:2F:CB:1E:5B:2A:BF:98:89:8B:94:57:21:87:54:4E:5B:4D:99:11:78:65:73:62:1F:6A:74:B8:2C

# Fingerprint (SHA1): B9:99:CD:D1:73:50:8A:C4:47:05:08:9C:8C:88:FB:BE:A0:2B:40:CD

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_CERTIFICATE

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "Telia Root CA v2"

CKA\_CERTIFICATE\_TYPE CK\_CERTIFICATE\_TYPE CKC\_X\_509

CKA\_SUBJECT MULTILINE\_OCTAL

\060\104\061\013\060\011\006\003\125\004\006\023\002\106\111\061  
\032\060\030\006\003\125\004\012\014\021\124\145\154\151\141\040  
\106\151\156\154\141\156\144\040\117\171\152\061\031\060\027\006  
\003\125\004\003\014\020\124\145\154\151\141\040\122\157\157\164  
\040\103\101\040\166\062

END

CKA\_ID UTF8 "0"

CKA\_ISSUER MULTILINE\_OCTAL

\060\104\061\013\060\011\006\003\125\004\006\023\002\106\111\061  
\032\060\030\006\003\125\004\012\014\021\124\145\154\151\141\040  
\106\151\156\154\141\156\144\040\117\171\152\061\031\060\027\006  
\003\125\004\003\014\020\124\145\154\151\141\040\122\157\157\164  
\040\103\101\040\166\062

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

\002\017\001\147\137\047\326\376\172\343\344\254\276\011\133\005  
\236

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\005\164\060\202\003\134\240\003\002\001\002\002\017\001  
\147\137\047\326\376\172\343\344\254\276\011\133\005\236\060\015  
\006\011\052\206\110\206\367\015\001\001\013\005\000\060\104\061  
\013\060\011\006\003\125\004\006\023\002\106\111\061\032\060\030  
\006\003\125\004\012\014\021\124\145\154\151\141\040\106\151\156  
\154\141\156\144\040\117\171\152\061\031\060\027\006\003\125\004  
\003\014\020\124\145\154\151\141\040\122\157\157\164\040\103\101  
\040\166\062\060\036\027\015\061\070\061\061\062\071\061\061\065  
\065\065\064\132\027\015\064\063\061\061\062\071\061\061\065\065  
\065\064\132\060\104\061\013\060\011\006\003\125\004\006\023\002  
\106\111\061\032\060\030\006\003\125\004\012\014\021\124\145\154  
\151\141\040\106\151\156\154\141\156\144\040\117\171\152\061\031  
\060\027\006\003\125\004\003\014\020\124\145\154\151\141\040\122  
\157\157\164\040\103\101\040\166\062\060\202\002\042\060\015\006  
\011\052\206\110\206\367\015\001\001\001\005\000\003\202\002\017  
\000\060\202\002\012\002\202\002\001\000\262\320\077\007\274\342  
\173\320\153\231\370\342\167\151\347\316\235\244\003\274\202\155  
\241\376\201\145\037\114\047\254\216\000\272\026\173\353\060\152  
\000\300\263\164\150\176\262\257\307\325\142\263\172\077\120\312  
\214\066\104\044\143\322\066\351\014\205\366\103\166\325\114\241  
\140\162\147\342\050\063\245\313\061\270\072\042\043\064\270\175  
\275\126\042\100\235\352\364\173\003\255\150\374\262\201\117\230  
\320\164\352\215\345\175\315\143\303\243\366\336\222\302\130\031  
\340\226\273\305\304\251\075\245\164\226\376\257\371\211\252\275  
\225\027\124\330\170\104\361\014\167\025\222\340\230\102\247\244  
\326\252\040\222\315\301\240\263\226\262\072\204\102\215\175\325  
\225\344\326\333\351\142\304\130\263\171\305\214\323\065\063\203  
\237\165\241\122\047\141\070\361\131\075\216\120\340\275\171\074  
\347\154\226\376\136\331\002\145\264\216\134\320\021\064\337\135  
\277\122\247\201\000\303\177\231\105\231\025\325\027\310\012\123  
\354\143\363\231\175\314\151\022\206\302\027\360\001\236\277\204  
\274\321\122\313\033\222\146\316\244\123\345\241\277\304\333\011  
\326\346\211\126\053\310\343\174\336\343\377\211\345\065\156\050  
\350\154\013\043\121\251\045\005\353\110\370\335\261\312\372\154  
\010\121\357\267\030\154\104\312\046\341\163\306\211\006\201\345  
\212\254\260\342\051\306\271\044\263\153\104\021\364\245\103\302  
\114\103\345\160\066\214\266\063\127\172\225\056\202\240\364\134  
\020\263\141\203\366\002\005\206\056\174\055\154\334\003\106\156  
\065\223\325\172\225\057\336\040\330\133\176\224\220\004\152\272  
\131\075\004\005\165\235\067\242\016\056\075\353\301\244\122\203  
\376\320\153\324\146\216\334\306\351\022\116\035\052\127\252\020  
\274\174\136\202\175\246\246\311\362\055\271\365\027\047\255\321

\016\211\124\053\225\372\300\255\035\230\024\170\063\102\206\012  
\251\163\265\373\164\015\267\033\060\031\304\132\016\034\047\267  
\332\030\320\377\212\310\005\272\361\252\034\242\067\267\346\110  
\244\106\054\224\352\250\166\142\107\213\020\123\007\110\127\154  
\342\222\115\266\256\005\313\334\301\112\136\217\254\075\031\116  
\302\355\140\165\053\333\301\312\102\325\002\003\001\000\001\243  
\143\060\141\060\037\006\003\125\035\043\004\030\060\026\200\024  
\162\254\344\063\171\252\105\207\366\375\254\035\236\326\307\057  
\206\330\044\071\060\035\006\003\125\035\016\004\026\004\024\162  
\254\344\063\171\252\105\207\366\375\254\035\236\326\307\057\206  
\330\044\071\060\016\006\003\125\035\017\001\001\377\004\004\003  
\002\001\006\060\017\006\003\125\035\023\001\001\377\004\005\060  
\003\001\001\377\060\015\006\011\052\206\110\206\367\015\001\001  
\013\005\000\003\202\002\001\000\240\073\131\247\011\224\076\066  
\204\322\176\057\071\245\226\227\372\021\255\374\147\363\161\011  
\362\262\211\204\147\104\257\271\357\355\226\354\234\144\333\062  
\060\157\147\232\254\176\137\262\253\001\066\176\201\372\344\204  
\136\322\254\066\340\153\142\305\175\113\016\202\155\322\166\142  
\321\376\227\370\237\060\174\030\371\264\122\167\202\035\166\333  
\323\035\251\360\301\232\000\275\155\165\330\175\347\372\307\070  
\243\234\160\350\106\171\003\257\056\164\333\165\370\156\123\014  
\003\310\231\032\211\065\031\074\323\311\124\174\250\360\054\346  
\156\007\171\157\152\341\346\352\221\202\151\012\035\303\176\131  
\242\236\153\106\025\230\133\323\257\106\035\142\310\316\200\122  
\111\021\077\311\004\022\303\023\174\077\073\212\226\333\074\240  
\036\012\264\213\124\262\044\147\015\357\202\313\276\074\175\321  
\342\177\256\026\326\126\130\271\332\040\261\203\025\241\357\212  
\115\062\157\101\057\023\122\202\224\327\032\301\170\242\121\335  
\053\160\155\267\032\371\367\260\340\147\227\126\333\174\141\123  
\011\003\050\002\100\307\263\330\375\234\160\152\306\050\303\205  
\351\342\355\032\223\240\336\113\230\242\204\076\005\167\001\226  
\075\373\264\040\017\234\162\002\172\022\057\325\243\272\121\170  
\257\052\053\104\145\116\265\375\012\350\301\315\171\207\141\053  
\336\200\127\105\277\147\361\233\221\136\245\244\354\131\110\020  
\015\070\307\260\372\303\104\155\004\365\170\120\034\222\226\133  
\332\365\270\056\272\133\317\345\360\152\235\113\057\130\163\055  
\117\055\304\034\076\364\263\077\253\025\016\073\031\101\212\244  
\301\127\022\146\161\114\372\123\343\127\353\142\225\011\236\124  
\335\321\302\074\127\074\275\070\255\230\144\267\270\003\232\123  
\126\140\135\263\330\102\033\134\113\022\212\034\353\353\175\306  
\172\151\307\047\177\244\370\213\362\344\224\146\207\113\351\224  
\007\011\022\171\212\262\353\164\004\334\316\364\104\131\340\026  
\312\305\054\130\327\074\173\317\142\206\152\120\175\065\066\146  
\247\373\067\347\050\307\330\320\255\245\151\224\217\350\301\337  
\044\370\033\007\061\207\201\330\135\366\350\050\330\112\122\200  
\254\023\356\120\024\036\230\307

END

CKA\_NSS\_MOZILLA\_CA\_POLICY CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "Telia Root CA v2"

# Issuer: CN=Telia Root CA v2,O=Telia Finland Oyj,C=FI

# Serial Number:01:67:5f:27:d6:fe:7a:e3:e4:ac:be:09:5b:05:9e

# Subject: CN=Telia Root CA v2,O=Telia Finland Oyj,C=FI

# Not Valid Before: Thu Nov 29 11:55:54 2018

# Not Valid After : Sun Nov 29 11:55:54 2043

# Fingerprint (SHA-256):

24:2B:69:74:2F:CB:1E:5B:2A:BF:98:89:8B:94:57:21:87:54:4E:5B:4D:99:11:78:65:73:62:1F:6A:74:B8:2C

# Fingerprint (SHA1): B9:99:CD:D1:73:50:8A:C4:47:05:08:9C:8C:88:FB:BE:A0:2B:40:CD

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "Telia Root CA v2"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

\271\231\315\321\163\120\212\304\107\005\010\234\214\210\373\276

\240\053\100\315

END

CKA\_CERT\_MD5\_HASH MULTILINE\_OCTAL

\016\217\254\252\202\337\205\261\364\334\020\034\374\231\331\110

END

CKA\_ISSUER MULTILINE\_OCTAL

\060\104\061\013\060\011\006\003\125\004\006\023\002\106\111\061

\032\060\030\006\003\125\004\012\014\021\124\145\154\151\141\040

\106\151\156\154\141\156\144\040\117\171\152\061\031\060\027\006

\003\125\004\003\014\020\124\145\154\151\141\040\122\157\157\164

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

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

\002\017\001\147\137\047\326\376\172\343\344\254\276\011\133\005

\236

END

CKA\_TRUST\_SERVER\_AUTH CK\_TRUST CKT\_NSS\_TRUSTED\_DELEGATOR

CKA\_TRUST\_EMAIL\_PROTECTION CK\_TRUST CKT\_NSS\_TRUSTED\_DELEGATOR

CKA\_TRUST\_CODE\_SIGNING CK\_TRUST CKT\_NSS\_MUST\_VERIFY\_TRUST

CKA\_TRUST\_STEP\_UP\_APPROVED CK\_BBOOL CK\_FALSE

#

# Certificate "D-TRUST BR Root CA 1 2020"

#

# Issuer: CN=D-TRUST BR Root CA 1 2020,O=D-Trust GmbH,C=DE

# Serial Number:7c:c9:8f:2b:84:d7:df:ea:0f:c9:65:9a:d3:4b:4d:96

# Subject: CN=D-TRUST BR Root CA 1 2020,O=D-Trust GmbH,C=DE

# Not Valid Before: Tue Feb 11 09:45:00 2020

# Not Valid After : Sun Feb 11 09:44:59 2035

# Fingerprint (SHA-256):

E5:9A:AA:81:60:09:C2:2B:FF:5B:25:BA:D3:7D:F3:06:F0:49:79:7C:1F:81:D8:5A:B0:89:E6:57:BD:8F:00:44

# Fingerprint (SHA1): 1F:5B:98:F0:E3:B5:F7:74:3C:ED:E6:B0:36:7D:32:CD:F4:09:41:67

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_CERTIFICATE

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "D-TRUST BR Root CA 1 2020"

CKA\_CERTIFICATE\_TYPE CK\_CERTIFICATE\_TYPE CKC\_X\_509

CKA\_SUBJECT MULTILINE\_OCTAL

\060\110\061\013\060\011\006\003\125\004\006\023\002\104\105\061  
\025\060\023\006\003\125\004\012\023\014\104\055\124\162\165\163  
\164\040\107\155\142\110\061\042\060\040\006\003\125\004\003\023  
\031\104\055\124\122\125\123\124\040\102\122\040\122\157\157\164  
\040\103\101\040\061\040\062\060\062\060

END

CKA\_ID UTF8 "0"

CKA\_ISSUER MULTILINE\_OCTAL

\060\110\061\013\060\011\006\003\125\004\006\023\002\104\105\061  
\025\060\023\006\003\125\004\012\023\014\104\055\124\162\165\163  
\164\040\107\155\142\110\061\042\060\040\006\003\125\004\003\023  
\031\104\055\124\122\125\123\124\040\102\122\040\122\157\157\164  
\040\103\101\040\061\040\062\060\062\060

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

\002\020\174\311\217\053\204\327\337\352\017\311\145\232\323\113  
\115\226

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\002\333\060\202\002\140\240\003\002\001\002\002\020\174  
\311\217\053\204\327\337\352\017\311\145\232\323\113\115\226\060  
\012\006\010\052\206\110\316\075\004\003\003\060\110\061\013\060  
\011\006\003\125\004\006\023\002\104\105\061\025\060\023\006\003  
\125\004\012\023\014\104\055\124\162\165\163\164\040\107\155\142  
\110\061\042\060\040\006\003\125\004\003\023\031\104\055\124\122  
\125\123\124\040\102\122\040\122\157\157\164\040\103\101\040\061  
\040\062\060\062\060\060\036\027\015\062\060\060\062\061\061\060\071  
\071\064\065\060\060\132\027\015\063\065\060\062\061\061\060\071  
\064\064\065\071\132\060\110\061\013\060\011\006\003\125\004\006  
\023\002\104\105\061\025\060\023\006\003\125\004\012\023\014\104  
\055\124\162\165\163\164\040\107\155\142\110\061\042\060\040\006  
\003\125\004\003\023\031\104\055\124\122\125\123\124\040\102\122  
\040\122\157\157\164\040\103\101\040\061\040\062\060\062\060\060  
\166\060\020\006\007\052\206\110\316\075\002\001\006\005\053\201  
\004\000\042\003\142\000\004\306\313\307\050\321\373\204\365\232  
\357\102\024\040\341\103\153\156\165\255\374\053\003\204\324\166  
\223\045\327\131\073\101\145\153\036\346\064\052\273\164\366\022  
\316\350\155\347\253\344\074\116\077\104\010\213\315\026\161\313

\277\222\231\364\244\327\074\120\124\122\220\205\203\170\224\147  
\147\243\034\011\031\075\165\064\205\336\355\140\175\307\014\264  
\101\122\271\156\345\356\102\243\202\001\015\060\202\001\011\060  
\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001\377  
\060\035\006\003\125\035\016\004\026\004\024\163\221\020\253\377  
\125\263\132\174\011\045\325\262\272\010\240\153\253\037\155\060  
\016\006\003\125\035\017\001\001\377\004\004\003\002\001\006\060  
\201\306\006\003\125\035\037\004\201\276\060\201\273\060\076\240  
\074\240\072\206\070\150\164\164\160\072\057\057\143\162\154\056  
\144\055\164\162\165\163\164\056\156\145\164\057\143\162\154\057  
\144\055\164\162\165\163\164\137\142\162\137\162\157\157\164\137  
\143\141\137\061\137\062\060\062\060\056\143\162\154\060\171\240  
\167\240\165\206\163\154\144\141\160\072\057\057\144\151\162\145  
\143\164\157\162\171\056\144\055\164\162\165\163\164\056\156\145  
\164\057\103\116\075\104\055\124\122\125\123\124\045\062\060\102  
\122\045\062\060\122\157\157\164\045\062\060\103\101\045\062\060  
\061\045\062\060\062\060\062\060\054\117\075\104\055\124\162\165  
\163\164\045\062\060\107\155\142\110\054\103\075\104\105\077\143  
\145\162\164\151\146\151\143\141\164\145\162\145\166\157\143\141  
\164\151\157\156\154\151\163\164\060\012\006\010\052\206\110\316  
\075\004\003\003\003\151\000\060\146\002\061\000\224\220\055\023  
\372\341\143\370\141\143\350\255\205\170\124\221\234\270\223\070  
\076\032\101\332\100\026\123\102\010\312\057\216\361\076\201\126  
\300\252\330\355\030\304\260\256\364\076\372\046\002\061\000\363  
\050\342\306\333\053\231\373\267\121\270\044\243\244\224\172\032  
\077\346\066\342\003\127\063\212\060\313\202\307\326\024\021\325  
\165\143\133\024\225\234\037\001\317\330\325\162\247\017\073

END

CKA\_NSS\_MOZILLA\_CA\_POLICY CK\_BBOOL CK\_TRUE  
CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE  
CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "D-TRUST BR Root CA 1 2020"

# Issuer: CN=D-TRUST BR Root CA 1 2020,O=D-Trust GmbH,C=DE

# Serial Number:7c:c9:8f:2b:84:d7:df:ea:0f:c9:65:9a:d3:4b:4d:96

# Subject: CN=D-TRUST BR Root CA 1 2020,O=D-Trust GmbH,C=DE

# Not Valid Before: Tue Feb 11 09:45:00 2020

# Not Valid After : Sun Feb 11 09:44:59 2035

# Fingerprint (SHA-256):

E5:9A:AA:81:60:09:C2:2B:FF:5B:25:BA:D3:7D:F3:06:F0:49:79:7C:1F:81:D8:5A:B0:89:E6:57:BD:8F:00:44

# Fingerprint (SHA1): 1F:5B:98:F0:E3:B5:F7:74:3C:ED:E6:B0:36:7D:32:CD:F4:09:41:67

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "D-TRUST BR Root CA 1 2020"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

\037\133\230\360\343\265\367\164\074\355\346\260\066\175\062\315

```

\364\011\101\147
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\265\252\113\325\355\367\343\125\056\217\162\012\363\165\270\355
END
CKA_ISSUER MULTILINE_OCTAL
\060\110\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\025\060\023\006\003\125\004\012\023\014\104\055\124\162\165\163
\164\040\107\155\142\110\061\042\060\040\006\003\125\004\003\023
\031\104\055\124\122\125\123\124\040\102\122\040\122\157\157\164
\040\103\101\040\061\040\062\060\062\060
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\174\311\217\053\204\327\337\352\017\311\145\232\323\113
\115\226
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "D-TRUST EV Root CA 1 2020"
#
Issuer: CN=D-TRUST EV Root CA 1 2020,O=D-Trust GmbH,C=DE
Serial Number:5f:02:41:d7:7a:87:7c:4c:03:a3:ac:96:8d:fb:ff:d0
Subject: CN=D-TRUST EV Root CA 1 2020,O=D-Trust GmbH,C=DE
Not Valid Before: Tue Feb 11 10:00:00 2020
Not Valid After : Sun Feb 11 09:59:59 2035
Fingerprint (SHA-256):
08:17:0D:1A:A3:64:53:90:1A:2F:95:92:45:E3:47:DB:0C:8D:37:AB:AA:BC:56:B8:1A:A1:00:DC:95:89:70:DB
Fingerprint (SHA1): 61:DB:8C:21:59:69:03:90:D8:7C:9C:12:86:54:CF:9D:3D:F4:DD:07
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "D-TRUST EV Root CA 1 2020"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\110\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\025\060\023\006\003\125\004\012\023\014\104\055\124\162\165\163
\164\040\107\155\142\110\061\042\060\040\006\003\125\004\003\023
\031\104\055\124\122\125\123\124\040\105\126\040\122\157\157\164
\040\103\101\040\061\040\062\060\062\060
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\110\061\013\060\011\006\003\125\004\006\023\002\104\105\061

```



\025\060\023\006\003\125\004\012\023\014\104\055\124\162\165\163  
\164\040\107\155\142\110\061\042\060\040\006\003\125\004\003\023  
\031\104\055\124\122\125\123\124\040\105\126\040\122\157\157\164  
\040\103\101\040\061\040\062\060\062\060

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

\002\020\137\002\101\327\172\207\174\114\003\243\254\226\215\373  
\377\320

END

CKA\_VALUE MULTILINE\_OCTAL

\060\020\002\333\060\020\002\140\240\003\002\001\002\002\020\137  
\002\101\327\172\207\174\114\003\243\254\226\215\373\377\320\060  
\012\006\010\052\206\110\316\075\004\003\003\060\110\061\013\060  
\011\006\003\125\004\006\023\002\104\105\061\025\060\023\006\003  
\125\004\012\023\014\104\055\124\162\165\163\164\040\107\155\142  
\110\061\042\060\040\006\003\125\004\003\023\031\104\055\124\122  
\125\123\124\040\105\126\040\122\157\157\164\040\103\101\040\061  
\040\062\060\062\060\060\036\027\015\062\060\060\062\061\061\061  
\060\060\060\060\060\132\027\015\063\065\060\062\061\061\060\071  
\065\071\065\071\132\060\110\061\013\060\011\006\003\125\004\006  
\023\002\104\105\061\025\060\023\006\003\125\004\012\023\014\104  
\055\124\162\165\163\164\040\107\155\142\110\061\042\060\040\006  
\003\125\004\003\023\031\104\055\124\122\125\123\124\040\105\126  
\040\122\157\157\164\040\103\101\040\061\040\062\060\062\060\060  
\166\060\020\006\007\052\206\110\316\075\002\001\006\005\053\201  
\004\000\042\003\142\000\004\361\013\335\206\103\040\031\337\227  
\205\350\042\112\233\317\235\230\277\264\005\046\311\313\343\246  
\322\217\305\236\170\173\061\211\251\211\255\047\074\145\020\202  
\374\337\303\235\116\360\063\043\304\322\062\365\034\260\337\063  
\027\135\305\360\261\212\371\357\271\267\024\312\051\112\302\017  
\251\177\165\145\111\052\060\147\364\144\367\326\032\167\332\303  
\302\227\141\102\173\111\255\243\202\001\015\060\202\001\011\060  
\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001\377  
\060\035\006\003\125\035\016\004\026\004\024\177\020\001\026\067  
\072\244\050\344\120\370\244\367\354\153\062\266\376\351\213\060  
\016\006\003\125\035\017\001\001\377\004\004\003\002\001\006\060  
\201\306\006\003\125\035\037\004\201\276\060\201\273\060\076\240  
\074\240\072\206\070\150\164\164\160\072\057\057\143\162\154\056  
\144\055\164\162\165\163\164\056\156\145\164\057\143\162\154\057  
\144\055\164\162\165\163\164\137\145\166\137\162\157\157\164\137  
\143\141\137\061\137\062\060\062\060\056\143\162\154\060\171\240  
\167\240\165\206\163\154\144\141\160\072\057\057\144\151\162\145  
\143\164\157\162\171\056\144\055\164\162\165\163\164\056\156\145  
\164\057\103\116\075\104\055\124\122\125\123\124\045\062\060\105  
\126\045\062\060\122\157\157\164\045\062\060\103\101\045\062\060  
\061\045\062\060\062\060\062\060\054\117\075\104\055\124\162\165  
\163\164\045\062\060\107\155\142\110\054\103\075\104\105\077\143  
\145\162\164\151\146\151\143\141\164\145\162\145\166\157\143\141

```
\164\151\157\156\154\151\163\164\060\012\006\010\052\206\110\316
\075\004\003\003\003\151\000\060\146\002\061\000\312\074\306\052
\165\302\136\165\142\071\066\000\140\132\213\301\223\231\314\331
\333\101\073\073\207\231\027\073\325\314\117\312\042\367\240\200
\313\371\264\261\033\126\365\162\322\374\031\321\002\061\000\221
\367\060\223\077\020\106\053\161\244\320\073\104\233\300\051\002
\005\262\101\167\121\363\171\132\236\216\024\240\116\102\322\133
\201\363\064\152\003\347\042\070\120\133\355\031\117\103\026
```

END

```
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRICT_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRICT_AFTER CK_BBOOL CK_FALSE
```

```
Trust for "D-TRUST EV Root CA 1 2020"
```

```
Issuer: CN=D-TRUST EV Root CA 1 2020,O=D-Trust GmbH,C=DE
```

```
Serial Number:5f:02:41:d7:7a:87:7c:4c:03:a3:ac:96:8d:fb:ff:d0
```

```
Subject: CN=D-TRUST EV Root CA 1 2020,O=D-Trust GmbH,C=DE
```

```
Not Valid Before: Tue Feb 11 10:00:00 2020
```

```
Not Valid After : Sun Feb 11 09:59:59 2035
```

```
Fingerprint (SHA-256):
```

```
08:17:0D:1A:A3:64:53:90:1A:2F:95:92:45:E3:47:DB:0C:8D:37:AB:AA:BC:56:B8:1A:A1:00:DC:95:89:70:DB
```

```
Fingerprint (SHA1): 61:DB:8C:21:59:69:03:90:D8:7C:9C:12:86:54:CF:9D:3D:F4:DD:07
```

```
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
```

```
CKA_TOKEN CK_BBOOL CK_TRUE
```

```
CKA_PRIVATE CK_BBOOL CK_FALSE
```

```
CKA_MODIFIABLE CK_BBOOL CK_FALSE
```

```
CKA_LABEL UTF8 "D-TRUST EV Root CA 1 2020"
```

```
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
```

```
\141\333\214\041\131\151\003\220\330\174\234\022\206\124\317\235
\075\364\335\007
```

END

```
CKA_CERT_MD5_HASH MULTILINE_OCTAL
```

```
\214\055\235\160\237\110\231\021\006\021\373\351\313\060\300\156
```

END

```
CKA_ISSUER MULTILINE_OCTAL
```

```
\060\110\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\025\060\023\006\003\125\004\012\023\014\104\055\124\162\165\163
\164\040\107\155\142\110\061\042\060\040\006\003\125\004\003\023
\031\104\055\124\122\125\123\124\040\105\126\040\122\157\157\164
\040\103\101\040\061\040\062\060\062\060
```

END

```
CKA_SERIAL_NUMBER MULTILINE_OCTAL
```

```
\002\020\137\002\101\327\172\207\174\114\003\243\254\226\215\373
\377\320
```

END

```
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
```

```
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
```

```
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
```

CKA\_TRUST\_STEP\_UP\_APPROVED CK\_BBOOL CK\_FALSE

#

# Certificate "DigiCert TLS ECC P384 Root G5"

#

# Issuer: CN=DigiCert TLS ECC P384 Root G5,O="DigiCert, Inc.",C=US

# Serial Number:09:e0:93:65:ac:f7:d9:c8:b9:3e:1c:0b:04:2a:2e:f3

# Subject: CN=DigiCert TLS ECC P384 Root G5,O="DigiCert, Inc.",C=US

# Not Valid Before: Fri Jan 15 00:00:00 2021

# Not Valid After : Sun Jan 14 23:59:59 2046

# Fingerprint (SHA-256):

01:8E:13:F0:77:25:32:CF:80:9B:D1:B1:72:81:86:72:83:FC:48:C6:E1:3B:E9:C6:98:12:85:4A:49:0C:1B:05

# Fingerprint (SHA1): 17:F3:DE:5E:9F:0F:19:E9:8E:F6:1F:32:26:6E:20:C4:07:AE:30:EE

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_CERTIFICATE

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "DigiCert TLS ECC P384 Root G5"

CKA\_CERTIFICATE\_TYPE CK\_CERTIFICATE\_TYPE CKC\_X\_509

CKA\_SUBJECT MULTILINE\_OCTAL

\060\116\061\013\060\011\006\003\125\004\006\023\002\125\123\061

\027\060\025\006\003\125\004\012\023\016\104\151\147\151\103\145

\162\164\054\040\111\156\143\056\061\046\060\044\006\003\125\004

\003\023\035\104\151\147\151\103\145\162\164\040\124\114\123\040

\105\103\103\040\120\063\070\064\040\122\157\157\164\040\107\065

END

CKA\_ID UTF8 "0"

CKA\_ISSUER MULTILINE\_OCTAL

\060\116\061\013\060\011\006\003\125\004\006\023\002\125\123\061

\027\060\025\006\003\125\004\012\023\016\104\151\147\151\103\145

\162\164\054\040\111\156\143\056\061\046\060\044\006\003\125\004

\003\023\035\104\151\147\151\103\145\162\164\040\124\114\123\040

\105\103\103\040\120\063\070\064\040\122\157\157\164\040\107\065

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

\002\020\011\340\223\145\254\367\331\310\271\076\034\013\004\052

\056\363

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\002\031\060\202\001\237\240\003\002\001\002\020\011

\340\223\145\254\367\331\310\271\076\034\013\004\052\056\363\060

\012\006\010\052\206\110\316\075\004\003\003\060\116\061\013\060

\011\006\003\125\004\006\023\002\125\123\061\027\060\025\006\003

\125\004\012\023\016\104\151\147\151\103\145\162\164\054\040\111

\156\143\056\061\046\060\044\006\003\125\004\003\023\035\104\151

\147\151\103\145\162\164\040\124\114\123\040\105\103\103\040\120

\063\070\064\040\122\157\157\164\040\107\065\060\036\027\015\062

\061\060\061\061\065\060\060\060\060\060\060\132\027\015\064\066

\060\061\061\064\062\063\065\071\065\071\132\060\116\061\013\060  
\011\006\003\125\004\006\023\002\125\123\061\027\060\025\006\003  
\125\004\012\023\016\104\151\147\151\103\145\162\164\054\040\111  
\156\143\056\061\046\060\044\006\003\125\004\003\023\035\104\151  
\147\151\103\145\162\164\040\124\114\123\040\105\103\103\040\120  
\063\070\064\040\122\157\157\164\040\107\065\060\166\060\020\006  
\007\052\206\110\316\075\002\001\006\005\053\201\004\000\042\003  
\142\000\004\301\104\241\317\021\227\120\232\336\043\202\065\007  
\315\320\313\030\235\322\361\177\167\065\117\073\335\224\162\122  
\355\302\073\370\354\372\173\153\130\040\354\231\256\311\374\150  
\263\165\271\333\011\354\310\023\365\116\306\012\035\146\060\114  
\273\037\107\012\074\141\020\102\051\174\245\010\016\340\042\351  
\323\065\150\316\233\143\237\204\265\231\115\130\240\216\365\124  
\347\225\311\243\102\060\100\060\035\006\003\125\035\016\004\026  
\004\024\301\121\105\120\131\253\076\347\054\132\372\040\042\022  
\007\200\210\174\021\152\060\016\006\003\125\035\017\001\001\377  
\004\004\003\002\001\206\060\017\006\003\125\035\023\001\001\377  
\004\005\060\003\001\001\377\060\012\006\010\052\206\110\316\075  
\004\003\003\003\150\000\060\145\002\061\000\211\152\215\107\347  
\354\374\156\125\003\331\147\154\046\116\203\306\375\311\373\053  
\023\274\267\172\214\264\145\322\151\151\143\023\143\073\046\120  
\056\001\241\171\006\221\235\110\277\302\276\002\060\107\303\025  
\173\261\240\221\231\111\223\250\074\174\350\106\006\213\054\362  
\061\000\224\235\142\310\211\275\031\204\024\351\245\373\001\270  
\015\166\103\214\056\123\313\174\337\014\027\226\120

END

CKA\_NSS\_MOZILLA\_CA\_POLICY CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "DigiCert TLS ECC P384 Root G5"

# Issuer: CN=DigiCert TLS ECC P384 Root G5,O="DigiCert, Inc.",C=US

# Serial Number:09:e0:93:65:ac:f7:d9:c8:b9:3e:1c:0b:04:2a:2e:f3

# Subject: CN=DigiCert TLS ECC P384 Root G5,O="DigiCert, Inc.",C=US

# Not Valid Before: Fri Jan 15 00:00:00 2021

# Not Valid After : Sun Jan 14 23:59:59 2046

# Fingerprint (SHA-256):

01:8E:13:F0:77:25:32:CF:80:9B:D1:B1:72:81:86:72:83:FC:48:C6:E1:3B:E9:C6:98:12:85:4A:49:0C:1B:05

# Fingerprint (SHA1): 17:F3:DE:5E:9F:0F:19:E9:8E:F6:1F:32:26:6E:20:C4:07:AE:30:EE

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "DigiCert TLS ECC P384 Root G5"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

\027\363\336\136\237\017\031\351\216\366\037\062\046\156\040\304  
\007\256\060\356

END

```

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\323\161\004\152\103\034\333\246\131\341\250\243\252\305\161\355
END
CKA_ISSUER MULTILINE_OCTAL
\060\116\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\027\060\025\006\003\125\004\012\023\016\104\151\147\151\103\145
\162\164\054\040\111\156\143\056\061\046\060\044\006\003\125\004
\003\023\035\104\151\147\151\103\145\162\164\040\124\114\123\040
\105\103\103\040\120\063\070\064\040\122\157\157\164\040\107\065
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\011\340\223\145\254\367\331\310\271\076\034\013\004\052
\056\363
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "DigiCert TLS RSA4096 Root G5"
#
Issuer: CN=DigiCert TLS RSA4096 Root G5,O="DigiCert, Inc.",C=US
Serial Number:08:f9:b4:78:a8:fa:7e:da:6a:33:37:89:de:7c:cf:8a
Subject: CN=DigiCert TLS RSA4096 Root G5,O="DigiCert, Inc.",C=US
Not Valid Before: Fri Jan 15 00:00:00 2021
Not Valid After : Sun Jan 14 23:59:59 2046
Fingerprint (SHA-256):
37:1A:00:DC:05:33:B3:72:1A:7E:EB:40:E8:41:9E:70:79:9D:2B:0A:0F:2C:1D:80:69:31:65:F7:CE:C4:AD:75
Fingerprint (SHA1): A7:88:49:DC:5D:7C:75:8C:8C:DE:39:98:56:B3:AA:D0:B2:A5:71:35
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert TLS RSA4096 Root G5"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\115\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\027\060\025\006\003\125\004\012\023\016\104\151\147\151\103\145
\162\164\054\040\111\156\143\056\061\045\060\043\006\003\125\004
\003\023\034\104\151\147\151\103\145\162\164\040\124\114\123\040
\122\123\101\064\060\071\066\040\122\157\157\164\040\107\065
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\115\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\027\060\025\006\003\125\004\012\023\016\104\151\147\151\103\145
\162\164\054\040\111\156\143\056\061\045\060\043\006\003\125\004

```

\003\023\034\104\151\147\151\103\145\162\164\040\124\114\123\040  
\122\123\101\064\060\071\066\040\122\157\157\164\040\107\065

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

\002\020\010\371\264\170\250\372\176\332\152\063\067\211\336\174  
\317\212

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\005\146\060\202\003\116\240\003\002\001\002\002\020\010  
\371\264\170\250\372\176\332\152\063\067\211\336\174\317\212\060  
\015\006\011\052\206\110\206\367\015\001\001\014\005\000\060\115  
\061\013\060\011\006\003\125\004\006\023\002\125\123\061\027\060  
\025\006\003\125\004\012\023\016\104\151\147\151\103\145\162\164  
\054\040\111\156\143\056\061\045\060\043\006\003\125\004\003\023  
\034\104\151\147\151\103\145\162\164\040\124\114\123\040\122\123  
\101\064\060\071\066\040\122\157\157\164\040\107\065\060\036\027  
\015\062\061\060\061\061\065\060\060\060\060\060\060\132\027\015  
\064\066\060\061\061\064\062\063\065\071\065\071\132\060\115\061  
\013\060\011\006\003\125\004\006\023\002\125\123\061\027\060\025  
\006\003\125\004\012\023\016\104\151\147\151\103\145\162\164\054  
\040\111\156\143\056\061\045\060\043\006\003\125\004\003\023\034  
\104\151\147\151\103\145\162\164\040\124\114\123\040\122\123\101  
\064\060\071\066\040\122\157\157\164\040\107\065\060\202\002\042  
\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003  
\202\002\017\000\060\202\002\012\002\202\002\001\000\263\320\364  
\311\171\021\235\375\374\146\201\347\314\325\344\274\354\201\076  
\152\065\216\056\267\347\336\257\371\007\115\317\060\235\352\011  
\013\231\275\154\127\332\030\112\270\170\254\072\071\250\246\110  
\254\056\162\345\275\353\361\032\315\347\244\003\251\077\021\264  
\330\057\211\026\373\224\001\075\273\057\370\023\005\241\170\034  
\216\050\340\105\340\203\364\131\033\225\263\256\176\003\105\345  
\276\302\102\376\356\362\074\266\205\023\230\062\235\026\250\051  
\302\013\034\070\334\237\061\167\134\277\047\243\374\047\254\267  
\053\275\164\233\027\055\362\201\332\135\260\341\043\027\076\210  
\112\022\043\320\352\317\235\336\003\027\261\102\112\240\026\114  
\244\155\223\351\077\072\356\072\174\235\130\235\364\116\217\374  
\073\043\310\155\270\342\005\332\314\353\354\303\061\364\327\247  
\051\124\200\317\104\133\114\157\060\236\363\314\335\037\224\103  
\235\115\177\160\160\015\324\072\321\067\360\154\235\233\300\024  
\223\130\357\315\101\070\165\274\023\003\225\174\177\343\134\351  
\325\015\325\342\174\020\142\252\153\360\075\166\363\077\243\350  
\260\301\375\357\252\127\115\254\206\247\030\264\051\301\054\016  
\277\144\276\051\214\330\002\055\315\134\057\362\177\357\025\364  
\014\025\254\012\260\361\323\015\117\152\115\167\227\001\240\361  
\146\267\267\316\357\316\354\354\245\165\312\254\343\341\143\367  
\270\241\004\310\274\173\077\135\055\026\042\126\355\110\111\376  
\247\057\171\060\045\233\272\153\055\077\235\073\304\027\347\035  
\056\373\362\317\246\374\343\024\054\226\230\041\214\264\221\351

\031\140\203\362\060\053\006\163\120\325\230\073\006\351\307\212  
\014\140\214\050\370\122\233\156\341\366\115\273\006\044\233\327  
\053\046\077\375\052\057\161\365\326\044\276\177\061\236\017\155  
\350\217\117\115\243\077\377\065\352\337\111\136\101\217\206\371  
\361\167\171\113\033\264\243\136\057\373\106\002\320\146\023\136  
\136\205\117\316\330\160\210\173\316\001\265\226\227\327\315\175  
\375\202\370\302\044\301\312\001\071\117\215\242\301\024\100\037  
\234\146\325\014\011\106\326\362\320\321\110\166\126\072\103\313  
\266\012\021\071\272\214\023\154\006\265\236\317\353\002\003\001  
\000\001\243\102\060\100\060\035\006\003\125\035\016\004\026\004  
\024\121\063\034\355\066\100\257\027\323\045\315\151\150\362\257  
\116\043\076\263\101\060\016\006\003\125\035\017\001\001\377\004  
\004\003\002\001\206\060\017\006\003\125\035\023\001\001\377\004  
\005\060\003\001\001\377\060\015\006\011\052\206\110\206\367\015  
\001\001\014\005\000\003\202\002\001\000\140\246\257\133\137\127  
\332\211\333\113\120\251\304\043\065\041\377\320\141\060\204\221  
\267\077\020\317\045\216\311\277\106\064\331\301\041\046\034\160  
\031\162\036\243\311\207\376\251\103\144\226\072\310\123\004\012  
\266\101\273\304\107\000\331\237\030\030\073\262\016\363\064\352  
\044\367\335\257\040\140\256\222\050\137\066\347\135\344\336\307  
\074\333\120\071\255\273\075\050\115\226\174\166\306\133\364\301  
\333\024\245\253\031\142\007\030\100\137\227\221\334\234\307\253  
\265\121\015\346\151\123\125\314\071\175\332\305\021\125\162\305  
\073\213\211\370\064\055\244\027\345\027\346\231\175\060\210\041  
\067\315\060\027\075\270\362\274\250\165\240\103\334\076\211\113  
\220\256\155\003\340\034\243\240\226\011\273\175\243\267\052\020  
\104\113\106\007\064\143\355\061\271\004\356\243\233\232\256\346  
\061\170\364\352\044\141\073\253\130\144\377\273\207\047\142\045  
\201\337\334\241\057\366\355\247\377\172\217\121\056\060\370\244  
\001\322\205\071\137\001\231\226\157\132\133\160\031\106\376\206  
\140\076\255\200\020\011\335\071\045\057\130\177\273\322\164\360  
\367\106\037\106\071\112\330\123\320\363\056\073\161\245\324\157  
\374\363\147\344\007\217\335\046\031\341\215\133\372\243\223\021  
\233\351\310\072\303\125\150\232\222\341\122\166\070\350\341\272  
\275\373\117\325\357\263\347\110\203\061\360\202\041\343\266\276  
\247\253\157\357\237\337\114\317\001\270\142\152\043\075\347\011  
\115\200\033\173\060\244\303\335\007\177\064\276\244\046\262\366  
\101\350\011\035\343\040\230\252\067\117\377\367\361\342\051\160  
\061\107\077\164\320\024\026\372\041\212\002\325\212\011\224\167  
\056\362\131\050\213\174\120\222\012\146\170\070\203\165\304\265  
\132\250\021\306\345\301\235\146\125\317\123\304\257\327\165\205  
\251\102\023\126\354\041\167\201\223\132\014\352\226\331\111\312  
\241\010\362\227\073\155\233\004\030\044\104\216\174\001\362\334  
\045\330\136\206\232\261\071\333\365\221\062\152\321\246\160\212  
\242\367\336\244\105\205\046\250\036\214\135\051\133\310\113\330  
\232\152\003\136\160\362\205\117\154\113\150\057\312\124\366\214  
\332\062\376\303\153\203\077\070\306\176

END

CKA\_NSS\_MOZILLA\_CA\_POLICY CK\_BBOOL CK\_TRUE  
CKA\_NSS\_SERVER\_DISTRUST\_AFTER CK\_BBOOL CK\_FALSE  
CKA\_NSS\_EMAIL\_DISTRUST\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "DigiCert TLS RSA4096 Root G5"

# Issuer: CN=DigiCert TLS RSA4096 Root G5,O="DigiCert, Inc.",C=US

# Serial Number:08:f9:b4:78:a8:fa:7e:da:6a:33:37:89:de:7c:cf:8a

# Subject: CN=DigiCert TLS RSA4096 Root G5,O="DigiCert, Inc.",C=US

# Not Valid Before: Fri Jan 15 00:00:00 2021

# Not Valid After : Sun Jan 14 23:59:59 2046

# Fingerprint (SHA-256):

37:1A:00:DC:05:33:B3:72:1A:7E:EB:40:E8:41:9E:70:79:9D:2B:0A:0F:2C:1D:80:69:31:65:F7:CE:C4:AD:75

# Fingerprint (SHA1): A7:88:49:DC:5D:7C:75:8C:8C:DE:39:98:56:B3:AA:D0:B2:A5:71:35

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "DigiCert TLS RSA4096 Root G5"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

\247\210\111\334\135\174\165\214\214\336\071\230\126\263\252\320  
\262\245\161\065

END

CKA\_CERT\_MD5\_HASH MULTILINE\_OCTAL

\254\376\367\064\226\251\362\263\264\022\113\344\047\101\157\341

END

CKA\_ISSUER MULTILINE\_OCTAL

\060\115\061\013\060\011\006\003\125\004\006\023\002\125\123\061  
\027\060\025\006\003\125\004\012\023\016\104\151\147\151\103\145  
\162\164\054\040\111\156\143\056\061\045\060\043\006\003\125\004  
\003\023\034\104\151\147\151\103\145\162\164\040\124\114\123\040  
\122\123\101\064\060\071\066\040\122\157\157\164\040\107\065

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

\002\020\010\371\264\170\250\372\176\332\152\063\067\211\336\174  
\317\212

END

CKA\_TRUST\_SERVER\_AUTH CK\_TRUST CKT\_NSS\_TRUSTED\_DELEGATOR

CKA\_TRUST\_EMAIL\_PROTECTION CK\_TRUST CKT\_NSS\_MUST\_VERIFY\_TRUST

CKA\_TRUST\_CODE\_SIGNING CK\_TRUST CKT\_NSS\_MUST\_VERIFY\_TRUST

CKA\_TRUST\_STEP\_UP\_APPROVED CK\_BBOOL CK\_FALSE

#

# Certificate "DigiCert SMIME ECC P384 Root G5"

#

# Issuer: CN=DigiCert SMIME ECC P384 Root G5,O="DigiCert, Inc.",C=US

# Serial Number:05:3f:6e:a0:06:01:72:7d:ed:3f:c3:a3:b6:a3:d6:ef

# Subject: CN=DigiCert SMIME ECC P384 Root G5,O="DigiCert, Inc.",C=US

# Not Valid Before: Fri Jan 15 00:00:00 2021



# Not Valid After : Sun Jan 14 23:59:59 2046

# Fingerprint (SHA-256):

E8:E8:17:65:36:A6:0C:C2:C4:E1:01:87:C3:BE:FC:A2:0E:F2:63:49:70:18:F5:66:D5:BE:A0:F9:4D:0C:11:1B

# Fingerprint (SHA1): 1C:B8:A7:08:C9:0D:20:79:01:A0:B2:36:7F:F0:95:65:E4:53:24:FE

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_CERTIFICATE

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "DigiCert SMIME ECC P384 Root G5"

CKA\_CERTIFICATE\_TYPE CK\_CERTIFICATE\_TYPE CKC\_X\_509

CKA\_SUBJECT MULTILINE\_OCTAL

\060\120\061\013\060\011\006\003\125\004\006\023\002\125\123\061  
\027\060\025\006\003\125\004\012\023\016\104\151\147\151\103\145  
\162\164\054\040\111\156\143\056\061\050\060\046\006\003\125\004  
\003\023\037\104\151\147\151\103\145\162\164\040\123\115\111\115  
\105\040\105\103\103\040\120\063\070\064\040\122\157\157\164\040  
\107\065

END

CKA\_ID UTF8 "0"

CKA\_ISSUER MULTILINE\_OCTAL

\060\120\061\013\060\011\006\003\125\004\006\023\002\125\123\061  
\027\060\025\006\003\125\004\012\023\016\104\151\147\151\103\145  
\162\164\054\040\111\156\143\056\061\050\060\046\006\003\125\004  
\003\023\037\104\151\147\151\103\145\162\164\040\123\115\111\115  
\105\040\105\103\103\040\120\063\070\064\040\122\157\157\164\040  
\107\065

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

\002\020\005\077\156\240\006\001\162\175\355\077\303\243\266\243  
\326\357

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\002\034\060\202\001\243\240\003\002\001\002\002\020\005  
\077\156\240\006\001\162\175\355\077\303\243\266\243\326\357\060  
\012\006\010\052\206\110\316\075\004\003\003\060\120\061\013\060  
\011\006\003\125\004\006\023\002\125\123\061\027\060\025\006\003  
\125\004\012\023\016\104\151\147\151\103\145\162\164\054\040\111  
\156\143\056\061\050\060\046\006\003\125\004\003\023\037\104\151  
\147\151\103\145\162\164\040\123\115\111\115\105\040\105\103\103  
\040\120\063\070\064\040\122\157\157\164\040\107\065\060\036\027  
\015\062\061\060\061\061\065\060\060\060\060\060\060\132\027\015  
\064\066\060\061\061\064\062\063\065\071\065\071\132\060\120\061  
\013\060\011\006\003\125\004\006\023\002\125\123\061\027\060\025  
\006\003\125\004\012\023\016\104\151\147\151\103\145\162\164\054  
\040\111\156\143\056\061\050\060\046\006\003\125\004\003\023\037  
\104\151\147\151\103\145\162\164\040\123\115\111\115\105\040\105  
\103\103\040\120\063\070\064\040\122\157\157\164\040\107\065\060  
\166\060\020\006\007\052\206\110\316\075\002\001\006\005\053\201

```
\004\000\042\003\142\000\004\026\235\125\345\266\324\373\373\147
\153\032\324\241\252\322\167\225\076\210\345\007\237\266\160\146
\040\050\244\210\354\160\065\257\263\062\377\067\023\112\236\274
\001\003\336\204\301\270\306\346\145\107\211\362\023\125\277\315
\245\036\010\140\177\255\177\350\141\222\051\317\011\107\136\013
\034\300\037\244\277\362\133\274\230\357\231\114\314\160\153\266
\272\320\050\035\277\276\004\243\102\060\100\060\035\006\003\125
\035\016\004\026\004\024\163\172\153\226\333\102\007\213\122\146
\302\144\062\027\376\340\147\220\056\255\060\016\006\003\125\035
\017\001\001\377\004\004\003\002\001\206\060\017\006\003\125\035
\023\001\001\377\004\005\060\003\001\001\377\060\012\006\010\052
\206\110\316\075\004\003\003\003\147\000\060\144\002\060\067\104
\365\062\200\343\161\353\364\155\317\174\314\221\232\303\156\161
\330\322\043\135\222\115\202\102\155\134\141\225\366\221\365\247
\010\366\152\227\351\234\224\055\230\160\375\063\266\011\002\060
\007\074\057\271\130\202\136\017\243\142\250\223\147\360\040\303
\151\277\003\054\073\120\247\073\257\101\070\311\122\110\221\326
\016\373\274\140\060\174\144\077\022\036\105\177\121\076\364\246
END
```

```
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRICT_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRICT_AFTER CK_BBOOL CK_FALSE
```

```
Trust for "DigiCert SMIME ECC P384 Root G5"
Issuer: CN=DigiCert SMIME ECC P384 Root G5,O="DigiCert, Inc.",C=US
Serial Number:05:3f:6e:a0:06:01:72:7d:ed:3f:c3:a3:b6:a3:d6:ef
Subject: CN=DigiCert SMIME ECC P384 Root G5,O="DigiCert, Inc.",C=US
Not Valid Before: Fri Jan 15 00:00:00 2021
Not Valid After : Sun Jan 14 23:59:59 2046
Fingerprint (SHA-256):
E8:E8:17:65:36:A6:0C:C2:C4:E1:01:87:C3:BE:FC:A2:0E:F2:63:49:70:18:F5:66:D5:BE:A0:F9:4D:0C:11:1B
Fingerprint (SHA1): 1C:B8:A7:08:C9:0D:20:79:01:A0:B2:36:7F:F0:95:65:E4:53:24:FE
```

```
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert SMIME ECC P384 Root G5"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\034\270\247\010\311\015\040\171\001\240\262\066\177\360\225\145
\344\123\044\376
END
```

```
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\246\376\364\122\066\104\330\356\015\267\003\013\357\164\263\003
END
```

```
CKA_ISSUER MULTILINE_OCTAL
\060\120\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\027\060\025\006\003\125\004\012\023\016\104\151\147\151\103\145
\162\164\054\040\111\156\143\056\061\050\060\046\006\003\125\004
```

\003\023\037\104\151\147\151\103\145\162\164\040\123\115\111\115  
\105\040\105\103\103\040\120\063\070\064\040\122\157\157\164\040  
\107\065

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

\002\020\005\077\156\240\006\001\162\175\355\077\303\243\266\243  
\326\357

END

CKA\_TRUST\_SERVER\_AUTH CK\_TRUST CKT\_NSS\_MUST\_VERIFY\_TRUST  
CKA\_TRUST\_EMAIL\_PROTECTION CK\_TRUST CKT\_NSS\_TRUSTED\_DELEGATOR  
CKA\_TRUST\_CODE\_SIGNING CK\_TRUST CKT\_NSS\_MUST\_VERIFY\_TRUST  
CKA\_TRUST\_STEP\_UP\_APPROVED CK\_BBOOL CK\_FALSE

#

# Certificate "DigiCert SMIME RSA4096 Root G5"

#

# Issuer: CN=DigiCert SMIME RSA4096 Root G5,O="DigiCert, Inc.",C=US

# Serial Number:05:f6:ba:04:23:83:46:cb:7d:5c:e6:b9:5b:ba:1c:55

# Subject: CN=DigiCert SMIME RSA4096 Root G5,O="DigiCert, Inc.",C=US

# Not Valid Before: Fri Jan 15 00:00:00 2021

# Not Valid After : Sun Jan 14 23:59:59 2046

# Fingerprint (SHA-256):

90:37:0D:3E:FA:88:BF:58:C3:01:05:BA:25:10:4A:35:84:60:A7:FA:52:DF:C2:01:1D:F2:33:A0:F4:17:91:2A

# Fingerprint (SHA1): 5B:C5:AD:E2:9A:A7:54:DA:84:89:53:A5:FE:D7:5B:46:86:D0:57:08

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_CERTIFICATE

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "DigiCert SMIME RSA4096 Root G5"

CKA\_CERTIFICATE\_TYPE CK\_CERTIFICATE\_TYPE CKC\_X\_509

CKA\_SUBJECT MULTILINE\_OCTAL

\060\117\061\013\060\011\006\003\125\004\006\023\002\125\123\061  
\027\060\025\006\003\125\004\012\023\016\104\151\147\151\103\145  
\162\164\054\040\111\156\143\056\061\047\060\045\006\003\125\004  
\003\023\036\104\151\147\151\103\145\162\164\040\123\115\111\115  
\105\040\122\123\101\064\060\071\066\040\122\157\157\164\040\107  
\065

END

CKA\_ID UTF8 "0"

CKA\_ISSUER MULTILINE\_OCTAL

\060\117\061\013\060\011\006\003\125\004\006\023\002\125\123\061  
\027\060\025\006\003\125\004\012\023\016\104\151\147\151\103\145  
\162\164\054\040\111\156\143\056\061\047\060\045\006\003\125\004  
\003\023\036\104\151\147\151\103\145\162\164\040\123\115\111\115  
\105\040\122\123\101\064\060\071\066\040\122\157\157\164\040\107  
\065

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

\002\020\005\366\272\004\043\203\106\313\175\134\346\271\133\272  
\034\125

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\005\152\060\202\003\122\240\003\002\001\002\002\020\005  
\366\272\004\043\203\106\313\175\134\346\271\133\272\034\125\060  
\015\006\011\052\206\110\206\367\015\001\001\014\005\000\060\117  
\061\013\060\011\006\003\125\004\006\023\002\125\123\061\027\060  
\025\006\003\125\004\012\023\016\104\151\147\151\103\145\162\164  
\054\040\111\156\143\056\061\047\060\045\006\003\125\004\003\023  
\036\104\151\147\151\103\145\162\164\040\123\115\111\115\105\040  
\122\123\101\064\060\071\066\040\122\157\157\164\040\107\065\060  
\036\027\015\062\061\060\061\061\065\060\060\060\060\060\132  
\027\015\064\066\060\061\061\064\062\063\065\071\065\071\132\060  
\117\061\013\060\011\006\003\125\004\006\023\002\125\123\061\027  
\060\025\006\003\125\004\012\023\016\104\151\147\151\103\145\162  
\164\054\040\111\156\143\056\061\047\060\045\006\003\125\004\003  
\023\036\104\151\147\151\103\145\162\164\040\123\115\111\115\105  
\040\122\123\101\064\060\071\066\040\122\157\157\164\040\107\065  
\060\202\002\042\060\015\006\011\052\206\110\206\367\015\001\001  
\001\005\000\003\202\002\017\000\060\202\002\012\002\202\002\001  
\000\340\152\133\331\370\371\175\354\265\173\357\137\335\134\064  
\330\332\135\321\313\145\165\253\041\174\133\000\324\202\157\105  
\205\101\212\251\022\002\162\062\360\024\365\003\165\273\143\227  
\111\017\100\231\013\032\036\126\247\322\320\341\253\335\345\004  
\033\343\037\024\022\002\210\365\240\200\011\366\047\232\120\360  
\272\343\242\340\254\152\024\221\265\153\070\020\172\242\061\341  
\221\033\267\271\360\053\133\310\167\011\166\267\121\304\066\012  
\231\123\124\104\045\267\011\065\206\027\005\126\223\075\101\267  
\002\327\142\037\212\222\021\207\352\021\155\352\010\021\334\261  
\170\110\111\222\366\264\121\200\170\043\330\376\341\126\032\072  
\220\023\126\064\211\325\342\225\213\137\336\262\314\373\077\070  
\267\205\367\352\236\277\056\241\056\057\115\175\152\021\056\066  
\240\377\021\010\004\225\125\340\033\073\147\223\251\224\125\352  
\062\355\006\072\177\302\177\343\255\023\047\321\064\101\263\060  
\303\277\264\210\370\003\202\244\337\076\253\170\167\240\131\223  
\161\347\335\353\000\004\173\314\110\071\050\340\036\243\025\151  
\310\066\262\241\013\227\337\125\326\357\221\234\244\366\026\367  
\121\012\356\003\043\221\334\004\377\340\335\070\366\042\003\000  
\302\007\161\032\022\311\327\106\052\224\033\315\326\273\033\356  
\277\276\115\120\130\260\013\315\060\166\051\365\317\345\266\152  
\057\166\260\260\151\152\320\155\145\030\065\176\223\274\162\027  
\301\125\102\315\057\302\045\273\364\375\035\241\144\042\124\135  
\342\236\162\101\204\156\161\226\352\105\007\266\136\172\112\206  
\235\163\144\167\070\003\322\017\123\245\125\040\304\115\377\150  
\157\125\251\352\335\161\344\117\331\205\243\174\116\051\002\236  
\013\011\362\032\123\314\000\246\335\321\064\366\015\301\060\261  
\234\002\144\254\065\355\245\260\051\261\322\225\063\017\322\040

\063\275\354\043\113\362\031\371\332\230\144\344\054\061\037\056  
\341\215\034\004\225\050\115\214\130\315\113\345\163\202\206\214  
\354\250\326\171\134\373\144\273\334\014\114\050\366\027\257\342  
\150\326\026\206\230\333\374\001\334\061\272\370\234\016\371\050  
\106\112\341\375\226\006\105\171\021\150\027\145\134\213\046\207  
\133\002\003\001\000\001\243\102\060\100\060\035\006\003\125\035  
\016\004\026\004\024\321\243\324\127\035\117\125\333\165\114\134  
\102\236\143\026\316\264\306\073\037\060\016\006\003\125\035\017  
\001\001\377\004\004\003\002\001\206\060\017\006\003\125\035\023  
\001\001\377\004\005\060\003\001\001\377\060\015\006\011\052\206  
\110\206\367\015\001\001\014\005\000\003\202\002\001\000\007\247  
\012\336\123\273\232\353\160\277\262\066\220\315\344\247\270\361  
\014\344\135\132\035\170\145\374\311\270\036\043\021\127\174\151  
\065\155\001\377\123\120\277\007\016\272\307\001\077\130\052\224  
\165\003\253\034\013\043\334\033\212\036\067\075\035\130\217\163  
\331\263\052\157\337\020\240\133\014\247\312\260\177\271\044\242  
\001\065\062\345\136\106\101\353\330\177\163\347\102\351\244\121  
\046\167\201\012\250\353\017\012\120\235\176\212\040\147\374\013  
\216\072\021\323\305\214\140\030\331\113\261\374\324\361\264\111  
\116\256\207\341\321\373\166\241\137\363\006\317\227\226\014\351  
\236\165\201\134\123\015\042\374\066\346\111\156\164\333\000\205  
\215\174\042\240\216\373\020\114\324\142\023\133\357\113\162\046  
\213\374\116\212\217\376\227\020\123\305\170\213\102\144\033\137  
\340\211\375\273\011\177\120\340\124\205\046\021\152\035\145\371  
\111\051\334\174\066\337\373\075\367\322\254\356\062\215\156\246  
\175\071\234\105\304\312\015\365\073\264\171\123\245\057\126\307  
\121\305\212\114\144\135\220\103\043\216\153\114\027\170\314\350  
\277\365\073\344\250\110\317\255\233\014\337\062\112\323\331\022  
\216\043\170\015\055\257\237\257\236\074\011\302\227\000\355\072  
\151\034\161\077\071\337\323\217\304\146\365\357\066\224\017\363  
\335\222\266\226\137\220\246\335\163\252\246\040\224\224\045\152  
\011\014\162\344\023\043\140\114\243\312\027\056\173\147\000\333  
\320\315\352\172\037\071\046\127\211\060\167\313\116\345\225\105  
\117\137\373\066\134\075\371\040\265\072\020\045\117\223\062\132  
\356\301\226\350\351\126\004\260\111\141\115\354\170\250\235\030  
\301\377\330\352\057\126\357\225\053\173\004\136\147\343\125\100  
\355\071\004\371\013\171\365\152\214\134\017\211\232\220\307\315  
\213\336\333\046\065\241\156\315\263\102\362\242\017\073\014\216  
\223\377\024\317\374\367\223\367\344\101\010\156\031\122\021\017  
\123\031\163\170\014\317\330\205\201\370\255\125\310\260\236\106  
\143\257\234\122\356\134\277\360\300\133\067\036\011\040\322\076  
\043\306\241\025\112\016\066\176\060\305\171\152\274\042\210\331  
\014\122\100\037\335\116\017\147\046\026\322\255\027\034

END

CKA\_NSS\_MOZILLA\_CA\_POLICY CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

```

Trust for "DigiCert SMIME RSA4096 Root G5"
Issuer: CN=DigiCert SMIME RSA4096 Root G5,O="DigiCert, Inc.",C=US
Serial Number:05:f6:ba:04:23:83:46:cb:7d:5c:e6:b9:5b:ba:1c:55
Subject: CN=DigiCert SMIME RSA4096 Root G5,O="DigiCert, Inc.",C=US
Not Valid Before: Fri Jan 15 00:00:00 2021
Not Valid After : Sun Jan 14 23:59:59 2046
Fingerprint (SHA-256):
90:37:0D:3E:FA:88:BF:58:C3:01:05:BA:25:10:4A:35:84:60:A7:FA:52:DF:C2:01:1D:F2:33:A0:F4:17:91:2A
Fingerprint (SHA1): 5B:C5:AD:E2:9A:A7:54:DA:84:89:53:A5:FE:D7:5B:46:86:D0:57:08
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert SMIME RSA4096 Root G5"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\133\305\255\342\232\247\124\332\204\211\123\245\376\327\133\106
\206\320\127\010
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\321\173\340\265\077\065\162\237\175\276\013\245\244\035\251\156
END
CKA_ISSUER MULTILINE_OCTAL
\060\117\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\027\060\025\006\003\125\004\012\023\016\104\151\147\151\103\145
\162\164\054\040\111\156\143\056\061\047\060\045\006\003\125\004
\003\023\036\104\151\147\151\103\145\162\164\040\123\115\111\115
\105\040\122\123\101\064\060\071\066\040\122\157\157\164\040\107
\065
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\005\366\272\004\043\203\106\313\175\134\346\271\133\272
\034\125
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Certainly Root R1"
#
Issuer: CN=Certainly Root R1,O=Certainly,C=US
Serial Number:00:8e:0f:f9:4b:90:71:68:65:33:54:f4:d4:44:39:b7:e0
Subject: CN=Certainly Root R1,O=Certainly,C=US
Not Valid Before: Thu Apr 01 00:00:00 2021
Not Valid After : Sun Apr 01 00:00:00 2046
Fingerprint (SHA-256):
77:B8:2C:D8:64:4C:43:05:F7:AC:C5:CB:15:6B:45:67:50:04:03:3D:51:C6:0C:62:02:A8:E0:C3:34:67:D3:A0

```

# Fingerprint (SHA1): A0:50:EE:0F:28:71:F4:27:B2:12:6D:6F:50:96:25:BA:CC:86:42:AF

```
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certainly Root R1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\075\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\022\060\020\006\003\125\004\012\023\011\103\145\162\164\141\151
\156\154\171\061\032\060\030\006\003\125\004\003\023\021\103\145
\162\164\141\151\156\154\171\040\122\157\157\164\040\122\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\075\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\022\060\020\006\003\125\004\012\023\011\103\145\162\164\141\151
\156\154\171\061\032\060\030\006\003\125\004\003\023\021\103\145
\162\164\141\151\156\154\171\040\122\157\157\164\040\122\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\021\000\216\017\371\113\220\161\150\145\063\124\364\324\104
\071\267\340
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\107\060\202\003\057\240\003\002\001\002\002\021\000
\216\017\371\113\220\161\150\145\063\124\364\324\104\071\267\340
\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060
\075\061\013\060\011\006\003\125\004\006\023\002\125\123\061\022
\060\020\006\003\125\004\012\023\011\103\145\162\164\141\151\156
\154\171\061\032\060\030\006\003\125\004\003\023\021\103\145\162
\164\141\151\156\154\171\040\122\157\157\164\040\122\061\060\036
\027\015\062\061\060\064\060\061\060\060\060\060\060\132\027
\015\064\066\060\064\060\061\060\060\060\060\060\132\060\075
\061\013\060\011\006\003\125\004\006\023\002\125\123\061\022\060
\020\006\003\125\004\012\023\011\103\145\162\164\141\151\156\154
\171\061\032\060\030\006\003\125\004\003\023\021\103\145\162\164
\141\151\156\154\171\040\122\157\157\164\040\122\061\060\202\002
\042\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000
\003\202\002\017\000\060\202\002\012\002\202\002\001\000\320\066
\324\037\352\335\253\344\321\266\346\373\042\300\335\023\015\152
\173\042\023\034\227\074\150\143\146\062\234\003\265\215\244\201
\203\332\170\060\021\317\334\262\053\276\222\277\216\344\304\023
\276\244\150\114\332\002\150\026\164\276\262\335\004\344\153\052
\335\067\037\140\054\333\365\367\241\174\225\267\014\160\206\056
\361\072\357\122\367\314\323\233\371\213\276\016\337\061\267\235
\150\134\222\246\365\345\363\012\064\265\377\173\242\344\207\241
\306\257\027\000\357\003\221\355\251\034\116\161\075\322\213\154
```

\211\364\170\206\346\152\111\240\316\265\322\260\253\233\366\364  
\324\056\343\162\371\066\306\353\025\267\045\214\072\374\045\015  
\263\042\163\041\164\310\112\226\141\222\365\057\013\030\245\364  
\255\342\356\101\275\001\171\372\226\214\215\027\002\060\264\371  
\257\170\032\214\264\066\020\020\007\005\160\320\364\061\220\212  
\121\305\206\046\171\262\021\210\136\305\360\012\124\315\111\246  
\277\002\234\322\104\247\355\343\170\357\106\136\155\161\321\171  
\160\034\106\137\121\351\311\067\334\137\176\151\173\101\337\064  
\105\340\073\204\364\241\212\012\066\236\067\314\142\122\341\211  
\015\050\371\172\043\261\015\075\075\232\375\235\201\357\054\220  
\300\173\104\116\273\111\340\016\112\126\222\274\313\265\335\171  
\027\211\221\336\141\211\164\222\250\343\062\205\276\116\205\244  
\113\131\313\053\305\170\216\161\124\320\002\067\231\214\345\111  
\352\340\124\162\244\021\006\057\013\214\301\133\276\265\241\260  
\123\156\234\270\140\221\037\131\153\371\055\364\224\012\227\265  
\354\305\166\003\124\033\145\122\272\114\222\126\121\065\240\100  
\330\051\333\256\122\166\073\055\060\100\233\212\320\102\126\264  
\267\210\001\244\207\073\123\226\315\243\026\217\363\146\252\027  
\261\307\140\340\301\103\005\014\356\233\133\140\157\006\134\207  
\133\047\371\100\021\236\234\063\301\267\345\065\127\005\177\047  
\316\027\040\214\034\374\361\373\332\061\051\111\355\365\013\204  
\247\117\301\366\116\302\050\234\372\356\340\257\007\373\063\021  
\172\041\117\013\041\020\266\100\072\253\042\072\004\234\213\233  
\204\206\162\232\322\247\245\304\264\165\221\251\053\043\002\003  
\001\000\001\243\102\060\100\060\016\006\003\125\035\017\001\001  
\377\004\004\003\002\001\006\060\017\006\003\125\035\023\001\001  
\377\004\005\060\003\001\001\377\060\035\006\003\125\035\016\004  
\026\004\024\340\252\077\045\215\237\104\134\301\072\350\056\256  
\167\114\204\076\147\014\364\060\015\006\011\052\206\110\206\367  
\015\001\001\013\005\000\003\202\002\001\000\271\127\257\270\022  
\332\127\203\217\150\013\063\035\003\123\125\364\225\160\344\053  
\075\260\071\353\372\211\142\375\367\326\030\004\057\041\064\335  
\361\150\360\325\226\132\336\302\200\243\301\215\306\152\367\131  
\167\256\025\144\317\133\171\005\167\146\352\214\323\153\015\335  
\361\131\054\301\063\245\060\200\025\105\007\105\032\061\042\266  
\222\000\253\231\115\072\217\167\257\251\042\312\057\143\312\025  
\326\307\306\360\075\154\374\034\015\230\020\141\236\021\242\042  
\327\012\362\221\172\153\071\016\057\060\303\066\111\237\340\351  
\017\002\104\120\067\224\125\175\352\237\366\073\272\224\245\114  
\351\274\076\121\264\350\312\222\066\124\155\134\045\050\332\335  
\255\024\375\323\356\342\042\005\353\320\362\267\150\022\327\132  
\212\101\032\306\222\245\132\073\143\105\117\277\341\072\167\042  
\057\134\277\106\371\132\003\205\023\102\137\312\336\123\327\142  
\265\246\065\004\302\107\377\231\375\204\337\134\316\351\136\200  
\050\101\362\175\347\036\220\330\117\166\076\202\074\015\374\245  
\003\372\173\032\331\105\036\140\332\304\216\371\374\053\311\173  
\225\305\052\377\252\211\337\202\061\017\162\377\014\047\327\012  
\036\126\000\120\036\014\220\301\226\265\330\024\205\273\247\015



```
\026\301\370\007\044\033\272\205\241\032\005\011\200\272\225\143
\311\072\354\045\237\177\235\272\244\107\025\233\104\160\361\152
\113\326\070\136\103\363\030\176\120\156\351\132\050\346\145\346
\167\033\072\375\035\276\003\046\243\333\324\341\273\176\226\047
\053\035\356\244\373\332\045\124\023\003\336\071\306\303\037\115
\220\354\217\033\112\322\034\355\205\225\070\120\171\106\326\301
\220\120\061\251\134\232\156\035\365\063\126\213\247\231\322\362
\310\054\063\223\222\060\307\116\214\145\063\020\144\027\375\044
\027\226\321\215\302\072\152\053\353\023\213\104\362\041\363\112
\032\267\167\137\327\355\210\244\162\345\071\037\225\235\276\147
\301\160\021\075\273\364\370\111\267\343\046\227\072\237\322\137
\174\373\300\231\174\071\051\340\173\035\277\015\247\217\322\051
\064\156\044\025\313\336\220\136\277\032\304\146\352\302\346\272
\071\137\212\231\251\101\131\007\260\054\257
```

END

```
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRICT_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRICT_AFTER CK_BBOOL CK_FALSE
```

```
Trust for "Certainly Root R1"
```

```
Issuer: CN=Certainly Root R1,O=Certainly,C=US
```

```
Serial Number:00:8e:0f:f9:4b:90:71:68:65:33:54:f4:d4:44:39:b7:e0
```

```
Subject: CN=Certainly Root R1,O=Certainly,C=US
```

```
Not Valid Before: Thu Apr 01 00:00:00 2021
```

```
Not Valid After : Sun Apr 01 00:00:00 2046
```

```
Fingerprint (SHA-256):
```

```
77:B8:2C:D8:64:4C:43:05:F7:AC:C5:CB:15:6B:45:67:50:04:03:3D:51:C6:0C:62:02:A8:E0:C3:34:67:D3:A0
```

```
Fingerprint (SHA1): A0:50:EE:0F:28:71:F4:27:B2:12:6D:6F:50:96:25:BA:CC:86:42:AF
```

```
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
```

```
CKA_TOKEN CK_BBOOL CK_TRUE
```

```
CKA_PRIVATE CK_BBOOL CK_FALSE
```

```
CKA_MODIFIABLE CK_BBOOL CK_FALSE
```

```
CKA_LABEL UTF8 "Certainly Root R1"
```

```
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
```

```
\240\120\356\017\050\161\364\047\262\022\155\157\120\226\045\272
\314\206\102\257
```

END

```
CKA_CERT_MD5_HASH MULTILINE_OCTAL
```

```
\007\160\324\076\202\207\240\372\063\066\023\364\372\063\347\022
```

END

```
CKA_ISSUER MULTILINE_OCTAL
```

```
\060\075\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\022\060\020\006\003\125\004\012\023\011\103\145\162\164\141\151
\156\154\171\061\032\060\030\006\003\125\004\003\023\021\103\145
\162\164\141\151\156\154\171\040\122\157\157\164\040\122\061
```

END

```
CKA_SERIAL_NUMBER MULTILINE_OCTAL
```

```
\002\021\000\216\017\371\113\220\161\150\145\063\124\364\324\104
```

```

\071\267\340
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Certainly Root E1"
#
Issuer: CN=Certainly Root E1,O=Certainly,C=US
Serial Number:06:25:33:b1:47:03:33:27:5c:f9:8d:9a:b9:bf:cc:f8
Subject: CN=Certainly Root E1,O=Certainly,C=US
Not Valid Before: Thu Apr 01 00:00:00 2021
Not Valid After : Sun Apr 01 00:00:00 2046
Fingerprint (SHA-256):
B4:58:5F:22:E4:AC:75:6A:4E:86:12:A1:36:1C:5D:9D:03:1A:93:FD:84:FE:BB:77:8F:A3:06:8B:0F:C4:2D:C2
Fingerprint (SHA1): F9:E1:6D:DC:01:89:CF:D5:82:45:63:3E:C5:37:7D:C2:EB:93:6F:2B
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certainly Root E1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\075\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\022\060\020\006\003\125\004\012\023\011\103\145\162\164\141\151
\156\154\171\061\032\060\030\006\003\125\004\003\023\021\103\145
\162\164\141\151\156\154\171\040\122\157\157\164\040\105\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\075\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\022\060\020\006\003\125\004\012\023\011\103\145\162\164\141\151
\156\154\171\061\032\060\030\006\003\125\004\003\023\021\103\145
\162\164\141\151\156\154\171\040\122\157\157\164\040\105\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\006\045\063\261\107\003\063\047\134\371\215\232\271\277
\314\370
END
CKA_VALUE MULTILINE_OCTAL
\060\202\001\367\060\202\001\175\240\003\002\001\002\002\020\006
\045\063\261\107\003\063\047\134\371\215\232\271\277\314\370\060
\012\006\010\052\206\110\316\075\004\003\003\060\075\061\013\060
\011\006\003\125\004\006\023\002\125\123\061\022\060\020\006\003
\125\004\012\023\011\103\145\162\164\141\151\156\154\171\061\032
\060\030\006\003\125\004\003\023\021\103\145\162\164\141\151\156

```

\154\171\040\122\157\157\164\040\105\061\060\036\027\015\062\061  
\060\064\060\061\060\060\060\060\060\060\132\027\015\064\066\060  
\064\060\061\060\060\060\060\060\060\132\060\075\061\013\060\011  
\006\003\125\004\006\023\002\125\123\061\022\060\020\006\003\125  
\004\012\023\011\103\145\162\164\141\151\156\154\171\061\032\060  
\030\006\003\125\004\003\023\021\103\145\162\164\141\151\156\154  
\171\040\122\157\157\164\040\105\061\060\166\060\020\006\007\052  
\206\110\316\075\002\001\006\005\053\201\004\000\042\003\142\000  
\004\336\157\370\177\034\337\355\371\107\207\206\261\244\300\212  
\370\202\227\200\352\217\310\112\136\052\175\210\150\247\001\142  
\024\221\044\172\134\236\243\027\175\212\206\041\064\030\120\033  
\020\336\320\067\113\046\307\031\140\200\351\064\275\140\031\066  
\100\326\051\207\011\074\221\172\366\274\023\043\335\131\116\004  
\136\317\310\002\034\030\123\301\061\330\332\040\351\104\215\344  
\166\243\102\060\100\060\016\006\003\125\035\017\001\001\377\004  
\004\003\002\001\006\060\017\006\003\125\035\023\001\001\377\004  
\005\060\003\001\001\377\060\035\006\003\125\035\016\004\026\004  
\024\363\050\030\313\144\165\356\051\052\353\355\256\043\130\070  
\205\353\310\042\007\060\012\006\010\052\206\110\316\075\004\003  
\003\003\150\000\060\145\002\061\000\261\216\132\040\303\262\031  
\142\115\336\260\117\337\156\322\160\212\361\237\176\152\214\346  
\272\336\203\151\312\151\263\251\005\265\226\222\027\207\302\322  
\352\320\173\316\330\101\133\174\256\002\060\106\336\352\313\135  
\232\354\062\302\145\026\260\114\060\134\060\363\332\116\163\206  
\006\330\316\211\004\110\067\067\370\335\063\121\235\160\257\173  
\125\330\001\056\175\005\144\016\206\270\221

END

CKA\_NSS\_MOZILLA\_CA\_POLICY CK\_BBOOL CK\_TRUE  
CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE  
CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "Certainly Root E1"

# Issuer: CN=Certainly Root E1,O=Certainly,C=US

# Serial Number:06:25:33:b1:47:03:33:27:5c:f9:8d:9a:b9:bf:cc:f8

# Subject: CN=Certainly Root E1,O=Certainly,C=US

# Not Valid Before: Thu Apr 01 00:00:00 2021

# Not Valid After : Sun Apr 01 00:00:00 2046

# Fingerprint (SHA-256):

B4:58:5F:22:E4:AC:75:6A:4E:86:12:A1:36:1C:5D:9D:03:1A:93:FD:84:FE:BB:77:8F:A3:06:8B:0F:C4:2D:C2

# Fingerprint (SHA1): F9:E1:6D:DC:01:89:CF:D5:82:45:63:3E:C5:37:7D:C2:EB:93:6F:2B

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "Certainly Root E1"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

\371\341\155\334\001\211\317\325\202\105\143\076\305\067\175\302

\353\223\157\053

```

END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\012\236\312\315\076\122\120\306\066\363\113\243\355\247\123\351
END
CKA_ISSUER MULTILINE_OCTAL
\060\075\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\022\060\020\006\003\125\004\012\023\011\103\145\162\164\141\151
\156\154\171\061\032\060\030\006\003\125\004\003\023\021\103\145
\162\164\141\151\156\154\171\040\122\157\157\164\040\105\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\006\045\063\261\107\003\063\047\134\371\215\232\271\277
\314\370
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "E-Tugra Global Root CA RSA v3"
#
Issuer: CN=E-Tugra Global Root CA RSA v3,OU=E-Tugra Trust Center,O=E-Tugra EBG A.S.,L=Ankara,C=TR
Serial Number:0d:4d:c5:cd:16:22:95:96:08:7e:b8:0b:7f:15:06:34:fb:79:10:34
Subject: CN=E-Tugra Global Root CA RSA v3,OU=E-Tugra Trust Center,O=E-Tugra EBG
A.S.,L=Ankara,C=TR
Not Valid Before: Wed Mar 18 09:07:17 2020
Not Valid After : Sun Mar 12 09:07:17 2045
Fingerprint (SHA-256):
EF:66:B0:B1:0A:3C:DB:9F:2E:36:48:C7:6B:D2:AF:18:EA:D2:BF:E6:F1:17:65:5E:28:C4:06:0D:A1:A3:F4:C2
Fingerprint (SHA1): E9:A8:5D:22:14:52:1C:5B:AA:0A:B4:BE:24:6A:23:8A:C9:BA:E2:A9
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "E-Tugra Global Root CA RSA v3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\200\061\013\060\011\006\003\125\004\006\023\002\124\122
\061\017\060\015\006\003\125\004\007\023\006\101\156\153\141\162
\141\061\031\060\027\006\003\125\004\012\023\020\105\055\124\165
\147\162\141\040\105\102\107\040\101\056\123\056\061\035\060\033
\006\003\125\004\013\023\024\105\055\124\165\147\162\141\040\124
\162\165\163\164\040\103\145\156\164\145\162\061\046\060\044\006
\003\125\004\003\023\035\105\055\124\165\147\162\141\040\107\154
\157\142\141\154\040\122\157\157\164\040\103\101\040\122\123\101
\040\166\063
END

```

CKA\_ID UTF8 "0"

CKA\_ISSUER MULTILINE\_OCTAL

\060\201\200\061\013\060\011\006\003\125\004\006\023\002\124\122  
\061\017\060\015\006\003\125\004\007\023\006\101\156\153\141\162  
\141\061\031\060\027\006\003\125\004\012\023\020\105\055\124\165  
\147\162\141\040\105\102\107\040\101\056\123\056\061\035\060\033  
\006\003\125\004\013\023\024\105\055\124\165\147\162\141\040\124  
\162\165\163\164\040\103\145\156\164\145\162\061\046\060\044\006  
\003\125\004\003\023\035\105\055\124\165\147\162\141\040\107\154  
\157\142\141\154\040\122\157\157\164\040\103\101\040\122\123\101  
\040\166\063

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

\002\024\015\115\305\315\026\042\225\226\010\176\270\013\177\025  
\006\064\373\171\020\064

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\005\363\060\202\003\333\240\003\002\001\002\002\024\015  
\115\305\315\026\042\225\226\010\176\270\013\177\025\006\064\373  
\171\020\064\060\015\006\011\052\206\110\206\367\015\001\001\013  
\005\000\060\201\200\061\013\060\011\006\003\125\004\006\023\002  
\124\122\061\017\060\015\006\003\125\004\007\023\006\101\156\153  
\141\162\141\061\031\060\027\006\003\125\004\012\023\020\105\055  
\124\165\147\162\141\040\105\102\107\040\101\056\123\056\061\035  
\060\033\006\003\125\004\013\023\024\105\055\124\165\147\162\141  
\040\124\162\165\163\164\040\103\145\156\164\145\162\061\046\060  
\044\006\003\125\004\003\023\035\105\055\124\165\147\162\141\040  
\107\154\157\142\141\154\040\122\157\157\164\040\103\101\040\122  
\123\101\040\166\063\060\036\027\015\062\060\060\063\061\070\060  
\071\060\067\061\067\132\027\015\064\065\060\063\061\062\060\071  
\060\067\061\067\132\060\201\200\061\013\060\011\006\003\125\004  
\006\023\002\124\122\061\017\060\015\006\003\125\004\007\023\006  
\101\156\153\141\162\141\061\031\060\027\006\003\125\004\012\023  
\020\105\055\124\165\147\162\141\040\105\102\107\040\101\056\123  
\056\061\035\060\033\006\003\125\004\013\023\024\105\055\124\165  
\147\162\141\040\124\162\165\163\164\040\103\145\156\164\145\162  
\061\046\060\044\006\003\125\004\003\023\035\105\055\124\165\147  
\162\141\040\107\154\157\142\141\154\040\122\157\157\164\040\103  
\101\040\122\123\101\040\166\063\060\202\002\042\060\015\006\011  
\052\206\110\206\367\015\001\001\001\005\000\003\202\002\017\000  
\060\202\002\012\002\202\002\001\000\242\146\360\211\267\162\173  
\356\011\311\143\322\323\103\335\136\303\246\204\070\112\361\215  
\201\273\024\275\107\350\100\027\363\075\303\170\105\162\246\056  
\220\336\232\072\324\040\161\312\274\237\035\113\227\012\307\061  
\272\076\327\376\045\251\052\216\066\364\321\057\307\267\251\135  
\063\334\060\160\370\100\154\113\262\246\061\141\321\064\074\075  
\061\172\307\257\304\247\247\204\341\227\244\350\113\366\027\174  
\356\074\007\355\342\212\127\334\266\373\370\103\045\120\352\047

\201\250\206\274\217\122\112\226\072\140\032\226\273\375\163\364  
\205\375\203\375\177\204\155\064\154\177\152\267\113\001\003\277  
\255\151\267\327\062\331\365\127\152\351\206\202\076\245\146\061  
\263\026\075\302\363\046\140\062\323\122\036\260\154\244\067\076  
\364\365\257\353\341\337\200\006\317\052\101\347\146\011\341\113  
\227\347\167\275\041\155\051\266\147\303\055\176\355\326\171\145  
\321\317\072\266\321\261\136\126\141\120\172\132\316\116\120\061  
\200\003\230\107\347\344\030\174\104\132\306\244\263\073\306\306  
\303\072\360\154\303\213\310\244\221\005\363\365\331\266\252\006  
\241\267\253\344\261\352\041\024\134\203\244\374\377\266\120\323  
\214\022\046\231\166\160\351\300\017\246\164\374\273\320\033\170  
\316\162\222\342\050\234\274\346\351\011\330\072\323\211\346\276  
\056\167\337\001\012\157\226\366\345\215\074\115\122\166\032\126  
\341\163\176\027\254\075\255\154\243\122\022\030\160\346\200\116  
\063\362\176\046\062\254\005\215\070\244\346\166\074\237\020\151  
\016\155\235\322\301\171\040\153\133\317\063\215\321\224\166\065  
\347\135\125\307\267\254\050\253\106\314\347\073\041\265\012\012  
\344\112\131\334\201\065\113\104\225\022\012\147\245\241\377\133  
\000\007\322\300\314\371\077\374\237\063\362\000\370\214\154\207  
\235\006\055\361\357\343\346\006\372\305\146\023\133\374\120\007  
\236\161\206\262\332\157\164\060\317\223\123\350\334\042\326\336  
\040\037\141\215\243\056\243\170\062\220\154\334\254\062\265\005  
\344\365\074\063\015\326\340\207\167\027\114\235\260\330\011\250  
\015\127\367\104\205\360\310\004\276\134\135\132\343\027\216\124  
\143\151\177\111\164\144\005\214\243\002\003\001\000\001\243\143  
\060\141\060\017\006\003\125\035\023\001\001\377\004\005\060\003  
\001\001\377\060\037\006\003\125\035\043\004\030\060\026\200\024  
\262\264\256\346\055\367\046\325\252\165\055\166\113\300\033\123  
\041\320\110\357\060\035\006\003\125\035\016\004\026\004\024\262  
\264\256\346\055\367\046\325\252\165\055\166\113\300\033\123\041  
\320\110\357\060\016\006\003\125\035\017\001\001\377\004\004\003  
\002\001\006\060\015\006\011\052\206\110\206\367\015\001\001\013  
\005\000\003\202\002\001\000\211\250\162\177\214\353\316\056\030  
\304\020\200\055\020\014\377\373\024\315\004\340\024\074\116\232  
\373\237\051\277\042\236\127\271\202\163\022\143\046\265\314\220  
\351\322\052\051\356\234\055\314\054\231\276\105\047\344\261\161  
\355\344\070\225\061\101\362\175\172\143\170\337\312\066\026\057  
\202\210\237\274\021\107\117\166\115\310\055\216\353\337\055\174  
\116\073\332\256\366\343\332\135\024\246\256\350\205\104\235\006  
\156\216\373\357\172\112\152\055\053\050\030\376\277\220\054\165  
\026\237\017\352\226\175\005\356\233\023\245\104\154\370\003\320  
\335\043\341\375\003\022\022\010\364\030\064\263\340\067\013\167  
\021\001\110\277\141\264\265\370\031\331\313\115\352\243\214\357  
\375\360\006\265\155\222\364\112\141\120\204\355\354\111\323\344  
\276\150\346\056\343\061\013\124\013\032\222\326\202\330\266\242  
\145\074\146\004\371\125\332\154\373\333\265\024\146\115\224\203  
\073\315\036\246\053\262\376\167\100\206\253\347\337\012\311\375  
\366\335\207\126\030\330\260\054\125\140\226\372\010\176\122\220

```
\365\113\246\056\207\174\313\040\333\006\076\240\135\003\167\175
\242\074\023\033\051\242\023\125\240\075\024\042\257\157\270\320
\232\033\162\335\005\001\215\206\140\277\244\147\356\265\245\015
\321\177\346\032\053\142\146\303\007\272\347\240\110\034\070\303
\351\105\373\247\177\374\355\002\150\032\312\167\022\167\246\000
\125\050\024\354\326\307\022\242\033\145\102\351\221\350\313\076
\207\211\124\135\331\257\235\227\234\151\347\012\377\017\132\170
\213\143\052\114\175\107\224\077\336\113\351\123\320\060\361\305
\366\236\111\337\073\240\221\243\243\376\315\130\314\352\337\257
\157\050\073\240\151\233\217\354\254\256\053\124\235\233\004\261
\107\040\257\226\022\076\143\224\035\004\347\056\273\206\307\014
\232\210\277\166\107\357\367\260\013\227\146\322\104\317\140\122
\007\341\325\054\112\072\047\141\167\312\327\217\347\207\016\060
\377\014\273\004\342\141\303\242\310\227\141\216\264\060\152\074
\155\302\007\137\112\163\057\077\371\026\212\001\146\357\272\221
\312\122\127\173\256\324\346\017\335\013\172\177\213\236\046\040
\317\073\357\201\161\203\131
```

END

```
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRICT_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRICT_AFTER CK_BBOOL CK_FALSE
```

```
Trust for "E-Tugra Global Root CA RSA v3"
```

```
Issuer: CN=E-Tugra Global Root CA RSA v3,OU=E-Tugra Trust Center,O=E-Tugra EBG A.S.,L=Ankara,C=TR
```

```
Serial Number:0d:4d:c5:cd:16:22:95:96:08:7e:b8:0b:7f:15:06:34:fb:79:10:34
```

```
Subject: CN=E-Tugra Global Root CA RSA v3,OU=E-Tugra Trust Center,O=E-Tugra EBG
A.S.,L=Ankara,C=TR
```

```
Not Valid Before: Wed Mar 18 09:07:17 2020
```

```
Not Valid After : Sun Mar 12 09:07:17 2045
```

```
Fingerprint (SHA-256):
```

```
EF:66:B0:B1:0A:3C:DB:9F:2E:36:48:C7:6B:D2:AF:18:EA:D2:BF:E6:F1:17:65:5E:28:C4:06:0D:A1:A3:F4:C2
```

```
Fingerprint (SHA1): E9:A8:5D:22:14:52:1C:5B:AA:0A:B4:BE:24:6A:23:8A:C9:BA:E2:A9
```

```
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
```

```
CKA_TOKEN CK_BBOOL CK_TRUE
```

```
CKA_PRIVATE CK_BBOOL CK_FALSE
```

```
CKA_MODIFIABLE CK_BBOOL CK_FALSE
```

```
CKA_LABEL UTF8 "E-Tugra Global Root CA RSA v3"
```

```
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
```

```
\351\250\135\042\024\122\034\133\252\012\264\276\044\152\043\212
\311\272\342\251
```

END

```
CKA_CERT_MD5_HASH MULTILINE_OCTAL
```

```
\042\276\020\366\302\370\003\210\163\137\063\051\107\050\107\244
```

END

```
CKA_ISSUER MULTILINE_OCTAL
```

```
\060\201\200\061\013\060\011\006\003\125\004\006\023\002\124\122
\061\017\060\015\006\003\125\004\007\023\006\101\156\153\141\162
\141\061\031\060\027\006\003\125\004\012\023\020\105\055\124\165
```

```
\147\162\141\040\105\102\107\040\101\056\123\056\061\035\060\033
\006\003\125\004\013\023\024\105\055\124\165\147\162\141\040\124
\162\165\163\164\040\103\145\156\164\145\162\061\046\060\044\006
\003\125\004\003\023\035\105\055\124\165\147\162\141\040\107\154
\157\142\141\154\040\122\157\157\164\040\103\101\040\122\123\101
\040\166\063
```

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

```
\002\024\015\115\305\315\026\042\225\226\010\176\270\013\177\025
\006\064\373\171\020\064
```

END

CKA\_TRUST\_SERVER\_AUTH CK\_TRUST CKT\_NSS\_TRUSTED\_DELEGATOR

CKA\_TRUST\_EMAIL\_PROTECTION CK\_TRUST CKT\_NSS\_MUST\_VERIFY\_TRUST

CKA\_TRUST\_CODE\_SIGNING CK\_TRUST CKT\_NSS\_MUST\_VERIFY\_TRUST

CKA\_TRUST\_STEP\_UP\_APPROVED CK\_BBOOL CK\_FALSE

#

# Certificate "E-Tugra Global Root CA ECC v3"

#

# Issuer: CN=E-Tugra Global Root CA ECC v3,OU=E-Tugra Trust Center,O=E-Tugra EBG A.S.,L=Ankara,C=TR

# Serial Number:26:46:19:77:31:e1:4f:6f:28:36:de:39:51:86:e6:d4:97:88:22:c1

# Subject: CN=E-Tugra Global Root CA ECC v3,OU=E-Tugra Trust Center,O=E-Tugra EBG  
A.S.,L=Ankara,C=TR

# Not Valid Before: Wed Mar 18 09:46:58 2020

# Not Valid After : Sun Mar 12 09:46:58 2045

# Fingerprint (SHA-256):

87:3F:46:85:FA:7F:56:36:25:25:2E:6D:36:BC:D7:F1:6F:C2:49:51:F2:64:E4:7E:1B:95:4F:49:08:CD:CA:13

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

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_CERTIFICATE

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "E-Tugra Global Root CA ECC v3"

CKA\_CERTIFICATE\_TYPE CK\_CERTIFICATE\_TYPE CKC\_X\_509

CKA\_SUBJECT MULTILINE\_OCTAL

```
\060\201\200\061\013\060\011\006\003\125\004\006\023\002\124\122
\061\017\060\015\006\003\125\004\007\023\006\101\156\153\141\162
\141\061\031\060\027\006\003\125\004\012\023\020\105\055\124\165
\147\162\141\040\105\102\107\040\101\056\123\056\061\035\060\033
\006\003\125\004\013\023\024\105\055\124\165\147\162\141\040\124
\162\165\163\164\040\103\145\156\164\145\162\061\046\060\044\006
\003\125\004\003\023\035\105\055\124\165\147\162\141\040\107\154
\157\142\141\154\040\122\157\157\164\040\103\101\040\105\103\103
\040\166\063
```

END

CKA\_ID UTF8 "0"

CKA\_ISSUER MULTILINE\_OCTAL

```
\060\201\200\061\013\060\011\006\003\125\004\006\023\002\124\122
```



\061\017\060\015\006\003\125\004\007\023\006\101\156\153\141\162  
\141\061\031\060\027\006\003\125\004\012\023\020\105\055\124\165  
\147\162\141\040\105\102\107\040\101\056\123\056\061\035\060\033  
\006\003\125\004\013\023\024\105\055\124\165\147\162\141\040\124  
\162\165\163\164\040\103\145\156\164\145\162\061\046\060\044\006  
\003\125\004\003\023\035\105\055\124\165\147\162\141\040\107\154  
\157\142\141\154\040\122\157\157\164\040\103\101\040\105\103\103  
\040\166\063

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

\002\024\046\106\031\167\061\341\117\157\050\066\336\071\121\206  
\346\324\227\210\042\301

END

CKA\_VALUE MULTILINE\_OCTAL

\060\202\002\245\060\202\002\052\240\003\002\001\002\002\024\046  
\106\031\167\061\341\117\157\050\066\336\071\121\206\346\324\227  
\210\042\301\060\012\006\010\052\206\110\316\075\004\003\003\060  
\201\200\061\013\060\011\006\003\125\004\006\023\002\124\122\061  
\017\060\015\006\003\125\004\007\023\006\101\156\153\141\162\141  
\061\031\060\027\006\003\125\004\012\023\020\105\055\124\165\147  
\162\141\040\105\102\107\040\101\056\123\056\061\035\060\033\006  
\003\125\004\013\023\024\105\055\124\165\147\162\141\040\124\162  
\165\163\164\040\103\145\156\164\145\162\061\046\060\044\006\003  
\125\004\003\023\035\105\055\124\165\147\162\141\040\107\154\157  
\142\141\154\040\122\157\157\164\040\103\101\040\105\103\103\040  
\166\063\060\036\027\015\062\060\060\063\061\070\060\071\064\066  
\065\070\132\027\015\064\065\060\063\061\062\060\071\064\066\065  
\070\132\060\201\200\061\013\060\011\006\003\125\004\006\023\002  
\124\122\061\017\060\015\006\003\125\004\007\023\006\101\156\153  
\141\162\141\061\031\060\027\006\003\125\004\012\023\020\105\055  
\124\165\147\162\141\040\105\102\107\040\101\056\123\056\061\035  
\060\033\006\003\125\004\013\023\024\105\055\124\165\147\162\141  
\040\124\162\165\163\164\040\103\145\156\164\145\162\061\046\060  
\044\006\003\125\004\003\023\035\105\055\124\165\147\162\141\040  
\107\154\157\142\141\154\040\122\157\157\164\040\103\101\040\105  
\103\103\040\166\063\060\166\060\020\006\007\052\206\110\316\075  
\002\001\006\005\053\201\004\000\042\003\142\000\004\216\230\051  
\277\307\020\036\047\333\253\003\314\050\054\330\136\110\031\020  
\051\314\313\131\201\314\214\270\222\027\211\203\052\222\366\303  
\244\035\114\142\325\237\326\240\106\334\034\274\166\301\343\107  
\320\133\023\332\347\245\263\146\110\347\041\232\112\117\206\012  
\175\154\352\115\062\200\012\262\172\011\233\151\113\230\201\342  
\056\354\002\160\226\037\375\365\106\316\312\334\202\243\143\060  
\141\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001  
\001\377\060\037\006\003\125\035\043\004\030\060\026\200\024\377  
\202\061\162\076\371\304\146\154\255\070\236\321\260\121\210\245  
\220\314\365\060\035\006\003\125\035\016\004\026\004\024\377\202  
\061\162\076\371\304\146\154\255\070\236\321\260\121\210\245\220

```
\314\365\060\016\006\003\125\035\017\001\001\377\004\004\003\002
\001\006\060\012\006\010\052\206\110\316\075\004\003\003\003\151
\000\060\146\002\061\000\346\005\130\151\141\345\055\312\015\313
\361\031\010\275\326\375\121\222\032\176\143\124\004\220\221\232
\065\221\071\231\372\007\251\146\223\272\310\150\324\212\077\372
\355\156\026\002\047\267\002\061\000\335\132\027\053\166\035\145
\102\226\246\254\135\212\171\126\330\212\033\337\232\336\137\307
\120\217\261\133\161\014\046\337\152\100\000\354\063\221\041\161
\276\150\344\043\244\331\255\241\067
```

END

CKA\_NSS\_MOZILLA\_CA\_POLICY CK\_BBOOL CK\_TRUE

CKA\_NSS\_SERVER\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

CKA\_NSS\_EMAIL\_DISTRICT\_AFTER CK\_BBOOL CK\_FALSE

# Trust for "E-Tugra Global Root CA ECC v3"

# Issuer: CN=E-Tugra Global Root CA ECC v3,OU=E-Tugra Trust Center,O=E-Tugra EBG A.S.,L=Ankara,C=TR

# Serial Number:26:46:19:77:31:e1:4f:6f:28:36:de:39:51:86:e6:d4:97:88:22:c1

# Subject: CN=E-Tugra Global Root CA ECC v3,OU=E-Tugra Trust Center,O=E-Tugra EBG  
A.S.,L=Ankara,C=TR

# Not Valid Before: Wed Mar 18 09:46:58 2020

# Not Valid After : Sun Mar 12 09:46:58 2045

# Fingerprint (SHA-256):

87:3F:46:85:FA:7F:56:36:25:25:2E:6D:36:BC:D7:F1:6F:C2:49:51:F2:64:E4:7E:1B:95:4F:49:08:CD:CA:13

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

CKA\_CLASS CK\_OBJECT\_CLASS CKO\_NSS\_TRUST

CKA\_TOKEN CK\_BBOOL CK\_TRUE

CKA\_PRIVATE CK\_BBOOL CK\_FALSE

CKA\_MODIFIABLE CK\_BBOOL CK\_FALSE

CKA\_LABEL UTF8 "E-Tugra Global Root CA ECC v3"

CKA\_CERT\_SHA1\_HASH MULTILINE\_OCTAL

```
\212\057\257\127\123\261\260\346\241\004\354\133\152\151\161\155
\366\034\342\204
```

END

CKA\_CERT\_MD5\_HASH MULTILINE\_OCTAL

```
\106\274\201\273\361\265\036\367\113\226\274\024\342\347\047\144
```

END

CKA\_ISSUER MULTILINE\_OCTAL

```
\060\201\200\061\013\060\011\006\003\125\004\006\023\002\124\122
\061\017\060\015\006\003\125\004\007\023\006\101\156\153\141\162
\141\061\031\060\027\006\003\125\004\012\023\020\105\055\124\165
\147\162\141\040\105\102\107\040\101\056\123\056\061\035\060\033
\006\003\125\004\013\023\024\105\055\124\165\147\162\141\040\124
\162\165\163\164\040\103\145\156\164\145\162\061\046\060\044\006
\003\125\004\003\023\035\105\055\124\165\147\162\141\040\107\154
\157\142\141\154\040\122\157\157\164\040\103\101\040\105\103\103
\040\166\063
```

END

CKA\_SERIAL\_NUMBER MULTILINE\_OCTAL

\002\024\046\106\031\167\061\341\117\157\050\066\336\071\121\206  
\346\324\227\210\042\301

END

CKA\_TRUST\_SERVER\_AUTH CK\_TRUST CKT\_NSS\_TRUSTED\_DELEGATOR  
CKA\_TRUST\_EMAIL\_PROTECTION CK\_TRUST CKT\_NSS\_MUST\_VERIFY\_TRUST  
CKA\_TRUST\_CODE\_SIGNING CK\_TRUST CKT\_NSS\_MUST\_VERIFY\_TRUST  
CKA\_TRUST\_STEP\_UP\_APPROVED CK\_BBOOL CK\_FALSE

Found in path(s):

\* /opt/cola/permits/1376394069\_1659497040.3993607/0/ca-certificates-20220614-tar-bz2/ca-certificates-20220614/certdata.txt

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# 1.265 micrometer-core 1.9.8

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# 1.266 joda-time 2.3

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## 1.269 spring-context 5.3.25

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\* /opt/cola/permits/1612247488\_1679586951.2793636/0/selenium-json-4-4-0-sources-jar/org/openqa/selenium/json/SimplePropertyDescriptor.java  
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\* /opt/cola/permits/1612247488\_1679586951.2793636/0/selenium-json-4-4-0-sources-jar/org/openqa/selenium/json/ObjectCoercer.java

# 1.272 opentelemetry-sdk-extension-autoconfigure 1.13.0-alpha

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```
* /opt/cola/permits/1257893209_1643020011.16/0/feign-form-spring-3-8-0-sources-
jar/feign/form/spring/converter/ByteArrayMultipartFile.java
* /opt/cola/permits/1257893209_1643020011.16/0/feign-form-spring-3-8-0-sources-
jar/feign/form/spring/SpringFormEncoder.java
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jar/feign/form/spring/SpringSingleMultipartFileWriter.java
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jar/feign/form/spring/SpringManyMultipartFilesWriter.java
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jar/feign/form/spring/converter/SpringManyMultipartFilesReader.java
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## 1.274 error\_prone\_annotations 2.11.0

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## 1.275 brave-instrumentation-messaging

### 5.13.9

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### 5.13.1.202206130422-r

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## 1.282 woodstox-core 6.4.0

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## 1.283 alpine-baselayout-data 3.2.0-r22

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\* Create mount directories in fstab

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* usage: mkmntdirs [fstab]
*
*/
```

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* /opt/cola/permits/1344023347_1657891184.8459775/0/alpine-baselayout-3-2-0-r22-tar-gz/mkmntdirs.c
* /opt/cola/permits/1344023347_1657891184.8459775/0/alpine-baselayout-3-2-0-r22-tar-gz/alpine-baselayout-tar-gz/mkmntdirs.c
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* /opt/cola/permits/1568674884_1676617032.290094/0/netty-resolver-dns-4-1-89-final-sources-jar/io/netty/resolver/dns/UnixResolverOptions.java
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\* /opt/cola/permits/1568674884\_1676617032.290094/0/netty-resolver-dns-4-1-89-final-sources-jar/io/netty/resolver/dns/DnsNameResolver.java  
\* /opt/cola/permits/1568674884\_1676617032.290094/0/netty-resolver-dns-4-1-89-final-sources-jar/io/netty/resolver/dns/DnsServerAddresses.java  
\* /opt/cola/permits/1568674884\_1676617032.290094/0/netty-resolver-dns-4-1-89-final-sources-jar/io/netty/resolver/dns/DnsAddressResolverGroup.java  
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\* /opt/cola/permits/1568674884\_1676617032.290094/0/netty-resolver-dns-4-1-89-final-sources-jar/io/netty/resolver/dns/DnsQueryContext.java

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\* /opt/cola/permits/1568674884\_1676617032.290094/0/netty-resolver-dns-4-1-89-final-sources-jar/io/netty/resolver/dns/AuthoritativeDnsServerCache.java  
\* /opt/cola/permits/1568674884\_1676617032.290094/0/netty-resolver-dns-4-1-89-final-sources-jar/io/netty/resolver/dns/NoopAuthoritativeDnsServerCache.java  
\* /opt/cola/permits/1568674884\_1676617032.290094/0/netty-resolver-dns-4-1-89-final-sources-jar/io/netty/resolver/dns/NoopDnsCnameCache.java  
\* /opt/cola/permits/1568674884\_1676617032.290094/0/netty-resolver-dns-4-1-89-final-sources-jar/io/netty/resolver/dns/NameServerComparator.java  
\* /opt/cola/permits/1568674884\_1676617032.290094/0/netty-resolver-dns-4-1-89-final-sources-jar/io/netty/resolver/dns/Cache.java  
\* /opt/cola/permits/1568674884\_1676617032.290094/0/netty-resolver-dns-4-1-89-final-sources-jar/io/netty/resolver/dns/AuthoritativeDnsServerCacheAdapter.java  
\* /opt/cola/permits/1568674884\_1676617032.290094/0/netty-resolver-dns-4-1-89-final-sources-jar/io/netty/resolver/dns/DnsCnameCache.java  
\* /opt/cola/permits/1568674884\_1676617032.290094/0/netty-resolver-dns-4-1-89-final-sources-jar/io/netty/resolver/dns/DefaultAuthoritativeDnsServerCache.java  
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- \* /opt/cola/permits/1568674884\_1676617032.290094/0/netty-resolver-dns-4-1-89-final-sources-jar/io/netty/resolver/dns/DnsNameResolverException.java
- \* /opt/cola/permits/1568674884\_1676617032.290094/0/netty-resolver-dns-4-1-89-final-sources-jar/io/netty/resolver/dns/SingletonDnsServerAddresses.java
- \* /opt/cola/permits/1568674884\_1676617032.290094/0/netty-resolver-dns-4-1-89-final-sources-jar/io/netty/resolver/dns/ShuffledDnsServerAddressStream.java
- \* /opt/cola/permits/1568674884\_1676617032.290094/0/netty-resolver-dns-4-1-89-final-sources-jar/io/netty/resolver/dns/RotationalDnsServerAddresses.java
- \* /opt/cola/permits/1568674884\_1676617032.290094/0/netty-resolver-dns-4-1-89-final-sources-jar/io/netty/resolver/dns/DnsServerAddressStream.java
- \* /opt/cola/permits/1568674884\_1676617032.290094/0/netty-resolver-dns-4-1-89-final-sources-jar/io/netty/resolver/dns/DnsQueryContextManager.java
- \* /opt/cola/permits/1568674884\_1676617032.290094/0/netty-resolver-dns-4-1-89-final-sources-jar/io/netty/resolver/dns/DefaultDnsServerAddresses.java
- \* /opt/cola/permits/1568674884\_1676617032.290094/0/netty-resolver-dns-4-1-89-final-sources-jar/io/netty/resolver/dns/SequentialDnsServerAddressStream.java
- \* /opt/cola/permits/1568674884\_1676617032.290094/0/netty-resolver-dns-4-1-89-final-sources-jar/io/netty/resolver/dns/DnsNameResolverBuilder.java

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## 1.286 opentelemetry-context 1.13.0

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## 1.287 jboss-logging 3.4.3.Final

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## 1.288 feign-okhttp 11.10

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Found in path(s):

\* /opt/cola/permits/1434278292\_1664999340.2565553/0/feign-okhttp-11-10-sources-jar/META-INF/maven/io.github.openfeign/feign-okhttp/pom.xml

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* /opt/cola/permits/1320304756_1651519748.12/0/servlet-api-4-0-0-sources-4-
jar/org/xipki/http/servlet/HttpServlet.java
* /opt/cola/permits/1320304756_1651519748.12/0/servlet-api-4-0-0-sources-4-

```

jar/org/xipki/http/servlet/AbstractHttpServlet.java  
\* /opt/cola/permits/1320304756\_1651519748.12/0/servlet-api-4-0-0-sources-4-  
jar/org/xipki/http/servlet/SimpleLruCache.java  
\* /opt/cola/permits/1320304756\_1651519748.12/0/servlet-api-4-0-0-sources-4-  
jar/org/xipki/http/servlet/ServletURIPool.java  
\* /opt/cola/permits/1320304756\_1651519748.12/0/servlet-api-4-0-0-sources-4-  
jar/org/xipki/http/servlet/TlsHelper.java  
\* /opt/cola/permits/1320304756\_1651519748.12/0/servlet-api-4-0-0-sources-4-  
jar/org/xipki/http/servlet/ServletURI.java  
\* /opt/cola/permits/1320304756\_1651519748.12/0/servlet-api-4-0-0-sources-4-  
jar/org/xipki/http/servlet/SslReverseProxyMode.java  
\* /opt/cola/permits/1320304756\_1651519748.12/0/servlet-api-4-0-0-sources-4-jar/org/xipki/http/servlet/package-  
info.java

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INF/maven/org.xipki/servlet-api/pom.xml

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bzip2/libbzip2 version 1.0.4 of 20 December 2006

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### 4.1.89.Final

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```

Found in path(s):

```
* /opt/cola/permits/1568674795_1676616972.606767/0/netty-transport-classes-kqueue-4-1-89-final-sources-
jar/io/netty/channel/kqueue/KQueueEventLoop.java
* /opt/cola/permits/1568674795_1676616972.606767/0/netty-transport-classes-kqueue-4-1-89-final-sources-
```

jar/io/netty/channel/kqueue/NativeLongArray.java  
\* /opt/cola/permits/1568674795\_1676616972.606767/0/netty-transport-classes-kqueue-4-1-89-final-sources-  
jar/io/netty/channel/kqueue/KQueueChannelOption.java  
\* /opt/cola/permits/1568674795\_1676616972.606767/0/netty-transport-classes-kqueue-4-1-89-final-sources-  
jar/io/netty/channel/kqueue/KQueueStaticallyReferencedJniMethods.java  
\* /opt/cola/permits/1568674795\_1676616972.606767/0/netty-transport-classes-kqueue-4-1-89-final-sources-  
jar/io/netty/channel/kqueue/KQueueDatagramChannelConfig.java  
\* /opt/cola/permits/1568674795\_1676616972.606767/0/netty-transport-classes-kqueue-4-1-89-final-sources-  
jar/io/netty/channel/kqueue/KQueueServerDomainSocketChannel.java  
\* /opt/cola/permits/1568674795\_1676616972.606767/0/netty-transport-classes-kqueue-4-1-89-final-sources-  
jar/io/netty/channel/kqueue/KQueueSocketChannel.java  
\* /opt/cola/permits/1568674795\_1676616972.606767/0/netty-transport-classes-kqueue-4-1-89-final-sources-  
jar/io/netty/channel/kqueue/KQueueRecvByteAllocatorHandle.java  
\* /opt/cola/permits/1568674795\_1676616972.606767/0/netty-transport-classes-kqueue-4-1-89-final-sources-  
jar/io/netty/channel/kqueue/AcceptFilter.java  
\* /opt/cola/permits/1568674795\_1676616972.606767/0/netty-transport-classes-kqueue-4-1-89-final-sources-  
jar/io/netty/channel/kqueue/Native.java  
\* /opt/cola/permits/1568674795\_1676616972.606767/0/netty-transport-classes-kqueue-4-1-89-final-sources-  
jar/io/netty/channel/kqueue/KQueueDomainSocketChannel.java  
\* /opt/cola/permits/1568674795\_1676616972.606767/0/netty-transport-classes-kqueue-4-1-89-final-sources-  
jar/io/netty/channel/kqueue/KQueueServerSocketChannel.java  
\* /opt/cola/permits/1568674795\_1676616972.606767/0/netty-transport-classes-kqueue-4-1-89-final-sources-  
jar/io/netty/channel/kqueue/KQueueEventLoopGroup.java  
\* /opt/cola/permits/1568674795\_1676616972.606767/0/netty-transport-classes-kqueue-4-1-89-final-sources-  
jar/io/netty/channel/kqueue/BsdSocket.java  
\* /opt/cola/permits/1568674795\_1676616972.606767/0/netty-transport-classes-kqueue-4-1-89-final-sources-  
jar/io/netty/channel/kqueue/KQueueDomainSocketChannelConfig.java  
\* /opt/cola/permits/1568674795\_1676616972.606767/0/netty-transport-classes-kqueue-4-1-89-final-sources-  
jar/io/netty/channel/kqueue/KQueueServerChannelConfig.java  
\* /opt/cola/permits/1568674795\_1676616972.606767/0/netty-transport-classes-kqueue-4-1-89-final-sources-  
jar/io/netty/channel/kqueue/KQueue.java  
\* /opt/cola/permits/1568674795\_1676616972.606767/0/netty-transport-classes-kqueue-4-1-89-final-sources-  
jar/io/netty/channel/kqueue/KQueueChannelConfig.java  
\* /opt/cola/permits/1568674795\_1676616972.606767/0/netty-transport-classes-kqueue-4-1-89-final-sources-  
jar/io/netty/channel/kqueue/KQueueServerSocketChannelConfig.java  
\* /opt/cola/permits/1568674795\_1676616972.606767/0/netty-transport-classes-kqueue-4-1-89-final-sources-  
jar/io/netty/channel/kqueue/AbstractKQueueStreamChannel.java  
\* /opt/cola/permits/1568674795\_1676616972.606767/0/netty-transport-classes-kqueue-4-1-89-final-sources-  
jar/io/netty/channel/kqueue/AbstractKQueueChannel.java  
\* /opt/cola/permits/1568674795\_1676616972.606767/0/netty-transport-classes-kqueue-4-1-89-final-sources-  
jar/io/netty/channel/kqueue/KQueueDatagramChannel.java  
\* /opt/cola/permits/1568674795\_1676616972.606767/0/netty-transport-classes-kqueue-4-1-89-final-sources-  
jar/io/netty/channel/kqueue/KQueueEventArray.java  
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jar/io/netty/channel/kqueue/AbstractKQueueServerChannel.java  
\* /opt/cola/permits/1568674795\_1676616972.606767/0/netty-transport-classes-kqueue-4-1-89-final-sources-  
jar/io/netty/channel/kqueue/KQueueSocketChannelConfig.java  
\* /opt/cola/permits/1568674795\_1676616972.606767/0/netty-transport-classes-kqueue-4-1-89-final-sources-

jar/io/netty/channel/kqueue/package-info.java

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\* /opt/cola/permits/1568674795\_1676616972.606767/0/netty-transport-classes-kqueue-4-1-89-final-sources-jar/io/netty/channel/kqueue/KQueueDomainDatagramChannelConfig.java

\* /opt/cola/permits/1568674795\_1676616972.606767/0/netty-transport-classes-kqueue-4-1-89-final-sources-jar/io/netty/channel/kqueue/AbstractKQueueDatagramChannel.java

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jar/io/netty/util/internal/ClassInitializerUtil.java
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io.netty.util.internal.Hidden$NettyBlockHoundIntegration
```

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* /opt/cola/permits/1568674955_1676616928.206365/0/netty-common-4-1-89-final-sources-jar/io/netty/util/concurrent/UnaryPromiseNotifier.java
* /opt/cola/permits/1568674955_1676616928.206365/0/netty-common-4-1-89-final-sources-jar/io/netty/util/concurrent/RejectedExecutionHandler.java
* /opt/cola/permits/1568674955_1676616928.206365/0/netty-common-4-1-89-final-sources-jar/io/netty/util/concurrent/RejectedExecutionHandlers.java
* /opt/cola/permits/1568674955_1676616928.206365/0/netty-common-4-1-89-final-sources-
```

jar/io/netty/util/ResourceLeakDetectorFactory.java  
\* /opt/cola/permits/1568674955\_1676616928.206365/0/netty-common-4-1-89-final-sources-  
jar/io/netty/util/BooleanSupplier.java  
\* /opt/cola/permits/1568674955\_1676616928.206365/0/netty-common-4-1-89-final-sources-  
jar/io/netty/util/internal/ConstantTimeUtils.java  
\* /opt/cola/permits/1568674955\_1676616928.206365/0/netty-common-4-1-89-final-sources-  
jar/io/netty/util/concurrent/PromiseCombiner.java  
\* /opt/cola/permits/1568674955\_1676616928.206365/0/netty-common-4-1-89-final-sources-  
jar/io/netty/util/internal/OutOfDirectMemoryError.java  
\* /opt/cola/permits/1568674955\_1676616928.206365/0/netty-common-4-1-89-final-sources-  
jar/io/netty/util/IntSupplier.java  
\* /opt/cola/permits/1568674955\_1676616928.206365/0/netty-common-4-1-89-final-sources-  
jar/io/netty/util/internal/ThrowableUtil.java  
\* /opt/cola/permits/1568674955\_1676616928.206365/0/netty-common-4-1-89-final-sources-  
jar/io/netty/util/internal/SocketUtils.java  
\* /opt/cola/permits/1568674955\_1676616928.206365/0/netty-common-4-1-89-final-sources-  
jar/io/netty/util/concurrent/DefaultEventExecutorChooserFactory.java  
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jar/io/netty/util/internal/UnstableApi.java  
\* /opt/cola/permits/1568674955\_1676616928.206365/0/netty-common-4-1-89-final-sources-  
jar/io/netty/util/internal/NativeLibraryUtil.java  
\* /opt/cola/permits/1568674955\_1676616928.206365/0/netty-common-4-1-89-final-sources-  
jar/io/netty/util/concurrent/EventExecutorChooserFactory.java  
\* /opt/cola/permits/1568674955\_1676616928.206365/0/netty-common-4-1-89-final-sources-  
jar/io/netty/util/internal/logging/Log4J2LoggerFactory.java  
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jar/io/netty/util/DomainNameMappingBuilder.java  
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jar/io/netty/util/concurrent/UnorderedThreadPoolEventExecutor.java  
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jar/io/netty/util/concurrent/NonStickyEventExecutorGroup.java  
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jar/io/netty/util/concurrent/OrderedEventExecutor.java  
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jar/io/netty/util/internal/logging/Log4J2Logger.java  
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jar/io/netty/util/internal/PromiseNotificationUtil.java  
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jar/io/netty/util/internal/ResourcesUtil.java
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jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/BaseMpscLinkedAtomicArrayQueue.java  
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jar/io/netty/util/internal/shaded/org/jctools/queues/spec/Ordering.java  
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jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/AtomicQueueFactory.java  
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jar/io/netty/util/internal/shaded/org/jctools/queues/MessagePassingQueueUtil.java  
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jar/io/netty/util/NetUtilInitializations.java

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jar/io/netty/util/DomainWildcardMappingBuilder.java

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* /opt/cola/permits/1568674955_1676616928.206365/0/netty-common-4-1-89-final-sources-
jar/io/netty/util/internal/logging/MessageFormatter.java

```

```

* /opt/cola/permits/1568674955_1676616928.206365/0/netty-common-4-1-89-final-sources-
jar/io/netty/util/internal/logging/FormattingTuple.java

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```

* /opt/cola/permits/1568674955_1676616928.206365/0/netty-common-4-1-89-final-sources-
jar/io/netty/util/internal/logging/Log4JLogger.java
* /opt/cola/permits/1568674955_1676616928.206365/0/netty-common-4-1-89-final-sources-
jar/io/netty/util/internal/logging/JdkLogger.java
* /opt/cola/permits/1568674955_1676616928.206365/0/netty-common-4-1-89-final-sources-
jar/io/netty/util/internal/logging/CommonsLogger.java
* /opt/cola/permits/1568674955_1676616928.206365/0/netty-common-4-1-89-final-sources-
jar/io/netty/util/internal/logging/InternalLogger.java

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Found in path(s):

\* /opt/cola/permits/1568674955\_1676616928.206365/0/netty-common-4-1-89-final-sources-jar/io/netty/util/internal/logging/InternalLoggerFactory.java  
\* /opt/cola/permits/1568674955\_1676616928.206365/0/netty-common-4-1-89-final-sources-jar/io/netty/util/concurrent/DefaultEventExecutor.java  
\* /opt/cola/permits/1568674955\_1676616928.206365/0/netty-common-4-1-89-final-sources-jar/io/netty/util/package-info.java  
\* /opt/cola/permits/1568674955\_1676616928.206365/0/netty-common-4-1-89-final-sources-jar/io/netty/util/DefaultAttributeMap.java  
\* /opt/cola/permits/1568674955\_1676616928.206365/0/netty-common-4-1-89-final-sources-jar/io/netty/util/Timeout.java  
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\* /opt/cola/permits/1568674955\_1676616928.206365/0/netty-common-4-1-89-final-sources-jar/io/netty/util/concurrent/DefaultEventExecutorGroup.java  
\* /opt/cola/permits/1568674955\_1676616928.206365/0/netty-common-4-1-89-final-sources-jar/io/netty/util/concurrent/SucceededFuture.java  
\* /opt/cola/permits/1568674955\_1676616928.206365/0/netty-common-4-1-89-final-sources-jar/io/netty/util/internal/logging/AbstractInternalLogger.java  
\* /opt/cola/permits/1568674955\_1676616928.206365/0/netty-common-4-1-89-final-sources-jar/io/netty/util/internal/StringUtil.java  
\* /opt/cola/permits/1568674955\_1676616928.206365/0/netty-common-4-1-89-final-sources-jar/io/netty/util/internal/logging/Slf4JLogger.java  
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 jar/io/netty/util/Constant.java  
 \* /opt/cola/permits/1568674955\_1676616928.206365/0/netty-common-4-1-89-final-sources-  
 jar/io/netty/util/internal/logging/CommonsLoggerFactory.java  
 \* /opt/cola/permits/1568674955\_1676616928.206365/0/netty-common-4-1-89-final-sources-  
 jar/io/netty/util/AttributeMap.java

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xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-v4_0_0.xsd">
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<distributionManagement>
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 </repository>
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<url>https://github.com/JCTools</url>
<inceptionYear>2013</inceptionYear>

```

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 <url>http://www.apache.org/licenses/LICENSE-2.0.txt</url>
 <distribution>repo</distribution>
 </license>
</licenses>

<scm>
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 <connection>scm:git:https://github.com/JCTools/JCTools</connection>
 <tag>HEAD</tag>
</scm>

<developers>
 <developer>
 <url>https://github.com/nitsanw</url>
 </developer>
 <developer>
 <url>https://github.com/mjpt777</url>
 </developer>
 <developer>
 <url>https://github.com/RichardWarburton</url>
 </developer>
 <developer>
 <url>https://github.com/kay</url>
 </developer>
 <developer>
 <url>https://github.com/franz1981</url>
 </developer>
</developers>

<prerequisites>
 <maven>3.5.0</maven>
</prerequisites>

<properties>
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 <java.test.version>1.8</java.test.version>

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 <maven.compiler.target>${java.version}</maven.compiler.target>
 <maven.compiler.testSource>${java.test.version}</maven.compiler.testSource>
 <maven.compiler.testTarget>${java.test.version}</maven.compiler.testTarget>

 <hamcrest.version>1.3</hamcrest.version>
 <junit.version>4.12</junit.version>

```

```
<guava-testlib.version>21.0</guava-testlib.version>
</properties>
</project>
```

Found in path(s):

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* /opt/cola/permits/1568674955_1676616928.206365/0/netty-common-4-1-89-final-sources-jar/META-INF/maven/org.jctools/jctools-core/pom.xml
```

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```

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* /opt/cola/permits/1568674955_1676616928.206365/0/netty-common-4-1-89-final-sources-jar/io/netty/util/internal/ThreadLocalRandom.java
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\* /opt/cola/permits/1568674955\_1676616928.206365/0/netty-common-4-1-89-final-sources-jar/io/netty/util/concurrent/DefaultFutureListeners.java

\* /opt/cola/permits/1568674955\_1676616928.206365/0/netty-common-4-1-89-final-sources-jar/io/netty/util/concurrent/ProgressiveFuture.java

\* /opt/cola/permits/1568674955\_1676616928.206365/0/netty-common-4-1-89-final-sources-jar/io/netty/util/ResourceLeak.java

\* /opt/cola/permits/1568674955\_1676616928.206365/0/netty-common-4-1-89-final-sources-jar/io/netty/util/internal/EmptyArrays.java

\* /opt/cola/permits/1568674955\_1676616928.206365/0/netty-common-4-1-89-final-sources-jar/io/netty/util/internal/TypeParameterMatcher.java

\* /opt/cola/permits/1568674955\_1676616928.206365/0/netty-common-4-1-89-final-sources-jar/io/netty/util/internal/ConcurrentSet.java

\* /opt/cola/permits/1568674955\_1676616928.206365/0/netty-common-4-1-89-final-sources-jar/io/netty/util/concurrent/GenericProgressiveFutureListener.java

\* /opt/cola/permits/1568674955\_1676616928.206365/0/netty-common-4-1-89-final-sources-jar/io/netty/util/internal/PendingWrite.java

\* /opt/cola/permits/1568674955\_1676616928.206365/0/netty-common-4-1-89-final-sources-jar/io/netty/util/concurrent/DefaultProgressivePromise.java

\* /opt/cola/permits/1568674955\_1676616928.206365/0/netty-common-4-1-89-final-sources-jar/io/netty/util/concurrent/GenericFutureListener.java

\* /opt/cola/permits/1568674955\_1676616928.206365/0/netty-common-4-1-89-final-sources-jar/io/netty/util/internal/PlatformDependent0.java

\* /opt/cola/permits/1568674955\_1676616928.206365/0/netty-common-4-1-89-final-sources-jar/io/netty/util/concurrent/PromiseTask.java

\* /opt/cola/permits/1568674955\_1676616928.206365/0/netty-common-4-1-89-final-sources-jar/io/netty/util/concurrent/AbstractEventExecutorGroup.java

\* /opt/cola/permits/1568674955\_1676616928.206365/0/netty-common-4-1-89-final-sources-jar/io/netty/util/internal/NoOpTypeParameterMatcher.java

\* /opt/cola/permits/1568674955\_1676616928.206365/0/netty-common-4-1-89-final-sources-jar/io/netty/util/concurrent/CompleteFuture.java

\* /opt/cola/permits/1568674955\_1676616928.206365/0/netty-common-4-1-89-final-sources-jar/io/netty/util/concurrent/DefaultPromise.java

\* /opt/cola/permits/1568674955\_1676616928.206365/0/netty-common-4-1-89-final-sources-jar/io/netty/util/concurrent/DefaultThreadFactory.java

\* /opt/cola/permits/1568674955\_1676616928.206365/0/netty-common-4-1-89-final-sources-jar/io/netty/util/concurrent/ThreadPerTaskExecutor.java

\* /opt/cola/permits/1568674955\_1676616928.206365/0/netty-common-4-1-89-final-sources-jar/io/netty/util/internal/AppendableCharSequence.java

\* /opt/cola/permits/1568674955\_1676616928.206365/0/netty-common-4-1-89-final-sources-jar/io/netty/util/Recycler.java

\* /opt/cola/permits/1568674955\_1676616928.206365/0/netty-common-4-1-89-final-sources-jar/io/netty/util/ReferenceCountUtil.java

\* /opt/cola/permits/1568674955\_1676616928.206365/0/netty-common-4-1-89-final-sources-jar/io/netty/util/ResourceLeakException.java  
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\* /opt/cola/permits/1568674955\_1676616928.206365/0/netty-common-4-1-89-final-sources-jar/io/netty/util/concurrent/AbstractEventExecutor.java  
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- \* /opt/cola/permits/1568674955\_1676616928.206365/0/netty-common-4-1-89-final-sources-jar/io/netty/util/internal/CleanerJava6.java
- \* /opt/cola/permits/1568674955\_1676616928.206365/0/netty-common-4-1-89-final-sources-jar/io/netty/util/concurrent/FastThreadLocalThread.java

## 1.295 opentelemetry-sdk 1.13.0

### 1.295.1 Available under license :

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## 1.296 bzip2 1.0.8-r1

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bzip2/libbzip2 version 1.0.2 of 30 December 2001

# 1.297 feign-gson 11.10

## 1.297.1 Available under license :

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Manifest-Version: 1.0

Bundle-Description: Feign Gson

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

Bundle-SymbolicName: io.github.openfeign.feign-gson

Bnd-LastModified: 1663794456329

Bundle-ManifestVersion: 2

Bundle-DocURL: <https://github.com/openfeign>

Bundle-Vendor: OpenFeign

Import-Package: com.google.gson;version="[2.9,3)",com.google.gson.reflect;version="[2.9,3)",com.google.gson.stream;version="[2.9,3)",feign;version="[11.10,12)",feign.codec;version="[11.10,12)"

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

Tool: Bnd-6.3.1.202206071316

Export-Package: feign.gson;uses:="com.google.gson,com.google.gson.stream,feign,feign.codec";version="11.10.0"

Bundle-Name: Feign Gson

Bundle-Version: 11.10.0

Build-Jdk-Spec: 1.8

Created-By: Apache Maven Bundle Plugin 5.1.8

Found in path(s):

\* /opt/cola/permits/1612248651\_1679586986.3184857/0/feign-gson-11-10-jar/META-INF/MANIFEST.MF

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\* /opt/cola/permits/1612248651\_1679586986.3184857/0/feign-gson-11-10-jar/META-INF/maven/io.github.openfeign/feign-gson/pom.xml

## 1.298 activation 1.2.2

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## 1.299 httpcomponents-core 4.4.16

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## 1.300 xstream 1.4.18

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`*/opt/cola/permits/1209482410_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/converters/collections/TreeMapConverter.java`

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\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/io/xml/Xpp3Driver.java

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jar/com/thoughtworks/xstream/io/xml/XomReader.java  
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jar/com/thoughtworks/xstream/io/xml/DomWriter.java  
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\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/core/TreeMarshallingStrategy.java

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\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/io/xml/StaxReader.java

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\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/converters/reflection/AbstractReflectionConverter.java

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\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-  
jar/com/thoughtworks/xstream/converters/extended/NamedCollectionConverter.java  
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jar/com/thoughtworks/xstream/converters/reflection/ObjectAccessException.java  
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jar/com/thoughtworks/xstream/io/path/package.html  
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\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-  
jar/com/thoughtworks/xstream/converters/time/YearConverter.java  
\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-  
jar/com/thoughtworks/xstream/converters/time/OffsetTimeConverter.java  
\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-  
jar/com/thoughtworks/xstream/converters/time/YearMonthConverter.java  
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jar/com/thoughtworks/xstream/core/util/HierarchicalStreams.java  
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jar/com/thoughtworks/xstream/mapper/Mapper.java

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\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-  
jar/com/thoughtworks/xstream/persistence/PersistenceStrategy.java  
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* /opt/cola/permits/1209482410_1633086247.97/0/xstream-1-4-18-sources-2-
jar/com/thoughtworks/xstream/converters/collections/MapConverter.java
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* /opt/cola/permits/1209482410_1633086247.97/0/xstream-1-4-18-sources-2-
jar/com/thoughtworks/xstream/io/xml/DomDriver.java
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 */
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\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/converters/ErrorWritingException.java

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\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/mapper/AbstractXmlFriendlyMapper.java

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\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/converters/extended/CurrencyConverter.java

\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/converters/extended/SqlDateConverter.java

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\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/converters/basic/StringBuilderConverter.java  
\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/converters/basic/UUIDConverter.java  
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jar/com/thoughtworks/xstream/io/naming/NameCoder.java  
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jar/com/thoughtworks/xstream/core/util/FastStack.java  
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jar/com/thoughtworks/xstream/mapper/CGLIBMapper.java  
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jar/com/thoughtworks/xstream/persistence/StreamStrategy.java  
\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-  
jar/com/thoughtworks/xstream/persistence/FileStreamStrategy.java  
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\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/converters/collections/package.html

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\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/converters/SingleValueConverter.java  
\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/converters/basic/AbstractSingleValueConverter.java  
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Found in path(s):

\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/io/json/JsonHierarchicalStreamDriver.java  
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Found in path(s):

\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/converters/extended/StackTraceElementConverter.java  
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\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/converters/extended/StackTraceElementFactory.java  
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\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/io/xml/AbstractXppDriver.java  
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\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-  
jar/com/thoughtworks/xstream/converters/MarshallingContext.java  
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\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-  
jar/com/thoughtworks/xstream/core/util/ObjectIdDictionary.java  
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\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-  
jar/com/thoughtworks/xstream/converters/reflection/FieldDictionary.java  
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\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-  
jar/com/thoughtworks/xstream/io/xml/MXParserDriver.java  
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\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-  
jar/com/thoughtworks/xstream/io/HierarchicalStreamReader.java  
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\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-  
jar/com/thoughtworks/xstream/converters/extended/LocaleConverter.java  
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\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-  
jar/com/thoughtworks/xstream/converters/extended/PropertyEditorCapableConverter.java  
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\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-  
jar/com/thoughtworks/xstream/converters/reflection/ExternalizableConverter.java  
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\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-  
jar/com/thoughtworks/xstream/io/xml/AbstractPullParser.java  
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\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-  
jar/com/thoughtworks/xstream/core/ReferencingMarshallingContext.java  
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jar/com/thoughtworks/xstream/converters/extended/StackTraceElementFactory15.java  
\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-  
jar/com/thoughtworks/xstream/converters/extended/NamedArrayConverter.java  
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\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-  
jar/com/thoughtworks/xstream/converters/Reporter.java

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* /opt/cola/permits/1209482410_1633086247.97/0/xstream-1-4-18-sources-2-
jar/com/thoughtworks/xstream/core/util/Pool.java
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```
* /opt/cola/permits/1209482410_1633086247.97/0/xstream-1-4-18-sources-2-
jar/com/thoughtworks/xstream/io/xml/XomWriter.java
* /opt/cola/permits/1209482410_1633086247.97/0/xstream-1-4-18-sources-2-
jar/com/thoughtworks/xstream/io/xml/JDomWriter.java
* /opt/cola/permits/1209482410_1633086247.97/0/xstream-1-4-18-sources-2-
jar/com/thoughtworks/xstream/io/xml/JDomReader.java
```

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* /opt/cola/permits/1209482410_1633086247.97/0/xstream-1-4-18-sources-2-
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jar/com/thoughtworks/xstream/security/InterfaceTypePermission.java

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\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-

jar/com/thoughtworks/xstream/converters/reflection/ImmutableFieldKeySorter.java

\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-

jar/com/thoughtworks/xstream/converters/reflection/FieldKeySorter.java

\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-

jar/com/thoughtworks/xstream/converters/reflection/FieldKey.java

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jar/com/thoughtworks/xstream/core/util/ISO8601JavaTimeConverter.java

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\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/io/json/JsonWriter.java

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\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/converters/basic/StringConverter.java

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* /opt/cola/permits/1209482410_1633086247.97/0/xstream-1-4-18-sources-2-
jar/com/thoughtworks/xstream/security/ProxyTypePermission.java
* /opt/cola/permits/1209482410_1633086247.97/0/xstream-1-4-18-sources-2-
jar/com/thoughtworks/xstream/security/CGLIBProxyTypePermission.java
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jar/com/thoughtworks/xstream/converters/enums/EnumToStringConverter.java
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jar/com/thoughtworks/xstream/converters/reflection/SelfStreamingInstanceChecker.java
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jar/com/thoughtworks/xstream/persistence/XmlSet.java  
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jar/com/thoughtworks/xstream/core/util/Types.java  
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jar/com/thoughtworks/xstream/io/xml/AbstractXmlDriver.java  
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\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/converters/time/ZonedDateTimeConverter.java

\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/converters/time/LocalDateConverter.java

\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/converters/time/LocalTimeConverter.java

\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/converters/time/OffsetDateTimeConverter.java

\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/converters/time/LocalDateTimeConverter.java

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jar/com/thoughtworks/xstream/mapper/ArrayMapper.java
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jar/com/thoughtworks/xstream/InitializationException.java
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Found in path(s):

\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/io/HierarchicalStreamWriter.java  
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Found in path(s):

\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/mapper/CannotResolveClassException.java  
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Found in path(s):

\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/converters/basic/BigDecimalConverter.java

\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/converters/basic/BigIntegerConverter.java

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

Manifest-Version: 1.0

Archiver-Version: Plexus Archiver

Created-By: Apache Maven

Built-By: joehni

Build-Jdk: 1.8.0\_265

Specification-Title: XStream Core

Specification-Vendor: XStream

Implementation-Title: XStream Core

Implementation-Version: 1.4.18

Implementation-Vendor-Id: com.thoughtworks.xstream

Implementation-Vendor: XStream

Bundle-License: BSD-3-Clause

Bundle-ManifestVersion: 2

Bundle-Name: XStream Core Sources

Bundle-SymbolicName: xstream.sources

Bundle-Vendor: XStream Sources

Bundle-Version: 1.4.18 Sources

Eclipse-SourceBundle: xstream;version=1.4.18

Specification-Version: 1.4

X-Build-Os: Linux

X-Build-Time: 2021-08-22T11:58:11Z

X-Builder: Maven 3.8.1

X-Compile-Source: 1.4

X-Compile-Target: 1.4

Found in path(s):

\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-jar/META-INF/MANIFEST.MF

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Found in path(s):

\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/core/util/ISO8601JodaTimeConverter.java  
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Found in path(s):

\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/core/util/QuickWriter.java  
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Found in path(s):

\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/core/MapBackedDataHolder.java  
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Found in path(s):

\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/annotations/XStreamConverters.java

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Found in path(s):

\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/core/util/Cloneables.java

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Found in path(s):

\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/converters/basic/ShortConverter.java

\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/converters/basic/DoubleConverter.java

\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/converters/basic/FloatConverter.java

\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/converters/basic/CharConverter.java

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 * Created on 21.06.2015 by Joerg Schaible
 */
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Found in path(s):

```
*/opt/cola/permits/1209482410_1633086247.97/0/xstream-1-4-18-sources-2-
jar/com/thoughtworks/xstream/converters/extended/ActivationDataFlavorConverter.java
```

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Found in path(s):

```
*/opt/cola/permits/1209482410_1633086247.97/0/xstream-1-4-18-sources-2-
jar/com/thoughtworks/xstream/converters/javabean/PropertyDictionary.java
```

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Found in path(s):

\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/mapper/EnumMapper.java

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\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/core/ReferenceByXPathMarshaller.java

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\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/mapper/CachingMapper.java

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\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/converters/extended/CharsetConverter.java

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Found in path(s):

\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/converters/extended/ToStringConverter.java

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\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/io/xml/xppdom/XppDom.java

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Found in path(s):

\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/converters/reflection/SerializationMethodInvoker.java  
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Found in path(s):

\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/core/util/Base64JavaUtilCodec.java  
\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/core/util/Base64JAXBCodec.java  
\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/core/StringCodec.java  
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Found in path(s):

\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/mapper/OuterClassMapper.java  
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\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-  
jar/com/thoughtworks/xstream/core/util/TypedNull.java  
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Found in path(s):

\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-  
jar/com/thoughtworks/xstream/converters/reflection/Sun14ReflectionProvider.java  
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\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-  
jar/com/thoughtworks/xstream/converters/collections/SingletonMapConverter.java  
\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-  
jar/com/thoughtworks/xstream/converters/collections/SingletonCollectionConverter.java  
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\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-  
jar/com/thoughtworks/xstream/mapper/DefaultImplementationsMapper.java  
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\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-  
jar/com/thoughtworks/xstream/converters/javabean/JavaBeanConverter.java  
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\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-  
jar/com/thoughtworks/xstream/converters/extended/FontConverter.java

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* /opt/cola/permits/1209482410_1633086247.97/0/xstream-1-4-18-sources-2-
jar/com/thoughtworks/xstream/converters/extended/FileConverter.java
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* Created on 08. January 2014 by Joerg Schaible, renamed from Sun14ReflectionProvider
*/
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* /opt/cola/permits/1209482410_1633086247.97/0/xstream-1-4-18-sources-2-
jar/com/thoughtworks/xstream/converters/reflection/SunUnsafeReflectionProvider.java
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\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/io/xml/Dom4JXmlWriter.java

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\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/annotations/XStreamContainedType.java

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jar/com/thoughtworks/xstream/io/xml/BEAStaxDriver.java  
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jar/com/thoughtworks/xstream/core/TreeMarshaller.java  
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jar/com/thoughtworks/xstream/io/xml/PrettyPrintWriter.java  
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\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-  
jar/com/thoughtworks/xstream/core/util/ThreadSafeSimpleDateFormat.java  
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Found in path(s):

\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-  
jar/com/thoughtworks/xstream/converters/javabean/BeanProvider.java  
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\* Created on 13. June 2006 by Guilherme Silveira  
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Found in path(s):

\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-  
jar/com/thoughtworks/xstream/persistence/XmlMap.java



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* Created on 02. January 2021 by Joerg Schaible
*/
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Found in path(s):

```
*/opt/cola/permits/1209482410_1633086247.97/0/xstream-1-4-18-sources-2-
jar/com/thoughtworks/xstream/io/xml/MXParserDomDriver.java
```

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* Created on 22. June 2006 by Mauro Talevi
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```

Found in path(s):

```
*/opt/cola/permits/1209482410_1633086247.97/0/xstream-1-4-18-sources-2-
jar/com/thoughtworks/xstream/io/ExtendedHierarchicalStreamWriter.java
*/opt/cola/permits/1209482410_1633086247.97/0/xstream-1-4-18-sources-2-
jar/com/thoughtworks/xstream/io/ExtendedHierarchicalStreamWriterHelper.java
```

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Found in path(s):

\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/io/xml/XppDomDriver.java

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Found in path(s):

\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/security/TypeHierarchyPermission.java

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\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/core/util/ArrayIterator.java

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\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-

jar/com/thoughtworks/xstream/annotations/XStreamConverter.java  
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Found in path(s):

\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/io/xml/XStream11XmlFriendlyReplacer.java  
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 * Created on 01. March 2013 by Joerg Schaible, moved from package
 * com.thoughtworks.xstream.converters.reflection.
 */
```

Found in path(s):

\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/core/util/SelfStreamingInstanceChecker.java  
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\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/converters/extended/ISO8601DateConverter.java  
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\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/io/xml/DomReader.java  
\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/io/path/PathTracker.java  
\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/io/xml/XppDomReader.java  
\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/io/xml/XppDomWriter.java  
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\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/io/AbstractWriter.java  
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\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-  
jar/com/thoughtworks/xstream/mapper/ClassAliasingMapper.java  
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jar/com/thoughtworks/xstream/security/PrimitiveTypePermission.java  
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\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-  
jar/com/thoughtworks/xstream/core/BaseException.java  
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\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-  
jar/com/thoughtworks/xstream/core/ReferenceByXPathMarshallingStrategy.java  
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\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-  
jar/com/thoughtworks/xstream/converters/SingleValueConverterWrapper.java  
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\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-  
jar/com/thoughtworks/xstream/core/util/WeakCache.java  
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jar/com/thoughtworks/xstream/io/WriterWrapper.java  
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jar/com/thoughtworks/xstream/io/path/PathTrackingReader.java  
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jar/com/thoughtworks/xstream/security/ExplicitTypePermission.java  
\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-  
jar/com/thoughtworks/xstream/security/WildcardTypePermission.java  
\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-  
jar/com/thoughtworks/xstream/security/NoPermission.java  
\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-  
jar/com/thoughtworks/xstream/security/ArrayTypePermission.java  
\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-  
jar/com/thoughtworks/xstream/security/RegExpTypePermission.java

\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/security/NullPermission.java

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c.t.x.converters.reflection.SerializationMemberInvoker.

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\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/core/util/SerializationMembers.java

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\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/annotations/XStreamAsAttribute.java  
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\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/io/xml/DocumentReader.java

\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/io/xml/DocumentWriter.java

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\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/io/naming/NameCoderWrapper.java

\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/io/xml/XStream11NameCoder.java

\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/io/naming/NoNameCoder.java

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jar/com/thoughtworks/xstream/converters/time/package.html  
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jar/com/thoughtworks/xstream/io/AbstractReader.java  
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jar/com/thoughtworks/xstream/core/Caching.java  
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\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-  
jar/com/thoughtworks/xstream/mapper/AnnotationConfiguration.java  
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Found in path(s):

\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-  
jar/com/thoughtworks/xstream/converters/collections/AbstractCollectionConverter.java  
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\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-  
jar/com/thoughtworks/xstream/converters/extended/SqlTimestampConverter.java  
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\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-  
jar/com/thoughtworks/xstream/converters/extended/ThrowableConverter.java  
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\* Created on 06. May 2005 by Guilherme Silveira  
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Found in path(s):

\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-  
jar/com/thoughtworks/xstream/annotations/XStreamOmitField.java  
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\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-  
jar/com/thoughtworks/xstream/converters/basic/IntConverter.java  
\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-

jar/com/thoughtworks/xstream/converters/basic/BooleanConverter.java

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\* Created on 08. January 2016 by Joerg Schaible, factored out from FieldAliasingMapper.

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Found in path(s):

\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-

jar/com/thoughtworks/xstream/mapper/ElementIgnoringMapper.java

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\* Created on 31. July 2004 by Joe Walnes

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Found in path(s):

\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-

jar/com/thoughtworks/xstream/converters/extended/RegexPatternConverter.java

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Found in path(s):



\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/core/util/XmlHeaderAwareReader.java  
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\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/converters/extended/DynamicProxyConverter.java  
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Found in path(s):

\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/io/xml/CompactWriter.java  
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\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/converters/time/HijrahDateConverter.java

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\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/core/AbstractReferenceUnmarshaller.java

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\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/core/util/FastField.java

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\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/converters/time/ZoneIdConverter.java

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\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/io/xml/StandardStaxDriver.java

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Found in path(s):

\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/core/AbstractTreeMarshallingStrategy.java

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Found in path(s):

\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/io/xml/xppdom/Xpp3DomBuilder.java  
\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/io/xml/Dom4JWriter.java  
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\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/converters/ErrorWriter.java  
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Found in path(s):

\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/io/xml/KXml2DomDriver.java  
\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/io/xml/AbstractXppDomDriver.java  
\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/io/xml/Xpp3DomDriver.java  
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- \* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/converters/reflection/FieldUtil14.java
  - \* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/converters/reflection/FieldUtil15.java
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- \* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/converters/basic/LongConverter.java
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- \* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/core/util/OrderRetainingMap.java

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* /opt/cola/permits/1209482410_1633086247.97/0/xstream-1-4-18-sources-2-
jar/com/thoughtworks/xstream/converters/reflection/XStream12FieldKeySorter.java
```

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```
* /opt/cola/permits/1209482410_1633086247.97/0/xstream-1-4-18-sources-2-
jar/com/thoughtworks/xstream/core/util/Fields.java
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 * Created on 24. June 2012 by Joerg Schaible
 */
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Found in path(s):

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* /opt/cola/permits/1209482410_1633086247.97/0/xstream-1-4-18-sources-2-
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jar/com/thoughtworks/xstream/io/xml/JDom2Driver.java

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jar/com/thoughtworks/xstream/XStreamer.java

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\* Created on 17. April 2006 by Mauro Talevi

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\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-

jar/com/thoughtworks/xstream/io/xml/XmlFriendlyReplacer.java

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\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/annotations/XStreamAlias.java

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\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/io/xml/XmlFriendlyReader.java

\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/io/xml/XmlFriendlyWriter.java

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\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/core/util/CustomObjectInputStream.java

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\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/converters/reflection/AbstractAttributedCharacterIteratorAttributeConverter.java

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\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/persistence/XmlArrayList.java  
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\* Created on 11. August 2011 by Joerg Schaible, code from XppDom.  
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\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/io/xml/xppdom/XppFactory.java  
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Found in path(s):

\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-  
jar/com/thoughtworks/xstream/converters/reflection/MissingFieldException.java  
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\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-  
jar/com/thoughtworks/xstream/converters/reflection/CGLIBEnhancedConverter.java  
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\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-  
jar/com/thoughtworks/xstream/mapper/PackageAliasingMapper.java  
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Found in path(s):

\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-  
jar/com/thoughtworks/xstream/converters/extended/PathConverter.java  
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\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-  
jar/com/thoughtworks/xstream/converters/basic/URIConverter.java  
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\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-  
jar/com/thoughtworks/xstream/io/xml/StaxDriver.java  
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\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-  
jar/com/thoughtworks/xstream/core/DefaultConverterLookup.java  
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\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-  
jar/com/thoughtworks/xstream/converters/basic/StringBufferConverter.java  
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\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-  
jar/com/thoughtworks/xstream/io/xml/AbstractXmlWriter.java  
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\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-  
jar/com/thoughtworks/xstream/io/json/JettisonMappedXmlDriver.java  
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\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-  
jar/com/thoughtworks/xstream/converters/extended/JavaFieldConverter.java  
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\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-  
jar/com/thoughtworks/xstream/mapper/AbstractAttributeAliasingMapper.java  
\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-  
jar/com/thoughtworks/xstream/mapper/SystemAttributeAliasingMapper.java  
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\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-  
jar/com/thoughtworks/xstream/converters/collections/ArrayConverter.java  
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\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-



jar/com/thoughtworks/xstream/core/util/PrioritizedList.java

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jar/com/thoughtworks/xstream/io/xml/xppdom/Xpp3Dom.java

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jar/com/thoughtworks/xstream/io/binary/Token.java

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\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/io/AbstractDriver.java

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\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/io/xml/AbstractDocumentWriter.java  
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\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/core/JVM.java  
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\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/converters/enums/EnumConverter.java  
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\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/core/util/ThreadSafePropertyEditor.java  
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\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/converters/extended/TextAttributeConverter.java  
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\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/converters/reflection/SerializableConverter.java  
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jar/com/thoughtworks/xstream/converters/reflection/ReflectionConverter.java  
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\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-  
jar/com/thoughtworks/xstream/core/util/CustomObjectOutputStream.java  
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jar/com/thoughtworks/xstream/converters/extended/ISO8601GregorianCalendarConverter.java  
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jar/com/thoughtworks/xstream/converters/basic/ByteConverter.java  
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jar/com/thoughtworks/xstream/converters/collections/BitSetConverter.java  
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jar/com/thoughtworks/xstream/io/HierarchicalStreamDriver.java  
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jar/com/thoughtworks/xstream/annotations/XStreamImplicitCollection.java  
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jar/com/thoughtworks/xstream/converters/collections/PropertiesConverter.java  
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jar/com/thoughtworks/xstream/core/SequenceGenerator.java

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jar/com/thoughtworks/xstream/converters/time/MonthDayConverter.java
 * /opt/cola/permits/1209482410_1633086247.97/0/xstream-1-4-18-sources-2-
jar/com/thoughtworks/xstream/converters/time/PeriodConverter.java
 * /opt/cola/permits/1209482410_1633086247.97/0/xstream-1-4-18-sources-2-
jar/com/thoughtworks/xstream/converters/time/DurationConverter.java
```

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 * Created on 10. April 2005 by Joe Walnes
 */
```

Found in path(s):

```
* /opt/cola/permits/1209482410_1633086247.97/0/xstream-1-4-18-sources-2-
jar/com/thoughtworks/xstream/io/ReaderWrapper.java
```

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```

\* Created on 03. May 2006 by Mauro Talevi

\*/

Found in path(s):

\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/mapper/XStream11XmlFriendlyMapper.java

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\* Created on 27. March 2006 by Joerg Schaible

\*/

Found in path(s):

\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/mapper/AttributeAliasingMapper.java

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\* Created on 14. August 2004 by Joe Walnes

\*/

/\*\*

\* A SAX {[@link org.xml.sax.XMLReader](#) parser} that acts as an XStream

\* {[@link com.thoughtworks.xstream.io.HierarchicalStreamWriter](#)} to enable direct generation of a

\* SAX event flow from the XStream serialization of a list of list of Java objects.

\* <p>

\* As a

\* custom SAX parser, this class ignores the arguments of the two standard parse methods ({[@link #parse\(java.lang.String\)](#)})

\* and {[@link #parse\(org.xml.sax.InputSource\)](#)}) but relies on a proprietary SAX property

\* {[@link #SOURCE\\_OBJECT\\_LIST\\_PROPERTY](#)} to define the list of objects to serialize.

\* </p>

\* <p>

\* Configuration of this SAX parser is achieved through the standard  
\* { @link #setProperty SAX property mechanism}. While specific setter methods require direct  
\* access to the parser instance, SAX properties support configuration settings to be propagated  
\* through a chain of { @link org.xml.sax.XMLFilter filters} down to the underlying parser  
\* object.

\* </p>

\* <p>

\* This mechanism shall be used to configure the

\* { @link #SOURCE\_OBJECT\_LIST\_PROPERTY objects to be serialized} as well as the

\* { @link #CONFIGURED\_XSTREAM\_PROPERTY XStream facade}.

\* </p>

\*

\* @author Laurent Bihanic

\*/

/\*\*

\* Sets the value of a property.

\* <p>

\* The property name is any fully-qualified URI. It is

\* possible for an XMLReader to recognize a property name but

\* to be unable to set its value.</p>

\* <p>

\* XMLReaders are not required to recognize setting any

\* specific property names, though a core set is provided with

\* SAX2.</p>

\* <p>

\* Some property values may be immutable or mutable only

\* in specific contexts, such as before, during, or after

\* a parse.</p>

\* <p>

\* This method is also the standard mechanism for setting

\* extended handlers.</p>

\* <p>

\* <strong>Note</strong>: This implementation only supports two

\* (proprietary) properties: { @link #CONFIGURED\_XSTREAM\_PROPERTY}

\* and { @link #SOURCE\_OBJECT\_LIST\_PROPERTY}.</p>

\*

\* @param name the property name, which is a fully-qualified URI.

\* @param value the requested value for the property.

\* @throws SAXNotRecognizedException when the XMLReader does not

\* recognize the property name.

\* @throws SAXNotSupportedException when the XMLReader recognizes

\* the property name but cannot set

\* the requested value.

\* @see #getProperty

\*/

/\*\*

\* Parses an XML document from a system identifier (URI).

\* <p>

```

* This method is a shortcut for the common case of reading a
* document from a system identifier. It is the exact
* equivalent of the following:</p>
* <blockquote>
* <pre>
* parse(new InputSource(systemId));
* </pre>
* </blockquote>
* <p>
* If the system identifier is a URL, it must be fully resolved
* by the application before it is passed to the parser.</p>
* <p>
* Note: As a custom SAX parser, this class
* ignores the <code>systemId</code> argument of this method
* and relies on the proprietary SAX property
* {@link #SOURCE_OBJECT_LIST_PROPERTY}) to define the list of
* objects to serialize.</p>
*
* @param systemId the system identifier (URI).
* @throws SAXException Any SAX exception, possibly wrapping
* another exception.
* @see #parse(org.xml.sax.InputSource)
*/

```

Found in path(s):

```

* /opt/cola/permits/1209482410_1633086247.97/0/xstream-1-4-18-sources-2-
jar/com/thoughtworks/xstream/io/xml/SaxWriter.java

```

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```

/*

```

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```

Found in path(s):

```

* /opt/cola/permits/1209482410_1633086247.97/0/xstream-1-4-18-sources-2-
jar/com/thoughtworks/xstream/converters/extended/ColorConverter.java

```

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```

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```

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\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-  
jar/com/thoughtworks/xstream/converters/reflection/NativeFieldKeySorter.java  
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\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-  
jar/com/thoughtworks/xstream/converters/reflection/ReflectionProvider.java  
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\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-  
jar/com/thoughtworks/xstream/io/xml/QNameMap.java  
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 */
```

Found in path(s):

```
* /opt/cola/permits/1209482410_1633086247.97/0/xstream-1-4-18-sources-2-
jar/com/thoughtworks/xstream/converters/time/ValueRangeConverter.java
* /opt/cola/permits/1209482410_1633086247.97/0/xstream-1-4-18-sources-2-
jar/com/thoughtworks/xstream/converters/time/ThaiBuddhistDateConverter.java
* /opt/cola/permits/1209482410_1633086247.97/0/xstream-1-4-18-sources-2-
jar/com/thoughtworks/xstream/converters/time/MinguoDateConverter.java
* /opt/cola/permits/1209482410_1633086247.97/0/xstream-1-4-18-sources-2-
jar/com/thoughtworks/xstream/converters/time/AbstractChronoLocalDateConverter.java
* /opt/cola/permits/1209482410_1633086247.97/0/xstream-1-4-18-sources-2-
jar/com/thoughtworks/xstream/converters/time/JapaneseDateConverter.java
* /opt/cola/permits/1209482410_1633086247.97/0/xstream-1-4-18-sources-2-
jar/com/thoughtworks/xstream/converters/time/WeekFieldsConverter.java
```

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 */
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```
* /opt/cola/permits/1209482410_1633086247.97/0/xstream-1-4-18-sources-2-
jar/com/thoughtworks/xstream/io/xml/xppdom/XppDomComparator.java
```

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\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-  
jar/com/thoughtworks/xstream/converters/collections/TreeSetConverter.java  
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\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-  
jar/com/thoughtworks/xstream/io/xml/XppDriver.java  
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\*  
\* Created on 24. June 2012 by Joerg Schaible  
\*/

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\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-  
jar/com/thoughtworks/xstream/io/xml/JDom2Writer.java  
\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-  
jar/com/thoughtworks/xstream/io/xml/JDom2Reader.java  
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\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-  
jar/com/thoughtworks/xstream/XStreamException.java  
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\*  
\* Created on 12.10.2010 by Joerg Schaible, extracted from TreeMapConverter.  
\*/

Found in path(s):

\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-  
jar/com/thoughtworks/xstream/core/util/PresortedMap.java  
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\*  
\* Created on 15. August 2009 by Joerg Schaible, copied from XmlFriendlyReplacer.  
\*/

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\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-  
jar/com/thoughtworks/xstream/io/xml/XmlFriendlyNameCoder.java  
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\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-  
jar/com/thoughtworks/xstream/mapper/XmlFriendlyMapper.java  
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\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-  
jar/com/thoughtworks/xstream/core/ReferenceByIdUnmarshaller.java  
\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-  
jar/com/thoughtworks/xstream/core/ReferenceByIdMarshaller.java  
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\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-  
jar/com/thoughtworks/xstream/converters/UnmarshallingContext.java  
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* Created on 08. January 2014 by Joerg Schaible, factored out from SunUnsafeReflectionProvider
*/
```

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```
*/opt/cola/permits/1209482410_1633086247.97/0/xstream-1-4-18-sources-2-
jar/com/thoughtworks/xstream/converters/reflection/SunLimitedUnsafeReflectionProvider.java
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```
*/opt/cola/permits/1209482410_1633086247.97/0/xstream-1-4-18-sources-2-
jar/com/thoughtworks/xstream/core/util/DependencyInjectionFactory.java
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Found in path(s):

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*/opt/cola/permits/1209482410_1633086247.97/0/xstream-1-4-18-sources-2-
jar/com/thoughtworks/xstream/io/json/JettisonStaxWriter.java
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\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-  
jar/com/thoughtworks/xstream/converters/enums/EnumSetConverter.java  
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\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-  
jar/com/thoughtworks/xstream/converters/extended/ToAttributedValueConverter.java  
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\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-  
jar/com/thoughtworks/xstream/mapper/SecurityMapper.java  
\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-  
jar/com/thoughtworks/xstream/security/TypePermission.java  
\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-  
jar/com/thoughtworks/xstream/security/NoTypePermission.java  
\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-  
jar/com/thoughtworks/xstream/security/AnyTypePermission.java  
\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-  
jar/com/thoughtworks/xstream/security/ForbiddenClassException.java

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\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-  
jar/com/thoughtworks/xstream/converters/time/ChronologyConverter.java  
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\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-  
jar/com/thoughtworks/xstream/converters/reflection/ReflectionProviderWrapper.java  
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\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-  
jar/com/thoughtworks/xstream/persistence/AbstractFilePersistenceStrategy.java

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*/
```

Found in path(s):

```
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\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/converters/javabeen/ComparingPropertySorter.java

\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/converters/javabeen/PropertySorter.java

\* /opt/cola/permits/1209482410\_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/converters/javabeen/NativePropertySorter.java

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jar/com/thoughtworks/xstream/converters/ConverterLookup.java  
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jar/com/thoughtworks/xstream/converters/time/SystemClockConverter.java  
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jar/com/thoughtworks/xstream/converters/extended/JavaMethodConverter.java

## 1.301 xsdlib 2013.6.1

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\* /opt/cola/permits/1257217844\_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/XSDatatypeImpl.java

\* /opt/cola/permits/1257217844\_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/ListType.java

\* /opt/cola/permits/1257217844\_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/xml/util/XmlChars.java

\* /opt/cola/permits/1257217844\_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/Base64BinaryType.java

\* /opt/cola/permits/1257217844\_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/GYearMonthType.java

\* /opt/cola/permits/1257217844\_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/IntegerDerivedType.java  
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jar/com/sun/msv/datatype/regexp/ParserForXMLSchema.java

\* /opt/cola/permits/1257217844\_1642790354.82/0/xsdlb-2013-6-1-sources-  
jar/com/sun/msv/datatype/regexp/RegexParser.java

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jar/com/sun/msv/datatype/regexp/message.properties

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jar/com/sun/msv/datatype/regexp/message\_ja.properties

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\* /opt/cola/permits/1257217844\_1642790354.82/0/xsdlb-2013-6-1-sources-  
 jar/com/sun/msv/datatype/regexp/BMPattern.java  
 \* /opt/cola/permits/1257217844\_1642790354.82/0/xsdlb-2013-6-1-sources-  
 jar/com/sun/msv/datatype/regexp/RegularExpression.java  
 \* /opt/cola/permits/1257217844\_1642790354.82/0/xsdlb-2013-6-1-sources-  
 jar/com/sun/msv/datatype/regexp/Op.java  
 \* /opt/cola/permits/1257217844\_1642790354.82/0/xsdlb-2013-6-1-sources-  
 jar/com/sun/msv/datatype/regexp/ParseException.java  
 \* /opt/cola/permits/1257217844\_1642790354.82/0/xsdlb-2013-6-1-sources-  
 jar/com/sun/msv/datatype/regexp/Match.java  
 \* /opt/cola/permits/1257217844\_1642790354.82/0/xsdlb-2013-6-1-sources-  
 jar/com/sun/msv/datatype/regexp/REUtil.java  
 \* /opt/cola/permits/1257217844\_1642790354.82/0/xsdlb-2013-6-1-sources-

jar/com/sun/msv/datatype/regexp/Token.java

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jar/com/sun/msv/datatype/xsd/Messages.properties
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jar/com/sun/msv/datatype/xsd/Messages_ja.properties
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\* org.eclipse.jetty.orbit:javax.security.auth.message

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\* org.eclipse.jetty.orbit:javax.mail.glassfish

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

\* javax.servlet:javax.servlet-api

- \* javax.annotation:javax.annotation-api
- \* javax.transaction:javax.transaction-api
- \* javax.websocket:javax.websocket-api

-----

#### Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

- \* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

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The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

- org.ow2.asm:asm-commons
- org.ow2.asm:asm

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- org.apache.taglibs:taglibs-standard-spec
- org.apache.taglibs:taglibs-standard-impl

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- org.mortbay.jasper:apache-jsp
- org.apache.tomcat:tomcat-jasper
- org.apache.tomcat:tomcat-juli
- org.apache.tomcat:tomcat-jsp-api

org.apache.tomcat:tomcat-el-api  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-api  
org.apache.tomcat:tomcat-util-scan  
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-el-api

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Mortbay

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org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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## 1.303 gson 1.8.3

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Found in path(s):

\* /opt/cola/permits/1616263836\_1680504051.6068473/0/kivakit-serialization-gson-1-8-3-jar-zip/kivakit-serialization-gson-1-8-3-jar/META-INF/maven/com.telenav.kivakit/kivakit-serialization-gson/pom.xml



# 1.304 txw2 2.3.8

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The project maintains the following source code repositories:

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- \* <https://github.com/eclipse-ee4j/jaxb-dtd-parser>
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# 1.307 thymeleaf 3.0.15.RELEASE

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```
* /opt/cola/permits/1612247502_1680504049.6140823/0/selenium-firefox-driver-4-1-4-sources-
jar/org/openqa/selenium/firefox/AddHasFullPageScreenshot.java
* /opt/cola/permits/1612247502_1680504049.6140823/0/selenium-firefox-driver-4-1-4-sources-
jar/org/openqa/selenium/firefox/FirefoxBinary.java
* /opt/cola/permits/1612247502_1680504049.6140823/0/selenium-firefox-driver-4-1-4-sources-
jar/org/openqa/selenium/firefox/Executable.java
* /opt/cola/permits/1612247502_1680504049.6140823/0/selenium-firefox-driver-4-1-4-sources-
jar/org/openqa/selenium/firefox/FirefoxDriver.java
* /opt/cola/permits/1612247502_1680504049.6140823/0/selenium-firefox-driver-4-1-4-sources-
jar/org/openqa/selenium/firefox/FirefoxDriverService.java
* /opt/cola/permits/1612247502_1680504049.6140823/0/selenium-firefox-driver-4-1-4-sources-
jar/org/openqa/selenium/firefox/GeckoDriverInfo.java
* /opt/cola/permits/1612247502_1680504049.6140823/0/selenium-firefox-driver-4-1-4-sources-
jar/org/openqa/selenium/firefox/FirefoxDriverLogLevel.java
* /opt/cola/permits/1612247502_1680504049.6140823/0/selenium-firefox-driver-4-1-4-sources-
jar/org/openqa/selenium/firefox/HasExtensions.java
* /opt/cola/permits/1612247502_1680504049.6140823/0/selenium-firefox-driver-4-1-4-sources-
jar/org/openqa/selenium/firefox/FirefoxCommandContext.java
* /opt/cola/permits/1612247502_1680504049.6140823/0/selenium-firefox-driver-4-1-4-sources-
jar/org/openqa/selenium/firefox/FirefoxOptions.java
* /opt/cola/permits/1612247502_1680504049.6140823/0/selenium-firefox-driver-4-1-4-sources-
jar/org/openqa/selenium/firefox/HasContext.java
* /opt/cola/permits/1612247502_1680504049.6140823/0/selenium-firefox-driver-4-1-4-sources-
jar/org/openqa/selenium/firefox/GeckoDriverService.java
* /opt/cola/permits/1612247502_1680504049.6140823/0/selenium-firefox-driver-4-1-4-sources-
jar/org/openqa/selenium/firefox/Extension.java
* /opt/cola/permits/1612247502_1680504049.6140823/0/selenium-firefox-driver-4-1-4-sources-
jar/org/openqa/selenium/firefox/AddHasContext.java
* /opt/cola/permits/1612247502_1680504049.6140823/0/selenium-firefox-driver-4-1-4-sources-
jar/org/openqa/selenium/firefox/ProfilesIni.java
* /opt/cola/permits/1612247502_1680504049.6140823/0/selenium-firefox-driver-4-1-4-sources-
jar/org/openqa/selenium/firefox/ClasspathExtension.java
* /opt/cola/permits/1612247502_1680504049.6140823/0/selenium-firefox-driver-4-1-4-sources-
jar/org/openqa/selenium/firefox/HasFullPageScreenshot.java
* /opt/cola/permits/1612247502_1680504049.6140823/0/selenium-firefox-driver-4-1-4-sources-
jar/org/openqa/selenium/firefox/AddHasExtensions.java
* /opt/cola/permits/1612247502_1680504049.6140823/0/selenium-firefox-driver-4-1-4-sources-
jar/org/openqa/selenium/firefox/UnableToCreateProfileException.java
```

```
* /opt/cola/permits/1612247502_1680504049.6140823/0/selenium-firefox-driver-4-1-4-sources-
jar/org/openqa/selenium/firefox/FileExtension.java
* /opt/cola/permits/1612247502_1680504049.6140823/0/selenium-firefox-driver-4-1-4-sources-
jar/org/openqa/selenium/firefox/Preferences.java
* /opt/cola/permits/1612247502_1680504049.6140823/0/selenium-firefox-driver-4-1-4-sources-
jar/org/openqa/selenium/firefox/FirefoxProfile.java
```

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fontconfig/fc-case/CaseFolding.txt

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-----  
fontconfig/src/fcatomic.h

/\*

\* Mutex operations. Originally copied from HarfBuzz.

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-----  
fontconfig/src/fcfoundry.h

/\*

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\*/

-----  
fontconfig/src/cmd5.h

/\*

\* This code implements the MD5 message-digest algorithm.  
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\*

\* Equivalent code is available from RSA Data Security, Inc.  
\* This code has been tested against that, and is equivalent,  
\* except that you don't need to include two pages of legalese  
\* with every copy.

\*

\* To compute the message digest of a chunk of bytes, declare an  
\* MD5Context structure, pass it to MD5Init, call MD5Update as  
\* needed on buffers full of bytes, and then call MD5Final, which  
\* will fill a supplied 16-byte array with the digest.

\*/

-----  
fontconfig/src/cmutex.h

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-----  
 fontconfig/src/ftglue.[ch]

/\* ftglue.c: Glue code for compiling the OpenType code from  
 \* FreeType 1 using only the public API of FreeType 2  
 \*  
 \* By David Turner, The FreeType Project (www.freetype.org)  
 \*  
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 \*  
 \* =====  
 \*  
 \* the OpenType parser codes was originally written as an extension to  
 \* FreeType 1.x. As such, its source code was embedded within the library,  
 \* and used many internal FreeType functions to deal with memory and  
 \* stream i/o.  
 \*  
 \* When it was 'salvaged' for Pango and Qt, the code was "ported" to FreeType 2,  
 \* which basically means that some macro tricks were performed in order to  
 \* directly access FT2 \_internal\_ functions.

\*  
\* these functions were never part of FT2 public API, and `_did_` change between  
\* various releases. This created chaos for many users: when they upgraded the  
\* FreeType library on their system, they couldn't run Gnome anymore since  
\* Pango refused to link.  
\*  
\* Very fortunately, it's possible to completely avoid this problem because  
\* the `FT_StreamRec` and `FT_MemoryRec` structure types, which describe how  
\* memory and stream implementations interface with the rest of the font  
\* library, have always been part of the public API, and never changed.  
\*  
\* What we do thus is re-implement, within the OpenType parser, the few  
\* functions that depend on them. This only adds one or two kilobytes of  
\* code, and ensures that the parser can work with `_any_` version  
\* of FreeType installed on your system. How sweet... !  
\*  
\* Note that we assume that Pango doesn't use any other internal functions  
\* from FreeType. It used to in old versions, but this should no longer  
\* be the case. (crossing my fingers).  
\*  
\* - David Turner  
\* - The FreeType Project ([www.freetype.org](http://www.freetype.org))  
\*  
\* PS: This "glue" code is explicitly put in the public domain  
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# 1.312 spring-web 5.3.25

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- \* /opt/cola/permits/1581785818\_1677766637.0626316/0/spring-security-core-5-7-7-sources-jar/org/springframework/security/authentication/UserDetailsRepositoryReactiveAuthenticationManager.java
- \* /opt/cola/permits/1581785818\_1677766637.0626316/0/spring-security-core-5-7-7-sources-jar/org/springframework/security/core/annotation/CurrentSecurityContext.java
- \* /opt/cola/permits/1581785818\_1677766637.0626316/0/spring-security-core-5-7-7-sources-

jar/org/springframework/security/access/expression/method/ExpressionBasedPreInvocationAdvice.java

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\* /opt/cola/permits/1581785818\_1677766637.0626316/0/spring-security-core-5-7-7-sources-jar/org/springframework/security/core/context/ReactiveSecurityContextHolder.java

\* /opt/cola/permits/1581785818\_1677766637.0626316/0/spring-security-core-5-7-7-sources-jar/org/springframework/security/core/userdetails/ReactiveUserDetailsService.java

\* /opt/cola/permits/1581785818\_1677766637.0626316/0/spring-security-core-5-7-7-sources-jar/org/springframework/security/core/userdetails/MapReactiveUserDetailsService.java

\* /opt/cola/permits/1581785818\_1677766637.0626316/0/spring-security-core-5-7-7-sources-jar/org/springframework/security/core/AuthenticatedPrincipal.java

\* /opt/cola/permits/1581785818\_1677766637.0626316/0/spring-security-core-5-7-7-sources-jar/org/springframework/security/authorization/AuthenticatedReactiveAuthorizationManager.java

\* /opt/cola/permits/1581785818\_1677766637.0626316/0/spring-security-core-5-7-7-sources-jar/org/springframework/security/core/parameters/P.java

\* /opt/cola/permits/1581785818\_1677766637.0626316/0/spring-security-core-5-7-7-sources-jar/org/springframework/security/authentication/ReactiveAuthenticationManager.java

\* /opt/cola/permits/1581785818\_1677766637.0626316/0/spring-security-core-5-7-7-sources-jar/org/springframework/security/core/SpringSecurityCoreVersion.java

\* /opt/cola/permits/1581785818\_1677766637.0626316/0/spring-security-core-5-7-7-sources-jar/org/springframework/security/authorization/ReactiveAuthorizationManager.java

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* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
/**
* A token issued by {@link TokenService}.
*
* <p>
* It is important that the keys assigned to tokens are sufficiently randomised and
* secured that they can serve as identifying a unique user session. Implementations of
* {@link TokenService} are free to use encryption or encoding strategies of their choice.
* It is strongly recommended that keys are of sufficient length to balance safety against
* persistence cost. In relation to persistence cost, it is strongly recommended that
* returned keys are small enough for encoding in a cookie.
* </p>
*
* @author Ben Alex
* @since 2.0.1
*/
```

Found in path(s):

```
* /opt/cola/permits/1581785818_1677766637.0626316/0/spring-security-core-5-7-7-sources-
jar/org/springframework/security/core/token/Token.java
```

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```
* /opt/cola/permits/1581785818_1677766637.0626316/0/spring-security-core-5-7-7-sources-
jar/org/springframework/security/jackson2/UsernamePasswordAuthenticationTokenDeserializer.java
```

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 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
/**
 * Determines if the { @link #getAuthentication() } has permission to access the target
 * given the permission
 * @param target the target domain object to check permission on
 * @param permission the permission to check on the domain object (i.e. "read",
 * "write", etc).
 * @return true if permission is granted to the { @link #getAuthentication() }, else
 * false
 */
```

Found in path(s):

```
* /opt/cola/permits/1581785818_1677766637.0626316/0/spring-security-core-5-7-7-sources-
jar/org/springframework/security/access/expression/SecurityExpressionOperations.java
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```

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 */
```

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\* /opt/cola/permits/1581785818\_1677766637.0626316/0/spring-security-core-5-7-7-sources-jar/org/springframework/security/jackson2/SecurityJackson2Modules.java

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\* /opt/cola/permits/1581785818\_1677766637.0626316/0/spring-security-core-5-7-7-sources-jar/org/springframework/security/access/AccessDeniedException.java

\* /opt/cola/permits/1581785818\_1677766637.0626316/0/spring-security-core-5-7-7-sources-jar/org/springframework/security/authentication/rcp/RemoteAuthenticationManagerImpl.java

\* /opt/cola/permits/1581785818\_1677766637.0626316/0/spring-security-core-5-7-7-sources-jar/org/springframework/security/access/SecurityConfig.java

\* /opt/cola/permits/1581785818\_1677766637.0626316/0/spring-security-core-5-7-7-sources-jar/org/springframework/security/core/context/GlobalSecurityContextHolderStrategy.java

\* /opt/cola/permits/1581785818\_1677766637.0626316/0/spring-security-core-5-7-7-sources-jar/org/springframework/security/authentication/AuthenticationCredentialsNotFoundException.java

\* /opt/cola/permits/1581785818\_1677766637.0626316/0/spring-security-core-5-7-7-sources-jar/org/springframework/security/authentication/dao/DaoAuthenticationProvider.java

\* /opt/cola/permits/1581785818\_1677766637.0626316/0/spring-security-core-5-7-7-sources-jar/org/springframework/security/access/AfterInvocationProvider.java

\* /opt/cola/permits/1581785818\_1677766637.0626316/0/spring-security-core-5-7-7-sources-jar/org/springframework/security/authentication/ProviderNotFoundException.java

\* /opt/cola/permits/1581785818\_1677766637.0626316/0/spring-security-core-5-7-7-sources-jar/org/springframework/security/access/intercept/aopalliance/MethodSecurityMetadataSourceAdvisor.java

\* /opt/cola/permits/1581785818\_1677766637.0626316/0/spring-security-core-5-7-7-sources-jar/org/springframework/security/core/session/SessionInformation.java

\* /opt/cola/permits/1581785818\_1677766637.0626316/0/spring-security-core-5-7-7-sources-jar/org/springframework/security/authentication/event/AuthenticationFailureDisabledEvent.java

\* /opt/cola/permits/1581785818\_1677766637.0626316/0/spring-security-core-5-7-7-sources-jar/org/springframework/security/core/userdetails/UsernameNotFoundException.java

\* /opt/cola/permits/1581785818\_1677766637.0626316/0/spring-security-core-5-7-7-sources-jar/org/springframework/security/util/InMemoryResource.java

\* /opt/cola/permits/1581785818\_1677766637.0626316/0/spring-security-core-5-7-7-sources-jar/org/springframework/security/authentication/jaas/AuthorityGranter.java  
\* /opt/cola/permits/1581785818\_1677766637.0626316/0/spring-security-core-5-7-7-sources-jar/org/springframework/security/util/SimpleMethodInvocation.java  
\* /opt/cola/permits/1581785818\_1677766637.0626316/0/spring-security-core-5-7-7-sources-jar/org/springframework/security/authentication/jaas/JaasNameCallbackHandler.java  
\* /opt/cola/permits/1581785818\_1677766637.0626316/0/spring-security-core-5-7-7-sources-jar/org/springframework/security/core/context/SecurityContextImpl.java  
\* /opt/cola/permits/1581785818\_1677766637.0626316/0/spring-security-core-5-7-7-sources-jar/org/springframework/security/access/annotation/Secured.java  
\* /opt/cola/permits/1581785818\_1677766637.0626316/0/spring-security-core-5-7-7-sources-jar/org/springframework/security/authentication/jaas/JaasPasswordCallbackHandler.java  
\* /opt/cola/permits/1581785818\_1677766637.0626316/0/spring-security-core-5-7-7-sources-jar/org/springframework/security/access/event/LoggerListener.java  
\* /opt/cola/permits/1581785818\_1677766637.0626316/0/spring-security-core-5-7-7-sources-jar/org/springframework/security/util/FieldUtils.java  
\* /opt/cola/permits/1581785818\_1677766637.0626316/0/spring-security-core-5-7-7-sources-jar/org/springframework/security/access/intercept/InterceptorStatusToken.java  
\* /opt/cola/permits/1581785818\_1677766637.0626316/0/spring-security-core-5-7-7-sources-jar/org/springframework/security/access/method/AbstractMethodSecurityMetadataSource.java  
\* /opt/cola/permits/1581785818\_1677766637.0626316/0/spring-security-core-5-7-7-sources-jar/org/springframework/security/core/userdetails/cache/NullUserCache.java  
\* /opt/cola/permits/1581785818\_1677766637.0626316/0/spring-security-core-5-7-7-sources-jar/org/springframework/security/authentication/event/AuthenticationFailureProxyUntrustedEvent.java  
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\* /opt/cola/permits/1581785818\_1677766637.0626316/0/spring-security-core-5-7-7-sources-jar/org/springframework/security/access/intercept/RunAsImplAuthenticationProvider.java  
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\* /opt/cola/permits/1581785818\_1677766637.0626316/0/spring-security-core-5-7-7-sources-jar/org/springframework/security/authentication/AnonymousAuthenticationProvider.java  
\* /opt/cola/permits/1581785818\_1677766637.0626316/0/spring-security-core-5-7-7-sources-jar/org/springframework/security/authentication/AuthenticationTrustResolverImpl.java  
\* /opt/cola/permits/1581785818\_1677766637.0626316/0/spring-security-core-5-7-7-sources-jar/org/springframework/security/authentication/rcp/RemoteAuthenticationManager.java  
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\* /opt/cola/permits/1581785818\_1677766637.0626316/0/spring-security-core-5-7-7-sources-jar/org/springframework/security/core/context/InheritableThreadLocalSecurityContextHolderStrategy.java  
\* /opt/cola/permits/1581785818\_1677766637.0626316/0/spring-security-core-5-7-7-sources-jar/org/springframework/security/core/session/SessionRegistryImpl.java  
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\* /opt/cola/permits/1581785818\_1677766637.0626316/0/spring-security-core-5-7-7-sources-jar/org/springframework/security/authentication/event/AuthenticationFailureProviderNotFoundEvent.java

\* /opt/cola/permits/1581785818\_1677766637.0626316/0/spring-security-core-5-7-7-sources-jar/org/springframework/security/access/intercept/MethodInvocationPrivilegeEvaluator.java  
\* /opt/cola/permits/1581785818\_1677766637.0626316/0/spring-security-core-5-7-7-sources-jar/org/springframework/security/authentication/AuthenticationManager.java  
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\* /opt/cola/permits/1581785818\_1677766637.0626316/0/spring-security-core-5-7-7-sources-jar/org/springframework/security/authentication/jaas/event/JaasAuthenticationFailedEvent.java  
\* /opt/cola/permits/1581785818\_1677766637.0626316/0/spring-security-core-5-7-7-sources-jar/org/springframework/security/core/session/SessionRegistry.java  
\* /opt/cola/permits/1581785818\_1677766637.0626316/0/spring-security-core-5-7-7-sources-jar/org/springframework/security/core/userdetails/cache/EhCacheBasedUserCache.java  
\* /opt/cola/permits/1581785818\_1677766637.0626316/0/spring-security-core-5-7-7-sources-jar/org/springframework/security/authentication/event/AuthenticationFailureLockedEvent.java  
\* /opt/cola/permits/1581785818\_1677766637.0626316/0/spring-security-core-5-7-7-sources-jar/org/springframework/security/util/MethodInvocationUtils.java  
\* /opt/cola/permits/1581785818\_1677766637.0626316/0/spring-security-core-5-7-7-sources-jar/org/springframework/security/authentication/event/AuthenticationFailureExpiredEvent.java  
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\* /opt/cola/permits/1581785818\_1677766637.0626316/0/spring-security-core-5-7-7-sources-jar/org/springframework/security/core/userdetails/memory/UserAttribute.java  
\* /opt/cola/permits/1581785818\_1677766637.0626316/0/spring-security-core-5-7-7-sources-jar/org/springframework/security/core/context/ThreadLocalSecurityContextHolderStrategy.java  
\* /opt/cola/permits/1581785818\_1677766637.0626316/0/spring-security-core-5-7-7-sources-jar/org/springframework/security/authentication/jaas/JaasAuthenticationToken.java  
\* /opt/cola/permits/1581785818\_1677766637.0626316/0/spring-security-core-5-7-7-sources-jar/org/springframework/security/access/SecurityMetadataSource.java  
\* /opt/cola/permits/1581785818\_1677766637.0626316/0/spring-security-core-5-7-7-sources-jar/org/springframework/security/authentication/jaas/DefaultLoginExceptionResolver.java  
\* /opt/cola/permits/1581785818\_1677766637.0626316/0/spring-security-core-5-7-7-sources-jar/org/springframework/security/access/event/AuthenticationCredentialsNotFoundEvent.java  
\* /opt/cola/permits/1581785818\_1677766637.0626316/0/spring-security-core-5-7-7-sources-jar/org/springframework/security/access/intercept/NullRunAsManager.java  
\* /opt/cola/permits/1581785818\_1677766637.0626316/0/spring-security-core-5-7-7-sources-jar/org/springframework/security/authentication/event/AuthenticationSuccessEvent.java  
\* /opt/cola/permits/1581785818\_1677766637.0626316/0/spring-security-core-5-7-7-sources-jar/org/springframework/security/access/ConfigAttribute.java  
\* /opt/cola/permits/1581785818\_1677766637.0626316/0/spring-security-core-5-7-7-sources-jar/org/springframework/security/authentication/LockedException.java  
\* /opt/cola/permits/1581785818\_1677766637.0626316/0/spring-security-core-5-7-7-sources-jar/org/springframework/security/authentication/RememberMeAuthenticationProvider.java  
\* /opt/cola/permits/1581785818\_1677766637.0626316/0/spring-security-core-5-7-7-sources-jar/org/springframework/security/access/event/AuthorizationFailureEvent.java  
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\* /opt/cola/permits/1581785818\_1677766637.0626316/0/spring-security-core-5-7-7-sources-jar/org/springframework/security/authentication/DisabledException.java



\* /opt/cola/permits/1581785818\_1677766637.0626316/0/spring-security-core-5-7-7-sources-jar/org/springframework/security/authentication/jaas/event/JaasAuthenticationEvent.java  
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\* /opt/cola/permits/1581785818\_1677766637.0626316/0/spring-security-core-5-7-7-sources-jar/org/springframework/security/authentication/event/AuthenticationFailureCredentialsExpiredEvent.java  
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\* /opt/cola/permits/1581785818\_1677766637.0626316/0/spring-security-core-5-7-7-sources-jar/org/springframework/security/core/userdetails/User.java  
\* /opt/cola/permits/1581785818\_1677766637.0626316/0/spring-security-core-5-7-7-sources-jar/org/springframework/security/access/AccessDecisionVoter.java  
\* /opt/cola/permits/1581785818\_1677766637.0626316/0/spring-security-core-5-7-7-sources-jar/org/springframework/security/access/vote/AbstractAclVoter.java  
\* /opt/cola/permits/1581785818\_1677766637.0626316/0/spring-security-core-5-7-7-sources-jar/org/springframework/security/authentication/AuthenticationTrustResolver.java  
\* /opt/cola/permits/1581785818\_1677766637.0626316/0/spring-security-core-5-7-7-sources-jar/org/springframework/security/authentication/rcp/RemoteAuthenticationProvider.java  
\* /opt/cola/permits/1581785818\_1677766637.0626316/0/spring-security-core-5-7-7-sources-jar/org/springframework/security/access/method/MapBasedMethodSecurityMetadataSource.java  
\* /opt/cola/permits/1581785818\_1677766637.0626316/0/spring-security-core-5-7-7-sources-jar/org/springframework/security/core/Authentication.java  
\* /opt/cola/permits/1581785818\_1677766637.0626316/0/spring-security-core-5-7-7-sources-jar/org/springframework/security/authentication/InsufficientAuthenticationException.java  
\* /opt/cola/permits/1581785818\_1677766637.0626316/0/spring-security-core-5-7-7-sources-jar/org/springframework/security/authentication/TestingAuthenticationToken.java

\* /opt/cola/permits/1581785818\_1677766637.0626316/0/spring-security-core-5-7-7-sources-jar/org/springframework/security/access/annotation/SecuredAnnotationSecurityMetadataSource.java

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\* /opt/cola/permits/1581785818\_1677766637.0626316/0/spring-security-core-5-7-7-sources-jar/org/springframework/security/authentication/AuthenticationServiceException.java

\* /opt/cola/permits/1581785818\_1677766637.0626316/0/spring-security-core-5-7-7-sources-jar/org/springframework/security/authentication/jaas/LoginExceptionResolver.java

\* /opt/cola/permits/1581785818\_1677766637.0626316/0/spring-security-core-5-7-7-sources-jar/org/springframework/security/core/context/SecurityContext.java

\* /opt/cola/permits/1581785818\_1677766637.0626316/0/spring-security-core-5-7-7-sources-jar/org/springframework/security/authentication/jaas/SecurityContextLoginModule.java

\* /opt/cola/permits/1581785818\_1677766637.0626316/0/spring-security-core-5-7-7-sources-jar/org/springframework/security/authentication/jaas/event/JaasAuthenticationSuccessEvent.java

\* /opt/cola/permits/1581785818\_1677766637.0626316/0/spring-security-core-5-7-7-sources-jar/org/springframework/security/authentication/AuthenticationDetailsSource.java

\* /opt/cola/permits/1581785818\_1677766637.0626316/0/spring-security-core-5-7-7-sources-jar/org/springframework/security/authentication/event/LoggerListener.java

\* /opt/cola/permits/1581785818\_1677766637.0626316/0/spring-security-core-5-7-7-sources-jar/org/springframework/security/access/vote/AbstractAccessDecisionManager.java

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\* Reviews the `Object` returned from a secure object invocation, being able to

\* modify the `Object` or throw an `{ @link AccessDeniedException }`.

\* `<p>`

\* Typically used to ensure the principal is permitted to access the domain object

\* instance returned by a service layer bean. Can also be used to mutate the domain object

\* instance so the principal is only able to access authorised bean properties or

```
* <code>Collection</code> elements.
* <p>
* Special consideration should be given to using an <code>AfterInvocationManager</code>
* on bean methods that modify a database. Typically an
* <code>AfterInvocationManager</code> is used with read-only methods, such as
* <code>public DomainObject getById(id)</code>. If used with methods that modify a
* database, a transaction manager should be used to ensure any
* <code>AccessDeniedException</code> will cause a rollback of the changes made by the
* transaction.
* </p>
*
* @author Ben Alex
*/
```

Found in path(s):

```
* /opt/cola/permits/1581785818_1677766637.0626316/0/spring-security-core-5-7-7-sources-
jar/org/springframework/security/access/intercept/AfterInvocationManager.java
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* /opt/cola/permits/1581785818_1677766637.0626316/0/spring-security-core-5-7-7-sources-
jar/org/springframework/security/access/hierarchicalroles/RoleHierarchy.java
* /opt/cola/permits/1581785818_1677766637.0626316/0/spring-security-core-5-7-7-sources-
jar/org/springframework/security/access/vote/package-info.java
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jar/org/springframework/security/core/authority/SimpleGrantedAuthority.java
* /opt/cola/permits/1581785818_1677766637.0626316/0/spring-security-core-5-7-7-sources-
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* /opt/cola/permits/1581785818_1677766637.0626316/0/spring-security-core-5-7-7-sources-
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* /opt/cola/permits/1581785818_1677766637.0626316/0/spring-security-core-5-7-7-sources-
jar/org/springframework/security/core/context/package-info.java
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\* /opt/cola/permits/1581785818\_1677766637.0626316/0/spring-security-core-5-7-7-sources-jar/org/springframework/security/core/authority/mapping/Attributes2GrantedAuthoritiesMapper.java

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\* /opt/cola/permits/1581785818\_1677766637.0626316/0/spring-security-core-5-7-7-sources-jar/org/springframework/security/core/token/package-info.java

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\* /opt/cola/permits/1581785818\_1677766637.0626316/0/spring-security-core-5-7-7-sources-jar/org/springframework/security/access/expression/method/AbstractExpressionBasedMethodConfigAttribute.java  
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- \* /opt/cola/permits/1581785818\_1677766637.0626316/0/spring-security-core-5-7-7-sources-jar/org/springframework/security/authorization/SpringAuthorizationEventPublisher.java
- \* /opt/cola/permits/1581785818\_1677766637.0626316/0/spring-security-core-5-7-7-sources-jar/org/springframework/security/core/context/TransientSecurityContext.java
- \* /opt/cola/permits/1581785818\_1677766637.0626316/0/spring-security-core-5-7-7-sources-jar/org/springframework/security/jackson2/UnmodifiableMapMixin.java
- \* /opt/cola/permits/1581785818\_1677766637.0626316/0/spring-security-core-5-7-7-sources-jar/org/springframework/security/authorization/AuthorizationEventPublisher.java
- \* /opt/cola/permits/1581785818\_1677766637.0626316/0/spring-security-core-5-7-7-sources-jar/org/springframework/security/authorization/AuthorityAuthorizationManager.java
- \* /opt/cola/permits/1581785818\_1677766637.0626316/0/spring-security-core-5-7-7-sources-jar/org/springframework/security/core/context/ListeningSecurityContextHolderStrategy.java
- \* /opt/cola/permits/1581785818\_1677766637.0626316/0/spring-security-core-5-7-7-sources-jar/org/springframework/security/jackson2/UnmodifiableMapDeserializer.java
- \* /opt/cola/permits/1581785818\_1677766637.0626316/0/spring-security-core-5-7-7-sources-jar/org/springframework/security/authorization/event/AuthorizationDeniedEvent.java
- \* /opt/cola/permits/1581785818\_1677766637.0626316/0/spring-security-core-5-7-7-sources-jar/org/springframework/security/authentication/AbstractUserDetailsReactiveAuthenticationManager.java
- \* /opt/cola/permits/1581785818\_1677766637.0626316/0/spring-security-core-5-7-7-sources-jar/org/springframework/security/authorization/event/AuthorizationGrantedEvent.java
- \* /opt/cola/permits/1581785818\_1677766637.0626316/0/spring-security-core-5-7-7-sources-jar/org/springframework/security/authorization/method/AuthorizationManagerBeforeMethodInterceptor.java
- \* /opt/cola/permits/1581785818\_1677766637.0626316/0/spring-security-core-5-7-7-sources-jar/org/springframework/security/authorization/method/AuthorizationManagerAfterMethodInterceptor.java

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```
*/
/**
 * @param authentication represents the user in question. Should not be null.
 * @param targetDomainObject the domain object for which permissions should be
 * checked. May be null in which case implementations should return false, as the null
 * condition can be checked explicitly in the expression.
 * @param permission a representation of the permission object as supplied by the
 * expression system. Not null.
 * @return true if the permission is granted, false otherwise
 */
```

Found in path(s):

```
* /opt/cola/permits/1581785818_1677766637.0626316/0/spring-security-core-5-7-7-sources-
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jar/org/springframework/security/concurrent/DelegatingSecurityContextCallable.java
* /opt/cola/permits/1581785818_1677766637.0626316/0/spring-security-core-5-7-7-sources-
jar/org/springframework/security/concurrent/DelegatingSecurityContextRunnable.java
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jar/org/springframework/security/core/userdetails/ReactiveUserDetailsPasswordService.java
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jar/org/springframework/security/jackson2/UnmodifiableListMixin.java
* /opt/cola/permits/1581785818_1677766637.0626316/0/spring-security-core-5-7-7-sources-
jar/org/springframework/security/core/Transient.java
* /opt/cola/permits/1581785818_1677766637.0626316/0/spring-security-core-5-7-7-sources-
jar/org/springframework/security/authentication/DelegatingReactiveAuthenticationManager.java
* /opt/cola/permits/1581785818_1677766637.0626316/0/spring-security-core-5-7-7-sources-
jar/org/springframework/security/jackson2/UnmodifiableListDeserializer.java
* /opt/cola/permits/1581785818_1677766637.0626316/0/spring-security-core-5-7-7-sources-
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jar/org/springframework/security/jackson2/BadCredentialsExceptionMixin.java  
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jar/org/springframework/security/authentication/CachingUserDetailsService.java  
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jar/org/springframework/security/core/session/SessionCreationEvent.java
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jar/org/springframework/security/core/session/AbstractSessionEvent.java
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jar/org/springframework/security/core/session/SessionIdChangedEvent.java
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jar/org/springframework/security/core/session/SessionDestroyedEvent.java
* /opt/cola/permits/1581785818_1677766637.0626316/0/spring-security-core-5-7-7-sources-
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jar/org/springframework/security/authorization/method/ExpressionAttributeAuthorizationDecision.java  
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jar/org/springframework/security/authorization/method/AbstractAuthorizationManagerRegistry.java  
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jar/org/springframework/security/access/prepost/PrePostAdviceReactiveMethodInterceptor.java  
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\* /opt/cola/permits/1581785818\_1677766637.0626316/0/spring-security-core-5-7-7-sources-  
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\* /opt/cola/permits/1581785818\_1677766637.0626316/0/spring-security-core-5-7-7-sources-  
jar/org/springframework/security/authorization/method/MethodInvocationResult.java  
\* /opt/cola/permits/1581785818\_1677766637.0626316/0/spring-security-core-5-7-7-sources-  
jar/org/springframework/security/authorization/AuthorityAuthorizationDecision.java  
\* /opt/cola/permits/1581785818\_1677766637.0626316/0/spring-security-core-5-7-7-sources-  
jar/org/springframework/security/authorization/method/AuthorizationInterceptorsOrder.java  
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jar/org/springframework/security/core/context/SecurityContextChangedListener.java

## 1.315 jbcrypt 1.0.0

# 1.316 salvation2 3.0.1

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## 1.320 jackson-module-parameter-names

### 2.13.5

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## 1.321 aspect-j 1.9.7

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# 1.326 tomcat 9.0.71

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- javaee\_web\_services\_client\_1\_2.xsd
- javaee\_6.xsd
- javaee\_web\_services\_1\_3.xsd
- javaee\_web\_services\_client\_1\_3.xsd
- web-app\_3\_0.xsd
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- javaee\_web\_services\_1\_2.xsd
- javaee\_web\_services\_client\_1\_2.xsd
- javaee\_6.xsd
- javaee\_web\_services\_1\_3.xsd
- javaee\_web\_services\_client\_1\_3.xsd
- jsp\_2\_2.xsd
- web-app\_3\_0.xsd
- web-common\_3\_0.xsd
- web-fragment\_3\_0.xsd
- javaee\_7.xsd
- javaee\_web\_services\_1\_4.xsd
- javaee\_web\_services\_client\_1\_4.xsd
- jsp\_2\_3.xsd
- web-app\_3\_1.xsd
- web-common\_3\_1.xsd
- web-fragment\_3\_1.xsd
- javaee\_8.xsd
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- javaee\_web\_services\_client\_1\_3.xsd
- jsp\_2\_2.xsd
- web-app\_3\_0.xsd
- web-common\_3\_0.xsd
- web-fragment\_3\_0.xsd
- javaee\_7.xsd
- javaee\_web\_services\_1\_4.xsd
- javaee\_web\_services\_client\_1\_4.xsd
- jsp\_2\_3.xsd
- web-app\_3\_1.xsd
- web-common\_3\_1.xsd
- web-fragment\_3\_1.xsd
- javaee\_8.xsd
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## 1.329 simpleclient 0.15.0



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\* /opt/cola/permits/1612303971\_1679589386.3630981/0/jjwt-impl-0-10-7-sources-1-jar/io/jsonwebtoken/impl/crypto/EllipticCurveSignatureValidator.java

\* /opt/cola/permits/1612303971\_1679589386.3630981/0/jjwt-impl-0-10-7-sources-1-jar/io/jsonwebtoken/impl/crypto/EllipticCurveProvider.java

\* /opt/cola/permits/1612303971\_1679589386.3630981/0/jjwt-impl-0-10-7-sources-1-jar/io/jsonwebtoken/impl/compression/GzipCompressionCodec.java

\* /opt/cola/permits/1612303971\_1679589386.3630981/0/jjwt-impl-0-10-7-sources-1-jar/io/jsonwebtoken/impl/AndroidBase64Codec.java

\* /opt/cola/permits/1612303971\_1679589386.3630981/0/jjwt-impl-0-10-7-sources-1-jar/io/jsonwebtoken/impl/TextCodecFactory.java

\* /opt/cola/permits/1612303971\_1679589386.3630981/0/jjwt-impl-0-10-7-sources-1-jar/io/jsonwebtoken/impl/compression/CompressionCodecs.java

\* /opt/cola/permits/1612303971\_1679589386.3630981/0/jjwt-impl-0-10-7-sources-1-jar/io/jsonwebtoken/impl/compression/DeflateCompressionCodec.java

\* /opt/cola/permits/1612303971\_1679589386.3630981/0/jjwt-impl-0-10-7-sources-1-jar/io/jsonwebtoken/impl/DefaultTextCodecFactory.java

\* /opt/cola/permits/1612303971\_1679589386.3630981/0/jjwt-impl-0-10-7-sources-1-jar/io/jsonwebtoken/impl/crypto/EllipticCurveSigner.java

\* /opt/cola/permits/1612303971\_1679589386.3630981/0/jjwt-impl-0-10-7-sources-1-jar/io/jsonwebtoken/impl/compression/DefaultCompressionCodecResolver.java

\* /opt/cola/permits/1612303971\_1679589386.3630981/0/jjwt-impl-0-10-7-sources-1-jar/io/jsonwebtoken/impl/compression/AbstractCompressionCodec.java

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\* /opt/cola/permits/1612303971\_1679589386.3630981/0/jjwt-impl-0-10-7-sources-1-

jar/io/jsonwebtoken/impl/crypto/MacValidator.java  
\* /opt/cola/permits/1612303971\_1679589386.3630981/0/jjwt-impl-0-10-7-sources-1-  
jar/io/jsonwebtoken/impl/DefaultJws.java  
\* /opt/cola/permits/1612303971\_1679589386.3630981/0/jjwt-impl-0-10-7-sources-1-  
jar/io/jsonwebtoken/impl/crypto/DefaultJwtSigner.java  
\* /opt/cola/permits/1612303971\_1679589386.3630981/0/jjwt-impl-0-10-7-sources-1-  
jar/io/jsonwebtoken/impl/TextCodec.java  
\* /opt/cola/permits/1612303971\_1679589386.3630981/0/jjwt-impl-0-10-7-sources-1-  
jar/io/jsonwebtoken/impl/DefaultHeader.java  
\* /opt/cola/permits/1612303971\_1679589386.3630981/0/jjwt-impl-0-10-7-sources-1-  
jar/io/jsonwebtoken/impl/crypto/SignatureProvider.java  
\* /opt/cola/permits/1612303971\_1679589386.3630981/0/jjwt-impl-0-10-7-sources-1-  
jar/io/jsonwebtoken/impl/crypto/DefaultJwtSignatureValidator.java  
\* /opt/cola/permits/1612303971\_1679589386.3630981/0/jjwt-impl-0-10-7-sources-1-  
jar/io/jsonwebtoken/impl/crypto/RsaSignatureValidator.java  
\* /opt/cola/permits/1612303971\_1679589386.3630981/0/jjwt-impl-0-10-7-sources-1-  
jar/io/jsonwebtoken/impl/crypto/JwtSignatureValidator.java  
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\* /opt/cola/permits/1612303971\_1679589386.3630981/0/jjwt-impl-0-10-7-sources-1-  
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\* /opt/cola/permits/1612303971\_1679589386.3630981/0/jjwt-impl-0-10-7-sources-1-  
jar/io/jsonwebtoken/impl/crypto/SignatureValidatorFactory.java  
\* /opt/cola/permits/1612303971\_1679589386.3630981/0/jjwt-impl-0-10-7-sources-1-  
jar/io/jsonwebtoken/impl/Base64Codec.java  
\* /opt/cola/permits/1612303971\_1679589386.3630981/0/jjwt-impl-0-10-7-sources-1-  
jar/io/jsonwebtoken/impl/crypto/SignerFactory.java  
\* /opt/cola/permits/1612303971\_1679589386.3630981/0/jjwt-impl-0-10-7-sources-1-  
jar/io/jsonwebtoken/impl/crypto/MacProvider.java  
\* /opt/cola/permits/1612303971\_1679589386.3630981/0/jjwt-impl-0-10-7-sources-1-  
jar/io/jsonwebtoken/impl/crypto/DefaultSignerFactory.java  
\* /opt/cola/permits/1612303971\_1679589386.3630981/0/jjwt-impl-0-10-7-sources-1-  
jar/io/jsonwebtoken/impl/crypto/DefaultSignatureValidatorFactory.java  
\* /opt/cola/permits/1612303971\_1679589386.3630981/0/jjwt-impl-0-10-7-sources-1-  
jar/io/jsonwebtoken/impl/DefaultJwsHeader.java  
\* /opt/cola/permits/1612303971\_1679589386.3630981/0/jjwt-impl-0-10-7-sources-1-  
jar/io/jsonwebtoken/impl/DefaultJwtBuilder.java  
\* /opt/cola/permits/1612303971\_1679589386.3630981/0/jjwt-impl-0-10-7-sources-1-  
jar/io/jsonwebtoken/impl/crypto/RsaSigner.java  
\* /opt/cola/permits/1612303971\_1679589386.3630981/0/jjwt-impl-0-10-7-sources-1-  
jar/io/jsonwebtoken/impl/crypto/RsaProvider.java  
\* /opt/cola/permits/1612303971\_1679589386.3630981/0/jjwt-impl-0-10-7-sources-1-  
jar/io/jsonwebtoken/impl/DefaultClaims.java  
\* /opt/cola/permits/1612303971\_1679589386.3630981/0/jjwt-impl-0-10-7-sources-1-  
jar/io/jsonwebtoken/impl/AbstractTextCodec.java  
\* /opt/cola/permits/1612303971\_1679589386.3630981/0/jjwt-impl-0-10-7-sources-1-  
jar/io/jsonwebtoken/impl/crypto/MacSigner.java  
\* /opt/cola/permits/1612303971\_1679589386.3630981/0/jjwt-impl-0-10-7-sources-1-

jar/io/jsonwebtoken/impl/JwtMap.java  
\* /opt/cola/permits/1612303971\_1679589386.3630981/0/jjwt-impl-0-10-7-sources-1-  
jar/io/jsonwebtoken/impl/crypto/JwtSigner.java  
\* /opt/cola/permits/1612303971\_1679589386.3630981/0/jjwt-impl-0-10-7-sources-1-  
jar/io/jsonwebtoken/impl/crypto/Signer.java  
\* /opt/cola/permits/1612303971\_1679589386.3630981/0/jjwt-impl-0-10-7-sources-1-  
jar/io/jsonwebtoken/impl/DefaultJwtParser.java

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\* /opt/cola/permits/1473781111\_1668512954.2504866/0/async-http-client-netty-utils-2-8-1-sources-1-jar/org/asynchttpclient/netty/util/ByteBufUtils.java

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\* /opt/cola/permits/1473781111\_1668512954.2504866/0/async-http-client-netty-utils-2-8-1-sources-1-jar/org/asynchttpclient/netty/util/Utf8ByteBufCharsetDecoder.java

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## 1.335 sparsebitset 1.2

### 1.335.1 Available under license :

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```
<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd/maven-4.0.0.xsd">
 <modelVersion>4.0.0</modelVersion>
```

```
 <groupId>com.zaxxer</groupId>
 <artifactId>SparseBitSet</artifactId>
 <version>1.2</version>
 <packaging>jar</packaging>
```

```
 <name>SparseBitSet</name>
 <description>An efficient sparse bitset implementation for Java</description>
 <url>https://github.com/brettwooldridge/SparseBitSet</url>
```

```
 <organization>
 <name>Zaxxer.com</name>
 <url>https://github.com/brettwooldridge/SparseBitSet</url>
 </organization>
```

```
 <scm>
 <connection>scm:git:git@github.com:brettwooldridge/SparseBitSet.git</connection>
 <developerConnection>scm:git:git@github.com:brettwooldridge/SparseBitSet.git</developerConnection>
 <url>git@github.com:brettwooldridge/SparseBitSet.git</url>
 </scm>
```

```
 <licenses>
 <license>
 <name>The Apache Software License, Version 2.0</name>
 <url>http://www.apache.org/licenses/LICENSE-2.0.txt</url>
 <distribution>repo</distribution>
 </license>
 </licenses>
```

```
 <developers>
 <developer>
```

```

 <name>Brett Wooldridge</name>
 <email>brett.wooldridge@gmail.com</email>
 </developer>
</developers>

<properties>
 <project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>
</properties>

<parent>
 <groupId>org.sonatype.oss</groupId>
 <artifactId>oss-parent</artifactId>
 <version>7</version>
</parent>

<dependencies>
 <dependency>
 <groupId>junit</groupId>
 <artifactId>junit</artifactId>
 <version>4.12</version>
 <scope>test</scope>
 </dependency>
</dependencies>

<build>
 <sourceDirectory>src/main/java</sourceDirectory>
 <testSourceDirectory>src/test/java</testSourceDirectory>
 <plugins>
 <plugin>
 <groupId>org.apache.maven.plugins</groupId>
 <artifactId>maven-compiler-plugin</artifactId>
 <version>3.1</version>
 <configuration>
 <source>1.5</source>
 <target>1.5</target>
 </configuration>
 </plugin>
 <plugin>
 <groupId>org.apache.maven.plugins</groupId>
 <artifactId>maven-source-plugin</artifactId>
 <version>2.2.1</version>
 <configuration>
 <attach>true</attach>
 </configuration>
 <executions>
 <execution>
 <id>attach-sources</id>
 <goals>

```

```

 <goal>jar</goal>
 </goals>
 </execution>
 </executions>
</plugin>
<plugin>
 <groupId>org.apache.maven.plugins</groupId>
 <artifactId>maven-javadoc-plugin</artifactId>
 <version>2.9.1</version>
 <configuration>
 <show>public</show>
 <attach>true</attach>
 </configuration>
 <executions>
 <execution>
 <goals>
 <goal>jar</goal>
 </goals>
 </execution>
 </executions>
</plugin>
</plugins>
</build>

<profiles>
 <profile>
 <id>release-sign-artifacts</id>
 <activation>
 <property>
 <name>performRelease</name>
 <value>true</value>
 </property>
 </activation>
 <build>
 <plugins>
 <plugin>
 <groupId>org.apache.maven.plugins</groupId>
 <artifactId>maven-gpg-plugin</artifactId>
 <version>1.4</version>
 <executions>
 <execution>
 <id>sign-artifacts</id>
 <phase>verify</phase>
 <goals>
 <goal>sign</goal>
 </goals>
 </execution>
 </executions>
 </plugin>
 </plugins>
 </build>
 </profile>
</profiles>

```



```
</plugin>
</plugins>
</build>
</profile>
</profiles>
</project>
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1046295158_1589992429.11/0/sparsebitset-1-2-jar/META-INF/maven/com.zaxxer/SparseBitSet/pom.xml
```

## 1.336 dom 1.0

### 1.336.1 Available under license :

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```
/*
```

```
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*/
```

Found in path(s):

```
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/ElementEditAS.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/ASNotationDeclaration.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/ASObject.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/CharacterDataEditAS.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/DOMImplementationAS.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/ASModel.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/DocumentAS.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/ASAttributeDeclaration.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/ASElementDeclaration.java
```

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/ASEntityDeclaration.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/ASNamedObjectMap.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/ASDataType.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/ASContentModel.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/DOMASWriter.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/DocumentEditAS.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/ASObjectList.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/DOMASBuilder.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/DOMASException.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/NodeEditAS.java

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Found in path(s):

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/datatypes/package.html

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\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/w3c/dom/html/HTMLDOMImplementation.java  
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\*/  
/\*\*  
\* Checks if this content model has had its min/maxOccurs values reduced for  
\* purposes of speeding up UPA. If so, this content model should not be used  
\* for any purpose other than checking unique particle attribution  
\*  
\* @return a boolean that says whether this content has been compacted for UPA  
\*/

Found in path(s):

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/impl/xs/models/XSCMValidator.java  
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 \*/  
 /\*\*  
 \* DOM Level 3 LS CR - Experimental.  
 \* Create a new `LSParser`. The newly constructed parser may  
 \* then be configured by means of its `DOMConfiguration`  
 \* object, and used to parse documents by means of its `parse`  
 \* method.  
 \* @param mode The `mode` argument is either  
 \* `MODE_SYNCHRONOUS` or `MODE_ASYNCHRONOUS`, if  
 \* `mode` is `MODE_SYNCHRONOUS` then the  
 \* `LSParser` that is created will operate in synchronous  
 \* mode, if it's `MODE_ASYNCHRONOUS` then the  
 \* `LSParser` that is created will operate in asynchronous  
 \* mode.  
 \* @param schemaType An absolute URI representing the type of the schema  
 \* language used during the load of a `Document` using the  
 \* newly created `LSParser`. Note that no lexical checking  
 \* is done on the absolute URI. In order to create a  
 \* `LSParser` for any kind of schema types (i.e. the  
 \* `LSParser` will be free to use any schema found), use the value  
 \* `null`.  
 \* 

<b>Note:</b> For W3C XML Schema [[XML Schema Part 1</a>\]  
 \\* , applications must use the value  
 \\* `"http://www.w3.org/2001/XMLSchema"`. For XML DTD \[\[XML 1.0</a>\\],  
 \\\* applications must use the value  
 \\\* `"http://www.w3.org/TR/REC-xml"`. Other Schema languages  
 \\\* are outside the scope of the W3C and therefore should recommend an  
 \\\* absolute URI in order to use this method.  
 \\\* @return The newly created `LSParser` object. This  
 \\\* `LSParser` is either synchronous or asynchronous  
 \\\* depending on the value of the `mode` argument.  
 \\\* 

<b>Note:</b> By default, the newly created `LSParser`  
 \\\* does not contain a `DOMErrorHandler`, i.e. the value of  
 \\\* the "\\[parameter-error-  
 handler\\]\\(http://www.w3.org/TR/2003/WD-DOM-Level-3-Core-20030609/core.html#parameter-error-handler\\)"  
 \\\* `error-handler`" configuration parameter is `null`. However, implementations  
 \\\* may provide a default error handler at creation time. In that case,  
 \\\* the initial value of the `"error-handler"` configuration\]\(http://www.w3.org/TR/2000/REC-xml-20001006/\)](http://www.w3.org/TR/2001/REC-xmlschema-1-20010502/)

- \* parameter on the new created `LSParser` contains a
- \* reference to the default error handler.
- \* @exception DOMException
- \* NOT\_SUPPORTED\_ERR: Raised if the requested mode or schema type is
- \* not supported.

\*/

Found in path(s):

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/CoreDOMImplementationImpl.java  
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/\*\*

- \* used to check the 3 constraints against each complex type
  - \* (should be each model group):
  - \* Unique Particle Attribution, Particle Derivation (Restriction),
  - \* Element Declarations Consistent.
- \*/

Found in path(s):

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/XSConstraints.java

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\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDocumentInfo.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDElementTraverser.java

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\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
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\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/impl/io/UCSReader.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/parsers/XIncludeAwareParserConfiguration.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/impl/RevalidationHandler.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/xs/XSValue.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/dom/NodeImpl.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/impl/dv/dtd/XML11IDREFDatatypeValidator.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/xni/parser/XMLConfigurationException.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/util/AttributesProxy.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/jaxp/validation/ValidatorImpl.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/parsers/XMLGrammarParser.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/impl/dtd/XMLSimpleType.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/impl/xs/SchemaNamespaceSupport.java  
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\*/

Found in path(s):

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/impl/dv/xs/AbstractDateTimeDV.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-

jar/org/apache/xerces/impl/dv/xs/YearDV.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/impl/xs/traversers/XSDKeyrefTraverser.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/impl/dv/xs/DateDV.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/impl/dv/xs/DateTimeDV.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/impl/xs/traversers/XSDUniqueOrKeyTraverser.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/impl/dv/xs/MonthDV.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/impl/dv/xs/DurationDV.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/impl/dv/xs/MonthDayDV.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/impl/dv/xs/TimeDV.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/impl/xs/traversers/XSAttributeChecker.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/impl/dv/xs/YearMonthDV.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/impl/xs/XSMoelGroupImpl.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/impl/dv/xs/XSSimpleTypeDecl.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/impl/xs/traversers/XSDHandler.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/impl/dv/xs/DayDV.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/impl/xs/XMLSchemaValidator.java  
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Found in path(s):

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/impl/msg/XMLSchemaMessages.properties  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/impl/xpath/regex/message.properties  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/impl/msg/DOMessages.properties  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/impl/msg/XPointerMessages.properties

```
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/msg/DatatypeMessages.properties
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xpath/regex/message_fr.properties
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/msg/SAXMessages.properties
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/msg/XIncludeMessages.properties
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/msg/XMLMessages.properties
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/msg/XMLSerializerMessages.properties
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xpath/regex/message_ja.properties
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/msg/JAXPValidationMessages.properties
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```

```
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* limitations under the License.
*/
// Unique Particle Attribution
```

```
Found in path(s):
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xs/models/XSDFACM.java
```

## 1.337 selenium-devtools-v101 4.2.2

### 1.337.1 Available under license :

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

```
package org.openqa.selenium.devtools.v101.audits.model;
```

```

import org.openqa.selenium.Beta;
import org.openqa.selenium.json.JsonInput;

public enum MixedContentResourceType {

 ATTRIBUTIONSRC("AttributionSrc"),
 AUDIO("Audio"),
 BEACON("Beacon"),
 CSPREPORT("CSPReport"),
 DOWNLOAD("Download"),
 EVENTSOURCE("EventSource"),
 FAVICON("Favicon"),
 FONT("Font"),
 FORM("Form"),
 FRAME("Frame"),
 IMAGE("Image"),
 IMPORT("Import"),
 MANIFEST("Manifest"),
 PING("Ping"),
 PLUGINDATA("PluginData"),
 PLUGINRESOURCE("PluginResource"),
 PREFETCH("Prefetch"),
 RESOURCE("Resource"),
 SCRIPT("Script"),
 SERVICEWORKER("ServiceWorker"),
 SHAREDWORKER("SharedWorker"),
 STYLESHEET("Stylesheet"),
 TRACK("Track"),
 VIDEO("Video"),
 WORKER("Worker"),
 XMLHTTPREQUEST("XMLHttpRequest"),
 XSLT("XSLT");

 private String value;

 MixedContentResourceType(String value) {
 this.value = value;
 }

 public static MixedContentResourceType fromString(String s) {
 return java.util.Arrays.stream(MixedContentResourceType.values()).filter(rs ->
rs.value.equalsIgnoreCase(s)).findFirst().orElseThrow(() -> new
org.openqa.selenium.devtools.DevToolsException("Given value " + s + " is not found within
MixedContentResourceType "));
 }

 public String toString() {
 return value;
 }
}

```

```

}

public String toJson() {
 return value;
}

private static MixedContentResourceType fromJson(JsonInput input) {
 return fromString(input.nextString());
}
}

```

Found in path(s):

\* /opt/cola/permits/1612247587\_1680503820.5822484/0/selenium-devtools-v101-4-2-2-sources-jar/org/openqa/selenium/devtools/v101/audits/model/MixedContentResourceType.java

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

ATTRIBUTE\_REPORTING("attribution-reporting"),

Found in path(s):

\* /opt/cola/permits/1612247587\_1680503820.5822484/0/selenium-devtools-v101-4-2-2-sources-jar/org/openqa/selenium/devtools/v101/page/model/PermissionsPolicyFeature.java

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

ATTRIBUTE\_REPORTING\_ISSUE("AttributionReportingIssue"),

Found in path(s):

\* /opt/cola/permits/1612247587\_1680503820.5822484/0/selenium-devtools-v101-4-2-2-sources-jar/org/openqa/selenium/devtools/v101/audits/model/InspectorIssueCode.java

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

```

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// with the License. You may obtain a copy of the License at
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```

Found in path(s):

\* /opt/cola/permits/1612247587\_1680503820.5822484/0/selenium-devtools-v101-4-2-2-sources-jar/org/openqa/selenium/devtools/v101/V101Log.java

\* /opt/cola/permits/1612247587\_1680503820.5822484/0/selenium-devtools-v101-4-2-2-sources-jar/org/openqa/selenium/devtools/v101/V101Events.java

\* /opt/cola/permits/1612247587\_1680503820.5822484/0/selenium-devtools-v101-4-2-2-sources-jar/org/openqa/selenium/devtools/v101/V101Javascript.java

\* /opt/cola/permits/1612247587\_1680503820.5822484/0/selenium-devtools-v101-4-2-2-sources-jar/org/openqa/selenium/devtools/v101/V101CdpInfo.java

\* /opt/cola/permits/1612247587\_1680503820.5822484/0/selenium-devtools-v101-4-2-2-sources-jar/org/openqa/selenium/devtools/v101/V101Network.java

\* /opt/cola/permits/1612247587\_1680503820.5822484/0/selenium-devtools-v101-4-2-2-sources-

```
jar/org/openqa/selenium/devtools/v101/V101Target.java
* /opt/cola/permits/1612247587_1680503820.5822484/0/selenium-devtools-v101-4-2-2-sources-
jar/org/openqa/selenium/devtools/v101/V101Domains.java
No license file was found, but licenses were detected in source scan.
```

```
/**
 * Details for issues around "Attribution Reporting API" usage.
 * Explainer: https://github.com/WICG/conversion-measurement-api
 */
```

```
Found in path(s):
* /opt/cola/permits/1612247587_1680503820.5822484/0/selenium-devtools-v101-4-2-2-sources-
jar/org/openqa/selenium/devtools/v101/audits/model/AttributionReportingIssueDetails.java
No license file was found, but licenses were detected in source scan.
```

```
private final java.util.List<org.openqa.selenium.devtools.v101.performancetimeline.model.LayoutShiftAttribution>
sources;
public LayoutShift(java.lang.Number value, java.lang.Boolean hadRecentInput,
org.openqa.selenium.devtools.v101.network.model.TimeSinceEpoch lastInputTime,
java.util.List<org.openqa.selenium.devtools.v101.performancetimeline.model.LayoutShiftAttribution> sources) {
public java.util.List<org.openqa.selenium.devtools.v101.performancetimeline.model.LayoutShiftAttribution>
getSources() {
java.util.List<org.openqa.selenium.devtools.v101.performancetimeline.model.LayoutShiftAttribution> sources =
null;
sources = input.read(new
com.google.common.reflect.TypeToken<java.util.List<org.openqa.selenium.devtools.v101.performancetimeline.mo
del.LayoutShiftAttribution>>()) {
```

```
Found in path(s):
* /opt/cola/permits/1612247587_1680503820.5822484/0/selenium-devtools-v101-4-2-2-sources-
jar/org/openqa/selenium/devtools/v101/performancetimeline/model/LayoutShift.java
No license file was found, but licenses were detected in source scan.
```

```
package org.openqa.selenium.devtools.v101.audits.model;

import org.openqa.selenium.Beta;
import org.openqa.selenium.json.JsonInput;

public enum AttributionReportingIssueType {

 PERMISSIONPOLICYDISABLED("PermissionPolicyDisabled"),
 INVALIDATTRIBUTIONSOURCEEVENTID("InvalidAttributionSourceEventId"),
 INVALIDATTRIBUTIONDATA("InvalidAttributionData"),
 ATTRIBUTIONSOURCEUNTRUSTWORTHYORIGIN("AttributionSourceUntrustworthyOrigin"),
 ATTRIBUTIONUNTRUSTWORTHYORIGIN("AttributionUntrustworthyOrigin"),
 ATTRIBUTIONTRIGGERDATATOOLARGE("AttributionTriggerDataTooLarge"),
 ATTRIBUTIONEVENTSOURCETRIGGERDATATOOLARGE("AttributionEventSourceTriggerDataTooLarge"),
 INVALIDATTRIBUTIONSOURCEEXPIRY("InvalidAttributionSourceExpiry"),
```

```
INVALIDATTRIBUTIONSOURCEPRIORITY("InvalidAttributionSourcePriority"),
INVALIDEVENTSOURCETRIGGERDATA("InvalidEventSourceTriggerData"),
INVALIDTRIGGERPRIORITY("InvalidTriggerPriority"),
INVALIDTRIGGERDEDUPKEY("InvalidTriggerDedupKey");
```

```
private String value;
```

```
AttributionReportingIssueType(String value) {
 this.value = value;
}
```

```
public static AttributionReportingIssueType fromString(String s) {
 return java.util.Arrays.stream(AttributionReportingIssueType.values()).filter(rs ->
rs.value.equalsIgnoreCase(s)).findFirst().orElseThrow(() -> new
org.openqa.selenium.devtools.DevToolsException("Given value " + s + " is not found within
AttributionReportingIssueType "));
}
```

```
public String toString() {
 return value;
}
```

```
public String toJson() {
 return value;
}
```

```
private static AttributionReportingIssueType fromJson(JsonInput input) {
 return fromString(input.nextString());
}
}
```

Found in path(s):

```
* /opt/cola/permits/1612247587_1680503820.5822484/0/selenium-devtools-v101-4-2-2-sources-
jar/org/openqa/selenium/devtools/v101/audits/model/AttributionReportingIssueType.java
```

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```
public Domain(java.lang.String name, java.lang.String version) {
```

Found in path(s):

```
* /opt/cola/permits/1612247587_1680503820.5822484/0/selenium-devtools-v101-4-2-2-sources-
jar/org/openqa/selenium/devtools/v101/schema/model/Domain.java
```

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```
package org.openqa.selenium.devtools.v101.performancetimeline.model;
```

```
import org.openqa.selenium.Beta;
import org.openqa.selenium.json.JsonInput;
```



```

public class LayoutShiftAttribution {

 private final org.openqa.selenium.devtools.v101.dom.model.Rect previousRect;

 private final org.openqa.selenium.devtools.v101.dom.model.Rect currentRect;

 private final java.util.Optional<org.openqa.selenium.devtools.v101.dom.model.BackendNodeId> nodeId;

 public LayoutShiftAttribution(org.openqa.selenium.devtools.v101.dom.model.Rect previousRect,
org.openqa.selenium.devtools.v101.dom.model.Rect currentRect,
java.util.Optional<org.openqa.selenium.devtools.v101.dom.model.BackendNodeId> nodeId) {
 this.previousRect = java.util.Objects.requireNonNull(previousRect, "previousRect is required");
 this.currentRect = java.util.Objects.requireNonNull(currentRect, "currentRect is required");
 this.nodeId = nodeId;
 }

 public org.openqa.selenium.devtools.v101.dom.model.Rect getPreviousRect() {
 return previousRect;
 }

 public org.openqa.selenium.devtools.v101.dom.model.Rect getCurrentRect() {
 return currentRect;
 }

 public java.util.Optional<org.openqa.selenium.devtools.v101.dom.model.BackendNodeId> getNodeId() {
 return nodeId;
 }

 private static LayoutShiftAttribution fromJson(JsonInput input) {
 org.openqa.selenium.devtools.v101.dom.model.Rect previousRect = null;
 org.openqa.selenium.devtools.v101.dom.model.Rect currentRect = null;
 java.util.Optional<org.openqa.selenium.devtools.v101.dom.model.BackendNodeId> nodeId =
java.util.Optional.empty();
 input.beginObject();
 while (input.hasNext()) {
 switch(input.nextName()) {
 case "previousRect":
 previousRect = input.read(org.openqa.selenium.devtools.v101.dom.model.Rect.class);
 break;
 case "currentRect":
 currentRect = input.read(org.openqa.selenium.devtools.v101.dom.model.Rect.class);
 break;
 case "nodeId":
 nodeId =
java.util.Optional.ofNullable(input.read(org.openqa.selenium.devtools.v101.dom.model.BackendNodeId.class));
 break;
 default:
 input.skipValue();
 }
 }
 }
}

```

```

 break;
 }
}
input.endObject();
return new LayoutShiftAttribution(previousRect, currentRect, nodeId);
}
}

```

Found in path(s):

```

* /opt/cola/permits/1612247587_1680503820.5822484/0/selenium-devtools-v101-4-2-2-sources-
jar/org/openqa/selenium/devtools/v101/performancetimeline/model/LayoutShiftAttribution.java
No license file was found, but licenses were detected in source scan.

```

```

private final java.util.Optional<org.openqa.selenium.devtools.v101.audits.model.AttributionReportingIssueDetails>
attributionReportingIssueDetails;
public
InspectorIssueDetails(java.util.Optional<org.openqa.selenium.devtools.v101.audits.model.CookieIssueDetails>
cookieIssueDetails, java.util.Optional<org.openqa.selenium.devtools.v101.audits.model.MixedContentIssueDetails>
mixedContentIssueDetails,
java.util.Optional<org.openqa.selenium.devtools.v101.audits.model.BlockedByResponseIssueDetails>
blockedByResponseIssueDetails,
java.util.Optional<org.openqa.selenium.devtools.v101.audits.model.HeavyAdIssueDetails> heavyAdIssueDetails,
java.util.Optional<org.openqa.selenium.devtools.v101.audits.model.ContentSecurityPolicyIssueDetails>
contentSecurityPolicyIssueDetails,
java.util.Optional<org.openqa.selenium.devtools.v101.audits.model.SharedArrayBufferIssueDetails>
sharedArrayBufferIssueDetails,
java.util.Optional<org.openqa.selenium.devtools.v101.audits.model.TrustedWebActivityIssueDetails>
twaQualityEnforcementDetails,
java.util.Optional<org.openqa.selenium.devtools.v101.audits.model.LowTextContrastIssueDetails>
lowTextContrastIssueDetails,
java.util.Optional<org.openqa.selenium.devtools.v101.audits.model.CorsIssueDetails> corsIssueDetails,
java.util.Optional<org.openqa.selenium.devtools.v101.audits.model.AttributionReportingIssueDetails>
attributionReportingIssueDetails,
java.util.Optional<org.openqa.selenium.devtools.v101.audits.model.QuirksModeIssueDetails>
quirksModeIssueDetails,
java.util.Optional<org.openqa.selenium.devtools.v101.audits.model.NavigatorUserAgentIssueDetails>
navigatorUserAgentIssueDetails,
java.util.Optional<org.openqa.selenium.devtools.v101.audits.model.GenericIssueDetails> genericIssueDetails,
java.util.Optional<org.openqa.selenium.devtools.v101.audits.model.DeprecationIssueDetails>
deprecationIssueDetails,
java.util.Optional<org.openqa.selenium.devtools.v101.audits.model.ClientHintIssueDetails> clientHintIssueDetails,
java.util.Optional<org.openqa.selenium.devtools.v101.audits.model.FederatedAuthRequestIssueDetails>
federatedAuthRequestIssueDetails) {
this.attributionReportingIssueDetails = attributionReportingIssueDetails;
public java.util.Optional<org.openqa.selenium.devtools.v101.audits.model.AttributionReportingIssueDetails>
getAttributionReportingIssueDetails() {
return attributionReportingIssueDetails;
java.util.Optional<org.openqa.selenium.devtools.v101.audits.model.AttributionReportingIssueDetails>

```

```
attributionReportingIssueDetails = java.util.Optional.empty();
case "attributionReportingIssueDetails":
attributionReportingIssueDetails =
java.util.Optional.ofNullable(input.read(org.openqa.selenium.devtools.v101.audits.model.AttributionReportingIssue
Details.class));
return new InspectorIssueDetails(cookieIssueDetails, mixedContentIssueDetails, blockedByResponseIssueDetails,
heavyAdIssueDetails, contentSecurityPolicyIssueDetails, sharedArrayBufferIssueDetails,
twaQualityEnforcementDetails, lowTextContrastIssueDetails, corsIssueDetails, attributionReportingIssueDetails,
quirksModeIssueDetails, navigatorUserAgentIssueDetails, genericIssueDetails, deprecationIssueDetails,
clientHintIssueDetails, federatedAuthRequestIssueDetails);
```

Found in path(s):

```
* /opt/cola/permits/1612247587_1680503820.5822484/0/selenium-devtools-v101-4-2-2-sources-
jar/org/openqa/selenium/devtools/v101/audits/model/InspectorIssueDetails.java
```

# 1.338 mail 1.6.7

## 1.338.1 Available under license :

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```
* /opt/cola/permits/1612247623_1680504049.4446154/0/selenium-ie-driver-4-2-2-sources-
jar/org/openqa/selenium/ie/InternetExplorerDriverInfo.java
* /opt/cola/permits/1612247623_1680504049.4446154/0/selenium-ie-driver-4-2-2-sources-
jar/org/openqa/selenium/ie/ElementScrollBehavior.java
* /opt/cola/permits/1612247623_1680504049.4446154/0/selenium-ie-driver-4-2-2-sources-
jar/org/openqa/selenium/ie/InternetExplorerDriver.java
* /opt/cola/permits/1612247623_1680504049.4446154/0/selenium-ie-driver-4-2-2-sources-
jar/org/openqa/selenium/ie/InternetExplorerDriverService.java
* /opt/cola/permits/1612247623_1680504049.4446154/0/selenium-ie-driver-4-2-2-sources-
jar/org/openqa/selenium/ie/InternetExplorerDriverLogLevel.java
* /opt/cola/permits/1612247623_1680504049.4446154/0/selenium-ie-driver-4-2-2-sources-
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## 1.340 woodstox-core 6.2.1

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```
* /opt/cola/permits/1281455938_1646319090.87/0/jul-to-slf4j-1-7-36-sources-
jar/org/slf4j/bridge/SLF4JBridgeHandler.java
```

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